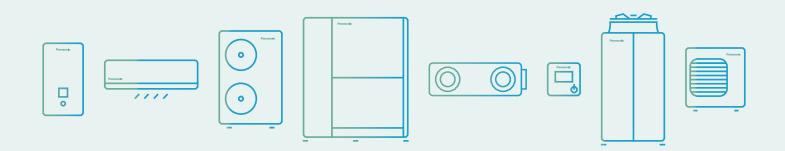
Panasonic

General Catalogue 2022 / 2023





Editorial

Panasonic – leading the way in Heating and Cooling. With more than 50 years of experience, selling to more than 120 countries around the world, Panasonic is one of the leaders in the heating and cooling sector.

Bringing nature's balance indoors.

 $nanoe^{\text{TM}}\,X,$ technology with the benefits of hydroxyl radicals.



PRO Club. The professional website of Panasonic.

Panasonic has an impressive range of support services for designers, specifiers, engineers and distributors working in the heating and cooling markets.



Aquarea

Aquarea is a ground breaking low energy system for heating and domestic hot water production: delivering outstanding performance, even at extreme outdoor temperatures.

New Aquarea EcoFleX.

2-in-1 - Sustainable and efficient comfort

all year long.

New Aquarea EcoFleX is a groundbreaking heat pump that connects an air ducted unit with nanoeTM X technology providing heat recovery hot water, space heating, space cooling and cleaner air.



Aquarea Service Cloud for professionals.

Aquarea Service Cloud will activate remote maintenance service while end user is controlling and monitoring its heating and DHW remotely.



Domestic

Panasonic has developed a range of domestic products designed for you and your clients.

Etherea: Welcome to your new home.

Designed to produce the ultimate comfort and performance for homeowners, the new Etherea is a worthy addition to any indoor environment. Now available in Matt white, Silver and Graphite grey color.



nanoe™ X: improving protection 24/7.

nanoe™ X technology brings nature's detergent – hydroxyl radicals – indoors, so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be.



Commercial

The commercial range is constantly expanding so that you can always offer your clients the optimal solutions: high performance, silent machines and a complete range of ducts, cassettes and ceiling installations.

PACi NX Series.

This series has been developed with 3 wired method and communication. It makes it simple and easy to replace old systems with 3 wire connections, which is prevalent in many systems.



CONEX. Devices and apps.

CONEX provides comfort and control for varying user needs.
Accessible, flexible and scalable with different controllers and apps.
Perfectly meeting requirements of modern controls for end user, installer and service.



VRF Systems

The VRF industrial range considerably improves efficiency so even large buildings can benefit from a high-level of comfort with less energy consumption.

Mini EC0i LZ2 Series R32.

The Mini ECOi LZ2 Series utilizes environmentally friendly R32 refrigerant, reducing the total amount of refrigerant by 20 % and more, resulting in lower GWP, reduced by 75 %.



nanoe™ X.

Panasonic's nanoe™ X technology brings nature's detergent – hydroxyl radicals – indoors to help improve protection 24/7. Available in 4 way 90x90 cassette, floor console and adaptive ducted unit.



Ventilation

Panasonic ventilation solutions for maximum savings and easy integration.

AHU connection kit 3,6 to 14,0 kW for PACi NX.

The Panasonic AHU connection kits offer a wealth of connectivity possibilities so can be easily integrated into many systems.



Energy recovery ventilation.

Panasonic energy recovery ventilators help you with your comfort and energy-saving plan.



Control and connectivity

From the individual remote controller for the residential single units up to the newest technology capable of controlling your building anywhere in the world.

Panasonic AC Smart Cloud.

Panasonic AC Smart Cloud provides building mapping, remote monitoring, error notification and schedule setting for site managers.

Panasonic AC Service Cloud help maintenance companies to manage multiple sites with remote checking and advance failure prediction functions.



Panasonic AC Service Cloud.

Panasonic AC Service Cloud provides to maintenance company a unique tool to deliver advanced maintenance to increase response time, reduce sites visits and allocate better the resources.



Chiller

Panasonic introduces the ECOi-W heat pumps and cooling only chiller series. These series provides a wide variety of HVAC system solutions, to meet all of your residential, commercial and industrial needs.

ECOi-W heat pump and cooling only chillers.

An extensive line up from 20 kW to 210 kW with an operating range of -17 $^{\circ}\text{C}$ (heating) to 50 $^{\circ}\text{C}$ (cooling). Offering a high quality, flexible solution for commercial applications.



Explore the range of fan coils.

Available in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location.



Refrigeration

Panasonic condensing units - CR Series with natural refrigerant.

Panasonic is now introducing the environmentally friendly CO₂ condensing units - CR Series for commercial refrigeration.

Refrigeration.

Offering a range of CO_2 solutions from 2 HP to 10 HP, including a new 4 HP unit. Medium or low temperature set-points available, offering a flexible installation for various applications.



CO₂ condensing units -CR Series by trusted technology.

CR Series are made in Japan with an excellent quality control established by skilled factory team.



Dimensions

Wiring diagrams





Quality Management System Certificate



ISO 9001: 2015 Panasonic Appliances Air-Conditioning Malaysia. Sdn.Bhd. Cert. No.: QMS 00413



GB/T 19001-2016/ISO 9001: 2015 Panasonic Appliances Air-Conditioning (GuangZhou) Co., Ltd. Registration Number: 01218Q30835R8L

Environmental Management System Certificate



ISO 14001: 2015
Panasonic Appliances Air-Conditioning
Malaysia Sdn.Bhd.
Cert. No.: EMS 00109



GB/T 24001-2016/ISO 14001: 2015 Panasonic Appliances Air-Conditioning (GuangZhou) Co., Ltd. Registration Number: 02118E10944R7M

Panasonic environmental vision 2050

To achieve "a better life" and "a sustainable global environment," Panasonic will work towards creation and more efficient utilisation of energy which exceeds the amount of energy used, aiming for a society with clean energy and a more comfortable lifestyle.

2050





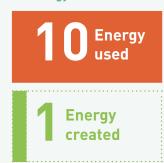
Energy used < Energy created

One initiative in the Panasonic environmental vision 2050 is offering products with greater energy efficiency. In 2018, we celebrated the 60th anniversary of our Heating & Cooling Solutions business. Our expertise gained over the years has helped us launch a range of products that contribute to a more carbon-free society.

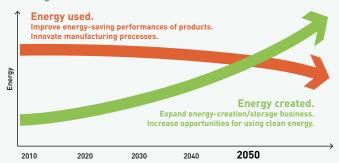
Current status of energy used and energy created

Energy used by Panasonic business activities and products.

Clean energy created and / or made available by Panasonic products, etc.



Working to realise environmental vision 2050



Projects and case studies of Panasonic Heating & Cooling Solutions

Panasonic, a partner with the knowledge and experience to achieve your objectives and green needs.

Integrated technology that permits better work, easy installation, high efficiency performance, and energy savings

Our main targets are the distributed services and B2B-integrated solutions.

Panasonic provides a single point of contact for the design and maintenance of your system, making things easy for you. Given our experience in processes, technologies and complex business models, we can offer you effective solutions that reduce costs, whilst also being efficient, user-friendly, reliable and innovative. Another advantage we offer to our clients is a support service for systems integration projects, which we provide through our wide range of services and solutions. As a global company, we have at our disposal the financial, logistical and technical resources to develop complex and wide-ranging solutions, both at country and international level by implementing them both on-time and on-budget.



Aquarea Heat Pumps provide heating and hot water for new rural housing development, UK. **Aquarea**



The Hotel Vincci Gala with efficiency class A, up to 70 % save energy. Barcelona, Spain. **ECOi - ECO G**



STEMCELL Technologies, a global biotechnology company, installed CO_2 condensing units - CR Series for cold rooms in the warehouse. France.

Refrigeration



The EDEKA store in Germany, the first supermarket providing the maintenance-free nanoeTM X technology for better indoor air quality. Germany. **ECOi and nanoeTM** X



Aquarea T-CAP provides a complete solution of heating, cooling and DHW for the refurbishment of a luxury house in Voorthuizen, Netherlands.

Aquarea



CÉDRUS LIGET, a complex facility including apartments, penthouses and showrooms etc. Hungary. **ECOi-W - ECOi - PACi**



Dolomiti Lodge Alverà hotel with nice wooden furnishings, located in Cortina d'Ampezzo, Italy. **ECOi**



LIAIGRE showroom, well-known as a luxury design architect in Paris, France. **ECO**i



Marina Village Greystones. 205 apartments and 153 houses. Ireland. **Aquarea**



ITK Engineering GmbH. An innovative office building located in Germany. **ECOi - PACi**



A historic building on Amsterdam's Marineterrein. Netherlands. **ECOi-W**



Nolan's supermarket in Ireland installs the first Panasonic CO₂ condensing units - CR Series for showcases. Ireland.

Refrigeration

A desire to create things of value



"Recognising our responsibilities as industrialists, we will devote ourselves to the progress and development of society and the well-being of people through our business activities, thereby enhancing the quality of life throughout the world." Panasonic Corporation's Basic Management Objective, formulated in 1929 by the company's founder, Konosuke Matsushita.

Panasonic becomes one of the first Japanese air conditioner manufacturers in Europe.



1975

World's first air conditioner equipped with nanoe™



First room air conditioner launched for domestic installation.



Introduces first GHP (gas heat pump) VRF air conditioner.



1958

1971

1982

1985

1989

2008

2010



Panasonic launches the first highly efficient air to water heat pump in Japan.



New Aquarea. Panasonic introduces Aquarea, an innovative new, lowenergy system in Europe.



Starts production of absorption chillers.



Introduces world's first simultaneous 3-Pipe heating / cooling VRF System.

Vitalize the future with air

These are times of exceptional challenge.

If the world is to move forward confidently, it must overcome the serious threats of the new global pandemics and the degrading of the environment. It must find ways large and small to reduce the stresses that affect people's health and the stability of their communities.

At Panasonic, we're utilizing the power of air to create positive change.

Air that benefits body and mind.

Air that energizes the places where people gather to work and play.

Air that reduces our burden on the Earth.

With more than a century of research and expertise to guide us, we're using air to open a more hopeful and vital future for all.

New Panasonic GHP units. The gas-driven VRF Systems are ideal for projects where power restrictions apply.

Panasonic introduces a new Chiller series which is named as EC0i-W.



New VRF Systems EC0i EX with extraordinary energy saving performance.



Mini VRF R32 up to 10 HP. Outstanding efficiency in a compact body.



2012

2015

2016 | 2018

2019

2020

2021

Looking ahead



The first Hybrid System with VRF and GHP in Europe.



CO₂ condensing units in Europe. The ideal solution for supermarkets, shops and gas stations.



nanoe[™] X, technology with the benefits of hydroxyl radicals. Improving protection 24/7.

Bringing nature's balance indoors



nanoe™ X, technology with the benefits of hydroxyl radicals.



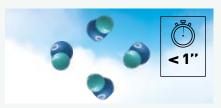
In today's health-conscious world, we care about taking exercise, we care about what we eat and what we touch, we also care about what we breathe – and technology exists to bring good outdoor air, indoors.



Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be, whether at home, work, or visiting hotels, shops and restaurants etc.

A naturally occurring process

Hydroxyl radicals are unstable molecules looking to react with other elements like hydrogen, capturing it. Thanks to this reaction, hydroxyl radicals have the potential to inhibit the growth of pollutants such as bacteria, viruses, moulds, and odours, breaking them down and neutralising the unpleasant effects. This naturally occurring process has major benefits to improve indoor environments.



Hydroxyl radicals in nature.

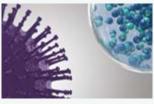


Hydroxyl radicals contained in water.

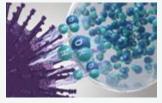
By creating hydroxyl radicals contained in water, nanoeTM X technology significantly boosts their effectiveness, increasing hydroxyl radicals lifetime from less than a second in nature, to more than 600 seconds – 10 minutes so that nanoeTM X can spread easily around the room.

Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent – hydroxyl radicals – indoors to help create an ideal environment

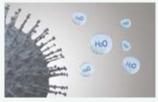
Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



1 | nanoe™ X reliably reaches pollutants.



2 | Hydroxyl radicals denature pollutants proteins.



3 | Pollutants activity is inhibited.

The well-being benefits of nature are well known - but do you know the power of hydroxyl radicals?

What is unique about nanoe™ X?

Hydroxyl radicals inhibit pollutants, certain types of viruses, and bacteria to clean and deodorise. Thanks to this advanced technology, even tightly woven fabrics can be treated using this solution, meaning that curtains, blinds, carpets and furniture can all benefit from this technology to inhibit hazardous substances – including on hard surfaces and, of course, the air that we breathe.



Effective on fabrics and surfaces.



1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

Longer lifespan.



2 | Contained in tiny water particles, nanoe™ X has a longer lifespan to spread easily around the room.

Huge quantity.



3 | nanoe X Generator Mark 2 produces 9,6 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

Maintenance-free.



4 | No maintenance, no replacement required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titatium.

7 effects of nanoe™ X – Panasonic unique technology

Deodorises

Odours

Capacity to inhibit 5 types of pollutants



Bacteria and viruses



Mould



Allergens



Pollen



Hazardous substances



Moisturises

Skin and hair

* Refer to https://aircon.panasonic.eu for more details and validation data.

The latest nanoe™ X device uses a "multi-leader discharge" system that focuses the discharge to 4 needle-shaped electrodes, greatly expanding the hydroxyl radicals.

The image shows nanoe \boldsymbol{X} Generator Mark 1.



How nanoe $^{\text{TM}}$ X is generated.

- 1 | Atomised electrode produces condensation.
- 2 | Electrical discharge is applied to the water
- 3 | nanoe™ X particles are generated

nanoe™ X, internationally-validated technology in testing

The effectiveness of nanoe™ X technology has been tested by 3rd party laboratories in Germany, France, Denmark, Malaysia and Japan.

Test results conducted under controlled laboratory conditions. Performance of nanoe™ X might differ in real life environment.

Panasonic heat pump with nanoe™ X technology verified against SARS-CoV-2

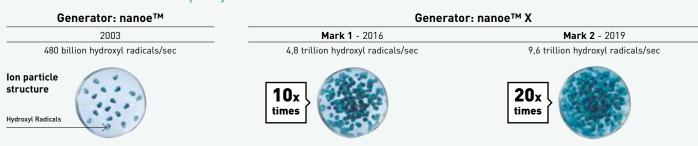
Virus SARS-CoV-2: 91,4 % inhibited. Test conducted by TEXCELL (France), using a gauze saturated with SARS-CoV-2 virus solution exposed to Panasonic heat pump with nanoe™ X in a space of 6,7 m³ over 8 hours. Test report: 1140-01 C3.

Performance of nanoe™ X might differ in real life environment.

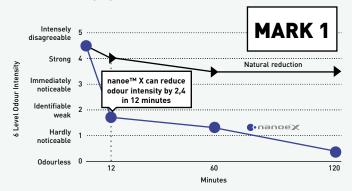
	Tested contents		Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Bacteriophage ФХ174	99,7 % inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
Airb	Bacteria	Staphylococcus aureus	99,9 % inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	2016_0279
Adhered	Virus	SARS-CoV-2	91,4 % inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	99,9 % inhibited	45 L	2 h	Texcell (France)	1140-01 A1
		Feline Coronavirus	99,3 % inhibited	45 L	2 h	Yamaguchi University Faculty of Agriculture	_
		Xenotropic murine leukemia virus	99,999 % inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	_
		Influenza (H1N1 subtype)	99,9 % inhibited	1 m³	2 h	Kitasato Research Center for Environmental Science	21_0084_1
		Bacteriophage ФХ174	99,80% inhibited	25 m³	8 h	Japan Food Research Laboratories	13001265005-01
	Bacteria	Staphylococcus aureus	99,9 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Ambrosia pollen	99,4 % inhibited	20 m³	8 h	Danish Technological Institute	868988
		Cedar	97 % inhibited	Approx. 23 m ³	8 h	Panasonic Product Analysis Center	4AA33-151001-F01
	Odours	Cigarette smoke odour	Odour intensity reduced by 2,4 levels	Approx. 23 m ³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04

The nanoeTM X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoeTM X is not medical device, local regulations on building design and sanitary recommendations must be followed.

First nanoe™ device was developed by Panasonic in 2003

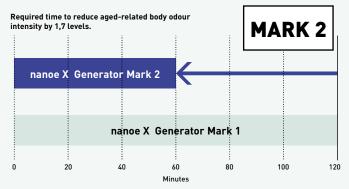


nanoe X Generator Mark 1 can reduce cigarette smoke odour intensity by 2,4 levels in 12 minutes



Deodorisation effect for adhering odour (cigarrette smoke). Deodorisation test.
Testing organisation: Panasonic Product Analysis Center. Testing method: Verified using the six-level odour intensity scale method in an approximately 23 m³ sized test room. Deodorisation method: nanoe™ released. Test substance: Surface-attached cigarette smoke odour. Test result Odour intensity reduced by 2,4 levels in 12 minutes. [4AA33-160615-N04].

nanoe X Generator Mark 2 can reduce the aged-related body odour in half of the time



Deodorisation test

Testing organization: Panasonic Product Analysis Center. Testing method: Verified using the sixlevel odour intensity scale method in an approximately 23 m³ sized test room. Deodorisation method: nanoe™ released. Test substance: Surface-attached aged related body odour. Test result: Odour intensity reduced by 1.7 levels in 1 hour (Y18HM059).

Where is nanoe™ X technology used?

Since 2003, nanoe™ has become a part of people's lives in Japan and other regions.

Such technology can be found in diverse applications for cleaning air and surfaces, inside trains, elevators, cars, home appliances and personal beauty ... as well as in air conditioning.

Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment for residential applications as well as for commercial spaces and, it is a solution that does not require filters or maintenance and can work independently from heating or cooling.



Home



Office



Shop

Clinic



Gvm



Hotel



Restaurant



Hospital

It has been adopted in people's homes as well as in public facilities where improved air quality is desired, such as offices, hospitals, healthcare centres and hotels etc.

nanoe™ X: improving protection 24/7









Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment

Home.

Built-in nanoe X Generator Mark 2.



Wall-mounted Etherea XZ-H. CS-XZ**XKEW-H. 3 capacities: 2,0 - 3,5 kW.



Wall-mounted Etherea XZ. CS-XZ**XKEW. 4 capacities: 2,0 - 5,0 kW.



Wall-mounted Etherea Z. CS-(M)Z**XKE(W). 7 capacities: 1,6 - 7,1 kW.



Aquarea EcoFleX ducted unit. S-71WF3E.

Built-in nanoe X Generator Mark 1.



Floor console. CS-Z**UFEAW. 4 capacities: 2,0 - 5,0 kW.

Built-in nanoe™.



Commercial.

PACi NX. Built-in nanoe X Generator Mark 1.



4 way 90x90 cassette. S-****PU3E. 7 capacities: 3,6 - 14,0 kW.

PACi NX. Built-in nanoe X Generator Mark 2.



Wall-mounted. S-****PK3E. 5 capacities: 3,6 - 10,0 kW.



4 way 60x60 cassette. S-**PY3E. 4 capacities: 2,5 - 6,0 kW.



S-****PT3E. 7 capacities 3,6 - 14,0 KW.



Adaptive ducted unit. S-****PF3E. 7 capacities: 3,6 - 14,0 kW.

VRF. **NEW** Built-in nanoe X Generator (TBC).



Y3 Type 4 way 60x60 cassette. S-**MY3E. 6 capacities: 1,5 - 5,6 kW.

VRF. Built-in nanoe X Generator Mark 2.



U2 Type 4 way 90x90 cassette. S-***MU2E5B. 11 capacities: 2,2 - 16,0 kW.



F3 Type adaptive duct. S-***MF3E5B. 12 capacities: 1,5 - 16,0 kW.

VRF. Built-in nanoe X Generator Mark 1.



G1 Type floor console. S-**MG1E5N. 5 capacities: 2,2 - 5,6 kW.

nanoe™ X: improving protection 24/7

100 % Panasonic, the DNA of Japanese craftsmanship

JAPAN QUALITY

Applying advanced technologies that truly make life better, we live by an unparalleled commitment to product quality.

Panasonic is building on the Japanese tradition of uncompromising quality control worldwide, developing and manufacturing fine products and delivering them to customers everywhere.



At Panasonic, we believe that the best air conditioner is one that works quietly and effectively in the background whilst minimising its impact on the environment

People who use our products can look forward to long years of high-quality performance without the need for constant service. As part of our rigorous design and development process, Panasonic air conditioners undergo a variety of stringent tests to ensure their effectiveness and long-term reliability. Tests for durability, waterproofing, shock resistance, and noise are conducted on component parts or on the finished products themselves.

As a result of all of these time consuming efforts, Panasonic air conditioners meet industrial standards and regulations in every country where they are sold.

International Standard Quality

To uphold the company's reputation around the world, Panasonic strives continuously to offer quality with minimized environmental impact.



Reliable parts that meet or exceed industrial standards.

In every country where they are sold, Panasonic air conditioners comply with all required industrial standards and regulations. In addition, Panasonic conducts stringent testing to ensure the reliability of parts and materials. The strength of the resin material used in a propeller fan is confirmed by a tension test.



Compliance with RoHS / REACH substance restrictions.

Panasonic products and used materials strictly comply with chemical substance restrictions as defined by RoHS or REACH. During the development and production of parts, stringent inspections are conducted on over 100 materials to ensure that no hazardous substances are included.



Sophisticated production process.

Panasonic's air conditioner production lines employ state-of-the-art factory automation technologies to ensure products are manufactured with high attention to quality to meet expectations of reliability and trustworthiness.

Durability

At Panasonic we know the importance of a long service life with minimal maintenance. That's why we subject our air conditioners to a wide range of stringent durability tests.



Long-term durability test.

To ensure durability and stable operation for many years, we conduct a long-term continuous operation test under conditions that are much more severe than actual operating conditions.



Compressor reliability test.

After the continuous operation test, we remove the compressor from a selected outdoor unit, disassemble it, and examine the internal mechanisms and parts for potential failure. This helps ensure reliable long-term performance under harsh conditions.



Waterproofing test.

The unit - which is subject to rain and wind - complies with IPX4 waterproof specifications. Contact sections on printed circuit boards are resin-potted to prevent adverse effects caused by exposure to water (an unlikely occurrence).

A globally trusted air conditioning brand

Panasonic – leading the way in Heating and Cooling.
With more than 50 years of experience, selling to more than 120 countries around the world, Panasonic is one of the leaders in the heating and cooling sector.
With a diverse network of production and R&D facilities, Panasonic delivers innovative products incorporating cutting-edge technologies that set the standard for air conditioners worldwide.



From, for and by Europe

In 2018 Panasonic initiated the production of air to water heat pumps in its factory in Pilsen, Czech Republic. Keeping an excellent combination of highly skilled human resources and production automation the big demand growth foreseen in Europe can be met with outstanding quality standards.



Factory in Pilsen, Czech Republic.



More than 40 years of experienced organization in Europe.

At Panasonic, we know that the best is always yet to come. This is why our air conditioning and heat pump solutions are constantly upgraded. Panasonic is committed to offering our customers innovative products in the heating and cooling market across Europe, and has the ambition to not only meet but also exceed their requirements. Our Technology and Design teams anticipate the needs of tomorrow. We look to produce smaller, quieter, efficient solutions - with better technological features - that can reduce energy consumption while providing suitable temperature conditions for the user.

Panasonic R&D Center Germany GmbH.

The European Research and Development Center of Panasonic focusing on technology development for intelligent and environmentally friendly future products, such as audio video, communication and energy solutions.



Panasonic R&D Center Germany GmbH.

37 Training Center in 19 countries in Europe

The Panasonic PRO Academy.

Heating and Cooling business is changing rapidly, new technologies, new regulations, new solutions that require continuous update for professionals. Panasonic takes its responsibility to its distributors, specifiers and installers seriously and has developed a comprehensive training programme with 37 Training Center in 19 countries in Europe.





PRO Club. The professional website of Panasonic

Panasonic has an impressive range of support services for designers, specifiers, engineers and distributors working in the heating and cooling markets.



Panasonic PRO Club (www.panasonicproclub.com) is the online tool which makes your life easier! You just have to register and a lot of functionalities are freely available to you, where ever you are, from your computer or smartphone!

- · Print catalogues with your logo and contact details
- Access to the extensive library of professional design, selection and calculation tools (Aquarea Designer, VRF software, chiller selector, etc.)
- \cdot Get documents of conformity and all other documents you may need
- · Download all the service manuals, end user manuals and installation manuals
- · Download energy labels in PDF format using the energy label generators

- · Download Revit and CAD files and specification texts
- \cdot Know what to do with error codes (error code search by error code or unit ref.)
- · PRO Academy: register for training
- Download product images in high resolutions, advertisements, deco guidelines
- · Get to know special offers and promotions
- \cdot Find out about the latest news first



Easy download Panasonic service documentation and brochures



Customise leaflets with your logo and contact details. Save and print the PDF



Energy label generator. Download Energy labels of any device in PDF format



Error Code on your smartphone and your PC: Search by error code or model reference. Online version + downloadable version for offline use

Panasonic PRO Club is fully compatible with tablet computer and smartphone.

Visit www.panasonicproclub.com or connect simply with your smartphone to the PRO Club using this QR.



Panasonic provides bespoke software and tools helping system designers, installers and dealers to very quickly select, design and size systems or create wiring or hydraulic diagrams at the push of a button.

Aquarea Designer - online tool

With Panasonic's online tool, projects can be developed simply and easily. The newly developed tool is optimised to help HVAC professionals easily identify the most appropriate Aquarea air to water heat pump for a particular application.



Domestic AirCon Quick Selector

This user-friendly online tool for our domestic range allows to choose the best split or multi-split system for each project needs and get the specifications of that particular application.



VRF Designer

Building on the success of the ECOi VRF
Designer software, this package provides air
conditioning system designers, installers and
dealers with a program to design and size projects for
Panasonic's VRF ranges.



Open BIM

Design, analysis and BIM modeling of Panasonic VRF and Air to Water heat pump systems.

Generates documents, 3D model, schematics and drawings. This application is integrated into the Open BIM workflow via the BIMserver.center platform.



Chiller configurator

This online software solution offers a complete tool to allow the user to accurately calculate the performance at specified conditions, select and configure our range of commercial chillers, heat pumps and fan coils. It also provides a comprehensive report to share with customers and clients alike.



Refrigeration tool

Panasonic has launched a new online calculator to support engineers, installers, and technicians to quickly make calculations when specifying solutions for commercial refrigeration systems.



AQUAREA





Welcome to Aquarea air to water heat pump

Aquarea's air to water Heat Pump for residential and commercial applications.

Offering capacities from 3 kW all the way through to 16 kW, the Aquarea Heat Pump Range is the widest on the market, ensuring a system is available whatever your heating and cooling needs. Suitable for new build and refurbishment projects, the solutions are cost-effective with minimised environmental impact.

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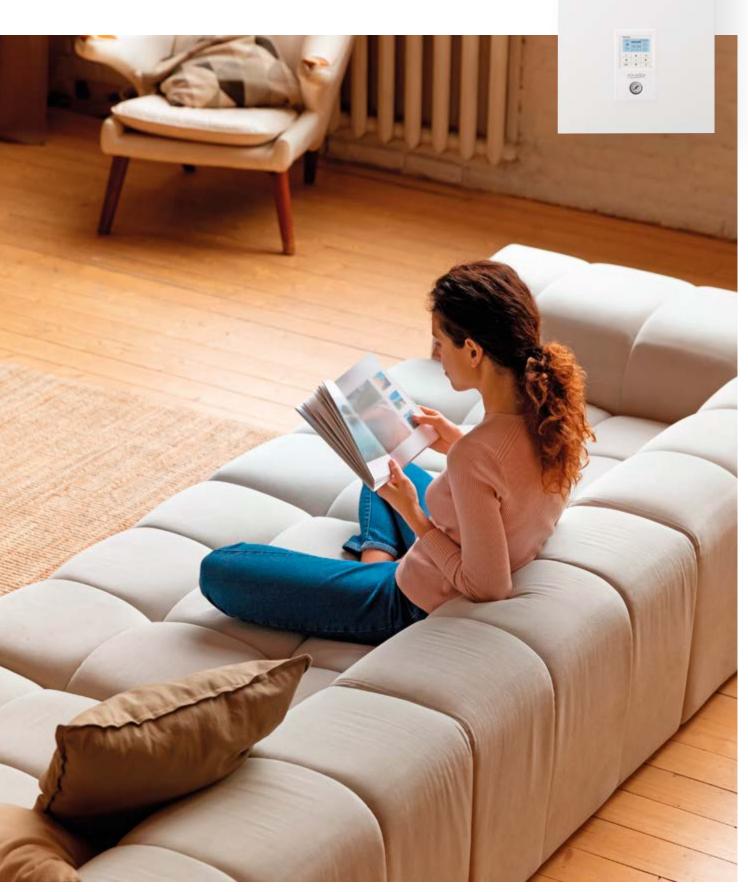






Highlighted features

Panasonic's Aquarea range of heat pumps deliver major energy savings thanks to its incredible efficiency even at -20 °C. The Panasonic Aquarea Heat Pumps are designed and produced by Panasonic and not by other companies.



The Aquarea Heat Pump is a system that generates the perfect temperature and produces hot water, in an easy, cheap and environmentally conscious way, by transferring heat instead of generating it. It is among the Technologies listed on the International Energy Agency (IEA) Blue Map, whose goal is to reduce CO_2 emissions to half the levels emitted in 2005, by the year 2050. Aquarea is part of a new generation of heating solutions that use a renewable, free energy source (the air) to heat or cool the home and to produce hot water.



The Good Design Award is among the most prestigious awards for product design excellence. Winning this award has underscored the outstanding performance and energy savings of the Panasonic indoor units All in One and Bi-bloc. In addition, these units' clean, tidy design and functionality make the Aquarea line the ideal system for household applications.



Energy saving



Potential (GWP)

Refrigerant gas R32 Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming



Better efficiency and value for medium temperature applications. Energy efficiency class up to A++ in a scale from A+++ to D.



Better efficiency and value for low temperature applications. Energy efficiency class up

Energy efficiency class u to A+++ in a scale from A+++ to D.



Better efficiency and value for domestic hot water.

Energy efficiency class up to A+ in a scale from A+ to F



Inverter Plus.
Panasonic Inverter Plus compressors are designed to achieve outstanding level of performance.



A class water pump. Aquarea are built-in with A class energy efficiency water pump. High efficiency circulating the water in the heating installation.

High Performance

5,33 COP HIGH PERFORMANCE

Aquarea High Performance for low

consumption houses.
From 3 to 16 kW. For a house with low temperature radiators or under-floor heating, our high performance Aquarea HP is a good solution.
**COP of 5,33 for J Generation 3 kW.



Aquarea T-CAP for extremely low temperatures.

From 9 to 16 kW. If the most important aspect is to maintain nominal heating capacities even at temperatures as low as -7 °C or -20 °C, select the Aquarea T-CAP.



Aquarea HT ideal for retrofit. From 9 to 12 kW.

For a house with traditional high-temperature radiators, the Aquarea HT solution is the most appropriate, can work in output water temperatures of 65 °C even at outdoor temperatures as low as -20 °C.



DHW.

With Aquarea you can also heat your domestic hot water at a very low cost with the optional hot water cylinder.



Down to -20 °C in heating mode.

The heat pumps work in heating mode with an outdoor temperature is as low as -20 °C.



Water filter with magnet. Easy access and fast clip

technology for J Generation. Water filter only for H Generation.



60 °C output water.

Reaches water outlet temperature up to 60 °C.



Water flow sensor.

Included on J and H Generation.



5 years compressor

warranty.
We guarantee the outdoor unit compressors in the entire range for five years













Aquarea J and H Generation heat pumps in combination with the optional PCB CZ-NSP4 hold the SG Ready Label (Smart Grid Ready Label), given by Bundesverband Warmepumpe (German Heat Pump Association). This Label shows the real capacity of Aquarea to be connected in an intelligent grid control.

MCS Certificate number: MCS HP0086.*

MCS Certificate number: MCS HP0086.* Keymark: Check all our certified heat pumps on: www.heatpumpkeymark.com.

Passive House Institute: Certified models can be checked in

https://database.passivehouse.com.

High connectivity



Renovation.

Our Aquarea Heat Pumps can be connected to an existing or new boiler for optimum comfort even at very low outdoor temperatures.



Solar kit.

For even greater efficiency, our Aquarea Heat Pumps can be connected to photovoltaic solar panels with an optional kit.



Advanced control.

Remote controller with full dotted 3,5" wide back light screen. Menu with 17 available languages easy to use for installer and user. Included on J and H Generation.



Internet control.

A next generation system providing user-friendly remote control of air conditioning or heat pump units from everywhere, using a simple Android^M or iOS smartphone, tablet or PC via the internet.



Connectivity.

The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic heat pump to your home or building management system.

Warning on quality of water and groundwater use:

This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

^{*} Not all products certified. As the certification process is on-going and the list of certified products constantly changing, please check for latest details on the official websites.

Introducing the Panasonic Aquarea – air source heat pump

At the forefront of energy innovation, Aquarea is resolutely positioned as a "green" heating and air conditioning solution.









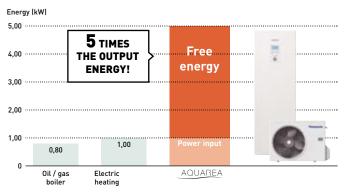


Introducing the Panasonic Aguarea - air source heat pump

In European households, 79 %* of energy consumption comes from heating and producing domestic hot water. By converting heat energy in the air into household warmth, highly efficient Aquarea technology reduces ${\rm CO_2}$ emissions and environmental impact, compared to conventional boilers and electric heaters. Compared to an electric heater, the Aquarea Heat Pumps offer up to five times the output in kilowatts per every input in kilowatts.

* ec.europa.eu/eurostat

Comparison: 1 kW input versus output in kW.







Why Panasonic Aquarea air source heat pumps?



Optimum solutions for premium comfort.

Panasonic Aquarea Heat Pumps warm your home effectively and efficiently, to optimise the comfort.

- Precise control the indoor temperature thanks to reliable Panasonic Inverter Compressors
- · Aquarea can cool space in summer and brings hot water all year round
- · Night mode to reduce the noise when it's needed
- Aquarea T-CAP heat pumps can work in outdoor temperatures as low as -28 °C (for All in One and Bi-bloc)
- · Energy savings, comfort and convenient control from any location thanks to Aquarea Smart Cloud
- · Aquarea Service Cloud enables remote maintenance of the system



Energy saving means money savings.

Panasonic Aquarea Heat Pumps are a smart choice for saving in heating, all leading to large savings in electricity hills

- · Savings of up to 80 % on heating expenses, compared to electrical heaters
- · Up to A+++ in heating, within the range of A+++ to D, and A+ in domestic hot water, in the range of A+ to F
- · Energy consumption can be further reduced by connecting photovoltaic panels to the system
- In combination with a ventilation solution, the indoor air becomes cleaner and the heating requirements of the building are reduced



Adapts to your needs.

Panasonic Aquarea Heat Pumps produce heating, cooling and domestic hot water with a single system.

- From 3 kW to 16 kW, there is always an option for lower initial investment and lower operational cost
- Aquarea can be connected to floor heating, radiators or fan coil units
- · In refurbishment projects, Aquarea can be integrated in existing heating systems
- · Able to reach up to 65 °C water outlet¹⁾
- Large piping length of up to 50 m between indoor and outdoor
- · Aquarea T-CAP heat pumps guarantee the capacity without back-up heating down to -20 °C²

1) Aquarea T-CAP Mono-bloc J Generation and Aquarea HT.

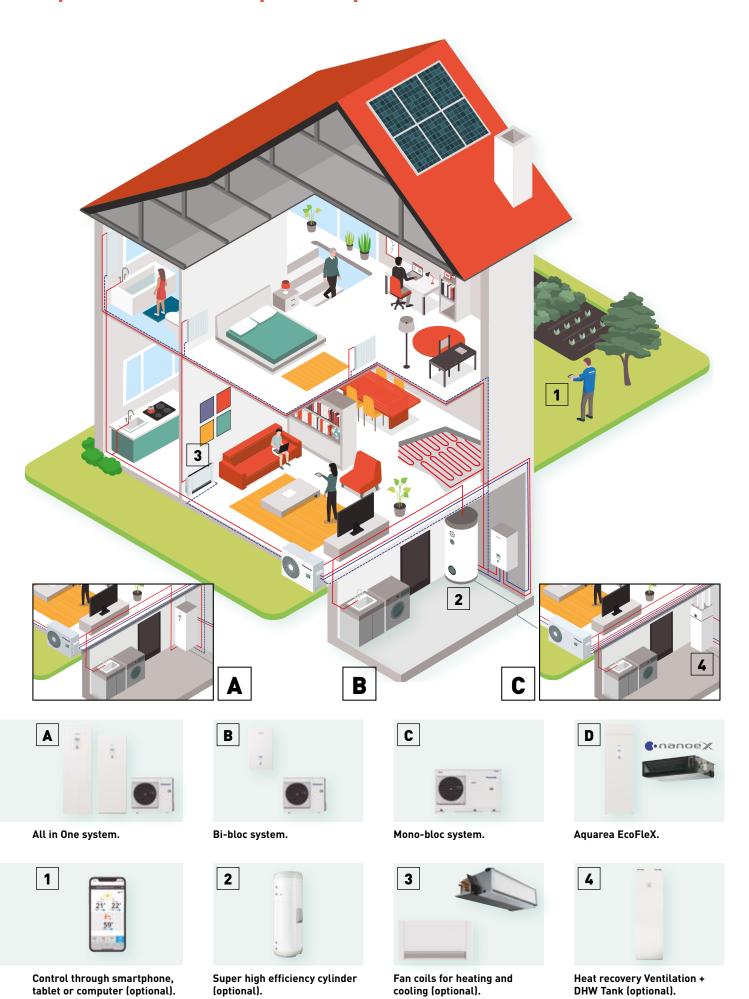


Contributing to a descarbonised society.

The heat pump is considered a 'green' choice as the heat energy is taken from the environment, making it a sustainable option.

- · It maintains a comfortable indoor temperature while significantly reducing environmental burden
- All Aquarea Heat Pumps can also be connected to a solar thermal or PV system in order to increase efficiency and minimise environmental impact

Aquarea Heat Pump line-up



Panasonic Aquarea offers you solutions, helping to make the home more efficient and the installation cheaper and easier.

Aquarea EcoFleX

For new installations, specially those with limited spaces. New Aquarea EcoFleX is a groundbreaking heat pump that connects an air ducted unit with nanoe™ X technology providing heat recovery hot water, space heating, space cooling and cleaner air. Outstanding efficiency and energy savings with low CO₂ emissions.

Aquarea High Performance

For new installations and low consumption homes.

Outstanding efficiency and energy savings with minimised CO₂ emissions and minimum space. Improved performance with COPs up to 5,33 for J Generation 3 kW.

Aquarea T-CAP

For extremely low temperatures, refurbishment and innovation.

Ideal to ensure that the heating capacity is maintained even at very low temperatures. This line-up is able to maintain the heat pump output capacity until -20 $^{\circ}$ C¹⁾ outdoor temperature without the help of an electrical booster heater.

1) At 35 °C flow temperature.

Aguarea HT

For a house with old high-temperature radiators.

Ideal for retrofit: green energy source works with existing radiators. Aquarea HT Solution is the most appropriate, providing output water temperatures of $65\,^{\circ}\text{C}$ even at outdoor temperatures as low as -15 $^{\circ}\text{C}$.

Aquarea EcoFleX	Aquarea High Performance	Aquarea T-CAP	Aquarea HT				
∅ ∰ ∅	₩ 🚳	₩ 🚳	◎ ◎				
Heating - Cooling - DHW	Heating - Cooling - DHW	Heating - Cooling - DHW	Heating - DHW				
Single phase 8 kW	Single phase from 3 to 16 kW Three phase from 9 to 16 kW	Single phase from 9 to 12 kW Three phase from 9 to 16 kW	Single phase from 9 to 12 kW Three phase from 9 to 12 kW				
Connectable to							
	[] []	[] [] []	• G				
Radiators - Underfloor heating - DHW - Air conditioning	Radiators - Fan coil - Underfloor heating - DHW	Radiators - Fan coil - Underfloor heating - DHW	Traditional high-temperature radiators - DHW				
Application							
New buildings	Normal installation	For extreme cold ambient	Retrofit for old radiators				
Energy efficiency							
A++ / A++							
Heating 35 °C / 55 °C ¹⁾	Heating 35 °C / 55 °C ¹⁾	Heating 35 °C / 55 °C ¹⁾	Heating 35 °C / 55 °C ^{1]}				
Minimum outdoor temperature							
-15 °C	-20 °C	-28 °C (All in One and Bi-bloc) -20 °C (Mono-bloc) ²⁾	-20 °C				
Minimum o	outdoor temperature to provide cons	ant capacity at 35 °C supply water te	mperature				
-	-7 °C (not for all units)	-20 °C ^{2]}	-15 °C				
	Supply temperature for heating	g. Maximum / Heat pump only					
65 °C / 55 °C	75 °C ³⁾ / 55 °C ⁴⁾ (or 60 °C for Aquarea J Generation)	75 °C ^{3]} / 60 °C ^{4]} (65 °C ^{5]} for Aquarea J generation)	75 °C ^{3]} / 65 °C				
Control and connectivity							
Smart Grid Contact ⁶⁾ Wi-Fi included	Smart Grid Contact ⁶⁾ Wireless LAN Ready	Smart Grid Contact ⁶⁾ Wireless LAN Ready	_				
	Ra	nge					
Aquarea EcoFleX 8 kW (185 L)	All in One from 3 to 16 kW (185 L) Bi-bloc from 3 to 16 kW Mono-bloc from 5 to 16 kW	All in One from 9 to 16 kW (185 L) Bi-bloc from 9 to 16 kW Mono-bloc from 9 to 16 kW	Bi-bloc from 9 to 12 kW Mono-bloc from 9 to 12 kW				

All data in this chart is applicable in most of models in each line up, check product specs to confirm. 1] Scale from A+++ to D. 2] 9 and 12 kW. 3] DHW maximum temperature with heater. 4] In case of outdoor temperature over -10 °C. 5] It is possible to set temperature by 65 °C on remote controller. Normally, outlet water temperature is 60 °C or lower. In case of ΔT setting with remote controller is 15 °C and the outdoor ambient temperature is 5 to 20 °C, outlet water temperature 65 °C is possible. 6] J and H Generation with CZ-NS4P.

New Aquarea EcoFleX

2-in-1 - Sustainable and efficient comfort all year long.

New Aquarea EcoFleX is a groundbreaking heat pump that connects an air ducted unit with nanoe™ X technology providing heat recovery hot water, space heating, space cooling and cleaner air. Outstanding efficiency and energy savings with low ${\rm CO_2}$ emissions.



Multi solution

Trendy air to water + DX value added solution, featuring bi-heating and heat recovery function.

- · Bi-heating: Simultaneous air heating and DHW or heating
- Heat recovery: Re-use wasted heat from the outdoor unit for DHW production
- Non-stop heating: Air heating runs continuously even in defrost operation

Compact design

Aquarea EcoFleX offers outstanding design and efficiency, ideal for installations with limited spaces such as apartments or housing complexes.

The compact outdoor unit can supply both air conditioning and hot water at the same time.

The Tank fits beautifully in any kitchen, small laundry space, or any other desired area.

No need for gas supply.

Smart convenience

Energy savings, comfort and control from anywhere. Aquarea EcoFleX is equipped standard with Wi-Fi to enable smart control and energy consumption monitoring, using Aquarea Smart Cloud.



nanoe™ X technology to improve protection 24/7

This advanced technology utilises hydroxyl radicals (also known as OH radicals), which inhibit the growth of certain pollutants such as allergens, bacteria, viruses, moulds, odours, and certain hazardous substances. This naturally occurring process has major benefits indoors and improves the protection inside a room 24/7.

The nanoe TM X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect [see page 10 for more detail]. nanoe TM X is not medical device, local regulations on building design and sanitary recommendations must be followed.



Unique technology that drives the system

Heat recovery.

Cooling (air to air) + DHW (air to water).

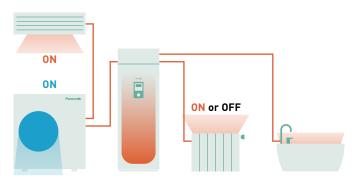
Heat exchange that took place in outdoor unit now is carried out in the water heater.

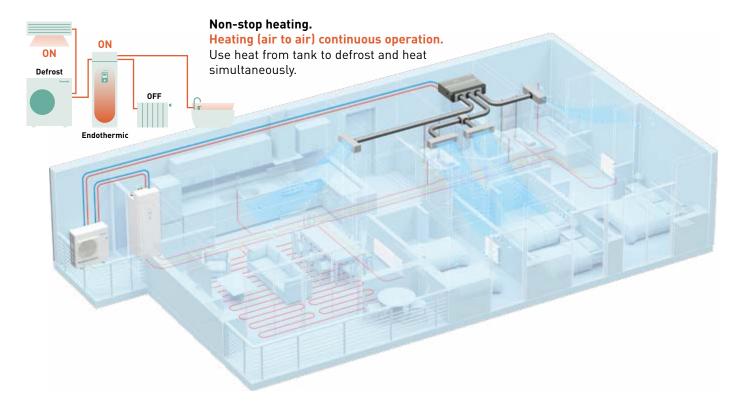
ON Heat recovery

Bi-heating.

Heating (air to air) + Heating (air to water) or DHW.

Heat from the compressor is supplied for heating and DHW simultaneously.





New Aquarea EcoFleX. Air to water

Tank unit + heat exchanger box to produce domestic hot water and space heating using radiators or floor heating.



Fits beautifully in any kitchen, small laundry space, or any other desired area



Compact, yet easy to maintain











1 | Heat exchanger box structure to mitigate R32 refrigerant restrictions, flexible installation.

Water heat exchanger is designed above the top plate to comply with installation area regulation for products using large amounts of R32 refrigerant.

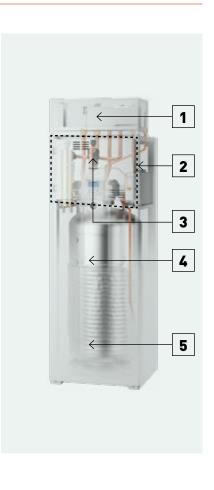
2 | Maintained serviceability.

more convenience.

- · Easy maintenance concept
- · Access to hydraulic parts thanks to door opening mechanism
- No buffer tank required, reducing space, cost and installation time
- 3 | Improved water filter for less maintenance. Superior dust removal capacity of the water filter. Less frequent filter cleaning means
- 4 | Slim indoor unit with big tank capacity.
 Built-in 185 L water tank in a slim
 W 598 x D 600 mm indoor unit housing.

better than standard urethane foam.

5 | U-Vacua insulation technology. Panasonic U-Vacua™ is a high performance vacuum insulation panel with very low thermal conductivity, that performs about 19 times



New Aquarea EcoFleX. Air heating or cooling and cleaner air





Aquarea EcoFleX ducted unit has been designed to provide better comfort and flexibility.

Superior air quality

Standard equipped with

nanoe™ X, a unique technology

that cleans indoor air.

Ideal for living spaces

- · Static pressure level: 10 150 Pa
- · Compact body: Only 250 mm high
- · Smart control ready via CONEX
- · Rated up to SEER / SCOP class A++
- · Low noise operation (22 ~ 29 dB(A)) using an improved fan casing
- · DC fan motor, built-in drain pump

Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent – hydroxyl radicals – indoors to help create an ideal environment



Thanks to the nanoe TM X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.

Deodorises

Capacity to inhibit 5 types of pollutants

Moisturises















c∙nanoe

Improving

Protection

Odours Bacteria and viruses Mould

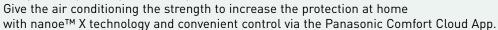
The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

REFER TO PAGE 10 FOR MORE DETAILS AND VALIDATION DATA



nanoe™ X: improving protection 24/7.

Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long. nanoeTM X works together with heating or cooling function when you are at home and can work independently when you are away.



Cleans the air when you are away.

Leave the nanoe $^{\text{TM}}$ mode ON to inhibit certain pollutants and deodorise before you return home.

Improves your environment when you are at home.

Enjoy a cleaner, comfortable space with loved ones.

Selectable inlet air position

Inlet air position may be adjusted by means of a removable panel, to allow rear or bottom entry, depending on the duct installation.



٥r



Compact body

- · Only 250 mm high
- · Light units from 25 to 39 kg

Conventional model	33 kg	290 mm
Ducted unit	30 kg	250 mm

Ducted unit



All in One Compact

The Aquarea All in One Compact unit is the ultimate space-saving solution. Its 598×600 mm footprint, standard size of other big appliances, reduces the space required for the installation



Aguarea All in One: the best Panasonic technology for your home

High quality components inside:

- · Maintenance free Inox stainless 185 l tank
- · Variable speed water pump (class A)
- · Less frequent maintenance with pre-installed improved magnet filter
- · Expansion vessel
- · Vortex flow sensor
- · Back up heater
- · Safety valve
- · Air purge valves
- · 3 way valve inside

The ultimate space-saving solution.

- · 598 x 600 mm footprint reduces required installation space
- · Low height leaves space for a ventilation unit
- No buffer tank required, reducing space, cost and installation time

Further flexibility.

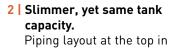
- · Easy access to hydraulic parts
- Less frequent maintenance with pre-installed improved magnet filter
- · Operation without back-up heating at -20 °C
- · Can supply 60 °C hot water even at -10 °C outside temperature
- · Piping length up to 50 m (for J Generation 7 and 9 kW)
- Modern remote controller can be installed up to 50 m from the indoor unit
- · Can connect additional room temperature sensor, solar kit, 2 zones control, swimming pool and circulating pump (need optional PCB: CZ-NS4P)

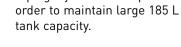
Aquarea All in One Compact: Made compact but maintenance is still easy



1 | Maintained serviceability.

- · Easy maintenance concept
- Access to hydraulic parts thanks to door opening mechanism







3 | Advanced magnetic water filter for less maintenance.

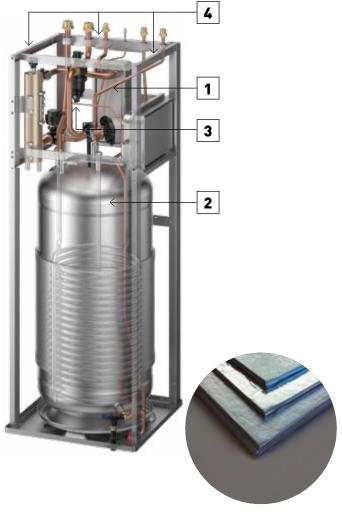
Superior dust removal capacity of the water filter.
Less frequent filter cleaning means more convenience.



4 | Robust body for top ventilation unit.

Strengthening the body and top surface with a frame enables installation of a top ventilation unit. For safety, it's secured with bolts to prevent it falling.





U-Vacua™ VIPs consist of a unique fiberglass core encased in a laminate film made up of several layers that include nylon, aluminium, and a protective layer. Interior pressure is reduced to a vacuum of 1-20 Pa, thereby minimising thermal conductivity.

Aquarea All in One with 2 zone control: The optimal solution for an installation with 2 heating zones.

- · 2 heating circuits, with 2 different water temperatures
- · 2 water pumps and 2 water filters
- · Floor heating water control with mixing valve

Aquarea High Performance

For new installations and low consumption homes. Outstanding efficiency and energy savings with minimised ${\rm CO_2}$ emissions and minimum space.



High Performance helps you to meet strict building requirements and reduce building costs

The heating and production of domestic hot water have a very important impact on the energy consumption of a house. Efficient Panasonic heat pumps can help to significantly reduce the energy consumption of the house.

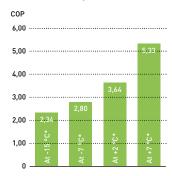
Key points of the line-up

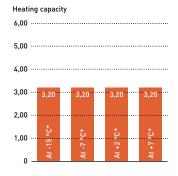
- Improved performance with COPs up to 5,33 for J Generation 3kW
- · Reduced energy consumption through our circulating pump with energy efficiency class "A"
- Remote controller functions added: Auto mode, holiday mode, power consumption display

Panasonic has designed the Aquarea All in One, Bi-bloc and Mono-bloc heat pumps for homes which have high performance requirements. Whatever the weather, Aquarea can work even at -20 °C! The Aquarea is easy to install on new or existing installations, in all types of properties.

High Performance Heat Pumps are highly efficient (KIT-ADC03JE5 for example)







Standard circulating pumps vs our circulating pump with energy efficiency class "A"

Comparison of energy consumption of circulation pumps. Circulating pump with energy efficiency class "A" with Dynamic flow control for 5 kW Mono-bloc.

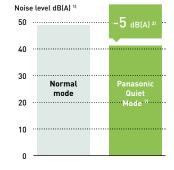
* Based on German market: Assuming Standard pump may vary depending on consumption and energy cost.



Panasonic created a night mode to reduce the noise when it's needed

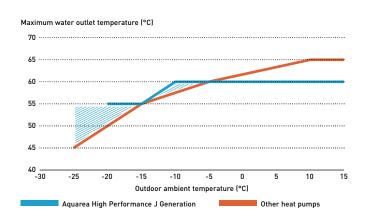
Special attention has been given to noise levels.

- Sound pressure measured at 1 m from the outdoor unit and at 1,5 m height.
 At standard condition working at heating
- 2) At standard condition working at heating capacity at +7 °C (heating water at 35 °C) for two fans outdoor units. For one fan outdoor units, night mode reduction is 3 dB(A).



High Performance J Generation keeps 60 °C water outlet temperature even at very low temperatures

Aquarea High performance J Generation is able to keep 60 °C water outlet temperature in outdoor temperatures down to -10 °C, keeping high comfort in the room even at low temperatures. With other heat pumps, water temperature dramatically drops at low outdoor temperatures, making the heat pump to work out of the design conditions and creating discomfort inside the room.





^{*} Heating water at 35 °C

Aquarea T-CAP

For retrofit and new builds, Aquarea T-CAP is the ideal solution for those installations where the output capacity is demanding.

The entire Aquarea T-CAP line-up is excellent for replacing gas or oil boilers and for connecting to new underfloor heating, radiators or fan coil units. Aquarea T-CAP can maintain the heat pump output capacity until -20 °C¹¹ outdoor temperature without the help of an electrical booster heater, offering high heating capacity even at low ambient temperatures.

1) At 35 °C flow temperature.



Aquarea T-CAP Mono-bloc J Generation R32

R32 Refrigerant: A 'small' change that changes everything.

With Mono-bloc, the refrigerant circuit is sealed inside the outdoor unit, so there is no need to worry about the amount of refrigerant per room.

65 °C1) water temperature possible.

By optimising the system and the refrigerant cycle, the unit can work under higher pressure and realise a water temperature of 65°C.

1) In case of ΔT setting with remote controller is 15 °C and outdoor ambient temperature is 5 to 20 °C, 65 °C hot water temperature is possible. Even with the T-CAP series, capacity will drop when water temperature reaches 65 °C.



How Aquarea T-CAP maintains performance even at -20 °C outdoors

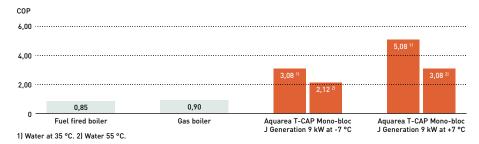
A patent has been obtained for technology that can maintain heating capacity even in low outdoor temperatures through optimal control that comes from incorporating dualpiped heat exchanger into the refrigeration cycle.



Higher efficiency compared to other heating systems

Panasonic heat pumps have a maximum COP of 5,08 at +7 °C which makes them much more efficient than others heating systems.

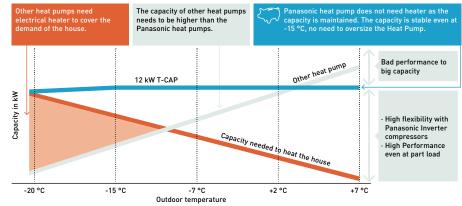
T-CAP is also able to provide extremely high efficiencies, whatever the outside or the water temperature.



No need to oversize to reach required capacity at low temperatures

With Aquarea T-CAP technology, Panasonic heat pumps can work in outdoor temperatures as low as -20 °C and maintain capacity without back-up heating at -20 °C ^{1]}. With other heat pumps, a larger capacity is required to achieve the same level of comfort at low temperatures.

1) 35 °C flow temperature.



^{* 55 °}C flow temperature. In case of 35 °C the capacity is maintained down to -20 °C.

Aquarea Super Quiet T-CAP Bi-bloc

The special outdoor chassis notably reduces operation sound by up to 15 dB.¹¹²⁾

1) When comparing WH-UQ12HE8 at quiet mode level 3 operation with WH-UX12HE8 at full load operation. 2) Heating capacity may drop.

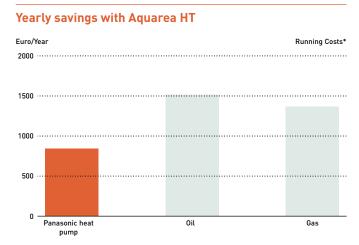
Aquarea HT

Aquarea HT can produce a flow temperature of 65 °C making it the ideal high efficiency replacement for oil/gas boilers connected to high temperature radiators.



Green energy source works with existing radiators

The Aquarea HT (9 kW and 12 kW) allows you to replace your traditional heating source (such as oil or gas) while keeping the existing old style radiators for minimum disruption to the home.



^{*} For a 170 m² house and 40 W/m² energy losses in central Europe Conditions, outside minimum conditions -10 °C.

Aquarea HT: High savings and low CO,

The benefit of replacing a traditional heating systems with Aquarea HT are clear: Reduced ${\rm CO_2}$ emissions, future proofing running costs.

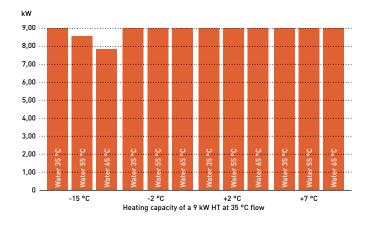
Panasonic heat pumps are much more efficient than fossil fueled boilers and help you to reach your house energy targets.

Easy installation

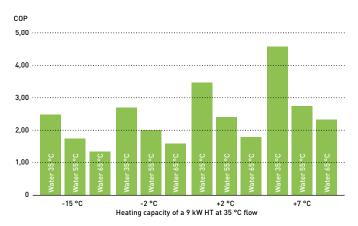
Air source heat pumps are simple to install. They do not require a chimney, gas connection or oil / lpg tank. All that is required is a power supply connection.

Panasonic Aquarea HT is highly efficient even at low outdoor temperatures

Heating Capacity of a 9 kW HT (WH-SHF09F3E5).



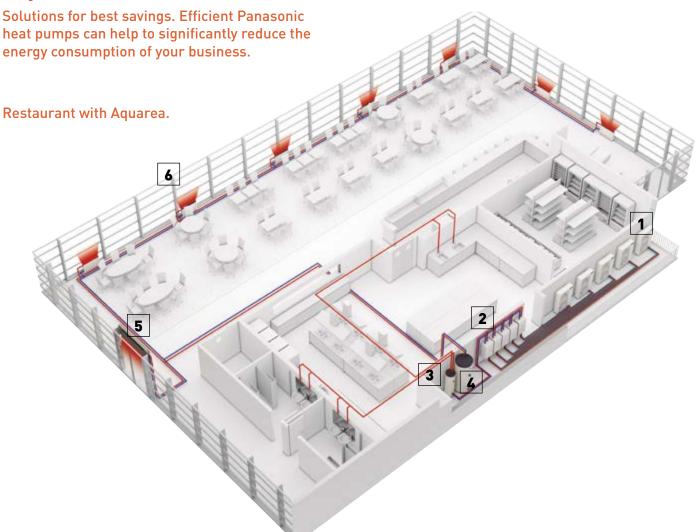
COP (Coefficient of Performance) of a 9 kW HT (WH-MHF09G3E5).



The Aquarea HT range is easy to install and is available with nominal heat outputs of 9 kW or 12 kW. These can be either single or three phase, in both Bi-bloc and Mono-bloc versions.



Aquarea commercial





Aquarea T-CAP.

16 kW heat pumps on cascade mode.

T-CAP line-up is an ideal replacement for old gas/oil boilers.

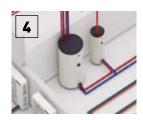


High efficiency Aquarea T-CAP hydromodule. Indoor unit of Aquarea Bi-bloc systems. When a Mono-bloc system is used, the hydromodule is integrated in the outdoor unit.



Tanks.
Combining Panasonic
Aquarea with a high
efficiency tank ensures
the desired volume of hot
water, at the correct
temperature while
reduced energy costs.

Super high efficiency



Buffer Tank.
Panasonic Aquarea can be combined with the hydraulic elements of the new or existing water system.



Coil.Water coil air curtains can be used in the hydraulic system to have efficient performance of the water system.

Air Curtain with water



Fan coils for heating and cooling.

Aquarea Heat Pumps can be easily connected to the existing water system: 2 way and 4 way fan coils, floor heating, DHW tanks...



Cascade manager.

The cascade manager enables the control of up to 10 Aquarea Heat Pumps (balancing the working hours and making the operation more efficient) and up to 2 buffer tanks.



BMS integration.

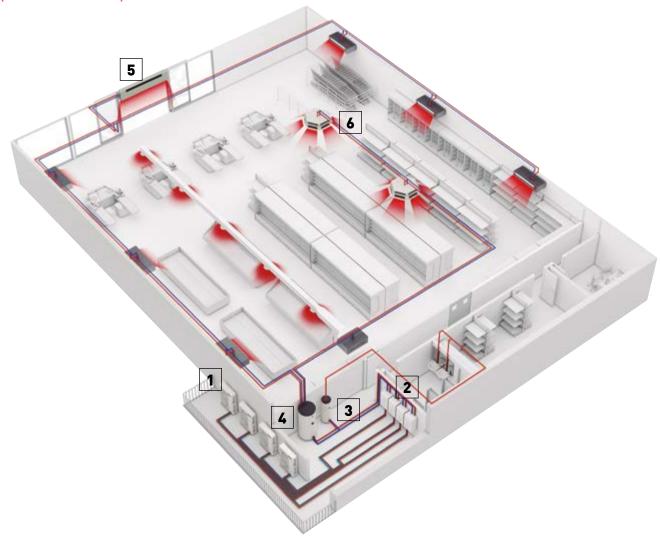
The cascade system can be easily in integrated in a Modbus project thanks to the cascade manager. Panasonic Aquarea Heat Pumps offer space saving, energy-efficient heating and can be easily adapted for installation in flats, houses and commercial premises. Businesses producing heating, cooling and big quantities of hot water at 65 °C, such as restaurants or supermarkets, installing an Aquarea Heat Pump system can also use this wasted heat to improve energy efficiency further. Heat pump technology is scalable, meaning that it can be installed in buildings of varying sizes, offering both small and large-scale heating solutions. The technology is also environmentally friendly when compared to traditional

heating systems alternatives based on fossil fuel energy and in addition it is more energy efficient.

Key points:

- · Efficient hot water production
- · Fast return of investment
- · Easy control
- Easy integration in the existing water system: fan coils, floor heating, domestic hot water tanks, etc
- · Very good part load management
- · High efficiency

Supermarket with Aquarea.





Burger & Lobster restaurant. Bath, UK.

Panasonic's air to water Aquarea system has been installed in the latest glamorous Burger & Lobster restaurant in Bath. The Octagon Chapel, a large listed building in the city centre, was converted to accommodate the restaurant, and Panasonic's Aquarea system provided an extensive, energy efficient and unobtrusive heating and cooling solution.



Carluccio's restaurant. UK.

One of UK's leading Italian restaurant, Carluccio's, wanted to install a system which would provide the desired volume of hot water, at the correct temperature while at the same time reduced energy costs. FWP installed a 12 kW Aquarea T-CAP mono bloc unit which would allow for the free air from the kitchen roof space to be transferred through condensing unit providing hot water at the optimum temperature.

Aquarea Smart Cloud for the users

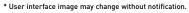
The most advanced heating control for today and for the future. Aquarea can be connected to the Cloud with the accessory CZ-TAW1, enabling both user control and remote maintenance by service partners.

WATCH DEMO























More possibilities with IFTTT.

IF This Then That: IFTTT service enables user to automatically trigger actions for Aquarea system based on other apps, web services or devices.

Connect your Aguarea to your voice assistant, get an e-mail if your Aquarea gets an error or automatically turn on your Aquarea on Heat Mode when outdoor temperature drops below specified level.

Easy and powerful energy management

The Aquarea Smart Cloud is much more than a simple thermostat for switching a heating device ON or OFF. It is a powerful and intuitive service for remotely controlling the full range of heating and hot water functions, including monitoring energy consumption.

How does it work?

After connecting an Aquarea J or H generation to the cloud by wireless LAN or by wired LAN, the user accesses the Cloud portal to remotely operate all functions of his units. He can also permit service partners to access customised functions for remote maintenance and monitoring.

Requirements

- 1. Aquarea J or H Generation
- 2. In-house internet connection with router wireless LAN or wired LAN
- 3. Get a Panasonic ID in https://aquarea-smart.panasonic.com/

Functions:

- · Visualization and Control
- Scheduling
- Energy Statistics
- · Malfunction notification

Advantages

Energy savings, comfort and control from anywhere. Increased efficiency and resources management, operating costs savings and owner satisfaction. The Aguarea Smart Cloud services are focused on enabling full remote maintenance of the Aguarea system. This allows maintenance specialists to engage in predictive maintenance and system fine-tuning, as well as fixing malfunctions when they occur.

Aquarea compatibility	J and H Generation
Connection point	CN-CNT Aquarea port
Home router connection	Wireless or Wired LAN
Temperature sensor	Can use remote controller sensor
Tablet or PC browser compatibility*	Yes
$ \begin{array}{l} {\sf Operation\ from\ remote-ON/OFF-Temperature} \\ {\sf setting\ Mode\ selection-DHW\ setting-Error\ codes} \\ {\sf -Scheduling} \end{array} $	Yes
Heating areas	Up to 2 zones
Power consumption estimation — Operation log history	Yes — Yes

^{*} Check browsers and version compatibility.

Get the most out of your Aquarea Heat Pump.

Aguarea+ offers end user useful information to operate a Panasonic Aguarea Heat Pump to provide heating, cooling and hot water in the most efficient and cost effective way.



Aquarea Service Cloud for installers or maintenance companies

WATCH DEMO



The Aquarea Service Cloud allows installers to take care of their customers' heating systems remotely. It saves time and money and shortens the response time, thus increasing the customers' satisfaction.



The real remote maintenance made simple

Advanced functions for remote maintenance with professional screens:

- · Global view at a glance
- · Error log history
- · Full unit information
- · Statistics always available
- · Most settings available

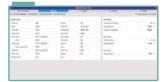
Home page.

Status of connected users at a glance. 2 view options: map view or list view.



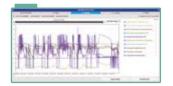
Status tab.

Current status of unit with a maximum 28 parameters.



Statistics tab.

Customisable statistics of a maximum of 71 parameters. Available anytime with the information of the last 7 days.



Settings tab.

Most of the user and installer settings can be done remotely.



Activation of the Aquarea Service Cloud

Requirements.

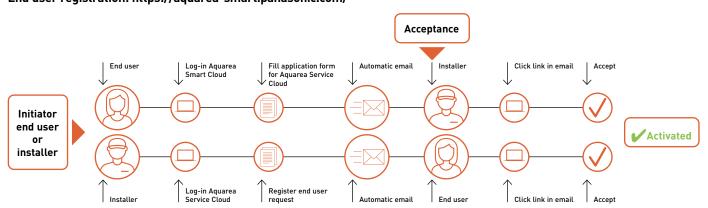
Hardware and connection	End user registration	Installer / maintenance registration
J or H Generation Aquarea connected to CZ-TAW1	Get Panasonic ID	Get Service ID
In-house internet connection with Wireless LAN or Wired LAN	Aquarea Smart Cloud	Aquarea Service Cloud

Connecting the unit to the Aquarea Service Cloud.

The process can be initiated by the end user or by the installer.

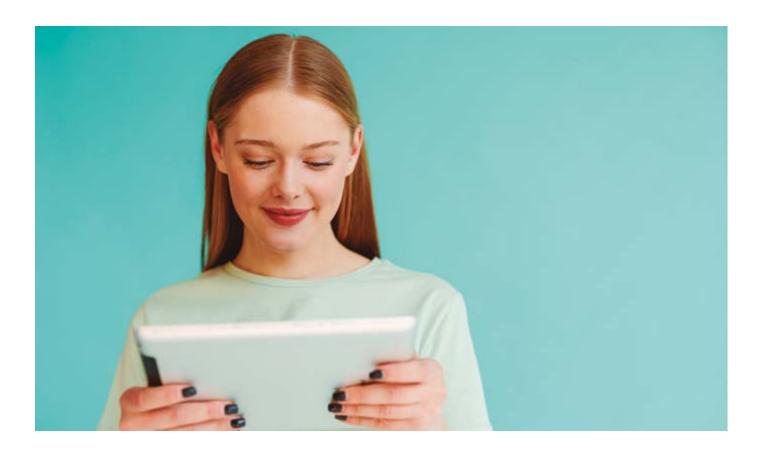
The end user can select and change the installer's level of control anytime (4 levels).

Installer registration: https://aquarea-service.panasonic.com/ End user registration: https://aquarea-smart.panasonic.com/



Control and connectivity

Home connectivity and Home Managements Systems integration is becoming more and more popular. These integrations helps to control all house devices from centralised platform and helps to optimise the operation and running costs. Panasonic interfaces are made to work with both KNX and Modbus, the most populars protocols. Also for non integrated control, Panasonic developed a simple connection to Wireless LAN, with this end user can control remotely its own heat pump from wherever.



Connectivity. Control by BMS

Great flexibility for integration into your KNX / Modbus projects allows fully bi-directional monitoring and control of all the functioning parameters.

Reference	PAW-AW-KNX-1i / PAW-AW-KNX-H	Modbus° PAW-AW-MBS-1 / PAW-AW-MBS-H
Small dimensions	v	V
Quick installation and possibility of hidden installation	v	✓
External power not required	✓	V
Direct connection to the unit	✓	✓
Control and monitoring, from sensors or gateways, of the internal variables of the indoor unit and error codes and indication	✓ Fully interoperable	
Control and monitoring, from any BMS or PLC Modbus Master, of internal variables of the indoor unit and error codes and indication		✓ Fully interoperable
Aquarea unit can be controlled simultaneously by its remote controller and by KNX / Modbus Master devices	~	V

These interfaces allows full monitoring and control, bi-directional, of most of the functioning parameters of Aquarea control from KNX / Modbus installations.

Advanced controller for J and H Generation

Improved visibility and easy operation with large full dot LCD display and large touch panel!

Remote controller can be removed from indoor unit and installed in living room.

Key Points:

Full large dot LCD screen (3,5 inch): High resolution screen with backlight, easy set up, check conditions easily, flat, innovative design, temperature sensor included in controller.

Function for installer:

- · Floor heating concrete dry mode: Allows for a slow increase in temperature of underfloor heating via software.
- Heating and Cooling Mode: Authorised PRO Partners can enable the cooling mode through a special operation via the remote controller on site
- \cdot Installer can select delta T. Water pump speed is selected automatically due to this setting

Function for End User:

- · Auto Mode: Automatically changes from heating to cooling depending on outdoor temperature.
- Energy Consumption Display: Displays the heat pump's energy consumption, split by heating, cooling and domestic hot water, showing the total consumption figure.
- · Holiday Mode: Enables the system to resume at the preset temperature after your holiday



PCB for additional functions

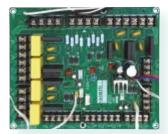
CZ-NS4P. Optional PCB for advanced functions.

The optional PCB CZ-NS4P enable advanced control functions for Aquarea Heat Pumps J and H Generation.

The optional PCB is connected to the main.

These functions are available through the connection of the optional PCB (CZ-NS4P) to the main PCB:

- · Control of 2 zones with 2 mixing valves, 2 pumps and 2 room thermostats or sensors
- · Control of swimming pool
- · 0-10 V signal for heat pump demand control
- · Buffer tank temperature sensor
- · Solar thermal control
- · External heating / cooling mode switch
- · Stop compressor by external compressor switch
- · Error output signal
- · SG ready*
- * Aquarea H and J Generation heat pumps in combination with the optional PCB CZ-NSP4 hold the SG Ready Label (Smart Grid Ready Label), given by Bundesverband Warmepumpe (German Heat Pump Association). This Label shows the real capacity of Aquarea to be connected in an intelligent grid control.





Cascade controller

PAW-A2W-CMH-1. Cascade manager.

- · Cascade up to 10 heat pumps, getting up to 160 kW
- · Manages the heat demand based on a PID logic, balancing working hours
- · Can control 3 way valves for cooling (2 buffer tanks)
- · Modbus IP for BMS communication
- · High flexibility for external demand control, though an Analog Input 0-10 V or Modbus IP
- · DHW control logic
- · Large, easy-to- use touch screen display, with information about the heat pump
- · All components in one case
- · Compatible with Aquarea Heat Pumps, J or H Generation*
- * Requires 1 PAW-AW-MBS-H per each Aquarea.



Model name	Interface
PAW-AW-KNX-H	KNX Interface for J and H Generation
PAW-AW-MBS-H	Modbus Interface for J and H Generation
PAW-AW-KNX-1i	KNX interface (not compatible with J and H Generation)
PAW-AW-MBS-1	Modbus interface (not compatible with J and H Generation)

Model name	Interface
PAW-A2W-CMH-1	Cascade controller
CZ-TAW1	Aquarea Smart Cloud, internet control through wireless or wired LAN for Aquarea J and H generation
CZ-NS4P	PCB for advanced functions in J and H Generation

How Panasonic contributes to Nearly Zero Energy Buildings (nZEB)

Our expertise gained over the years has helped to launch a range of products that contribute to a more carbon-free society.

Panasonic is committed to develop products with greater energy efficiency.

Highly efficient Panasonic solutions can help to significantly reduce the energy consumption of the house, at the same time a high level of comfort and good indoor air quality are kept.

- · Aquarea High performance heat pump for heating, cooling and domestic hot water production
- · Aquarea Smart Cloud, for energy monitoring
- · Heat recovery ventilation system
- · PV panels to produce renewable energy on-site



Aquarea Heat Pumps and the ventilation unit with heat recovery certified as Passive House Component

Aquarea High Performance All in One Compact and Bi-bloc J Generation heat pumps¹¹ and the ventilation unit with heat recovery PAW-A2W-VENTA have been certified by the Passive House Institute (PHI) as Passive House Component. This certification ensures highly energy efficient components according to international criteria for respective thermal performance, comfort and indoor air quality.

1) 3, 5 and 7 kW models.

Certified models can be checked under the certification section of https://database.passivehouse.com.









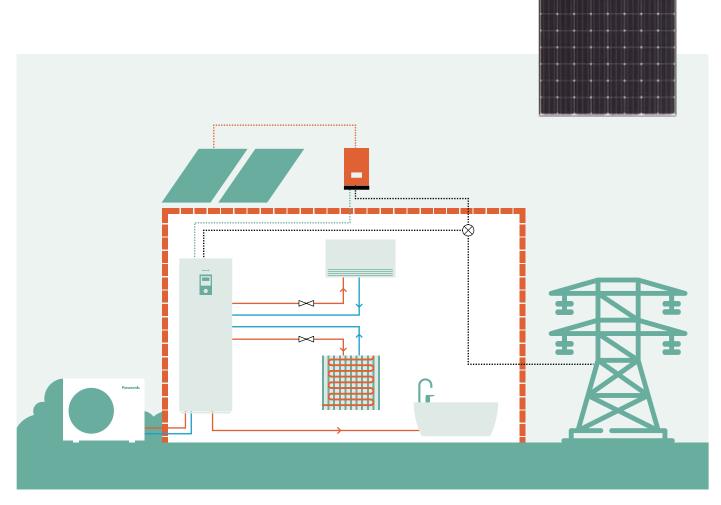
H3 Grande Passive House, Poland.

When looking for a energy-efficient heating solution, Polish construction company Procyon selected a 5 kW Panasonic Aquarea High Performance heat pump for its passive house project, H3 Grande. Procyon found this solution reduced annual heating expenses by almost half compared to an oil-based system, or by 10 % in comparison to natural gas.

H3 Grande is a 175 m² detached house certified by the Passive House Institute (PHI) in Darmstadt. It is designed to minimise energy losses while incorporating an attractive, yet simple aesthetic. The building's shape, interior design and pitched roof contribute to the energy balance of the house, while large south-facing windows and wall insulation provide passive thermal comfort by retaining heat. The building has very low heating demand of approximately 15 kW/m² and is designed to minimise energy.

Aquarea + PV panels

Aquarea Heat Pumps are designed with the future in mind. They can synchronise with PV panels with simple CZ-NS4P PCB. Thanks to this feature, demand of heating, cooling and domestic hot water production is adapted to the PV panel production.



A part of converting Aquarea in Smart Grid ready, the additional PCB allows 0-10 V control, for and advanced energy management.



Turning a family home into an energy-neutral home with Panasonic air to water.

Sinne Technyk, installer, opts for Aquarea T-CAP heat pump combined with HIT KURO photovoltaic panels for a house in Oudemirdum in Friesland, the Netherlands. With this combination, the household enjoys energyneutral and free heating, as well as domestic hot water, and benefit for a more comfortable indoor climate The house had an annual gas consumption of 1800 to 2200 cubic meters per year. "The aim was to realize an energy-neutral home and reduce the usage of gas to zero," explains Leo van der Molen of Sinne Technyk. 'That makes a heat pump an interesting option." With the comfort of the customers and neighbours in mind, a silent Aquarea T-CAP heat pump was chosen, powered by solar panels. A total of 24 Panasonic HIT KURO solar panels of 325 Wp each were installed. "The products of Panasonic are high end but offer a higher quality than other solutions. The price-quality ratio is, therefore, considerably better," says Van der Molen.

Panasonic PRO Club makes your life easier. All Aquarea Designer - online tool can be found there

Panasonic has an impressive range of support services for designers, specifiers, engineers and distributors working in air to water heat pump projects.



Energy Label

Fridges, dishwashers, washing machines, ovens – it all started with white goods in the 1990s. Today, other energy-consuming appliances also carry the European energy efficiency label, such as televisions and lighting. From 2013, the regulations applied to air conditioners and heat pumps but since September 2015, it has also been applicable to room heaters, water heaters and storage water heaters.

Minimum energy efficiency requirements are also specified for manufacturers of system and combi boilers, water heaters and DHW cylinders.

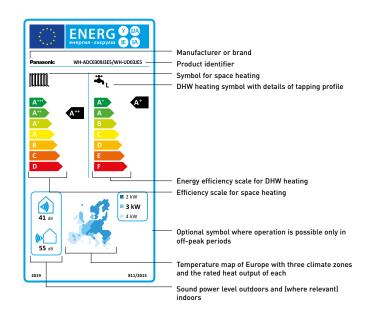
The purpose of Energy Labels are to assist consumers in their purchasing decisions, as well as ecodesign requirements on products which help reduce private energy demand and help to reduce global warming.

Panasonic helps you to calculate the system label.

From 26th September 2015, installers can be assured that all products manufactured after this date will be sold with the required energy efficiency labels which will aid installers with their paperwork. While it is the manufacturer's responsibility to issue their products with the required labels, the installers will need to calculate and issue an energy efficiency label for the entire heating system. Whether installing a new heating system or installing new boilers, controls or renewables into an existing system, it is, and will continue to be, the installer's responsibility to calculate and issue energy efficiency labels. Calculators which assist installers with this process are available on www.panasonicproclub.com.

Information on the energy efficiency label.

The rating system for heat pumps classifies them into seven efficiency categories. From 26th September 2019, the best energy efficiency category is A+++, least energy efficient is D. The energy efficiency label for system boilers shows its efficiency category on a scale from A+++ to D, and from A+ to F for hot water cylinders.



Aquarea Designer - online tool

With Panasonic's online tool, projects can be developed simply and easily. The newly developed tool is optimised to help HVAC professionals easily identify the most appropriate Aquarea air to water heat pump for a particular application.



Aquarea Designer

This program allows HVAC designers, installers and distributors to identify the correct heat pump for a particular application from Panasonic's Aquarea range, calculate the savings compared to other heat sources and very quickly calculate CO₂ emissions. Using Panasonic's Aquarea Designer, projects can be developed simply and easily, by either using the Quick Design or Expert Design options. Each allows the user to build up the project data in a simple step-by-step process and choose to output reports (project data input includes: either Quick or Large formats) as HTML files or as print-outs. To create these useful reports, project data is input, including:

- · Heated area
- · Heating requirement
- · Heating flow and return temperatures
- Climate data (from a simple drop-down menu) including outdoor temperature
- · Type of hot water tank, storage capacity and hot water target temperature

Aquarea Designer also means saving

Aquarea Designer will calculate the project's energy costs in terms of hot water, heating and pumping. It will show the equipment running times and calculate the COP (coefficient of performance). It then allows the designer to show clients a comparison with other equipment options such as heating by conventional gas-fired boilers, oil systems, wood, standard electric heating and electric night storage heaters. This compares running costs, initial investment costs and maintenance costs. The comparison can also be made for CO_2 emissions and savings.



Residential ventilation selection tool.

The tool contains all the information the HVAC professionals need for their residential ventilation projects (specifications, technical manuals, etc.) as well as a calculator of the performance curves.

Heating demand calculator

This software can quickly and easily determine the heating requirements for the rooms in a project. The Heating demand calculator will help determine approximately how much power is needed to heat each room individually. The result in kilowatts will help you choose the space heater best suited to your needs.

CAD images and spec texts

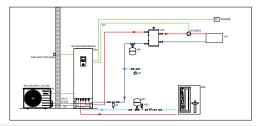
In order to add value in the design of projects, Panasonic has a wide library of 2D CAD, BIM objects (Building Information Modeling) and Spec texts to be used in Revit.

All the support tools are available in Panasonic PRO Club (www.panasonicproclub.com).

Among many others, these are the main tools for the design of Aquarea projects.

Hydraulic scheme generator

This tool allows costumers to select the scheme between more than 110 different type according to their installation requirements in a simple way. It possible to download hydraulic and electric part in pdf and in cad file. Moreover it is available a list, one for each scheme type, with the Panasonic codes and third party codes that the costumers need to realize the installation in a proper way.



Panasonic helps you to calculate the system label www.panasonicproclub.com or connect simply with your smartphone to the PRO Club using this QR.

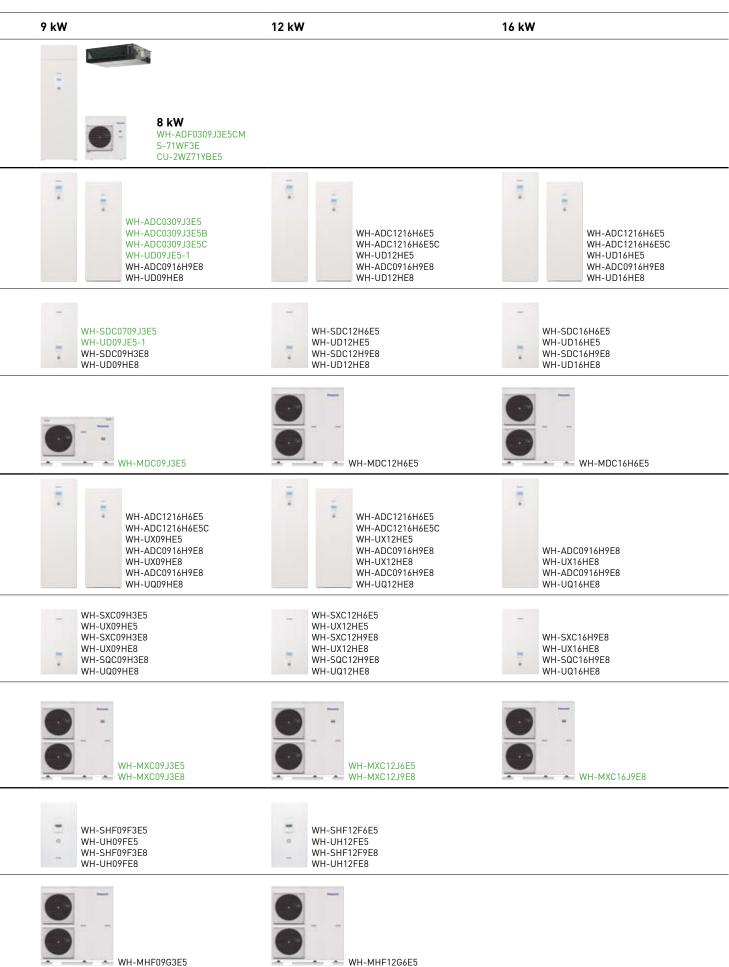
PRO Club



Aquarea Heat Pump range

		3 kW		5 kW		7 kW	
Aquarea EcoFleX							
	1 Phase						
P. 51							
Aquarea High Performance	All in One 1 Phase 3 Phase	Ī.				Ē	E *
P. 52, 53 , 54, 55	♦ ♦ ♦ ♦		WH-ADC0309J3E5 WH-ADC0309J3E5B WH-ADC0309J3E5C WH-UD03JE5		WH-ADC0309J3E5 WH-ADC0309J3E5B WH-ADC0309J3E5C WH-UD05JE5		WH-ADC0309J3E5 WH-ADC0309J3E5B WH-ADC0309J3E5C WH-UD07JE5
P. 56, 57	Bi-bloc 1 Phase 3 Phase	WH-SDC	0205 1275	- WILL CO	DC0305J3E5	-	WH-SDC0709J3E5
	♦ ♦ ♦	WH-UD0			D05JE5		WH-UD07JE5
P. 58, 59	Mono-bloc 1 Phase			0			
					WH-MDC05J3E5		WH-MDC07J3E5
Aquarea T-CAP	All in One 1 Phase 3 Phase						
P. 60, 61, 62							
P. 63, 64	Bi-bloc 1 Phase 3 Phase						
	♦ ♦ ♦						
P. 65	Mono-bloc 1 Phase 3 Phase						
	♦ ♦ ♦						
Aquarea HT	Bi-bloc 1 Phase 3 Phase						
P. 66	ᅠ						
P. 67	Mono-bloc 1 Phase						
r. 0/	₩ 🚳						





Aquarea, top-level efficiency across the board

Aguarea J Generation: much more than Aguarea in R32. Available in 3/5/7/9 kW All in One / Bi-bloc and 5/7/9/12/16 kW Mono-bloc.





Keeping Aquarea essence

- · A+++ in heating mode at 35 °C (scale from A+++ to D)
- · Optional Aquarea Smart and Service Cloud

Higher efficiency

- SCOP up to + 5 % vs H Generation
- · DHW COP up to 3,30 (for 3 kW All in One and 5 kW models)

More flexibility in design

- Mono-bloc)
- temperature
- * With a 5 % decrease of the capacity.

Smart functions

- \cdot SG ready for heating, cooling and DHW modes
- · Utility remote bivalent control: By dry contacts*
- · Stop external device when defrost by Dry contact (for fan coil fan stop)*
- * Can not be used at same time.

- 60 °C water temperature (up to 65 °C in T-CAP
- · Piping length between indoor and outdoor units improved: 7/9 kW: 50/30 m (up to 40 m without minimum floor area*) - 3/5 kW: 25/20 m
- · Chiller function: cooling down to 10 °C outdoor

More comfort

- · Better comfort in extreme low temperature: Heating curve can be set up down to -20 °C
- · Efficient or comfort mode for DHW: Part load for better efficiency or full load to reduce the heat up
- · DHW two sensor position selectable for All in One: Efficient position (best DHW COP) or bigger volume of hot water

Other improvements: More silent outdoor units / Magnet filter for water cycle.

Aquarea H Generation.

The beauty of comfort. The H Generation is available from 3 to 16 kW. The small capacities are specially designed for low energy homes and achieve an impressive COP of 5 (on the 3 kW).

Better efficiency and value A++ / A+++.

- · A++ for medium temperature applications (radiators. ErP 55 °C in the scale from A+++ to D)
- · A+++ for low temperature applications (floor heating. ErP 35 °C in the scale from A+++ to D)

Aquarea, a generation of energy efficient heating and hot water.

Thanks to the system's high degree of technology and advanced control, it is able to maintain a high output capacity and efficiency even at -7 °C and -15 °C. The Aquarea's software can be set for the requirements of low consumption homes in order to maximise energy efficiency. Whatever the weather, Aquarea can work even at -28 °C (for T-CAP All in One and Bi-bloc) lower limit. The compact design of the outdoor unit makes installation very easy.





2022





(A++) [[[]



NEW Aquarea EcoFleX. Single phase. Heating and

Energy efficiency: Heat recovery function, to re-use wasted heat of outdoor unit for DHW production.

Flexibility: Small foot print outdoor unit, tank unit with a standard size of appliances.

Comfort: Non-stop heating operation / nanoe™ X technology to improve protection 24/7 (nanoe X Generator Mark 2).

Connectivity: Wi-Fi adapters included for instant connectivity via Aquarea Smart Cloud or Panasonic Comfort Cloud App.

				WH-ADF0309J3E5CM
	Heating capacity / COP (A +7	°C, W 35 °C)	kW / COP	8,00/4,21
	Heating capacity / COP (A +7		kW / COP	8,00/2,81
	Heating capacity / COP (A +2	°C, W 35 °C)	kW / COP	6,70/3,25
	Heating capacity / COP (A +2	°C, W 55 °C)	kW / COP	6,00/2,08
	Heating capacity / COP (A -7		kW / COP	5,60/2,84
	Heating capacity / COP (A -7	°C, W 55 °C)	kW / COP	5,30/1,91
	Cooling capacity / EER (A 35		kW / EER	<u> </u>
	Cooling capacity / EER (A 35		kW / EER	_
	Heating average climate	Seasonal energy efficiency	SCOP (ŋ,¸ %)	4,00/3,20(157/125)
	(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A++/A++
	Heating warm climate	Seasonal energy efficiency	SCOP (n, %)	5,69/3,69(224/145)
	(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A+++/A++
	Heating cold climate	Seasonal energy efficiency	SCOP (n, %)	3.61/2.80(141/109)
	(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A+/A+
r to water	Sound pressure	Heat / Cool	dB(A)	28/—
	Dimension / Net weight	HxWxD	mm / kg	1880×598×600/108
	Capacity of integrated electri		kW	3,00
	Water volume	c neater	L	
	Maximum DHW temperature		°C	65
			L/min	
	Heating water flow (ΔT=5 K.:		L/IIIII	22,90 L
	Tapping profile according EN		Λ. το Γ	
	DHW tank ERP efficiency ave		A+ to F	A/A+/A
	DHW tank ERP average clima		ηwh%/COPdhw	104/2,60
	DHW tank ERP warm climate		ηwh%/COPdhw	134/3,35
	DHW tank ERP cold climate		ηwh %/COPdhw	92/2,30
	Heat recovery capacity (DHW		kW	7,10+9,00
	Heat recovery input power (C		kW	3,15
	Heat recovery COP (DHW 55	°C)		5,11
	Water outlet		°C	20~55
	Ozalia a zanazitu	Manain at	kW	S-71WF3E
	Cooling capacity EER 3]	Nominal Nominal	W/W	7,10 3,40
	SEER 4)	Nominat	VV/ VV	5,60 A+
				7,10
	Pdesign (cooling)	Naminal	1.347	•
	Heating capacity	Nominal	kW	7,10
	COP 3)	Nominal	W/W	3,90
r to air	SCOP 4)			3,90 A
	Pdesign at -10 °C		kW	4,80
	External static pressure 5]		Pa	30(10 - 150)
	Air flow		m³/min	22,7
	Sound pressure 6	Cool / Heat (Hi)	dB(A)	34/34
	Sound power 7]	Cool / Heat (Hi)	dB(A)	57/57
	Dimension / Net weight	HxWxD	mm / kg	250 x 1000 x 730/30
	nanoe X Generator			Mark 2
		0 1/11 1/11 1/1	10(4)	CU-2WZ71YBE5
	Sound pressure	Cool / Heat (air to air)	dB(A)	49/49
	Sound power 7)	Cool / Heat (air to air)	dB(A)	68/67
	Sound pressure	Heat (air to water)	dB(A)	51
	Sound power 8)	Heat (air to water)	dB(A)	61
	Dimension / Net weight	HxWxD	mm / kg	999 x 940 x 340/82
tdoor unit	Refrigerant (R32) / CO ₂ Eq.		kg / T	2,40/1,62
Lavor unit	Piping diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)
	Pipe length range / Elevation	difference (in / out)	m / m	35/30
	Pipe length for additional gas	s / Additional gas amount	m / g/m	30/20
		Heat (air to air)	°C	-15~+24
	Operating range - outdoor	Cool (air to air)	°C	-10~+46
	ambient	Heat (air to water)	°C	-15~+35

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) EER and COP calculation is based in accordance to EN14511. 4) SEER and SCOP is calculated based on values of EU/626/2011. 5) Medium external static pressure setting from factory. 6) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 7) Sound power is measured in accordance with EN14511 and EN12102-1:2017 at +7 °C. 8) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C.





























Aquarea High Performance All in One J Generation Single phase. Heating and Cooling 1 or 2 zones · R32

Energy efficiency: COP up to 5,33 / A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-VacuaTM insulation panel / Built-in flow meter.

Flexibility: Long piping lengths / Built-in magnetic water filter.

Comfort: Heating curve down to -20 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

				Single phase (P	ower to indoor)	
Kit 1 zone (for 2 zone add E	3 at the end)		KIT-ADC03JE5	KIT-ADC05JE5	KIT-ADC07JE5	KIT-ADC09JE5-1
Heating capacity / COP (A +	7 °C, W 35 °C)	kW / COP	3,20/5,33	5,00/5,00	7,00/4,76	9,00/4,48
Heating capacity / COP (A +	7 °C, W 55 °C)	kW/COP	3,20/2,81	5,00/2,72	7,00/2,82	8,95/2,78
Heating capacity / COP (A +	2 °C, W 35 °C)	kW/COP	3,20/3,64	4,20/3,18	6,85/3,41	7,00/3,40
Heating capacity / COP (A +	2 °C, W 55 °C)	kW/COP	3,20/2,19	4,10/1,99	6,20/2,21	6,30/2,16
Heating capacity / COP (A -	7 °C, W 35 °C)	kW/COP	3,30/2,80	4,20/2,59	5,60/2,87	6,12/2,78
Heating capacity / COP (A -	7 °C, W 55 °C)	kW/COP	3,20/1,79	3,55/1,71	5,25/1,94	5,90/1,93
Cooling capacity / EER (A 3	5 °C, W 7 °C)	kW / EER	3,20/3,52	4,50/3,00	6,70/3,03	8,20/2,72
Cooling capacity / EER (A 3	5 °C, W 18 °C)	kW / EER	3,20/4,71	4,80/4,29	6,70/4,72	9,00/4,18
	6 1 ""	ηs %	200/136	200/136	193/130	193/130
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	5,07/3,47	5,07/3,47	4,90/3,32	4,90/3,32
(W 35 °C / W 35 °C)	Energy class 1)	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++
		ηs %	245/165	245/165	227/160	227/160
Heating warm climate	Seasonal energy efficiency	SCOP	6,20/4,20	6,20/4,20	5,75/4,07	5,75/4,07
(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
		ηs %	157/110	157/110	164/116	164/116
Heating cold climate	Seasonal energy efficiency	SCOP	4,00/2,83	4,00/2,83	4,18/2,98	4,18/2,98
(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A++/A+	A++/A+	A++/A+	A++/A+
Indoor unit 1 zone hydrokit		A to B	WH-ADC0309J3E5	WH-ADC0309J3E5	WH-ADC0309J3E5	WH-ADC0309J3E5
Indoor unit 2 zones built-ir			WH-ADC0309J3E5B	WH-ADC0309J3E5B	WH-ADC0309J3E5B	WH-ADC0309J3E5B
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	28/28	28/28
Dimension	HxWxD	mm	1800 x 598 x 717	1800 x 598 x 717	1800×598×717	1800 x 598 x 717
Net weight 1 zone / 2 zones		kg	122/130	122/130	122/130	122/130
Water pipe connector	·	Inch	R 11/4	R11/4	R11/4	R 11/4
Tracer pipe comicetor	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed
A class pump	Input power (Min/Max)	W	30/120	30/120	30/120	30/120
Heating water flow (ΔT=5 K		L/min	9,20	14,30	20,10	25,80
Capacity of integrated elect		kW	3,00	3,00	3,00	3,00
Recommended fuse	The fledici	A	16/16	16/16	25/16	25/16
Recommended cable size, s	supply 1 / 2	mm²	3x1,5/3x1,5	3x1,5/3x1,5	3x2,5/3x1,5	3x2,5/3x1,5
Water volume	supply 1 / 2		185	185	185	185
Maximum DHW temperatur		°C	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according E	N14147		L	L	L	L
DHW tank ERP efficiency av		A+ to F	A+/A+/A	A+/A+/A	A+/A+/A	A+/A+/A
DHW tank ERP average clin		ŋwh %/COPdHW	132/3,30	132/3,30	120/3,00	120/3,00
DHW tank ERP warm clima		ηwh %/COPdHW	155/3,88	155/3,88	140/3,50	140/3,50
DHW tank ERP cold climate		nwh %/COPdHW	99/2,48	99/2,48	99/2,47	99/2,47
Outdoor unit	e II / COPUNIV	IJWII 767 COFURIV	WH-UD03JE5	WH-UD05JE5	WH-UD07JE5	WH-UD09JE5-1
Sound power 3]	Heat	dB(A)	WH-UDU3JE3 55	55	59	WH-UD07JE5-1 59
Dimension / Net weight	HxWxD	mm / kg	622 x 824 x 298/37	622 x 824 x 298/37	795×875×320/61	795×875×320/61
	1174470	kg / T	0,9/0,608	0,9/0,608	1,27/0,857	1,27/0,857
Refrigerant (R32) / CO ₂ Eq. Piping diameter	Liquid / Gas	Inch (mm)		1/4(6,35)/1/2(12,70)	1/4 (6,35) / 5/8 (15,88)	
1 3			1/4 (6,35) / 1/2 (12,70)			1/4(6,35)/5/8(15,88)
Pipe length range / Elevation		m / m	3~25/20	3~25/20	3~50/30	3~50/30
Pipe length for additional g		m / g/m	10/20	10/20	10/25	10/25
Operating range - outdoor	Heat	°C	-20~+35	-20~+35	-20~+35	-20~+35
ambient	Cool	°C	+10~+43	+10~+43	+10~+43	+10~+43
Water outlet	Heat / Cool	°C	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
Z-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat







































Aquarea High Performance All in One H Generation Single phase / Three phase. Heating and Cooling · R410A

Energy efficiency: A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua $^{\text{TM}}$ insulation panel / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Operating range down to -20 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

	Single phase (Power to indoor)		ower to indoor)	Three phase (Power to indoor)			
Kit			KIT-ADC12HE5	KIT-ADC16HE5	KIT-ADC09HE8	KIT-ADC12HE8	KIT-ADC16HE8
Heating capacity / COP (A +	7 °C, W 35 °C)	kW / COP	12,00/4,74	16,00/4,28	9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP (A +	7 °C, W 55 °C)	kW / COP	12,00/2,93	14,50/2,72	9,00/2,94	12,00/2,93	14,50/2,72
Heating capacity / COP (A +	2 °C, W 35 °C)	kW/COP	11,40/3,44	13,00/3,28	9,00/3,59	11,40/3,44	13,00/3,28
Heating capacity / COP (A +	2 °C, W 55 °C)	kW / COP	9,10/2,23	9,80/2,21	8,80/2,23	9,10/2,23	9,80/2,21
Heating capacity / COP (A -	7 °C, W 35 °C)	kW / COP	10,00/2,73	11,40/2,57	9,00/2,85	10,00/2,73	11,40/2,57
Heating capacity / COP (A -	7 °C, W 55 °C)	kW / COP	8,20/1,95	9,00/1,85	7,90/2,05	8,20/1,95	9,00/1,85
Cooling capacity / EER (A 35	5 °C, W 7 °C)	kW / EER	10,00/2,81	12,20/2,56	7,00/3,17	10,00/2,85	12,20/2,56
Cooling capacity / EER (A 35	5 °C, W 18 °C)	kW / EER	10,00/4,17	12,20/4,12	7,00/4,67	10,00/4,26	12,20/4,12
	C	ηs %	190/134	190/130	190/133	190/134	190/130
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,82/3,42	4,82/3,33	4,81/3,41	4,82/3,42	4,82/3,33
(W 33 C / W 33 C)	Energy class 1)	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
	C 1 "":	ηs %	245/159	245/169	245/159	245/159	245/169
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	6,21/4,05	6,21/4,30	6,21/4,05	6,21/4,05	6,20/4,30
(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
		ηs %	168/121	168/121	168/121	168/121	168/121
Heating cold climate	Seasonal energy efficiency	SCOP	4,29/3,10	4,28/3,10	4,28/3,10	4,29/3,10	4,28/3,10
(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
Indoor unit			WH-ADC1216H6E5	WH-ADC1216H6E5	WH-ADC0916H9E8	WH-ADC0916H9E8	WH-ADC0916H9E8
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33	33/33
Dimension	HxWxD	mm	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717
Net weight		kg	124	124	126	126	126
Water pipe connector		Inch	R 11/4	R11/4	R 11/4	R 11/4	R 11/4
	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
A class pump	Input power (Min/Max)	W	36/152	36/152	36/152	36/152	36/152
Heating water flow (ΔT=5 K.		L/min	34,4	45,9	25,8	34,4	45,9
Capacity of integrated elect		kW	6,00	6,00	9,00	9,00	9,00
Recommended fuse		A	30/30	30/30	16/16	16/16	16/16
Recommended cable size, s	supply 1 / 2	mm²	3x4,0/3x4,0	3x4,0/3x4,0	5x1,5/5x1,5	5x1,5/5x1,5	5x1,5/5x1,5
Water volume		L	185	185	185	185	185
Maximum DHW temperatur	e	°C	65	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according El	N16147		L	L	L	L	L
DHW tank ERP efficiency av		A+ to F	A/A/A	A/A/B	A/A/A	A/A/A	A/A/B
DHW tank ERP average clim	nate n / COPdHW	ŋwh %/COPdHW	95/2,37	91/2,28	95/2,37	95/2,37	91/2,27
DHW tank ERP warm clima	te η / COPdHW	ŋwh %/COPdHW	110/2,75	107/2,67	110/2,75	110/2,75	107/2,67
DHW tank ERP cold climate	n / COPdHW	ηwh %/COPdHW	75/1,87	72/1,80	75/1,87	75/1,87	72/1,80
Outdoor unit	'·		WH-UD12HE5	WH-UD16HE5	WH-UD09HE8	WH-UD12HE8	WH-UD16HE8
Sound power 3)	Heat	dB(A)	65	65	65	65	65
Dimension / Net weight	HxWxD	mm / kg	1340×900×320/101	1340x900x320/101	1340×900×320/107	1340×900×320/107	1340x900x320/107
Refrigerant (R410A) / CO, E		kg / T	2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)		3/8(9,52)/5/8(15,88)
Pipe length range / Elevatio		m/m	3~50/30	3~50/30	3~30/20	3~30/20	3~30/20
Pipe length for additional ga		m / g/m	10/50	10/50	10/50	10/50	10/50
Operating range - outdoor	Heat	°C	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35
ambient	Cool	°C	+16~+43	+16~+43	+16~+43	+16~+43	+16~+43
Water outlet	Heat / Cool	°C	20~55/5~20	20~55/5~20	20~55/5~20	20~55/5~20	20~55/5~20
		-	,	,			,

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

































Aquarea High Performance All in One Compact J Generation Single phase. Heating and Cooling · R32

Energy efficiency: COP up to 5,33 / A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / Built-in flow meter.

Flexibility: 598 x 600 footprint / Long piping lengths / Built-in magnetic water filter.

Comfort: Heating curve down to -20 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

				Single phase (P	ower to indoor)	
Kit			KIT-ADC03JE5C	KIT-ADC05JE5C	KIT-ADC07JE5C	KIT-ADC09JE5C-1
Heating capacity / COP (A +	7 °C, W 35 °C)	kW / COP	3,20/5,33	5,00/5,00	7,00/4,76	9,00/4,48
Heating capacity / COP (A +	7 °C, W 55 °C)	kW / COP	3,20/2,81	5,00/2,72	7,00/2,82	8,95/2,78
Heating capacity / COP (A +	2 °C, W 35 °C)	kW / COP	3,20/3,64	4,20/3,18	6,85/3,41	7,00/3,40
Heating capacity / COP (A +	2 °C, W 55 °C)	kW / COP	3,20/2,19	4,10/1,99	6,20/2,21	6,30/2,16
Heating capacity / COP (A -	7 °C, W 35 °C)	kW / COP	3,30/2,80	4,20/2,59	5,60/2,87	6,12/2,78
Heating capacity / COP (A -	7 °C, W 55 °C)	kW / COP	3,20/1,79	3,55/1,71	5,25/1,94	5,90/1,93
Cooling capacity / EER (A 3	5 °C, W 7 °C)	kW / EER	3,20/3,52	4,50/3,00	6,70/3,03	8,20/2,72
Cooling capacity / EER (A 3	5 °C, W 18 °C)	kW / EER	3,20/4,71	4,80/4,29	6,70/4,72	9,00/4,18
	· · · · · · · · · · · · · · · · · · ·	ηs %	200/136	200/136	193/130	193/130
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	5,07/3,47	5,07/3,47	4,90/3,32	4,90/3,32
(W 35 -C / W 55 -C)	Energy class 1)	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++
	0 1 ":	ηs %	245/165	245/165	227/160	227/160
Heating warm climate	Seasonal energy efficiency	SCOP	6,20/4,20	6,20/4,20	5,75/4,07	5,75/4,07
(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
		ηs %	157/110	157/110	164/116	164/116
Heating cold climate	Seasonal energy efficiency	SCOP	4,00/2,83	4,00/2,83	4,18/2,98	4,18/2,98
(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A++/A+	A++/A+	A++/A+	A++/A+
Indoor unit			WH-ADC0309J3E5C	WH-ADC0309J3E5C	WH-ADC0309J3E5C	WH-ADC0309J3E5C
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	28/28	28/28
Dimension	HxWxD	mm	1640 x 598 x 600			
Net weight	11711715	kg	101	101	101	101
Water pipe connector		Inch	R 11/4	R 11/4	R11/4	R11/4
vider pipe connector	Number of speeds	men	Variable Speed	Variable Speed	Variable Speed	Variable Speed
A class pump	Input power (Min/Max)	W	30/120	30/120	30/120	30/120
Heating water flow (ΔT=5 K		L/min	9,20	14,30	20,10	25,80
Capacity of integrated elect		kW	3,00	3,00	3,00	3,00
Recommended fuse	The Heater	A	16/16	16/16	25/16	25/16
Recommended cable size, s	supply 1 / 2	mm²	3x1,5/3x1,5	3x1,5/3x1,5	3x2,5/3x1,5	3x2,5/3x1,5
Water volume	supply 1 / 2		185	185	185	185
Maximum DHW temperatur	<u> </u>	°C	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according E	N16167		Januess steet	James steet	James steet	Janitess steet
DHW tank ERP efficiency av		A+ to F	A+/A+/A	A+/A+/A	A+/A+/A	A+/A+/A
DHW tank ERP average clir		nwh %/COPdHW	128/3,20	128/3,20	116/2,90	116/2,90
DHW tank ERP warm clima		nwh %/COPdHW	154/3,86	154/3,86	134/3,35	134/3,35
DHW tank ERP cold climate		nwh %/COPdHW	99/2,48	99/2,48	98/2,45	98/2,45
Outdoor unit	5.17 501 uniti	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	WH-UD03JE5	WH-UD05JE5	WH-UD07JE5	WH-UD09JE5-1
Sound power 3]	Heat	dB(A)	55	55	59	59
Dimension / Net weight	HxWxD	mm / kg	622 x 824 x 298/37	622 x 824 x 298/37	795×875×320/61	795 x 875 x 320 / 61
Refrigerant (R32) / CO ₂ Eq.	1171170	kg / T	0,9/0,608	0,9/0,608	1,27/0,857	1,27/0,857
Piping diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/5/8(15,88)	1/4(6,35)/5/8(15,88)
Pipe length range / Elevation		m/m	3~25/20	3~25/20	3~50/30	3~50/30
Pipe length for additional q		m / g/m	10/20	10/20	10/25	10/25
	Heat	°C	-20~+35	-20~+35	-20~+35	-20~+35
Operating range - outdoor ambient	Cool	°C	+10~+43	+10~+43	+10~+43	+10~+43
Water outlet	Heat / Cool	°C	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20
vvater buttet	neat / Coot	· ·	20~00/3~20	20~00/3~20	20~00/3~20	20~00/0~20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat









































A++ 📗



Aquarea High Performance All in One Compact H Generation Single phase. Heating and Cooling · R410A

Energy efficiency: A+++ in heating at 35 °C and A in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-VacuaTM insulation panel / Built-in flow meter.

Flexibility: 598 x 600 footprint / Built-in magnetic water filter.

Comfort: Operating range down to -20 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase (Power to indoor)			
Kit			KIT-ADC12HE5C	KIT-ADC16HE5C		
Heating capacity / COP (A +	-7 °C, W 35 °C)	kW / COP	12,00/4,74	16,00/4,28		
Heating capacity / COP (A +	-7 °C, W 55 °C)	kW / COP	-/-	-/-		
Heating capacity / COP (A +	-2 °C, W 35 °C)	kW / COP	11,40/3,44	13,00/3,28		
Heating capacity / COP (A +	-2 °C, W 55 °C)	kW / COP	-/-	-/-		
Heating capacity / COP (A -	7 °C, W 35 °C)	kW / COP	-/-	-/-		
Heating capacity / COP (A -	7 °C, W 55 °C)	kW / COP	-/-	-/-		
Cooling capacity / EER (A 3	5 °C, W 7 °C)	kW / EER	10,00/2,81	12,20/2,56		
Cooling capacity / EER (A 3	5 °C, W 18 °C)	kW / EER	-/-	-/-		
	Concornal onormy officionary	ηs %	190/134	190/130		
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,82/3,42	4,82/3,33		
(W 33 C / W 33 C)	Energy class 1)	A+++ to D	A+++/A++	A+++/A++		
1 2 2	Concornal onorgy officionay	ηs %	245/159	245/169		
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	6,21/4,05	6,20/4,30		
., 50 0 / 11 55 0)	Energy class 1)	A+++ to D	A+++/A+++	A+++/A+++		
	Concornal onormy officiency	ηs %	168/121	168/121		
Heating cold climate W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP SCOP	4,29/3,10	4,28/3,10		
W 33 0 / W 33 0	Energy class 1)	A+++ to D	A++/A+	A++/A+		
ndoor unit			WH-ADC1216H6E5C	WH-ADC1216H6E5C		
Sound pressure	Heat / Cool	dB(A)	33/33	33/33		
Dimension	HxWxD	mm	1640 x 598 x 600	1640 x 598 x 600		
Net weight		kg	101	101		
Water pipe connector		Inch	R11/4	R 11/4		
A class pump	Number of speeds		Variable Speed	Variable Speed		
- ctass purity	Input power (Min/Max)	W	-/-	-/-		
Heating water flow (∆T=5 K	35 °C)	L/min	34,40	45,90		
Capacity of integrated elect	tric heater	kW	6,00	6,00		
Recommended fuse		A	-/-	-/-		
Recommended cable size,	supply 1 / 2	mm²	-/-	-/-		
Water volume		L	185	185		
Maximum DHW temperatu	re	°C	65	65		
Material inside tank			Stainless steel	Stainless steel		
apping profile according E	N16147		-			
DHW tank ERP efficiency a	verage / warm / cold ^{2]}	A+ to F	-/-/-	-/-/-		
DHW tank ERP average clir	mate η / COPdHW	ηwh %/COPdHW	92/2,30	88/2,20		
OHW tank ERP warm clima	ite η / COPdHW	ηwh%/COPdHW	107/2,67	104/2,59		
DHW tank ERP cold climate	e η / COPdHW	ηwh%/COPdHW	72/1,81	70/1,74		
Outdoor unit			WH-UD12HE5	WH-UD16HE5		
ound power 3)	Heat	dB(A)	65	65		
Dimension / Net weight	HxWxD	mm / kg	1340×900×320/101	1340 x 900 x 320 / 101		
Refrigerant (R410A) / CO ₂ E	ēq.	kg / T	2,55/5,324	2,55/5,324		
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8 (9,52) / 5/8 (15,88)		
Pipe length range / Elevation	on difference (in / out)	m/m	3~50/30	3~50/30		
Pipe length for additional g	as / Additional gas amount	m / g/m	10/50	10/50		
Operating range - outdoor	Heat	°C	-20~+35	-20~+35		
ambient	Cool	°C	+16~+43	+16~+43		

1) Scale from A++++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

















































Aquarea High Performance Bi-bloc J Generation Single phase. Heating and Cooling - SDC · R32

Energy efficiency: COP up to 5,33 / A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Long piping lengths / Built-in magnetic water filter.

Comfort: Operating range and heating curve down to -20 $^{\circ}\text{C}$ / 60 $^{\circ}\text{C}$ water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

				Single phase (P	ower to indoor)	
Kit			KIT-WC03J3E5	KIT-WC05J3E5	KIT-WC07J3E5	KIT-WC09J3E5
Heating capacity / COP (A +7	7 °C, W 35 °C)	kW/COP	3,20/5,33	5,00/5,00	7,00/4,76	9,00/4,48
Heating capacity / COP (A +7	7 °C, W 55 °C)	kW/COP	3,20/2,81	5,00/2,72	7,00/2,82	8,95/2,78
Heating capacity / COP (A +2	2 °C, W 35 °C)	kW/COP	3,20/3,64	4,20/3,18	6,85/3,41	7,00/3,40
Heating capacity / COP (A +2	2 °C, W 55 °C)	kW / COP	3,20/2,19	4,10/1,99	6,20/2,21	6,30/2,16
Heating capacity / COP (A -7	7 °C, W 35 °C)	kW/COP	3,30/2,80	4,20/2,59	5,60/2,87	6,12/2,78
Heating capacity / COP (A -7	7 °C, W 55 °C)	kW / COP	3,20/1,79	3,55/1,71	5,25/1,94	5,90/1,93
Cooling capacity / EER (A 35	5 °C, W 7 °C)	kW / EER	3,20/3,52	4,50/3,00	6,70/3,03	8,20/2,72
Cooling capacity / EER (A 35	5 °C, W 18 °C)	kW / EER	3,20/4,71	4,80/4,29	6,70/4,72	9,00/4,18
	0 1 ":	ηs %	200/136	200/136	193/130	193/130
Heating average climate	Seasonal energy efficiency	SCOP	5,07/3,47	5,07/3,47	4,90/3,32	4,90/3,32
(W 35 °C / W 55 °C)	Energy class	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++
	0 / / //	ηs %	245/165	245/165	227/160	227/160
Heating warm climate	Seasonal energy efficiency	SCOP	6,20/4,20	6,20/4,20	5,75/4,07	5,75/4,07
(W 35 °C / W 55 °C)	Energy class	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
		ηs %	157/110	157/110	164/116	164/116
Heating cold climate	Seasonal energy efficiency	SCOP	4,00/2,83	4,00/2,83	4,18/2,98	4,18/2,98
(W 35 °C / W 55 °C)	Energy class	A+++ to D	A++/A+	A++/A+	A++/A+	A++/A+
Indoor unit			WH-SDC0305J3E5	WH-SDC0305J3E5	WH-SDC0709J3E5	WH-SDC0709J3E5
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	30/30	30/31
Dimension	HxWxD	mm	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340
Net weight		kg	42	42	42	42
Water pipe connector		Inch	R 11/4	R 11/4	R 11/4	R 11/4
	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed
A class pump	Input power (Min/Max)	W	30/100	33/106	34/114	40/120
Heating water flow (ΔT=5 K.	35 °C)	L/min	9,2	14,3	20,1	25,8
Capacity of integrated electi	ric heater	kW	3,00	3,00	3,00	3,00
Recommended fuse		Α	15/30	15/30	15/30	15/30
Recommended cable size, s	upply 1 / 2	mm²	3x1,5/3x1,5	3x1,5/3x1,5	3x2,5/3x1,5	3x2,5/3x1,5
Outdoor unit	,		WH-UD03JE5	WH-UD05JE5	WH-UD07JE5	WH-UD09JE5-1
Sound power 1)	Heat	dB(A)	55	55	59	59
Dimension	HxWxD	mm	622 x 824 x 298	622 x 824 x 298	795 x 875 x 320	795 x 875 x 320
Net weight		kg	37	37	61	61
Refrigerant (R32) / CO, Eq.		kg / T	0,9/0,608	0,9/0,608	1,27/0,857	1,27/0,857
Piping diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4 (6,35) / 5/8 (15,88)	1/4(6,35)/5/8(15,88
Pipe length range		m	3~25	3~25	3~50	3~50
Elevation difference (in / out	i)	m	20	20	30	30
Pipe length for additional ga	as	m	10	10	10	10
Additional gas amount		g/m	20	20	25	25
Operating range - outdoor	Heat	°C	-20~+35	-20~+35	-20~+35	-20~+35
ambient	Cool	°C	+10~+43	+10~+43	+10~+43	+10~+43
Water outlet Heat / Cool		°C	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20

¹⁾ Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

Accessories		
PAW-TD20C1E5	Tank 200 L - Stainless steel	
PAW-TD30C1E5	Tank 300 L - Stainless steel	
PAW-TA20C1E5STD	Tank 200 L - Enamelled	
PAW-TA30C1E5STD	Tank 300 L - Enamelled	
PAW-3WYVLV-HW	3 way valve for DHW Tanks	
CZ-NV1	3 way valve kit for inside of hydrokit	
PAW-BTANK50L-2	Buffer tank 50 L	

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat







































Aquarea High Performance Bi-bloc H Generation Single phase / Three phase. Heating and Cooling - SDC · R410A Energy efficiency: A+++ in heating at 35 °C / "A" water pump with

Flexibility: Optional magnet for the water filter.

Comfort: Operating range down to -20 °C.

variable speed / Built-in flow meter.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single	phase	Thre	e phase (Power to in	door)
Kit			KIT-WC12H6E5	KIT-WC16H6E5	KIT-WC09H3E8	KIT-WC12H9E8	KIT-WC16H9E8
Heating capacity / COP (A +	7 °C, W 35 °C)	kW / COP	12,00/4,74	16,00/4,28	9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP (A +	7 °C, W 55 °C)	kW / COP	12,00/2,93	14,50/2,72	9,00/2,94	12,00/2,93	14,50/2,72
Heating capacity / COP (A +	2 °C, W 35 °C)	kW / COP	11,40/3,44	13,00/3,28	9,00/3,59	11,40/3,44	13,00/3,28
Heating capacity / COP (A +	2 °C, W 55 °C)	kW / COP	9,10/2,23	9,80/2,21	8,80/2,23	9,10/2,23	9,80/2,21
Heating capacity / COP (A -	7 °C, W 35 °C)	kW / COP	10,00/2,73	11,40/2,57	9,00/2,85	10,00/2,73	11,40/2,57
Heating capacity / COP (A -	7 °C, W 55 °C)	kW / COP	8,20/1,95	9,00/1,85	7,90/2,05	8,20/1,95	9,00/1,85
Cooling capacity / EER (A 3	5 °C, W 7 °C)	kW / EER	10,00/2,81	12,20/2,56	7,00/3,17	10,00/2,85	12,20/2,56
Cooling capacity / EER (A 3	5 °C, W 18 °C)	kW / EER	10,00/4,17	12,20/4,12	7,00/4,67	10,00/4,26	12,20/4,12
	C	ηs %	190/134	190/130	190/133	190/134	190/130
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,82/3,42	4,82/3,33	4,81/3,41	4,82/3,42	4,82/3,33
(W 33 C / W 33 C)	Energy class	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
	6 1 ""	ηs %	245/159	245/169	245/159	245/159	245/169
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP SCOP	6,21/4,05	6,21/4,30	6,21/4,05	6,21/4,05	6,20/4,30
(W 33 C / W 33 C)	Energy class	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
	C 1 (f)	ηs %	168/121	168/121	168/121	168/121	168/121
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP SCOP	4,29/3,10	4,28/3,10	4,28/3,10	4,29/3,10	4,28/3,10
(W 33 C / W 33 C)	Energy class	A+++ to D	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
Indoor unit			WH-SDC12H6E5	WH-SDC16H6E5	WH-SDC09H3E8	WH-SDC12H9E8	WH-SDC16H9E8
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33	33/33
Dimension	HxWxD	mm	892 x 500 x 340				
Net weight		kg	43	44	43	44	45
Water pipe connector		Inch	R 11/4	R 11/4	R11/4	R11/4	R 11/4
A -1	Number of speeds		Variable Speed				
A class pump	Input power (Min/Max)	W	34/110	30/105	32/102	34/110	30/105
Heating water flow (ΔT=5 K	. 35 °C)	L/min	34,4	45,9	25,8	34,4	45,9
Capacity of integrated elect	ric heater	kW	6,00	6,00	3,00	9,00	9,00
Recommended fuse		A	30/30	30/30	15/30	15/30	15/30
Recommended cable size,	supply 1 / 2	mm²	3x4,0or6,0/3x4,0	3x4,0or6,0/3x4,0	5x1,5/5x1,5	5x1,5/5x1,5	5x1,5/5x1,5
Outdoor unit			WH-UD12HE5	WH-UD16HE5	WH-UD09HE8	WH-UD12HE8	WH-UD16HE8
Sound power 1)	Heat	dB(A)	65	65	65	65	65
Dimension	HxWxD	mm	1340 x 900 x 320				
Net weight		kg	101	101	107	107	107
Refrigerant (R410A) / CO ₂ E	q.	kg / T	2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range		m	3~50	3~50	3~30	3~30	3~30
Elevation difference (in / ou	t)	m	30	30	20	20	20
Pipe length for additional g	as	m	10	10	10	10	10
Additional gas amount		g/m	50	50	50	50	50
Operating range - outdoor	Heat	°C	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35
ambient	Cool	°C	+16~+43	+16~+43	+16~+43	+16~+43	+16~+43
Water outlet	Heat / Cool	°C	20~55/5~20	20~55/5~20	20~55/5~20	20~55/5~20	20~55/5~20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

Accessories		
PAW-TD20C1E5	Tank 200 L - Stainless steel	
PAW-TD30C1E5	Tank 300 L - Stainless steel	
PAW-TA20C1E5STD	Tank 200 L - Enamelled	
PAW-TA30C1E5STD	Tank 300 L - Enamelled	
PAW-3WYVLV-HW	3 way valve for DHW Tanks	
CZ-NV1	3 way valve kit for inside of hydrokit	
PAW-BTANK50L-2	Buffer tank 50 L	

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

































Aquarea High Performance Mono-bloc J Generation Single phase. Heating and Cooling - MDC · R32

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Built-in magnetic water filter / Built-in 6L expansion vessel

<code>Comfort:</code> Operating range and heating curve down to -20 °C / 60 °C water outlet temperature / Cooling mode down to +10 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

 $\begin{tabular}{ll} \textbf{Connectivity:} & \textbf{Optional Aquarea Smart and Service Cloud and integration into BMS projects.} \end{tabular}$

				Single phase	
Outdoor unit			WH-MDC05J3E5	WH-MDC07J3E5	WH-MDC09J3E5
Heating capacity / COP (A +7	7 °C, W 35 °C)	kW / COP	5,00/5,08	7,00/4,76	9,00/4,48
Heating capacity / COP (A +7	7 °C, W 55 °C)	kW / COP	5,00/3,01	7,00/2,82	8,95/2,78
Heating capacity / COP (A +2	2 °C, W 35 °C)	kW / COP	5,00/3,57	7,00/3,40	7,45/3,13
Heating capacity / COP (A +2	2 °C, W 55 °C)	kW / COP	5,00/2,27	6,30/2,16	7,00/2,12
Heating capacity / COP (A -7	7 °C, W 35 °C)	kW / COP	5,00/2,78	6,80/2,81	7,50/2,63
Heating capacity / COP (A -7	7 °C, W 55 °C)	kW / COP	5,00/1,85	6,30/1,86	7,00/1,80
Cooling capacity / EER (A 35	s °C, W 7 °C)	kW / EER	5,00/3,31	7,00/3,06	9,00/2,71
Cooling capacity / EER (A 35	5 °C, W 18 °C)	kW / EER	5,00/5,05	7,00/4,73	9,00/4,25
	C	ηs %	202/142	193/130	193/130
Heating average climate W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	5,12/3,63	4,90/3,32	4,90/3,32
VV 33 C / VV 33 C)	Energy class	A+++ to D	A+++/A++	A+++/A++	A+++/A++
	Concernal an array officiar	ηs %	237/165	227/160	227/160
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	6,00/4,20	5,75/4,07	5,75/4,07
** 55 6 / ** 55 6 j	Energy class	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
	C	ηs %	160/115	164/116	164/116
Heating cold climate W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,08/2,95	4,18/2,98	4,18/2,98
W 55 6 / W 55 6 j	Energy class	A+++ to D	A++/A+	A++/A+	A++/A+
Sound power 1)	Heat	dB(A)	59	59	59
Dimension	HxWxD	mm	865 x 1283 x 320	865 x 1283 x 320	865 x 1283 x 320
Net weight		kg	99	104	104
Refrigerant (R32) / CO ₂ Eq. ²	1	kg / T	1,3/0,878	1,3/0,878	1,3/0,878
Vater pipe connector		Inch	R 11/4	R11/4	R 11/4
)	Number of speeds		Variable Speed	Variable Speed	Variable Speed
oump	Input power (Min/Max)	W	34/96	36/100	39/108
Heating water flow (∆T=5 K.	35 °C)	L/min	14,3	20,1	25,8
Capacity of integrated electr	ric heater	kW	3,00	3,00	3,00
nput power	Heat	kW	0,985	1,47	2,01
iiput powei	Cool	kW	1,51	2,29	3,32
Running and starting	Heat	Α	4,7	7,0	9,3
current	Cool	Α	7,0	10,5	14,7
Current 1		Α	12	17	17
Current 2		Α	13	13	13
Recommended fuse		Α	30/15	30/15	30/16
Recommended cable size, s	upply 1 / 2	mm²	3x1,5/3x1,5	3x2,5/3x1,5	3x2,5/3x1,5
Operating range - outdoor	Heat	°C	-20~35	-20~35	-20~35
ambient	Cool	°C	+10~+43	+10~+43	+10~+43
Matan autlat	Heat	°C	20~60	20~60	20~60
Water outlet	Cool	°C	5~20	5~20	5~20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. 2) WH-MDC models are hermetically sealed. * EER and COP calculation is based in accordance to EN14511.

Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185 L + 80 L – Enamelled
PAW-TD23B6E5	Combo Tank 230 L + 60 L – Stainless Steel
PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50 L

Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
10 m extension cable for CZ-TAW1
1 anti-freeze valve. It is required to order 2 valves per system
Room thermostat
Wireless LCD room thermostat





































Aquarea High Performance Mono-bloc H Generation Single phase. Heating and Cooling - MDC · R410A

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

<code>Comfort:</code> Operating range and heating curve down to -20 $^{\circ}\text{C}$ / 55 $^{\circ}\text{C}$ water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single	e phase
Outdoor unit			WH-MDC12H6E5	WH-MDC16H6E5
Heating capacity / COP (A +7	7 °C, W 35 °C)	kW / COP	12,00/4,74	16,00/4,28
Heating capacity / COP (A +	7 °C, W 55 °C)	kW/COP	12,00/2,93	14,50/2,72
Heating capacity / COP (A +2	2 °C, W 35 °C)	kW / COP	11,40/3,44	13,00/3,28
Heating capacity / COP (A +2	2 °C, W 55 °C)	kW/COP	9,10/2,23	9,80/2,21
Heating capacity / COP (A -7	7 °C, W 35 °C)	kW / COP	10,00/2,73	11,40/2,57
Heating capacity / COP (A -7	7 °C, W 55 °C)	kW/COP	8,20/1,95	9,00/1,84
Cooling capacity / EER (A 35	5 °C, W 7 °C)	kW / EER	10,00/2,81	12,20/2,56
Cooling capacity / EER (A 35	5 °C, W 18 °C)	kW / EER	9,39/4,65	11,40/4,10
	Casanal anamy officianay	ηs %	190/134	190/130
Heating average climate W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,82/3,42	4,82/3,33
W 33 C / W 33 C)	Energy class	A+++ to D	A+++/A++	A+++/A++
	Cananal anamy officiar	ηs %	245/159	245/169
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	6,20/4,05	6,20/4,30
W 33 C / W 33 C)	Energy class	A+++ to D	A+++/A+++	A+++/A+++
	C 1 "":	ηs %	168/121	168/121
Heating cold climate W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,28/3,10	4,28/3,10
W 33 C / W 33 C)	Energy class	A+++ to D	A++/A+	A++/A+
Sound power 1)	Heat	dB(A)	65	65
Dimension	HxWxD	mm	1410 x 1283 x 320	1410 x 1283 x 320
Net weight		kg	140	140
Refrigerant (R410A) / CO ₂ Ed	q. ²⁾	kg / T	2,10/4,385	2,10/4,385
Water pipe connector		Inch	R11/4	R 11/4
Pump	Number of speeds		Variable Speed	Variable Speed
-ump	Input power (Min/Max)	W	34/110	38/120
Heating water flow (∆T=5 K.	35 °C)	L/min	34,4	45,9
Capacity of integrated electr	ric heater	kW	6,00	6,00
nnut nower	Heat	kW	2,53	3,74
nput power	Cool	kW	3,56	4,76
Running and starting	Heat	Α	11,7	16,9
current	Cool	Α	16,2	21,5
Current 1		Α	24,0	26,0
Current 2		Α	26,0	26,0
Recommended fuse		Α	30/30	30/30
Recommended cable size, s	upply 1 / 2	mm²	3x4,0or6,0/3x4,0	3x4,0or6,0/3x4,0
Operating range - outdoor	Heat	°C	-20~+35	-20~+35
ambient	Cool	°C	+16~+43	+16~+43
Water outlet	Heat	°C	25~55	25~55
water outlet	Cool	°C	5~20	5~20

¹⁾ Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. 2) WH-MDC models are hermetically sealed. * EER and COP calculation is based in accordance to EN14511.

Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185 L + 80 L – Enamelled
PAW-TD23B6E5	Combo Tank 230 L + 60 L – Stainless Steel
PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50 L

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-AFVLV	1 anti-freeze valve. It is required to order 2 valves per system
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



































(A++) [[[]



Aquarea T-CAP All in One H Generation Single phase / Three phase. Heating and Cooling · R410A

Energy efficiency: A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

<code>Comfort:</code> Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase (P	ower to indoor)	Thre	e phase (Power to in	door)
Kit			KIT-AXC09HE5	KIT-AXC12HE5	KIT-AXC09HE8	KIT-AXC12HE8	KIT-AXC16HE8
Heating capacity / COP (A +	-7 °C, W 35 °C)	kW / COP	9,00/4,84	12,00/4,74	9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP (A +	-7 °C, W 55 °C)	kW/COP	9,00/2,94	12,00/2,88	9,00/2,94	12,00/2,88	16,00/2,71
Heating capacity / COP (A +	-2 °C, W 35 °C)	kW/COP	9,00/3,59	12,00/3,44	9,00/3,59	12,00/3,44	16,00/3,10
Heating capacity / COP (A +	-2 °C, W 55 °C)	kW/COP	9,00/2,21	12,00/2,19	9,00/2,21	12,00/2,19	16,00/2,13
Heating capacity / COP (A -	7 °C, W 35 °C)	kW/COP	9,00/2,85	12,00/2,72	9,00/2,85	12,00/2,72	16,00/2,49
Heating capacity / COP (A -	7 °C, W 55 °C)	kW/COP	9,00/2,02	12,00/1,92	9,00/2,02	12,00/1,92	16,00/1,86
Cooling capacity / EER (A 3	5 °C, W 7 °C)	kW / EER	7,00/3,17	10,00/2,81	7,00/3,17	10,00/2,81	12,20/2,57
Cooling capacity / EER (A 3	5 °C, W 18 °C)	kW / EER	7,00/5,19	10,00/5,13	7,00/5,19	10,00/5,13	12,20/3,49
	6 1 ""	ηs %	181/130	170/130	181/130	170/130	160/125
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,59/3,32	4,32/3,32	4,59/3,32	4,32/3,32	4,08/3,20
(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A+++/A++	A++/A++	A+++/A++	A++/A++	A++/A++
	C 1 "":	ηs %	235/158	231/158	235/158	231/158	231/159
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	5,95/4,02	5,86/4,02	5,95/4,02	5,86/4,02	5,86/4,05
(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
		ηs %	160/125	160/125	160/125	160/125	150/125
Heating cold climate	Seasonal energy efficiency	SCOP	4,08/3,20	4,08/3,20	4,08/3,20	4,08/3,20	3,83/3,20
(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Indoor unit		· · · · · · · · · · · · · · · · · · ·		WH-ADC1216H6E5			· · · · · · · · · · · · · · · · · · ·
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33	33/33
Dimension	HxWxD	mm	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717
Net weight	1177775	kg	124	124	126	126	126
Water pipe connector		Inch	R11/4	R11/4	R 11/4	R 11/4	R 11/4
Tracer pipe commector	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
A class pump	Input power (Min/Max)	W	36/152	36/152	36/152	36/152	36/152
Heating water flow (ΔT=5 K		L/min	25,8	34,4	25,8	34,4	45,9
Capacity of integrated elec		kW	6,00	6,00	9,00	9.00	9,00
Recommended fuse	The fleater	A	30/30	30/30	16/16	16/16	16/16
Recommended cable size,	sunnly 1 / 2	mm²	3x4,0/3x4,0	3x4,0/3x4,0	5x1,5/5x1,5	5x1,5/5x1,5	5x1,5/5x1,5
Water volume	supply 1 / 2	L	185	185	185	185	185
Maximum DHW temperatu		°C	65	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according E	N16167		I	L	L	L	Jamiess steet
DHW tank ERP efficiency a		A+ to F	A/A/A	A/A/A	A/A/A	A/A/A	A/A/B
DHW tank ERP average cli		nwh %/COPdHW	95/2,37	95/2,37	95/2,37	95/2,37	91/2,27
DHW tank ERP warm clima	· · · · · · · · · · · · · · · · · · ·	nwh %/COPdHW	110/2,75	110/2,75	110/2,75	110/2,75	107/2,67
DHW tank ERP cold climate	.	nwh %/COPdHW	75/1,87	75/1,87	75/1,87	75/1,87	72/1,80
Outdoor unit	e ij / oor uriii	111111111111111111111111111111111111111	WH-UX09HE5	WH-UX12HE5	WH-UX09HE8	WH-UX12HE8	WH-UX16HE8
Sound power 3	Heat	dB(A)	66	66	65	65	67
Dimension / Net weight	HxWxD	mm / kg	1340×900×320/101	1340×900×320/101	1340×900×320/108	1340×900×320/108	1340×900×320/118
Refrigerant (R410A) / CO ₂ E		kg / T	2,85/5,951	2,85/5,951	2,85/5,951	2,85/5,951	2,90/6,055
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)		3/8(9,52)/5/8(15,88)		3/8(9,52)/5/8(15,88
Pipe length range / Elevation		m/m	3~30/20	3~30/20	3~30/20	3~30/20	3~30/20
Pipe length for additional g		m / g/m	10/50	10/50	10/50	10/50	10/50
	Heat	°C	-28~+35	-28~+35	-28~+35	-28~+35	-28~+35
Operating range - outdoor ambient		°C	+16~+43	+16~+43	+16~+43	+16~+43	+16~+43
	Cool	°C					
Water outlet	Heat / Cool	· U	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat







































(A++) [[[]



Aquarea T-CAP All in One H Generation Three phase. Super Quiet outdoor unit. Heating and Cooling · R410A

Energy efficiency: A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua $^{\text{TM}}$ insulation panel / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

<code>Comfort:</code> Low noise level / Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

				Three phase (Power to indoor)	
Kit			KIT-AQC09HE8	KIT-AQC12HE8	KIT-AQC16HE8
Heating capacity / COP (A +	-7 °C, W 35 °C)	kW / COP	9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP (A +	-7 °C, W 55 °C)	kW / COP	9,00/2,94	12,00/2,88	16,00/2,71
Heating capacity / COP (A +	-2 °C, W 35 °C)	kW / COP	9,00/3,59	12,00/3,44	16,00/3,10
Heating capacity / COP (A +	-2 °C, W 55 °C)	kW / COP	9,00/2,21	12,00/2,19	16,00/2,13
Heating capacity / COP (A -	7 °C, W 35 °C)	kW / COP	9,00/2,85	12,00/2,72	16,00/2,49
Heating capacity / COP (A -	7 °C, W 55 °C)	kW / COP	9,00/2,02	12,00/1,92	16,00/1,86
Cooling capacity / EER (A 3	5 °C, W 7 °C)	kW / EER	7,00/3,17	10,00/2,81	12,20/2,57
Cooling capacity / EER (A 3	5 °C, W 18 °C)	kW / EER	7,00/5,19	10,00/5,13	12,20/3,49
	C	ηs %	181/130	170/130	160/125
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,59/3,32	4,32/3,32	4,08/3,20
W 33 C / W 33 C)	Energy class 1)	A+++ to D	A+++/A++	A++/A++	A++/A++
	C 1 "":	ηs %	235/158	231/158	231/159
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	5,95/4,02	5,86/4,02	5,86/4,05
VV 33 C / VV 33 -C)	Energy class 1)	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
		ηs %	160/125	160/125	150/125
Heating cold climate	Seasonal energy efficiency	SCOP	4,08/3,20	4,08/3,20	3,83/3,20
(W 35 °C / W 55 °C)	Energy class 1)	A+++ to D	A++/A++	A++/A++	A++/A++
Indoor unit			WH-ADC0916H9E8	WH-ADC0916H9E8	WH-ADC0916H9E8
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	HxWxD	mm	1800 x 598 x 717	1800×598×717	1800 x 598 x 717
Net weight		kg	126	126	126
Water pipe connector		Inch	R 11/4	R 11/4	R 11/4
	Number of speeds		Variable Speed	Variable Speed	Variable Speed
A class pump Input power [Min/Max]		W	36/152	36/152	36/152
Heating water flow (ΔT=5 K		L/min	25,8	34,4	45,9
Capacity of integrated elect		kW	9,00	9,00	9.00
Recommended fuse		A	16/16	16/16	16/16
Recommended cable size, supply 1 / 2		mm²	5x1,5/5x1,5	5x1,5/5x1,5	5x1,5/5x1,5
Water volume		L	185	185	185
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according E	N16167		L	L	L
DHW tank ERP efficiency a		A+ to F	A/A/A	A/A/A	A/A/B
DHW tank ERP average clir		nwh %/COPdHW	95/2,37	95/2,37	91/2,27
DHW tank ERP warm clima		ηwh %/COPdHW	110/2,75	110/2,75	107/2,67
DHW tank ERP cold climate	·	ηwh %/COPdHW	75/1,87	75/1,87	72/1,80
Outdoor unit	e ij / oor univ	11111 707 001 01111	WH-UQ09HE8	WH-UQ12HE8	WH-UQ16HE8
Sound power 3)	Heat	dB(A)	58	58	62
Dimension / Net weight	HxWxD	mm / kg	1410 x 1283 x 320 / 151	1410 x 1283 x 320 / 151	1410 x 1283 x 320/161
Refrigerant (R410A) / CO, E		kg / T	2,85/5,951	2,85/5,951	2,99/6,243
Piping diameter Liquid / Gas		Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8(9,52)/5/8(15,88)	3/8 (9,52) / 5/8 (15,88)
		m/m	3~30/20	3~30/20	3/8(7,32)/3/8(13,88)
Pipe length range / Elevation difference (in / out)		m / g/m	10/50	10/50	10/50
Pine length for additional a	Pipe length for additional gas / Additional gas amount				-28~+35
	Haat	°C	-28 ~ r-3E		
Pipe length for additional g Operating range - outdoor ambient	Heat Cool	°C	-28~+35 +16~+43	-28~+35 +16~+43	+16~+43

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat







































Aquarea T-CAP All in One Compact H Generation Single phase. Heating and Cooling • R410A

Energy efficiency: A+++ in heating at 35 °C and A in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-VacuaTM insulation panel / Built-in flow meter.

Flexibility: 598 x 600 footprint / Built-in magnetic water filter.

<code>Comfort:</code> Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase (Power to indoor)
Kit			KIT-AXC09HE5C	KIT-AXC12HE5C
Heating capacity / COP (A +	-7 °C, W 35 °C)	kW / COP	9,00/4,84	12,00/4,74
Heating capacity / COP (A +	-7 °C, W 55 °C)	kW / COP	-/-	-/-
Heating capacity / COP (A +	-2 °C, W 35 °C)	kW / COP	9,00/3,59	12,00/3,44
Heating capacity / COP (A +	-2 °C, W 55 °C)	kW / COP	-/-	-/-
Heating capacity / COP (A -	7 °C, W 35 °C)	kW / COP	-/-	-/-
Heating capacity / COP (A -	7 °C, W 55 °C)	kW / COP	-/-	-/-
Cooling capacity / EER (A 3	5 °C, W 7 °C)	kW / EER	7,00/3,17	10,00/2,81
Cooling capacity / EER (A 3	5 °C, W 18 °C)	kW / EER	-/-	-/-
	Concernal anamy officianay	ηs %	181/130	170/130
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,59/3,32	4,32/3,32
(W 33 C / W 33 C)	Energy class 1)	A+++ to D	A+++/A++	A++/A++
	C	ηs %	235/158	231/158
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	5,95/4,02	5,86/4,02
(VV 33 C / VV 33 C)	Energy class 11	A+++ to D	A+++/A+++	A+++/A+++
	C	ηs %	160/125	160/125
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,08/3,20	4,08/3,20
(W 33 C / W 33 C)	Energy class 1)	A+++ to D	A++/A++	A++/A++
Indoor unit			WH-ADC1216H6E5C	WH-ADC1216H6E5C
Sound pressure	Heat / Cool	dB(A)	33/33	33/33
Dimension	HxWxD	mm	1640 x 598 x 600	1640 x 598 x 600
Net weight		kg	101	101
Water pipe connector		Inch	R 11/4	R 11/4
	Number of speeds		Variable Speed	Variable Speed
A class pump	Input power (Min/Max)	W	-/-	-/-
Heating water flow (ΔT=5 K	35 °C)	L/min	25,80	34,40
Capacity of integrated elect		kW	6,00	6,00
Recommended fuse		A	-/-	-/-
Recommended cable size,	supply 1 / 2	mm²	-/-	-/-
Water volume		L	185	185
Maximum DHW temperatur	re	°C	65	65
Material inside tank			Stainless steel	Stainless steel
Tapping profile according E	N16147		_	_
DHW tank ERP efficiency a	verage / warm / cold ^{2]}	A+ to F	-/-/-	-/-/-
DHW tank ERP average clir		ηwh %/COPdHW	92/2,30	92/2,30
DHW tank ERP warm clima	ate η / COPdHW	ηwh %/COPdHW	107/2,67	107/2,67
DHW tank ERP cold climate	n / COPdHW	ηwh %/COPdHW	72/1,81	72/1,81
Outdoor unit			WH-UX09HE5	WH-UX12HE5
Sound power 3]	Heat	dB(A)	66	66
Dimension / Net weight	HxWxD	mm / kg	1340×900×320/101	1340 x 900 x 320 / 101
Refrigerant (R410A) / CO, Eq.		kg / T	2,85/5,951	2,85/5,951
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range / Elevation difference (in / out)		m/m	3~30/20	3~30/20
Pipe length for additional g		m / g/m	10/50	10/50
Operating range - outdoor	Heat	°C	-28~+35	-28~+35
ambient	Cool	°C	+16~+43	+16~+43
Water outlet	Heat / Cool	°C	20~60/5~20	20~60/5~20
			20 00,0 20	20 00,0 20

1) Scale from A++++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat







































Aquarea T-CAP Bi-bloc H Generation Single phase / Three phase. Heating and Cooling - SXC · R410A

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase (Power to indoor)		Three phase (Power to indoor)		
Kit			KIT-WXC09H3E5	KIT-WXC12H6E5	KIT-WXC09H3E8	KIT-WXC12H9E8	KIT-WXC16H9E8
Heating capacity / COP (A +	7 °C, W 35 °C)	kW / COP	9,00/4,84	12,00/4,74	9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP (A +	7 °C, W 55 °C)	kW / COP	9,00/2,94	12,00/2,88	9,00/2,94	12,00/2,88	16,00/2,71
Heating capacity / COP (A +	2 °C, W 35 °C)	kW / COP	9,00/3,59	12,00/3,44	9,00/3,59	12,00/3,44	16,00/3,10
Heating capacity / COP (A +	2 °C, W 55 °C)	kW / COP	9,00/2,21	12,00/2,19	9,00/2,21	12,00/2,19	16,00/2,13
Heating capacity / COP (A -	7 °C, W 35 °C)	kW / COP	9,00/2,85	12,00/2,72	9,00/2,85	12,00/2,72	16,00/2,49
Heating capacity / COP (A -	7 °C, W 55 °C)	kW / COP	9,00/2,02	12,00/1,92	9,00/2,02	12,00/1,92	16,00/1,86
Cooling capacity / EER (A 3	5 °C, W 7 °C)	kW / EER	7,00/3,17	10,00/2,81	7,00/3,17	10,00/2,81	12,20/2,57
Cooling capacity / EER (A 3	5 °C, W 18 °C)	kW / EER	7,00/5,19	10,00/5,13	7,00/5,19	10,00/5,13	12,20/3,49
		ηs %	181/130	170/130	181/130	170/130	160/125
Heating average climate	Seasonal energy efficiency	SCOP	4,59/3,32	4,32/3,32	4,59/3,32	4,32/3,32	4,08/3,20
(W 35 °C / W 55 °C)	Energy class	A+++ to D	A+++/A++	A++/A++	A+++/A++	A++/A++	A++/A++
		ηs %	235/158	231/158	235/158	231/158	231/159
Heating warm climate	Seasonal energy efficiency	SCOP	5,95/4,02	5,86/4,02	5,95/4,02	5,86/4,02	5,86/4,05
(W 35 °C / W 55 °C)	Energy class	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
		ηs %	160/125	160/125	160/125	160/125	150/125
Heating cold climate	Seasonal energy efficiency	SCOP	4,08/3,20	4,08/3,20	4,08/3,20	4,08/3,20	3,83/3,20
(W 35 °C / W 55 °C)	Energy class	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Indoor unit			WH-SXC09H3E5	WH-SXC12H6E5	WH-SXC09H3E8	WH-SXC12H9E8	WH-SXC16H9E8
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33	33/33
Dimension	HxWxD	mm	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340
Net weight		kg	43	43	43	44	45
Water pipe connector		Inch	R 11/4	R 11/4	R 11/4	R11/4	R 11/4
Trater pipe cominector	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
A class pump	Input power (Min/Max)	W	32/102	34/110	32/102	34/110	30/105
Heating water flow (ΔT=5 K		L/min	25,8	34,4	25,8	34,4	45,9
Capacity of integrated elect		kW	3,00	6,00	3,00	9,00	9,00
Recommended fuse	TIC HEATER	A	30/30	30/30	16/16	16/16	16/16
Recommended cable size, s	supply 1 / 2	mm²		3x4,0or6,0/3x4,0	5x1,5/3x1,5	5x1,5/5x1,5	5x1,5/5x1,5
Outdoor unit	supply 1 / 2		WH-UX09HE5	WH-UX12HE5	WH-UX09HE8	WH-UX12HE8	WH-UX16HE8
Sound power 1)	Heat	dB(A)	66	66	65	65	67
Dimension	HxWxD	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Net weight	1171175	kg	101	101	108	108	118
Refrigerant (R410A) / CO ₂ E	ď	kg / T	2,85/5,951	2,85/5,951	2,85/5,951	2,85/5,951	2,90/6,055
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)		3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range	Liquid / Od5	m	3~30	3~30	3~30	3~30	3~30
Elevation difference (in / ou	+)	m	20	20	20	20	20
Pipe length for additional gr	•	m	10	10	10	10	10
Additional gas amount		g/m	50	50	50	50	50
	Heat	°C	-28~+35	-28~+35	-28~+35	-28~+35	-28~+35
Operating range - outdoor ambient	Cool	°C	+16~+43	+16~+43	+16~+43	+16~+43	+16~+43
Water outlet	Heat / Cool	°C	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20	20~60/5~20
vvater buttet	rieat / Coot	U	20~00/3~20	20~00/J~20	20~00/3~20	20~00/3~20	20~00/3~20

Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside of hydrokit
PAW-BTANK50L-2	Buffer tank 50 L

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat































Panasonic R410A











Aquarea T-CAP Bi-bloc H Generation Three phase. Super Quiet outdoor unit. Heating and Cooling - SQC · R410A

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Low noise level / Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

				Three phase (Power to indoor)	
Kit			KIT-WQC09H3E8	KIT-WQC12H9E8	KIT-WQC16H9E8
Heating capacity / COP (A -	-7 °C, W 35 °C)	kW / COP	9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP (A -	-7 °C, W 55 °C)	kW / COP	9,00/2,94	12,00/2,88	16,00/2,71
Heating capacity / COP (A -	-2 °C, W 35 °C)	kW / COP	9,00/3,59	12,00/3,44	16,00/3,10
Heating capacity / COP (A -	-2 °C, W 55 °C)	kW / COP	9,00/2,21	12,00/2,19	16,00/2,13
Heating capacity / COP (A -	7 °C, W 35 °C)	kW / COP	9,00/2,85	12,00/2,72	16,00/2,49
Heating capacity / COP (A -	7 °C, W 55 °C)	kW / COP	9,00/2,02	12,00/1,92	16,00/1,86
Cooling capacity / EER (A 3	5 °C, W 7 °C)	kW / EER	7,00/3,17	10,00/2,81	12,20/2,57
Cooling capacity / EER (A 3	5 °C, W 18 °C)	kW / EER	7,00/5,19	10,00/5,13	12,20/3,49
	6 1 "" :	ηs %	181/130	170/130	160/125
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,59/3,32	4,32/3,32	4,08/3,20
(W 35 °C / W 55 °C)	Energy class	A+++ to D	A+++/A++	A++/A++	A++/A++
	6 1 (6)	ηs %	235/158	231/158	231/159
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	5,95/4,02	5,86/4,02	5,86/4,05
(VV 33 C / VV 33 C)	Energy class	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++
	C 1 (f)	ηs %	160/125	160/125	150/125
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,08/3,20	4,08/3,20	3,83/3,20
(W 35 °C / W 55 °C)	Energy class	A+++ to D	A++/A++	A++/A++	A++/A++
Indoor unit			WH-SQC09H3E8	WH-SQC12H9E8	WH-SQC16H9E8
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	HxWxD	mm	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340
Net weight		kg	43	44	45
Water pipe connector		Inch	R 11/4	R 11/4	R 11/4
A 1	Number of speeds		Variable Speed	Variable Speed	Variable Speed
A class pump	Input power (Min/Max)	W	32/102	34/110	30/105
Heating water flow (ΔT=5 k	(. 35 °C)	L/min	25,8	34,4	45,9
Capacity of integrated elec	tric heater	kW	3,00	9,00	9,00
Recommended fuse		A	15/30	15/30	15/30
Recommended cable size,	supply 1 / 2	mm²	5x1,5/3x1,5	5x1,5/5x1,5	5 x 1,5/5 x 1,5
Outdoor unit			WH-UQ09HE8	WH-UQ12HE8	WH-UQ16HE8
Sound power 1)	Heat	dB(A)	58	58	62
Dimension	HxWxD	mm	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320
Net weight		kg	151	151	161
Refrigerant (R410A) / CO, E	Eq.	kg / T	2,85/5,951	2,85/5,951	2,99/6,243
Piping diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8(9,52)/5/8(15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range		m	3~30	3~30	3~30
Elevation difference (in / ou	ıt)	m	20	20	20
Pipe length for additional g	as	m	10	10	10
Additional gas amount		g/m	50	50	50
Operating range - outdoor	Heat	°C	-28~+35	-28~+35	-28~+35
ambient	Cool	°C	+16~+43	+16~+43	+16~+43
Water outlet	Heat / Cool	°C	20~60/5~20	20~60/5~20	20~60/5~20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside of hydrokit
PAW-BTANK50L-2	Buffer tank 50 L

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat







































Aquarea T-CAP Mono-bloc J Generation Single phase / Three phase. Heating and Cooling - MXC · R32

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Built-in magnetic water filter.

Comfort: Constant capacity and operating range down to -20 °C / 65 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single	phase		Three phase	
Outdoor unit			WH-MXC09J3E5	WH-MXC12J6E5	WH-MXC09J3E8	WH-MXC12J9E8	WH-MXC16J9E8
Heating capacity / COP (A +	7 °C, W 35 °C)	kW / COP	9,00/5,08	12,00/4,80	9,00/5,08	12,00/4,80	16,00/4,52
Heating capacity / COP (A +	7 °C, W 55 °C)	kW / COP	9,00/3,08	12,00/3,05	9,00/3,08	12,00/3,05	16,00/2,86
Heating capacity / COP (A +	2 °C, W 35 °C)	kW / COP	9,00/3,81	12,00/3,53	9,00/3,81	12,00/3,53	16,00/3,10
Heating capacity / COP (A +	2 °C, W 55 °C)	kW / COP	9,00/2,54	12,00/2,42	9,00/2,54	12,00/2,42	16,00/2,07
Heating capacity / COP (A -	7 °C, W 35 °C)	kW / COP	9,00/3,08	12,00/2,82	9,00/3,08	12,00/2,82	16,00/2,39
Heating capacity / COP (A -	7 °C, W 55 °C)	kW / COP	9,00/2,12	12,00/2,00	9,00/2,12	12,00/2,00	16,00/1,71
Cooling capacity / EER (A 3	5 °C, W 7 °C)	kW / EER	9,00/3,18	12,00/2,90	9,00/3,09	12,00/2,84	14,50/2,84
Cooling capacity / EER (A 3	5 °C, W 18 °C)	kW / EER	9,00/4,62	12,00/3,95	9,00/4,46	12,00/3,79	16,00/3,75
	Cananal anamy officianay	ηs %	195/140	195/140	195/140	195/140	176/129
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,96/3,57	4,96/3,57	4,96/3,57	4,96/3,57	4,46/3,31
(W 33 C / W 33 C)	Energy class	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
	Seasonal energy efficiency	ηs %	256/171	256/171	256/171	256/171	232/160
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy eniciency	SCOP	6,47/4,34	6,47/4,34	6,47/4,34	6,47/4,34	5,88/4,09
(** 55 6 / ** 55 6)	Energy class	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
	Casasal anamy officianay	ηs %	169/127	169/127	169/127	169/127	150/125
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SC0P	4,31/3,26	4,31/3,26	4,31/3,26	4,31/3,26	3,83/3,20
(₩ 55 0 / ₩ 55 0)	Energy class	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Sound power 1)	Heat	dB(A)	65	65	65	65	66
Dimension	HxWxD	mm	1410 x 1283 x 320				
Net weight		kg	140	140	140	140	150
Refrigerant (R32) / CO ₂ Eq.	2]	kg / T	1,60/1,080	1,60/1,080	1,60/1,080	1,60/1,080	1,80/1,215
Water pipe connector		Inch	R 11/4				
Pump	Number of speeds		Variable Speed				
	Input power (Min/Max)	W	32/173	34/173	32/173	34/173	38/173
Heating water flow (ΔT=5 K	. 35 °C)	L/min	25,8	34,4	25,8	34,4	45,9
Capacity of integrated elect	ric heater	kW	3,00	6,00	3,00	9,00	9,00
Input power	Heat	kW	1,77	2,50	1,77	2,50	3,54
	Cool	kW	2,83	4,14	2,91	4,23	5,11
Running and starting	Heat	Α	8,3	11,6	2,6	3,7	5,3
current	Cool	Α	13,1	19,1	4,3	6,3	7,6
Current 1		Α	29,0	29,0	14,7	11,8	16,4
Current 2		Α	13,0	26,0	13,0	13,0	13,0
Recommended fuse, supply	1/2	Α	30/30	30/30	20/16	20/20	20/20
Recommended cable size, s	supply 1 / 2	mm²	3x4,0or6,0/3x4,0	3x4,0or6,0/3x4,0	5 x 1,5/3 x 1,5	5x1,5/5x1,5	5x2,5/5x1,5
Operating range - outdoor	Heat	°C	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35
ambient	Cool	°C	10~+43	10~+43	10~+43	10~+43	10~+43
Water outlet 3)	Heat	°C	20~65	20~65	20~65	20~65	20~65
vvaler outlet "	Cool	°C	5~20	5~20	5~20	5~20	5~20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. 2) WH-MXC models are hermetically sealed. 3) It is possible to set temperature by 65 °C on remote controller. Normally, outlet water temperature is 60 °C or lower. In case of Δ T setting with remote controller is 15 °C and the outdoor ambient temperature is 5 to 20 °C, outlet water temperature 65 °C is possible. * EER and COP calculation is based in accordance to EN14511.

Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185 L + 80 L – Enamelled
PAW-TD23B6E5	Combo Tank 230 L + 60 L – Stainless Steel
PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50 L

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
PAW-A2W-AFVLV	1 anti-freeze valve. It is required to order 2 valves per system
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

































Panasonic









Aquarea HT Bi-bloc F Generation Single phase / Three phase. Heating Only - SHF · R407C

Energy efficiency: "A" water pump with variable speed.

Comfort: Operating range down to -20 °C outdoor temperature / 65 °C water outlet temperature

			Single phase (F	Power to indoor)	Three phase (Power to indoor)		
Kit			KIT-WHF09F3E5	KIT-WHF12F6E5	KIT-WHF09F3E8	KIT-WHF12F9E8	
Heating capacity / COP (A -	+7 °C, W 35 °C)	kW / COP	9,00/4,64	12,00/4,46	9,00/4,64	12,00/4,46	
Heating capacity / COP (A -	+7 °C, W 65 °C)	kW/COP	9,00/2,48	12,00/2,41	9,00/2,48	12,00/2,41	
Heating capacity / COP (A -	+2 °C, W 35 °C)	kW / COP	9,00/3,45	12,00/3,26	9,00/3,45	12,00/3,26	
Heating capacity / COP (A -	+2 °C, W 65 °C)	kW / COP	9,00/2,06	10,30/2,01	9,00/2,06	10,30/2,01	
Heating capacity / COP (A -	-7 °C, W 35 °C)	kW / COP	9,00/2,74	12,00/2,52	9,00/2,74	12,00/2,52	
Heating capacity / COP (A -	-7 °C, W 65 °C)	kW / COP	9,00/1,79	9,60/1,77	9,00/1,79	9,60/1,77	
	C 1 (C.)	ηs %	153/125	150/125	153/125	150/125	
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	3,90/3,20	3,82/3,21	3,90/3,20	3,82/3,21	
(W 35 °C / W 55 °C)	Energy class	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++	
		ηs %	191/156	188/156	191/156	188/156	
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,84/3,97	4,77/3,97	4,84/3,97	4,77/3,97	
(VV 33 °C / VV 33 °C)	Energy class	A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	
		ηs %	137/116	134/113	137/116	134/113	
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	3,50/2,97	3,42/2,90	3,50/2,97	3,42/2,90	
(W 35 °C / W 55 °C)	Energy class		A+/A+	A+/A+	A+/A+	A+/A+	
Indoor unit			WH-SHF09F3E5	WH-SHF12F6E5	WH-SHF09F3E8	WH-SHF12F9E8	
Sound pressure		dB(A)	33	33	33	33	
Dimension	HxWxD	mm	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353	
Net weight		kg	46	47	47	48	
Water pipe connector		Inch	R 11/4	R 11/4	R11/4	R11/4	
Number of speeds			7	7	7	7	
A class pump	Input power (Min/Max)	W	38/100	40/106	38/100	40/106	
Heating water flow (ΔT=5 h	(. 35 °C)	L/min	25,8	34,4	25,8	34,4	
Capacity of integrated elec	tric heater	kW	3,00	6,00	3,00	9,00	
Recommended fuse		A	30/30	30/30	30/16	30/16	
Recommended cable size,	supply 1 / 2	mm²	3x4,0or6,0/3x4,0	3x4,0or6,0/3x4,0	5x1,5/3x1,5	5x1,5/5x1,5	
Outdoor unit			WH-UH09FE5	WH-UH12FE5	WH-UH09FE8	WH-UH12FE8	
Sound power 1]		dB(A)	_	_	_	_	
Dimension	HxWxD	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	
Net weight		kg	104	104	110	110	
Refrigerant (R407C) / CO, I	Eq.	kg / T	2,90/5,145	2,90/5,145	2,90/5,145	2,90/5,145	
Piping diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8(9,52)/5/8(15,8	
Pipe length range		m	3~30	3~30	3~30	3~30	
Elevation difference (in / ou	ut)	m	20	20	20	20	
Pipe length for additional g	jas	m	10	10	10	10	
Additional gas amount		g/m	70	70	70	70	
Operating range	Outdoor ambient (Heat)	°C	-20~+35	-20~+35	-20~+35	-20~+35	
Water outlet	Hoat	°C	25 45	25 45	25 45	25 45	

25~65

25~65

[°]C 1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled

Heat

Accessories	
PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50 L
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

25~65

25~65



Water outlet





















Aquarea HT Mono-bloc G Generation Single phase. Heating Only - MHF \cdot R407C

Energy efficiency: "A" water pump with variable speed.

Comfort: Operating range down to -20 °C outdoor temperature / 65 °C water outlet temperature

			Single	phase
Outdoor unit			WH-MHF09G3E5	WH-MHF12G6E5
Heating capacity / COP (A	+7 °C, W 35 °C)	kW / COP	9,00/4,64	12,00/4,46
Heating capacity / COP (A	+7 °C, W 65 °C)	kW / COP	9,00/2,48	12,00/2,41
Heating capacity / COP (A	+2 °C, W 35 °C)	kW / COP	9,00/3,45	12,00/3,26
Heating capacity / COP (A	+2 °C, W 65 °C)	kW / COP	9,00/2,06	10,30/2,01
Heating capacity / COP (A	-7 °C, W 35 °C)	kW/COP	9,00/2,74	12,00/2,52
Heating capacity / COP (A	-7 °C, W 65 °C)	kW/COP	9,00/1,79	9,60/1,77
	Seasonal energy efficiency	ηs %	153/125	150/125
Heating average climate (W 35 °C / W 55 °C)	Seasonat energy eniciency	SCOP	3,90/3,20	3,82/3,21
VV 33 C / VV 33 C)	Energy class	A+++ to D	A++/A++	A++/A++
	Concernal anamy official	ηs %	191/156	188/156
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP	4,84/3,97	4,77/3,97
W 33 C / W 33 C)	Energy class	A+++ to D	A+++/A+++	A+++/A+++
	6 1 "":	ηs %	137/116	134/113
(W 35 °C / W 55 °C) ——	Seasonal energy efficiency	SCOP	3,50/2,97	3,42/2,90
	Energy class	A+++ to D	A+/A+	A+/A+
Sound power 1)		dB(A)	_	_
Dimension	HxWxD	mm	1410 x 1283 x 320	1410 x 1283 x 320
Net weight		kg	151	151
Refrigerant (R407C) / CO ₂	Eq. 21	kg / T	1,92/3,406	1,92/3,406
Vater pipe connector		Inch	R 11/4	R 11/4
)	Number of speeds		7	7
Pump	Input power (Min/Max)	W	_	-
Heating water flow (ΔT=5	K. 35 °C)	L/min	25,8	34,4
Capacity of integrated ele	ctric heater	kW	3,00	6,00
nput power		kW	1,94	2,69
Running and starting curr	rent	Α	9,3	12,8
Current 1	<u> </u>	Α	28,5	29,0
Current 2		Α	13,0	26,0
Recommended fuse	<u> </u>	Α	30/30	30/30
Recommended cable size	, supply 1 / 2	mm²	3x4,0or6,0/3x4,0	3x4,0or6,0/3x4,0
Operating range	Outdoor ambient (Heat)	°C	-20~+35	-20~+35
Water outlet	Heat	°C	25~65	25~65

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. 2) WH-MHF models are hermetically sealed. * EER and COP calculation is based in accordance to EN14511.

Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185 L + 80 L – Enamelled
PAW-TD23B6E5	Combo Tank 230 L + 60 L – Stainless Steel

Accessories	
PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50 L
PAW-A2W-AFVLV	1 anti-freeze valve. It is required to order 2 valves per system
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



















Fan coils highlighted features

MORE FAN COIL OPTIONS
IN CHILLERS SECTION

Available in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location.



- Innovation for optimum comfort

 Range of fan coil for heating and cooling with capacities from 0,2 to 9,6 kW in cooling and from 0,2 to 13,6 kW in heating. Bring full year comfort with water based systems.
- Energy efficient and low noise fan

 Dynamically balanced and specially designed fans, reinforced acoustic insulation and optimised fan speed staging for lower noise levels.

 Improved efficiency with optional EC fan motor.
- Quality and efficient coil

 Constructed from staggered copper tubes, mechanically expanded into aluminium fins, providing maximum heat transfer efficiency,

durability and hygiene.

Flexible installation

Various types of unit to fit your needs with flexible installation options. A choice of service side for hydraulic connections, piping configuration and horizontal or vertical installation for ducted units.

Offering a great range of capacities and performance, available in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location. Whether the requirements are for cooling only, or for both heating and cooling, there is a fan coil to suit. With a variety of piping and fan configuration, the range is capable of meeting the most stringent of requirements. Line up available in AC and EC fans, it is possible to achieve both powerful performance, but with sustainability in mind.

Controllers with sophisticated designs, provide a user friendly interface while enabling an easy and low cost integration to building management systems.



PAW-FC-RC1 Optional wired remote controller for AC fan, 2-pipe and 4-pipe application.

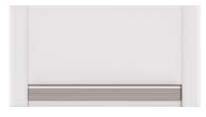


PAW-FC-TC903Optional wired remote controller for AC fan 2-pipe application.



PAW-FC-907TC Optional wired remote controller for EC fan, 2-pipe and 4-pipe application.

Smart fan coils







			PAW-AAIR-200-2	PAW-AAIR-700-2	PAW-AAIR-900-2
Total cooling capacity	Lo/Med/Hi	kW	0,2/0,3/0,6	0,8/1,0/1,2	1,2/1,5/1,7
Sensible cooling capacity	Lo/Med/Hi	kW	0,2/0,3/0,5	0,6/0,9/1,1	1,1/1,4/1,6
Water flow	Lo/Med/Hi	kg/h	40,0/59,0/95,0	129,0/178,0/207,0	198,0/261,0/300,0
Water pressure drop	Lo/Med/Hi	kPa	0,4/2,0/2,9	1,0/2,0/2,0	6,0/9,0/12,0
Inlet water temperature		°C	10	10	10
Outlet water temperature		°C	15	15	15
Inlet air temperature		°C	27,0	27,0	27,0
Outlet air temperature	Lo/Med/Hi	°C	15,0/17,0/18,0	14,0/16,0/17,0	16,0/17,0/18,0
Relative humidity of inlet air		%	47	47	47
Total heating capacity	Lo/Med/Hi	kW	0,2/0,5/0,6	0,7/1,0/1,2	0,9/1,4/1,7
Water flow	Lo/Med/Hi	kg/h	37,3/80,8/98,0	121,8/177,5/204,3	152,4/244,2/292,9
Water pressure drop	Lo/Med/Hi	kPa	0,4/2,0/2,9	0,3/0,8/1,0	0,5/1,6/2,2
Inlet water temperature		°C	35	35	35
Outlet water temperature		°C	30	30	30
Inlet air temperature		°C	19,0	19,0	19,0
Outlet air temperature	Lo/Med/Hi	°C	38,9/32,0/30,0	33,3/31,8/30,6	30,2/31,1/30,6
Air flow	Lo/Med/Hi	m³/min	0,9/1,9/2,7	2,6/4,2/5,3	4,1/6,1/7,7
Maximum input power	Lo/Med/Hi	W	7,0/9,0/13,0	14,0/18,0/22,0	16,0/20,0/24,0
Sound pressure	Lo/Med/Hi	dB(A)	23/33/40	24/36/42	25/36/44
Dimension (HxWxD)		mm	735 x 579 x 129	935 x 579 x 129	1135 x 579 x 129
Net weight		kg	17	20	23
3 Ways valve included			Yes	Yes	Yes
Touch screen thermostat			Yes	Yes	Yes

^{*} Smart fan coils is produced by Innova.

Accessories	
PAW-AAIR-LEGS-1	Kits of 2 legs to protect the water pipings

Accessories

PAW-AAIR-RHCABLE

Motor connection cable for units with hydraulic connections on the right

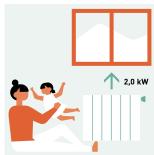
Stylish floor-standing fan coils with advanced controller

The slimline of Smart fan coils delivers high efficiency climate control.

With a depth of just under 130 mm they are at the cutting edge of the market. Blending easily into the home, Smart fan coil's elegant design and product refinements are clear to see in every detail.

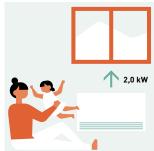
Exceptional ventilation efficiency means the motor uses considerably less energy (low wattage). The fan speed is continuously modulated by the temperature controller with proportional integral logic, with undoubted advantages for regulating the temperature and humidity in summer mode.

With standard cast radiators.



Water at 65 °C needed.

With Smart fan coil.



Water at 35 °C needed.

Technical focus

- · 4 operation modes (auto, silent, night-time and maximum ventilation speed)
- · Exclusive design
- · Extremely compact (only 129 mm deep)
- · Cooling and dehumidification functions possible (drain is
- · 3-way valve included (no overflow valve needed on the installation if more than 3 units installed)
- · Touch screen thermostat

All temperature curves and capacity are available on www.panasonicproclub.com



Fan coils - ducted (AC)





Optional controller. Wired remote controller. PAW-FC-903TC



Optional controller. Advanced wired remote controller. PAW-FC-RC1

Left connection (PAW-)			FC2A-D010L	FC2A-D020L	FC2A-D030L	FC2A-D040L	FC2A-D050L	FC2A-D060L	FC2A-D070L	FC2A-D080L
Right connection (PAW-)			FC2A-D010R	FC2A-D020R	FC2A-D030R	FC2A-D040R	FC2A-D050R	FC2A-D060R	FC2A-D070R	FC2A-D080R
Total cooling capacity 1]	Lo/Med/Hi	kW	0,7/1,0/1,5	0,7/1,2/1,7	1,0/2,0/2,5	1,2/2,4/3,2	1,7/3,2/4,6	2,7/4,6/5,8	3,4/6,1/7,3	4,6/6,1/8,1
Sensible cooling capacity 1)	Lo/Med/Hi	kW	0,5/0,8/1,1	0,6/0,9/1,3	0,8/1,5/1,9	0,9/1,8/2,3	1,2/2,2/3,3	1,9/3,3/4,5	2,4/4,3/5,1	3,4/4,6/6,3
Water flow	Lo/Med/Hi	l/h	124/172/250	127/213/289	172/341/430	206/413/547	296/544/798	466/784/1003	587/1058/1252	798/1048/1400
Water pressure drop	Lo/Med/Hi	kPa	10,7/19,5/39,2	1,9/3,9/6,3	6,3/19,3/28,8	5,4/17,1/28,0	7,5/22,8/46,9	13,9/37,4/60,2	4,8/15,4/21,5	11,9/19,3/32,5
Heating capacity 2)	Lo/Med/Hi	kW	0,9/1,4/2,0	0,9/1,5/2,2	1,3/2,4/3,1	1,4/2,9/4,0	2,1/4,1/5,7	3,1/5,3/7,1	4,3/7,9/9,3	5,9/8,1/11,6
Sound levels										
Global sound power	Lo/Med/Hi	dB(A)	33/40/49	31/43/50	30/45/52	30/44/51	34/46/56	38/51/58	43/56/61	50/55/64
Global sound pressure 3)	Lo/Med/Hi	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52	41/46/55
Fan										
Number			1	1	1	2	2	2	2	3
Air flow	Lo/Med/Hi	m³/h	111/190/283	105/179/265	138/274/390	173/357/499	253/486/716	350/640/933	480/893/1064	660/936/1397
Maximum external pressure		Pa	55	55	65	85	85	115	125	70
Filter			G2							
Electrical data										
	Voltage	V	230	230	230	230	230	230	230	230
Power supply	Phase		Single phase							
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption	Lo/Med/Hi	W	13/24/36	10/18/29	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147	90/112/188
Water connections										
Туре			Female gas threaded							
Water connections		Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
Dimension and weight										
Dimension	HxWxD	mm	220 x 570 x 430	220 x 570 x 430	220 x 730 x 430	220 x 938 x 430	220 x 1122 x 430	220 x 1307 x 430	220 x 1121 x 530	220 x 1316 x 530
Weight		kg	13	13	15	20	22	26	27	38

¹⁾ According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds.

Values indicated are for 0 Pa external static pressure, for additional pressure characteristics, please refer the selection software. * Fan coil units are produced by Systemair.

Accessories	
PAW-FC-RC1	Advanced wired remote controller for fan coil
PAW-FC-903TC	Wired remote controller for fan coil
PAW-FC-2WY-11/55-1	2 way valve + drain pan for models 010-060

Accessories	
PAW-FC-2WY-65/90-1	2 way valve + drain pan for models 070-080
PAW-FC-3WY-11/55-1	3 way valve + drain pan for models 010-060
PAW-FC-3WY-65/90-1	3 way valve + drain pan for models 070-080

Technical focus

- · Cooling capacity from 0,7 to 8,1 kW
- · Heating capacity from 0,7 to 10,3 kW
- · 5-speed AC fan motor(s)

Main features and accessories

- · Left or right hand arrangements
- · Ease of installation
- · Very low acoustic levels
- \cdot 2 way or 3 way ON / OFF valves
- · Auxiliary drain pan
- · Air intake with removable grid
- · G2 filter

Operating limits				
Entering water temperature	From 5 to 90 °C			
Indoor air temperature	From 5 to 32 °C			



Fan coils - ducted (EC)









Optional controller. Wired remote controller for EC fans. PAW-FC-907TC

Left connection (PAW-)			FC2E-D010L	FC2E-D020L	FC2E-D030L	FC2E-D040L	FC2E-D050L	FC2E-D060L	FC2E-D070L	FC2E-D080L	FC2E-F040L
Right connection (PAW-)			FC2E-D010R	FC2E-D020R	FC2E-D030R	FC2E-D040R	FC2E-D050R	FC2E-D060R	FC2E-D070R	FC2E-D080R	FC2E-F040R
Total cooling capacity 1)	Lo/Med/Hi	kW	0,6/1,2/2,1	0,6/1,4/2,4	0,9/2,1/3,1	1,3/2,9/4,2	1,3/4,0/5,0	2,0/4,5/5,2	2,7/5,9/6,9	5,1/6,5/8,8	3,6/6,6/9,2
Sensible cooling capacity 13	Lo/Med/Hi	kW	0,5/1,1/1,9	0,5/1,1/1,9	0,6/1,6/2,4	1,0/2,1/3,0	1,1/3,0/3,7	1,4/3,5/4,0	2,0/4,3/5,2	3,7/4,8/6,6	2,9/6,1/9,1
Water flow	Lo/Med/Hi	l/h	107/210/356	110/237/406	148/354/532	230/506/722	231/685/743	341/767/800	463/1008/1098	879/1111/1254	627/1142/1575
Water pressure drop	Lo/Med/Hi	kPa	8,2/28,2/76,9	1,5/4,6/11,0	5,0/20,5/42,1	6,4/24,4/46,3	4,9/35,1/41,0	7,8/35,8/38,8	3,0/14,0/16,6	14,1/21,4/26,6	10,6/51,2/93,8
Heating capacity 2]	Lo/Med/Hi	kW	0,8/1,6/2,9	0,9/1,9/3,3	1,0/2,2/3,4	1,4/3,0/5,3	1,7/5,2/5,5	2,3/5,9/6,1	3,8/7,3/8,2	6,2/8,0/9,3	4,4/8,3/11,8
Sound levels											
Global sound power	Lo/Med/Hi	dB(A)	34/47/60	34/47/60	31/50/59	29/44/52	30/51/57	32/54/58	40/54/59	51/56/64	42/58/68 3)
Global sound pressure 41	Lo/Med/Hi	dB(A)	25/38/51	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55	23/39/52
Fan											
Number			1	1	1	2	2	2	2	3	1
Air flow	Lo/Med/Hi	m³/h	108/228/417	98/234/413	145/380/585	170/412/678	203/645/816	245/737/912	350/850/1050	685/927/1398	592/1284/1935
Maximum external pressure		Pa	75	75	75	105	70	105	115	115	190
Filter			G2								
Electrical data											
	Voltage	V	230	230	230	230	230	230	230	230	230
Power supply	Phase		Single phase								
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption	Lo/Med/Hi	W	5/11/41	5/13/41	4/16/42	2/13/43	4/24/46	2/30/54	11/44/77	23/42/108	11/62/197
Water connections											
Туре			Female gas threaded								
Water connections		Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4
Dimension and weight											
Dimension	HxWxD	mm	220 x 570 x 430	220 x 570 x 430	220 x 730 x 430	220 x 938 x 430	220 x 1122 x 430	220 x 1307 x 430	220 x 1121 x 530	220 x 1316 x 530	223 x 1233 x 653

¹⁾ According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound power levels indicated are from return and radiated measurements. 4) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds.

Values indicated are for 0 Pa external static pressure, for additional pressure characteristics, please refer the selection software. * Fan coil units are produced by Systemair.

Accessories	
PAW-FC-907TC	Wired remote controller for fan coil
PAW-FC-2WY-11/55-1	2 way valve + drain pan for models 010-060
PAW-FC-2WY-65/90-1	2 way valve + drain pan for models 070-080
PAW-FC-2WY-F040	2 way valve + drain pan for model F040

Accessories	
PAW-FC-3WY-11/55-1	3 way valve + drain pan for models 010-060
PAW-FC-3WY-65/90-1	3 way valve + drain pan for models 070-080
PAW-FC-3WY-F040	3 way valve + drain pan for model F040
	-

Technical focus

- \cdot Cooling capacity from 0,5 to 9,6 kW
- · Heating capacity from 0,6 to 13,6 kW
- · Low energy consumption EC fan(s)

Main features and accessories

- \cdot Left or right hand arrangements
- · Can be installed both horizontally and vertically*
- \cdot Ease of installation
- · Very low acoustic levels
- \cdot 2 way or 3 way ON / OFF valves
- · Auxiliary drain pan
- · Air intake with removable grid
- · G2 filter

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C

st PAW-FC2E-F040 may only be installed horizontally.





Fan coils - wall-mounted (AC)





Optional controller. Wired remote controller. PAW-FC-903TC



Optional controller. Advanced wired remote controller. PAW-FC-RC1



Infrared remote supplied with IR versions. IR Controller

•			PAW-FC2A-K007	PAW-FC2A-K009	PAW-FC2A-K018	PAW-FC2A-K022
2-pipe			PAW-FC2A-K007IR	PAW-FC2A-K009IR	PAW-FC2A-K018IR	PAW-FC2A-K022IR
Total cooling capacity 11	Lo/Med/Hi	kW	1,0/1,3/1,7	1,6/1,7/2,4	2,8/3,0/3,5	2,9/3,1/3,9
Sensible cooling capacity 1]	Lo/Med/Hi	kW	0,7/1,0/1,2	1,2/1,3/1,9	2,1/2,3/2,7	2,3/2,5/3,1
Water flow	Lo/Med/Hi	l/h	172/231/287	270/291/418	483/508/609	502/535/669
Water pressure drop	Lo/Med/Hi	kPa	18,6/24,9/30,9	18,5/27,0/40,0	34,6/41,3/55,6	37,2/33,7/45,2
Heating capacity 2]	Lo/Med/Hi	kW	1,4/1,7/2,0	1,7/2,0/2,7	2,9/3,2/4,0	3,1/3,7/4,4
Sound levels						
Sound power	Lo/Med/Hi	dB(A)	45/49/51	47/52/57	49/53/59	56/59/63
Sound pressure 3)	Lo/Med/Hi	dB(A)	32/36/38	34/39/44	40/43/46	43/46/50
Fan						
Number			1	1	1	1
Air flow	Lo/Med/Hi	m³/h	282/321/360	367/413/551	532/592/680	617/709/850
Filter			G1	G1	G1	G1
Electrical data						
	Voltage	٧	230	230	230	230
Power supply	Phase		Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50
Fuse rating		A	3	3	3	3
Power consumption	Lo/Med/Hi	W	39/42/62	30/47/59	44/50/55	50/55/70
Water connections						
Туре			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
Water connections		Inch	1/2	1/2	1/2	1/2
Dimension and weight	-					
Dimension	HxWxD	mm	275 x 180 x 845	275 x 180 x 845	298 x 200 x 940	298 x 200 x 940
Weight		kg	11	11	13	13

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) According to Eurovent standard. Air: 20 °C. Water in / out: 45 °C / 40 °C. 3) Sound pressure considering a local of 100 m³ a reverberation time of 0,5 seconds and a distance of 1 m.

Accessories	
PAW-FC-RC1	Advanced wired remote controller for fan coil
PAW-FC-903TC	Wired remote controller for fan coil

Accessories	
PAW-FC2-2WY-K007	2 way valve
PAW-FC2-3WY-K007	3 way valve

Technical focus

- · 4 sizes
- · Cooling capacity from 1,0 to 3,9 kW
- · Heating capacity from 1,4 to 4,1 kW
- · Version: 2-pipes, AC fan

Main features and accessories

- \cdot 2 way or 3 way valve ON / OFF
- · 3-speed AC fan motor
- · Silent unit for optimum customer comfort
- \cdot Aesthetic design suitable for residential and hotel applications
- · Compatible with IR controller (supplied with IR versions)
- · Coil with hydrophilic fins to improve the condensate flow

Operating limits					
Entering water temperature	From 5 to 60 °C				
Indoor air temperature	From 6 to 40 °C				



Wired controllers for AC and EC fan coils

Advanced wired remote controller (AC)

PAW-FC-RC1

This advanced controller provides a higher level of comfort in heating. The sensor can be used as a water flow sensor, stopping the fan when the water temperature is low, avoiding cold drafts in winter.

Features:

- · For 2-pipe and 4-pipe, AC fan
- · Change Over function (cold draft prevention)
- · Room thermostat
- · 3 outputs, 230 V relays for fan control
- \cdot 2 outputs, 230 V relays for heating / cooling control
- · Connection to BMS Modbus RTU slave
- · 1 DI for presence detection (key card switch)
- · 1 Al for sensor



Wired remote controller (EC)

PAW-FC-907TC

Stylish and sophisticated design with backlit LCD display, is suitable for installation within a wide variety of locations such as office, hotel and residential applications. By connecting the controller to the range of EC fan coils, the user can take advantage of the improved performance, higher levels of efficiency and thus improved energy savings.

Features

- \cdot For 2-pipe and 4-pipe, EC fan
- · Back lit LCD screen with touch control
- · Adjustable range EC fan control
- $\cdot \ \mathsf{Economiser}$
- · Connection to BMS via Modbus
- · 1 DI for presence detection (key card switch)



Wired remote controller (AC)

PAW-FC-903TC

Feature rich and perfectly adapted to control AC fan coils, the PAW-FC-903TC is the ideal addition for any fan coil. With intuitive user interface provided by the push button control and large LCD display, it will fit seamlessly with almost any location.

Features:

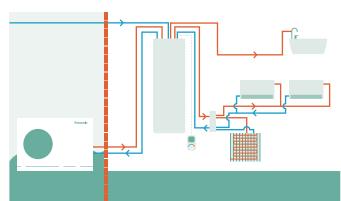
- · For 2-pipe, AC fan
- · Back lit LCD screen
- \cdot 3 speed control relay, for fan
- · Economizer



Sanitary Tanks

Combo tanks.

The best option to combine with Mono-bloc units. DHW tank with buffer tank. Designed for retrofit applications, the DHW tank with a buffer tank is particularly suitable for fast integration on an existing installation. Easy to install, nice looking, high efficiency for DHW production and for heating.



Туре		Ename	elled	Stainles	ss steel			
Reference		PAW-TD20	DB8E3-2	PAW-TD23B6E5				
Dimension HxWxD	mm	1770 x 64	0 x 690	1750 x 6	00 x 646			
Weight (empty)	kg	150)	111				
Volume	L	185 +	- 80	230 + 60				
Power supply	V, Phase, Hz	230, 1	, 50	230,	1, 50			
		Hot water tank	Buffer tank	Hot water tank	Buffer tank			
Volume	L	185	80	230	60			
Max working pressure	MPa (bar)	0,8 (8)	0,6 (6)	1,0 (10)	0,3 (3,0)			
Pressure test	MPa (bar)	1,2 (12)	0,9 (9)	1,5 (15)	0,39 (3,9)			
Max working temp	°C	90	90	80	80			
Connections	mm	Ø22	Ø22	Ø22	Ø22, copper			
Material		S 275 JR vitrified	S235 JR	EN 14521	EN 14521			
Insulation	Material, t=mm	PUR, 50	PUR 40	PUR, 50	PUR, 50			
Heating coil surface	m²	2,1	_	1,8	_			
Electrical heater	W	3000	-	2800	_			
Energy loss at 65 °C 11	kWh/24h	1,3	_	1,25	_			
Energy efficiency class (fro	om A+ to F) 2)	В	В	В	A			
Standing loss	W	53	46	52	29			

¹⁾ Tested pursuant to EN 12897:2006. 2) EU Regulation 812/2013. * Enamelled Combo Tank is produced by Lapesa. Stainless Steel Combo Tank is produced by OSO.



Buffer tanks.

Reference		PAW-BTANK50L-2	PAW-BTANK100L	PAW-BTANK200L	PAW-BTANK300L
Capacity	L	48	100	199	289
Energy losses	W	35	55	50	66
Energy Efficiency Class	(from A+ to F)	В	С	В	В
Material		Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Dimension (Hight / Diar	neter) mm	636 / 430	1175 / 430	1275 / 595	1755 / 595
Net weight	kg	17	28	47	57

^{*} Automatic air vent and drain cock are included. Built-in pocket sensor (sensor not included). ** Buffer Tank are produced by OSO.



Enamelled tanks.

Туре			Enamel	Enamelled 2 coils Tank (for bivalent Solar + HP)	Square Tank		
Reference		PAW-TA15C1E5STD	PAW-TA20C1E5STD	PAW-TA30C1E5STD	PAW-TA40C1E5STD	PAW-TA30C2E5STD	PAW-TA20C1E5C
Water volume	L	150	200	290	380	350	200
Maximum water temperature	°C	95	95	95	95	95	95
Dimension (Hight / Diameter)	mm	1210/520	1340/610	1800/610	1835/670	1835/670	1550 x 600 x 600
Weight / filled with water	kg	109/254	90/280	120/389	191/572	169/519	134 / 327
Electric heater	kW	_	3,00	3,00	3,00	3,00	_
Power supply	٧	_	230	230	230	230	_
Material inside tank		Enamelled	Enamelled	Enamelled	Enamelled	Enamelled	Enamelled
Exchange surface	m²	1,2	1,8	2,6	3,8	3,5 / 1,2	1,83
Energy loss at 65 °C 1)	kWh/24h	1,45	1,37	1,61	1,76	1,76	1,37
3 way valve accessory PAW-3WYVLV	-HW or CZ-NV1	Optional	Optional	Optional	Optional	Optional	Built-in 3 way valve
20 m temperature sensor cable inc	luded	Yes	Yes	Yes	Yes	Yes	Yes
Energy losses	W	60	57	67	73	73	57
Energy Efficiency Class (from A+ to	o F)	С	В	В	В	В	В
Warranty of the inner vessel		5 Years	5 Years	5 Years	5 Years	5 Years	5 Years
Maintenance required		Every 2 years	Every 2 years	Every 2 years	Every 2 years	Every 2 years	Every 2 years

¹⁾ Insulated tested under EN12897. * Enamelled Tanks and Square Tank are produced by AEmail.



Stainless steel tanks.

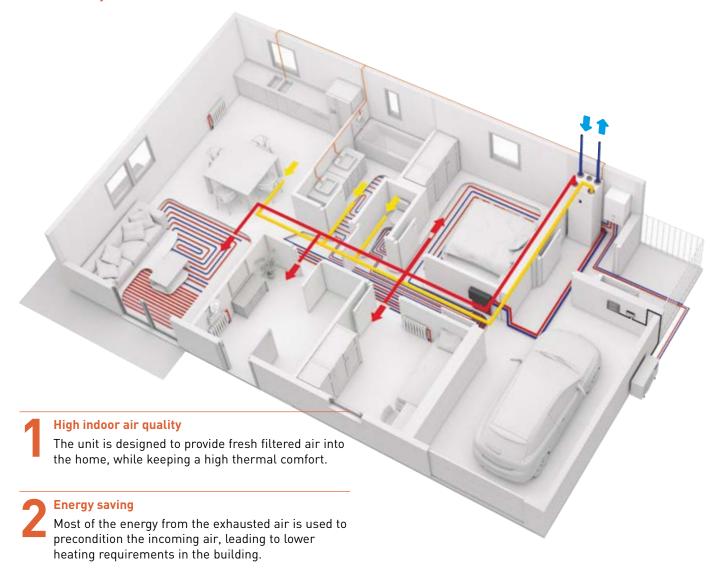
Reference		PAW-TD20C1E5	PAW-TD30C1E5	PAW-TD30C1E5-HI
Water volume	L	192	284	280
Maximum water temperature	°C	75	75	75
Dimension (Hight / Diameter)	mm	1270/595	1750/595	1750 / 595
Weight / filled with water	kg	50/—	61/—	65 / -
Electric heater	kW	1,5	1,5	1,5
Power supply	V	230	230	230
Material inside tank		Stainless steel	Stainless steel	Stainless steel
Exchange surface	m²	1,8	1,8	2,35
Energy loss at 65 °C 11	kWh/24h	1,01	1,18	1,18
3 way valve accessory PAW-3WYVLV	-HW or CZ-NV1	Optional	Optional	Optional
20 m temperature sensor cable inc	luded	Yes	Yes	Yes
Energy losses	W	42	49	49
Energy Efficiency Class (from A+ t	o F)	Α	A	Α
Warranty		2 Years	2 Years	2 Years
Maintenance required		No	No	No

¹⁾ Insulated tested under EN12897. * Stainless Steel Tanks are produced by OSO.

Accessories for sanital	ry tanks	Accessories for sani	tary tanks
PAW-3WYVLV-HW	3 way valve for DHW Tanks	CZ-NV1	3 way valve kit for inside of hydrokit

Heat recovery ventilation unit

The heat recovery ventilation unit is design not only to provide a good indoor air quality, but it is also designed to recover heat that would otherwise be lost throughout ventilation. These heat recovery ventilation systems are used to assist in the retention of heat.



Space saving

The compact ventilation unit can be installed over the DHW square tank or the Aquarea All in One Compact indoor unit for an space-saving solution.

Better user interface

The Residential ventilation unit and the Aquarea Heat Pump can be controlled with one single user-friendly controller.

AQUAREA

Combine the
Residential ventilation
unit with Panasonic
Aquarea for an space
saving and highly
efficient solution
for heating, cooling,
ventilation and DHW.



Heat Recovery Ventilation + Aquarea All in One Compact



Heat Recovery Ventilation + DHW Square Tank + Aquarea Mono-bloc



Heat Recovery Ventilation + DHW Square Tank + Aquarea Bi-bloc

^{*} The unit can be mounted on a PAW-TA20C1E5C, on a WH-ADC0309J3E5C or installed on the wall (PAW-VEN-WBRK is needed).



Heat recovery Ventilation unit		PAW-A2W-VENTA-R	PAW-A2W-VENTA-L				
Nominal air flow rate	m³/h	204 (6	1 50 Pa				
Maximum air flow rate	m³/h	292 @	100 Pa				
SPF		1,24 @ 2	204 m³/h				
Heat exchanger rotor drive type		Variabl	e speed				
Exchanger type		Rota	ating				
Heat recovery efficiency		84	4 %				
Power supply	V / Hz	230 / 50	/ 1 phase				
Power consumption	W	1	76				
Energy Class, basic unit			A				
Energy Class, unit with local control on dema	and		A				
Noise level	dB(A)		40				
Dimension (W x H x D)	mm	598 x 4	50 x 500				
Weight	kg		46				
Mounting position		Ver	tical				
Supply side		Right	Left				
Duct connections	mm	DN	l125				
Filter class, supply air		F7/ePM1 60 %					
Filter class, extract air		M5/ePM10 50 %					
Minimum outdoor temperature	°C	-20					

^{*} Heat recovery efficiency according to EN 13141-7. ** Heat recovery Ventilation unit is produced by Systemair.

Accessories	
PAW-VEN-FLTKIT	Supply and extract filters kit
PAW-VEN-ACCPCB	Optional PCB for additional functions
PAW-VEN-DPL	HRV touch control panel. White frame (cable must be ordered separately)
PAW-VEN-CBLEXT12	Cable with plug for electrical connection between unit and control panel, type CE and CD (12 m)
PAW-VEN-DIVPLG	Twin plugs for installation of several control panels type CD or CE for one unit

Accessories	
PAW-VEN-DPLBOX	HRV touch control panel wall-mounted kit
PAW-VEN-S-C02RH-W	CO ₂ RH wall-mounted sensor
PAW-VEN-S-C02-W	CO ₂ wall-mounted sensor
PAW-VEN-S-C02-D	CO ₂ duct sensor
PAW-VEN-WBRK	Wall bracket kit for stand-alone installation on the wall
PAW-VEN-HTR06	Electrical duct heater 0,6 kW (includes relay)
PAW-VEN-HTR12	Electrical duct heater 1,2 kW (includes relay)

Main features of the residential ventilation unit

- · Designed for areas up to approximately 140 m²
- · High energy-efficiency rotary heat exchanger with EC technology fans
- \cdot Moisture transfer function to minimize condensation in supply air during wintertime
- \cdot The built in humidity sensor in extract air can be used for demand control
- Control via touch display and Startup Wizard for easy commissioning
- · Modbus communication via RS-485
- Option to control an Aquarea H or J Generation heat pump from PAW-A2W-VENTA control panel (PAW-AW-MBS-H and PAW-VEN-ACCPCB required)

Control user-friendly interface

All settings and features accessible via a control panel, integrated into the front cover. The option for connecting one or more external control panels is available.

- Color touch screen with a user-friendly interface
- MANUAL and AUTO mode or choose preferred settings from the preconfigured user modes





 If Aquarea J and H Generations heat pumps are connected with PAW-A2W-VENTA, the heat pump control options appear on the home screen in a separate tab





DHW Stand Alone

The wide range of DHW Stand Alone heat pump is a great solution to adapt to any type of family house.



DHW Stand Alone: highly efficient heat pump water heater.

The wall type is available in 100 and 150 L capacities, and the floor-standing in 200 and 270 L. For reaching even more efficient use the 270 L is available in additional coil, it is able to connect solar water production.

- · A+ Highly efficient domestic hot water heat pump
- Provides reduced power consumption up to 72 % compared with traditional electric water heater
- · Easy to install
- · Being CFC-free, this water heater is environmentally friendly

Energy saving

- Digital control panel with energy consumption monitoring
- · Photovoltaic function
- Compatible with ducted fresh air intake installations
- · Boiler / Solar Coil (only PAW-DHW270C1F)

Comfort

- · Different modes of operation based on user needs
- Mode AUTO: Intelligent Temperature Set Point, thanks to monitoring hot water usage
- · Mode BOOST, Mode ECO and Mode ABSENCE

Durability

- · Diamond-quality enamel lining the inner tank
- · Pressure relief valve which provides safety if any malfunctions or pressure rise
- · Dielectric union preventing corrosion
- Specific lip gasket preventing rust around the flange



Туре		Wall-n	nounted		Floor-standing	
Reference		PAW-DHW100W-1	PAW-DHW150W-1	PAW-DHW200F	PAW-DHW270F	PAW-DHW270C1F
Nominal capacity	L	100	150	200	270	263
Dimension (HxWxD)	mm	1209 x 522 x 538	1527 x 522 x 538	1617 x 620 x 665	1957 x 620 x 665	1957 x 620 x 665
Empty weight	kg	57	66	80	92	111
Hot and cold connection		3/4" M	3/4" M	3/4" M	3/4" M	3/4" M
Anticorrosion system	Anode	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium
Rated water pressure	Mpa (bar)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)
Electrical connection	V / Hz	230/50	230/50	230/50	230/50	230/50
Total maximum power	W	1550	1950	2300	2300	2300
Maximal power heat pump	W	350	350	700	700	700
Power electric heating element	W	1200	1600	1600	1600	1600
Heat pump water temperature range	°C	50~62	50~62	50~62	50~62	50~62
Heat pump air temperature range	°C	-5~+43	-5~+43	-5~+43	-5~+43	-5~+43
Duct diameter	mm	125	125	160	160	160
Air flow (without duct)	m³/h	160	160	310/390	310/390	310/390
Load losses acceptable on ventilation circuit, without affecting performance	Pa	70	70	25	25	25
Sound power 1)	dB(A)	45	45	53	53	53
Refrigerant R134a (wall-mounted) / R513A (floor-standing)	kg	0,52	0,58	0,80	0,86	0,86
Refrigerant volume in tons of CO ₂ equivalent	TCO ₂ Eq.	0,74	0,83	0,50	0,54	0,54
Refrigerant weight per liter	kg/L	0,0052	0,0039	0,0040	0,0032	0,0032
Hot water quantity at 40 °C: V40td	L	151,0	182,0	265,5	361,2	357,9
Acoustic power ErP 2)	dB(A)	45	45	53	53	53
Energy Efficiency Class (from A+ to F)		A+	A+	A+	A+	A+
Connectable to PV		Yes	Yes	Yes	Yes	Yes
Additional coil exchanger connection		_	_	_	_	1"M
Additional coil surface	m²	_	-	_	_	1,2
Warranty of the inner vessel		5 Years	5 Years	5 Years	5 Years	5 Years
Performance at 7 °C air temperature		(EN 16147) d	ucted at 25 Pa	(CDC LCI	E 103-15/C) ducted	at 30 Pa 3)
Coefficient of performance (COP) according load profile		2,66 - M	3,05 - L	2,81 - L	3,16 - XL	3,05 - XL
Standby input power (P _{es})	W	18	24	32	29	33
Heating up time (t _h)	h. Min	6h47	10h25	07h11	10h39	11h04
Reference hot water temperature (T _{ref})	°C	52,7	53,2	52,7	53,1	52,9
Flow rate (air)	m³/h	140	110	320	320	320
Performance at 15 °C air temperature (EN 16147)						
Coefficient of performance (COP) according load profile		2,88 - M	3,28 - L	3,05 - L	3,61 - XL	3,44 - XL
Standby input power (P _{es})	W	19	25	30	30	33
Heating up time (t _h)	h. Min	6h07	9h29	6h24	8h34	8h40
Reference hot water temperature (T _{ref})	°C	52,6	53,4	52,8	53,0	53,1
Flow rate (air)	m³/h	140	110	320	320	320

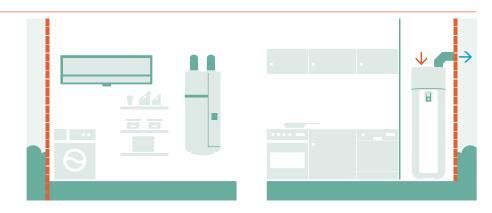
1) According to IS03744. 2) Compliant with EN 16147 conditions. 3) Performance measured for a water heater from 10 °C to T_{ret} according to the protocol of the NF Electricity Performance Mark specifications No.LCIE 103-15C, selfheating thermodynamic water heaters (based on standard EN 16147). * DHW Stand Alone is produced by S.A.T.E.

Accessories

PAW-DHW-STAND Rack for suspended device for 100 and 150 liters models

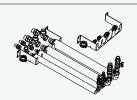
Ideal for small surfaces

Suitable for all installations (adapted to small surfaces, low ceiling, corner).



Accessories and control

All in One accessories



Flexible pipings and wall mounting plate for All in One J Generation (not compatible with WH-ADC0309J3E5C).

PAW-ADC-PREKIT-1

compatible with outdoor elevation platform.

Tray for condenser water

PAW-WTRAY

Special outdoor supports



Outdoor elevation platform. Dimension (HxWxD): 400 x 900 x 400 mm

PAW-GRDSTD40



Outdoor base ground support for noise and vibration absorption.

Dimension (HxWxD): 600 x 95 x 130 mm Safe working load: 500 kg

PAW-GRDBSE20

PCB's for additional **functions**



PCB for advanced functions in J and H Generation.

CZ-NS4P

Base pan heater (for all old Bi-bloc and Mono-bloc, not for the 3 and 5 kW).

CZ-NE1P

Base pan heater (for Bi-bloc 3

Deice accessories

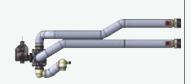
CZ-NE2P

and 5 kW).

Base pan heater for J and H Generation.

CZ-NE3P

Hydraulic accessories



3 way valve kit for inside of hydrokit.

CZ-NV1



3 way valve for DHW Tanks.

PAW-3WYVLV-HW



1 anti-freeze valve. It is required to order 2 valves

per system. PAW-A2W-AFVLV

Optional magnet for the water filter in H Generation models.

PAW-A2W-MGTFILTER

Connectivity Solutions



Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN.

CZ-TAW1

10 m extension cable for CZ-TAW1.

CZ-TAW1-CBL



KNX Interface for J and H Generation.

PAW-AW-KNX-H



Modbus Interface for J and H Generation.

Room thermostats

PAW-AW-MBS-H

Cascade manager



Cascade manager for Aquarea Heat Pumps.

PAW-A2W-CMH-1



Wired LCD room thermostat with weekly timer.

PAW-A2W-RTWIRED



Wireless LCD room thermostat with weekly timer.

PAW-A2W-RTWIRELESS

Sensors for Aquarea J and H Generation



Outdoor ambient sensor.

PAW-A2W-TSOD



Zone room sensor.

PAW-A2W-TSRT



Zone water sensor.

PAW-A2W-TSHC



Solar sensor.

PAW-A2W-TSS0



Buffer tank sensor.

Zone water sensor PAW-A2W-TSHC is also required to operate buffer tank sensor.

PAW-A2W-TSBU

Accessories and control

Smart fan coil accessories

Kits of 2 legs to protect the water pipings.

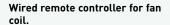
PAW-AAIR-LEGS-1

Motor connection cable for units with hydraulic connections on the right.

PAW-AAIR-RHCABLE

Fan coil accessories





PAW-FC-903TC

2 way valve + drain pan for ducted models 010-060.

PAW-FC-2WY-11/55-1

3 way valve + drain pan for ducted models 010-060.

PAW-FC-3WY-11/55-1



Advanced wired remote controller for fan coil.

PAW-FC-RC1

2 way valve + drain pan for ducted models 070-080.

PAW-FC-2WY-65/90-1

3 way valve + drain pan for ducted models 070-080.

PAW-FC-3WY-65/90-1



Wired remote controller for EC fan coil.

PAW-FC-907TC

2 way valve + drain pan for ducted model F040.

PAW-FC-2WY-F040

3 way valve + drain pan for ducted model F040.

PAW-FC-3WY-F040



Infrared remote supplied with IR versions.

IR Controller

2 way valve for wall-mounted.

PAW-FC2-2WY-K007

3 way valve for wall-mounted.

PAW-FC2-3WY-K007

Sanitary Tank accessories



Tank sensor with 6 m cable length.

PAW-TS1

Tank sensor with 20 m cable length.

PAW-TS2

Tank sensor with 6 m cable length and only 6 mm diameter.

PAW-TS4



Temperature sensor kit for third party tank (with copper pocket and 6 m length sensor cable).

CZ-TK1

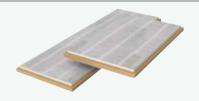
DHW Stand Alone accessories



Rack for suspended device for 100 and 150 liters models.

PAW-DHW-STAND

Heat recovery Ventilation accessories



Supply and extract filters kit.

PAW-VEN-FLTKIT



Optional PCB for additional functions.

PAW-VEN-ACCPCB



HRV touch control panel. White frame (cable must be ordered separately).

PAW-VEN-DPL



Cable with plug for electrical connection between unit and control panel, type CE and CD (12 m).

PAW-VEN-CBLEXT12



Twin plugs for installation of several control panels type CD or CE for one unit.

PAW-VEN-DIVPLG



HRV touch control panel wall-mounted kit.

PAW-VEN-DPLBOX



CO, RH wall-mounted sensor.

PAW-VEN-S-C02RH-W



CO, wall-mounted sensor.

PAW-VEN-S-C02-W



CO₂ duct sensor.

PAW-VEN-S-C02-D



Wall bracket kit for stand-alone installation on the wall.

PAW-VEN-WBRK

Electrical duct heater 0,6 kW (includes relay).

PAW-VEN-HTR06



Electrical duct heater 1,2 kW (includes relay).

PAW-VEN-HTR12

Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

WH-UD0	3JE5														
Tamb	нс	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	25	25	25	35	35	35	45	45	45	55	55	55	60	60	60
-20	2,50	1,11	2,25	2,52	1,31	1,92	2,24	1,59	1,41	2,12	1,80	1,18	_	_	_
-15	3,00	1,14	2,63	3,20	1,37	2,34	3,00	1,62	1,85	2,75	1,92	1,43	_	_	_
-7	2,99	0,91	3,29	3,30	1,18	2,80	3,25	1,47	2,21	3,20	1,79	1,79	3,00	1,88	1,60
2	2,92	0,69	4,23	3,20	0,88	3,64	3,20	1,13	2,83	3,20	1,46	2,19	3,15	1,67	1,89
7	3,09	0,49	6,31	3,20	0,60	5,33	3,20	0,84	3,81	3,20	1,14	2,81	2,95	1,22	2,42
25	3,27	0,23	14,22	3,27	0,38	8,61	3,61	0,63	5,73	4,06	1,11	3,66	4,03	1,14	3,54
WH-UD0!	5JE5														
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	25	25	25	35	35	35	45	45	45	55	55	55	60	60	60
-20	3,60	1,57	2,29	3,51	1,81	1,94	3,16	1,99	1,59	2,46	2,11	1,17	-	_	_
-15	4,46	1,72	2,59	4,20	1,93	2,18	3,75	2,18	1,72	3,00	2,12	1,42	_	_	_
-7	4,18	1,33	3,14	4,20	1,62	2,59	3,80	1,82	2,09	3,55	2,08	1,71	3,25	2,15	1,51
2	4,07	1,01	4,03	4,20	1,32	3,18	4,20	1,64	2,56	4,10	2,06	1,99	4,10	2,21	1,86
7	5,20	0,83	6,27	5,00	1,00	5,00	5,00	1,41	3,55	5,00	1,84	2,72	4,25	2,10	2,02
25	5,00	0,52	9,62	5,00	0,72	6,94	5,30	0,98	5,41	5,60	1,27	4,41	4,80	1,27	3,78
WH-UD0	7JE5														
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	25	25	25	35	35	35	45	45	45	55	55	55	60	60	60
-20	4,33	1,64	2,64	3,98	1,88	2,12	3,83	2,26	1,69	3,30	2,77	1,19	_	_	_
-15	5,16	1,69	3,05	4,75	2,00	2,38	4,65	2,40	1,94	4,50	2,96	1,52	_	_	_
-7	5,64	1,56	3,62	5,60	1,95	2,87	5,50	2,30	2,39	5,25	2,70	1,94	4,98	2,90	1,72
2	6,80	1,57	4,33	6,85	2,01	3,41	6,75	2,40	2,81	6,20	2,80	2,21	6,18	2,91	2,12
7	7,55	1,15	6,57	7,00	1,47	4,76	7,00	1,96	3,57	7,00	2,48	2,82	6,86	2,75	2,49
25	7,00	0,62	11,29	6,88	0,90	7,64	7,00	1,33	5,26	6,92	1,75	3,95	6,83	1,90	3,59
WH-UD0	9JE5-1														
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	25	25	25	35	35	35	45	45	45	55	55	55	60	60	60
-20	4,95	1,93	2,56	6,20	3,00	2,07	5,28	3,09	1,71	4,23	3,33	1,27	_	_	_
-15	7,58	2,70	2,81	7,40	3,20	2,31	6,29	3,26	1,93	5,20	3,42	1,52	_		_
-7	6,39	1,81	3,53	6,12	2,20	2,78	5,88	2,61	2,25	5,90	3,06	1,93	5,65	3,24	1,74
2	6,96	1,61	4,32	7,00	2,06	3,40	6,85	2,50	2,74	6,30	2,92	2,16	7,26	3,33	2,18
7	9,44	1,55	6,09	9,00	2,01	4,48	9,00	2,61	3,45	8,95	3,22	2,78	8,62	3,47	2,48
25	8,27	0,95	8,71	8,12	1,29	6,29	8,71	1,80	4,84	7,83	1,97	3,97	6,08	1,72	3,53

Outdoor				W	H-UD03J	E5				WH-UD05JE5								
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18	7	7	7	14	14	14	18	18	18
16	3,56	0,57	6,25	4,32	0,55	7,85	3,47	0,41	8,46	3,59	0,56	6,41	4,23	0,54	7,83	4,79	0,52	9,21
25	3,29	0,73	4,51	4,06	0,72	5,64	3,27	0,52	6,29	4,61	1,18	3,91	5,54	1,21	4,58	5,23	0,90	5,81
35	3,20	0,91	3,52	3,56	0,93	3,83	3,20	0,68	4,71	4,50	1,50	3,00	5,08	1,51	3,36	4,80	1,12	4,29
43	2,68	1,06	2,53	3,34	1,09	3,06	2,79	0,82	3,40	3,77	1,71	2,20	4,94	1,80	2,74	4,30	1,35	3,19
Outdoor				W	H-UD07J	E5				WH-UD09JE5-1								
Tamb	СС	IP	EER	CC	IP	EER	СС	IP	EER	СС	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18	7	7	7	14	14	14	18	18	18
16	5,20	0,81	6,42	6,62	0,73	9,07	7,04	0,72	9,78	6,85	1,18	5,81	8,80	1,15	7,65	9,11	1,15	7,92
25	7,40	1,73	4,28	9,30	1,78	5,22	7,65	1,10	6,95	9,00	2,35	3,83	10,40	2,48	4,19	9,10	1,58	5,76
35	6,70	2,21	3,03	8,10	2,23	3,63	6,70	1,42	4,72	8,20	3,02	2,72	9,90	3,02	3,28	9,00	2,15	4,19
43	4.50	1.99	2,26	5.44	2.00	2.72	5.10	1.71	2.98	3.80	1.99	1.91	4.70	1.97	2.39	5.35	1.99	2,69

WH-UD	12HE5																	
Tamb	HC	IP	COP															
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	9,30	3,46	2,69	8,90	3,62	2,46	8,50	3,79	2,24	8,10	3,95	2,05	7,50	4,05	1,85	7,00	4,16	1,68
-7	10,40	3,37	3,09	10,00	3,66	2,73	9,60	3,95	2,43	9,20	4,24	2,17	8,70	4,26	2,04	8,20	4,27	1,92
2	11,80	3,10	3,81	11,40	3,31	3,44	11,00	3,53	3,12	10,60	3,74	2,83	9,80	3,94	2,49	9,10	4,14	2,20
7	12,00	2,10	5,71	12,00	2,53	4,74	12,00	2,96	4,05	12,00	3,39	3,54	12,00	3,78	3,17	12,00	4,16	2,88
25	12,00	1,38	8,70	12,00	1,66	7,23	11,80	1,94	6,08	11,70	2,23	5,25	11,50	2,49	4,62	11,40	2,74	4,16
WH-UD	16HE5																	
Tamb	HC	IP	COP															
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	10,60	4,09	2,59	10,30	4,38	2,35	10,00	4,67	2,14	9,70	4,96	1,96	8,80	4,94	1,78	7,90	4,91	1,61
-7	11,90	4,03	2,95	11,40	4,43	2,57	10,80	4,83	2,24	10,30	5,22	1,97	9,60	5,09	1,89	9,00	4,95	1,82
2	13,50	3,74	3,61	13,00	3,96	3,28	12,40	4,18	2,97	11,90	4,40	2,70	10,80	4,46	2,42	9,80	4,51	2,17
7	16,00	3,21	4,98	16,00	3,74	4,28	16,00	4,27	3,75	16,00	4,80	3,33	15,20	5,11	2,97	14,50	5,41	2,68
25	16,00	2,31	6,93	16,00	2,69	5,95	16,00	3,07	5,21	16,00	3,45	4,64	16,00	3,67	4,36	15,90	3,89	4,09

WH-UD12HE5									
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
16	7,86	1,18	6,66	13,15	1,40	9,39	10,00	1,73	5,78
25	12,08	2,90	4,17	15,70	2,05	7,66	10,00	1,97	5,08
35	10,00	2,56	3,91	12,00	2,67	4,49	10,00	2,40	4,17
43	7,80	3,80	2,05	11,10	3,19	3,48	8,00	2,85	2,81
WH-UD16HE5									
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
16	9,20	1,62	5,68	16,40	2,58	6,36	12,20	2,45	4,98
25	14,40	3,92	3,67	19,20	3,83	5,01	12,20	2,79	4,37
35	12,20	4,76	2,56	15,00	4,98	3,01	12,20	2,96	4,12
43	7,75	3,40	2,28	13,80	5,95	2,32	9,70	4,00	2,43

Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

WH-UD	09HE8																	
Tamb	HC	IP	COP															
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	8,65	3,06	2,83	8,30	3,21	2,59	7,95	3,41	2,33	7,60	3,61	2,11	7,15	3,71	1,93	6,70	3,81	1,76
-7	9,35	2,91	3,21	9,00	3,16	2,85	8,85	3,54	2,50	8,70	3,92	2,22	8,30	3,89	2,13	7,90	3,86	2,05
2	9,31	2,35	3,96	9,00	2,51	3,59	9,00	2,78	3,24	9,00	3,05	2,95	8,90	3,49	2,55	8,80	3,94	2,23
7	9,00	1,54	5,84	9,00	1,86	4,84	9,00	2,16	4,17	9,00	2,46	3,66	9,00	2,76	3,26	9,00	3,06	2,94
25	9,00	1,05	8,57	9,00	1,24	7,26	8,73	1,44	6,06	8,46	1,64	5,16	8,28	1,82	4,55	8,10	2,00	4,05
WH-UD	12HE8																	
Tamb	НС	IP	COP	HC	IP	COP												
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	9,30	3,46	2,69	8,90	3,62	2,46	8,50	3,79	2,24	8,10	3,95	2,05	7,50	4,05	1,85	7,00	4,16	1,68
-7	10,40	3,37	3,09	10,00	3,66	2,73	9,60	3,95	2,43	9,20	4,24	2,17	8,70	4,26	2,04	8,20	4,27	1,92
2	11,80	3,10	3,81	11,40	3,31	3,44	11,00	3,53	3,12	10,60	3,74	2,83	9,80	3,94	2,49	9,10	4,14	2,20
7	12,00	2,10	5,71	12,00	2,53	4,74	12,00	2,96	4,05	12,00	3,39	3,54	12,00	3,78	3,17	12,00	4,16	2,88
25	12,00	1,38	8,70	12,00	1,66	7,23	11,80	1,94	6,08	11,70	2,23	5,25	11,50	2,49	4,62	11,40	2,74	4,16
WH-UD1	I6HE8																	
Tamb	HC	IP	COP															
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	10,60	4,09	2,59	10,30	4,38	2,35	10,00	4,67	2,14	9,70	4,96	1,96	8,80	4,94	1,78	7,90	4,91	1,61
-7	11,90	4,03	2,95	11,40	4,43	2,57	10,80	4,83	2,24	10,30	5,22	1,97	9,60	5,09	1,89	9,00	4,95	1,82
2	13,50	3,74	3,61	13,00	3,96	3,28	12,40	4,18	2,97	11,90	4,40	2,70	10,80	4,46	2,42	9,80	4,51	2,17
7	16,00	3,21	4,98	16,00	3,74	4,28	16,00	4,27	3,75	16,00	4,80	3,33	15,20	5,11	2,97	14,50	5,41	2,68

WH-UD09HE8									
Tamb	СС	IP	EER	СС	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
16	7,50	1,15	6,52	9,10	1,20	7,58	7,00	1,13	6,19
25	8,35	1,77	4,72	10,90	1,78	6,12	7,00	1,24	5,65
35	7,00	2,23	3,14	8,30	2,32	3,58	7,00	1,52	4,61
43	5,52	2,54	2,17	7,69	2,77	2,78	5,60	1,80	3,11
WH-UD12HE8									
Tamb	CC	IP	EER	cc	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
16	7,86	1,18	6,66	13,15	1,40	9,39	10,00	1,73	5,78
25	12,08	2,90	4,17	15,70	2,05	7,66	10,00	1,97	5,08
35	10,00	2,56	3,91	12,00	2,67	4,49	10,00	2,40	4,17
43	7,80	3,80	2,05	11,10	3,19	3,48	8,00	2,85	2,81
WH-UD16HE8									
Tamb	СС	IP	EER	СС	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
16	9,20	1,62	5,68	16,40	2,58	6,36	12,20	2,45	4,98
25	14,40	3,92	3,67	19,20	3,83	5,01	12,20	2,79	4,37
35	12,20	4,76	2,56	15,00	4,98	3,01	12,20	2,96	4,12
43	7,75	3,40	2,28	13,80	5,95	2,32	9,70	4,00	2,43

WH-MDC	05J3E5														
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	25	25	25	35	35	35	45	45	45	55	55	55	60	60	60
-20	4,37	1,73	2,53	4,16	2,03	2,05	3,84	2,37	1,62	3,43	2,64	1,30	-	_	-
-15	5,13	1,78	2,88	5,00	2,17	2,30	4,75	2,51	1,89	3,70	2,45	1,51	_	_	_
-7	5,17	1,49	3,47	5,00	1,80	2,78	4,80	2,16	2,22	5,00	2,70	1,85	4,68	2,71	1,73
2	5,00	1,11	4,50	5,00	1,40	3,57	5,00	1,81	2,76	5,00	2,20	2,27	4,80	2,40	2,00
7	5,09	0,78	6,53	5,00	0,99	5,05	5,00	1,31	3,82	5,00	1,66	3,01	4,58	1,90	2,41
25	4,96	0,77	6,44	5,04	0,90	5,60	5,31	1,16	4,58	5,61	1,34	4,19	5,15	1,33	3,87
WH-MDC	07J3E5														
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	25	25	25	35	35	35	45	45	45	55	55	55	60	60	60
-20	4,86	2,03	2,39	4,66	2,35	1,98	4,44	2,75	1,61	4,23	3,13	1,35	_	_	_
-15	5,80	2,11	2,75	5,60	2,40	2,33	5,30	2,84	1,87	5,00	3,32	1,51	_	_	_
-7	6,76	2,07	3,27	6,80	2,42	2,81	6,30	2,82	2,23	6,30	3,39	1,86	4,74	2,76	1,72
2	6,83	1,66	4,11	7,00	2,06	3,40	6,85	2,50	2,74	6,30	2,92	2,16	4,80	2,40	2,00
7	7,32	1,19	6,15	7,00	1,47	4,76	7,00	1,96	3,57	7,00	2,48	2,82	6,18	2,44	2,53
25	6,80	0,64	10,63	6,67	0,93	7,17	6,79	1,38	4,92	6,70	1,80	3,72	6,22	1,78	3,49
WH-MDC	09J3E5														
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	25	25	25	35	35	35	45	45	45	55	55	55	60	60	60
-20	5,33	2,36	2,26	6,43	3,60	1,79	5,78	3,83	1,51	4,83	3,64	1,33	_		_
-15	7,76	3,20	2,43	7,60	3,41	2,23	7,00	3,71	1,89	5,60	3,80	1,47	_		_
-7	7,39	2,45	3,02	7,50	2,85	2,63	7,30	3,37	2,17	7,00	3,89	1,80	6,44	3,67	1,75
2	7,38	1,89	3,90	7,45	2,38	3,13	7,00	2,85	2,46	7,00	3,30	2,12	5,46	2,72	2,01
7	9,15	1,59	5,75	9,00	2,01	4,48	9,00	2,61	3,45	8,95	3,22	2,78	7,25	2,87	2,53
25	8,02	0,98	8,18	7,88	1,32	5,97	8,46	1,86	4,55	7,60	2,03	3,74	6,30	1,87	3,37

WH-MDC05J3E	5								
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
16	5,18	0,82	6,32	6,17	0,84	7,35	5,78	0,60	9,63
25	5,38	1,22	4,41	6,64	1,25	5,31	5,55	0,78	7,12
35	5,00	1,54	3,25	5,86	1,61	3,64	5,00	0,99	5,05
43	4,19	1,85	2,26	5,36	1,92	2,79	4,37	1,30	3,36
WH-MDC07J3E	E 5								•
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
16	5,38	0,83	6,48	6,69	0,85	7,87	7,65	0,76	10,07
25	6,96	1,82	3,82	9,06	1,98	4,58	7,58	1,23	6,16
35	7,00	2,29	3,06	8,37	2,47	3,39	7,00	1,48	4,73
43	5,60	2,55	2,20	6,87	2,58	2,66	6,10	1,88	3,24
WH-MDC09J3E	E5								
Tamb	СС	IP	EER	СС	IP	EER	cc	IP	EER
LWC	7	7	7	14	14	14	18	18	18
16	6,89	1,21	5,69	8,65	1,23	7,03	9,82	1,19	8,25
25	9,50	2,84	3,35	11,55	3,06	3,77	9,68	1,82	5,32
35	9,00	3,32	2,71	10,10	3,51	2,88	9,00	2,12	4,25
43	5,42	2,56	2,12	6,56	2,56	2,56	7,40	2,56	2,89

Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

R410A

WH-MD	C12H6E5																	
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	нс	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	9,30	3,46	2,69	8,90	3,62	2,46	8,50	3,79	2,24	8,10	3,95	2,05	_	_	_	7,00	4,10	1,71
-7	10,40	3,37	3,09	10,00	3,66	2,73	9,60	3,95	2,43	9,20	4,24	2,17	_	_	-	8,20	4,21	1,95
2	11,80	3,10	3,81	11,40	3,31	3,44	11,00	3,53	3,12	10,60	3,74	2,83	_	_	_	9,10	4,08	2,23
7	12,00	2,10	5,71	12,00	2,53	4,74	12,00	2,96	4,05	12,00	3,39	3,54	_	_	-	12,00	4,10	2,93
12	12,00	1,38	8,70	12,00	1,66	7,23	11,80	1,94	6,08	11,70	2,23	5,25	_	_	_	11,40	2,74	4,16
WH-MD	C16H6E5																	
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	10,60	4,09	2,59	10,30	4,38	2,35	10,00	4,67	2,14	9,70	4,96	1,96	7,90	4,84	1,63	_	_	_
-7	11,90	4,03	2,95	11,40	4,43	2,57	10,80	4,83	2,24	10,30	5,22	1,97	9,00	4,88	1,84	_	_	_
2	13,50	13,74	0,98	13,00	3,96	3,28	12,40	4,18	2,97	11,90	4,40	2,70	9,80	4,44	2,21	_	_	_
7	16,00	3,21	4,98	16,00	3,74	4,28	16,00	4,27	3,75	16,00	4,80	3,33	14,50	5,33	2,72	_	_	_
12	16,00	2,31	6,93	16,00	2,69	5,95	16,00	3,07	5,21	16,00	3,45	4,64	15,90	3,89	4,09	_	_	_

Aquarea High Performance Mono-bloc H Generation Single phase. Heating and Cooling - MDC \cdot R410A

WH-MDC12H6	E5								
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
16	7,86	1,18	6,66	13,15	2,05	6,41	10,00	1,73	5,78
25	12,08	2,90	4,17	15,70	3,05	5,15	10,00	1,97	5,08
35	10,00	3,56	2,81	12,00	3,67	3,27	10,00	2,15	4,65
43	7,80	3,80	2,05	11,10	3,19	3,48	8,00	2,85	2,81
WH-MDC16H6	E5								
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
16	9,20	1,62	5,68	16,40	2,58	6,36	12,20	2,45	4,98
25	14,40	3,92	3,67	19,20	3,83	5,01	12,20	2,79	4,37
35	12,20	4,76	2,56	15,00	4,98	3,01	12,20	2,96	4,12
43	7,75	3,40	2,28	13,80	5,95	2,32	9,70	4,00	2,43

WH-UX	09HE5																	
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	9,00	3,24	2,78	9,00	3,51	2,56	9,00	3,91	2,30	9,00	4,30	2,09	9,00	4,73	1,90	9,00	5,16	1,74
-7	9,00	2,71	3,32	9,00	3,16	2,85	9,00	3,62	2,49	9,00	4,07	2,21	9,00	4,27	2,11	9,00	4,46	2,02
2	9,00	2,36	3,81	9,00	2,51	3,59	9,00	2,78	3,24	9,00	3,05	2,95	9,00	3,56	2,53	9,00	4,07	2,21
7	9,00	1,64	5,49	9,00	1,86	4,84	9,00	2,16	4,17	9,00	2,46	3,66	9,00	2,76	3,26	9,00	3,06	2,94
25	13,60	1,50	9,07	13,60	1,71	7,95	13,20	1,93	6,84	12,80	2,14	5,98	12,00	2,41	4,98	11,20	2,67	4,19
WH-UX1	12HE5																	
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COF
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	12,00	4,75	2,53	12,00	4,96	2,42	12,00	5,41	2,22	11,00	5,38	2,04	10,80	5,82	1,86	10,50	6,26	1,68
-7	12,00	3,85	3,12	12,00	4,41	2,72	12,00	4,98	2,41	12,00	5,54	2,17	12,00	5,90	2,03	12,00	6,26	1,92
2	12,00	3,19	3,76	12,00	3,49	3,44	12,00	3,87	3,10	12,00	4,25	2,82	12,00	4,86	2,47	12,00	5,47	2,19
7	12,00	2,18	5,50	12,00	2,53	4,74	12,00	2,96	4,05	12,00	3,39	3,54	12,00	3,78	3,17	12,00	4,16	2,88
25	13,60	1,55	8,77	13,60	1,76	7,73	13,40	2,10	6,38	13,20	2,43	5,43	12,60	2,66	4,74	12,00	2,89	4,15
WH-UX	09HE8																	
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	9,00	3,24	2,78	9,00	3,51	2,56	9,00	3,91	2,30	9,00	4,30	2,09	9,00	4,73	1,90	9,00	5,16	1,74
-7	9,00	2,71	3,32	9,00	3,16	2,85	9,00	3,62	2,49	9,00	4,07	2,21	9,00	4,27	2,11	9,00	4,46	2,02
2	9,00	2,36	3,81	9,00	2,51	3,59	9,00	2,78	3,24	9,00	3,05	2,95	9,00	3,56	2,53	9,00	4,07	2,21
7	9,00	1,64	5,49	9,00	1,86	4,84	9,00	2,16	4,17	9,00	2,46	3,66	9,00	2,76	3,26	9,00	3,06	2,94
25	13,60	1,50	9,07	13,60	1,71	7,95	13,20	1,93	6,84	12,80	2,14	5,98	12,00	2,41	4,98	11,20	2,67	4,19
WH-UX1	12HE8																	
Tamb	нс	IP	COP	HC	IP	COP	нс	IP	COP									
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	12,00	4,75	2,53	12,00	4,96	2,42	12,00	5,41	2,22	12,00	5,86	2,05	11,80	6,24	1,89	11,60	6,62	1,75
-7	12,00	3,85	3,12	12,00	4,41	2,72	12,00	4,98	2,41	12,00	5,54	2,17	12,00	5,90	2,03	12,00	6,26	1,92
2	12,00	3,19	3,76	12,00	3,49	3,44	12,00	3,87	3,10	12,00	4,25	2,82	12,00	4,86	2,47	12,00	5,47	2,19
7	12,00	2,18	5,50	12,00	2,53	4,74	12,00	2,96	4,05	12,00	3,39	3,54	12,00	3,78	3,17	12,00	4,16	2,88
25	13,60	1,55	8,77	13,60	1,76	7,73	13,40	2,10	6,38	13,20	2,43	5,43	12,60	2,66	4,74	12,00	2,89	4,15
WH-UX1	16HE8																	
Tamb	нс	IP	COP	нс	IP	COP	нс	IP	COP	нс	IP	COP	HC	IP	COP	нс	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	16,00	6,30	2,54	16,00	6,89	2,32	16,00	7,45	2,15	16,00	8,10	1,98	16,00	8,48	1,89	15,20	8,96	1,70
-7	16,00	5,85	2,74	16,00	6,42	2,49	16,00	7,00	2,29	16,00	7,57	2,11	16,00	8,10	1,98	16,00	8,62	1,86
	16,00	4,67	3,43	16,00	5,21	3,07	16,00	5,74	2,79	16,00	6,31	2,54	16,00	6,90	2,32	16,00	7,50	2,13
2																		
	16,00	3,35	4,78	16,00	3,74	4,28	16,00	4,30	3,72	16,00	4,80	3,33	16,00	5,43	2,95	16,00	5,91	2,71
2 7 16		3,35 2,59	4,78 6,18	16,00 16,00	3,74 3,18	4,28 5,03	16,00 16,00	4,30 3,71	3,72 4,31	16,00 16,00	4,80 4,27	3,33 3,75	16,00 16,00	5,43 4,86	2,95 3,29	16,00 16,00	5,91 5,22	2,71 3,07

Aquarea T-CAP Bi-bloc H Generation Single phase / Three phase. Heating and Cooling \cdot R410A

Outdoor				W	H-UX09H	E5							W	H-UX12H	E5			
Tamb	СС	IP	EER	CC	IP	EER	CC	IP	EER	СС	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18	7	7	7	14	14	14	18	18	18
18	7,00	1,36	5,15	8,55	1,41	6,06	7,00	1,00	7,00	10,00	1,75	5,71	13,20	1,96	6,73	10,00	1,40	7,14
25	7,65	1,91	4,01	11,10	1,98	5,61	7,00	1,10	6,36	11,20	2,67	4,19	16,50	3,01	5,48	10,00	1,60	6,25
35	7,00	2,21	3,17	9,23	2,37	3,89	7,00	1,35	5,19	10,00	3,56	2,81	12,55	3,63	3,46	10,00	1,95	5,13
43	6,25	2,66	2,35	8,55	2,71	3,15	5,60	1,60	3,50	8,00	3,35	2,39	10,00	3,46	2,89	8,00	2,30	3,48
Outdoor			WH-U	X09HE8					WH-U	(12HE8					WH-U	(16HE8		
Tamb	СС	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	18	18	18	7	7	7	18	18	18	7	7	7	18	18	18
18	7,00	1,36	5,15	_	_	_	7,50	1,41	5,32	_	_	_	8,50	1,70	5,00	10,00	1,70	5,88
25	7,65	1,91	4,01	_	_	_	8,90	2,16	4,12	_	_	_	14,00	4,00	3,50	14,00	2,94	4,76
35	7,00	2,21	3,17	_	_	_	10,00	3,56	2,81	_	_	_	12,20	4,76	2,56	12,20	3,50	3,49
43	6.25	2.66	2.35	_	_	_	8.00	3.01	2.66	_	_	_	7.10	3.31	2.15	9.80	3.31	2.96

16

25

16,00

16,00

2,59

2,02

6,18

7,92

16,00

16,00

3,18

2,58

5,03

6,20

16,00

16,00

2,91

Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

WH-UQ	09HE8																	
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	9,00	3,24	2,78	9,00	3,51	2,56	9,00	3,91	2,30	9,00	4,30	2,09	9,00	4,73	1,90	9,00	5,16	1,74
-7	9,00	2,71	3,32	9,00	3,16	2,85	9,00	3,62	2,49	9,00	4,07	2,21	9,00	4,27	2,11	9,00	4,46	2,02
2	9,00	2,36	3,81	9,00	2,51	3,59	9,00	2,78	3,24	9,00	3,05	2,95	9,00	3,56	2,53	9,00	4,07	2,21
7	9,00	1,64	5,49	9,00	1,86	4,84	9,00	2,16	4,17	9,00	2,46	3,66	9,00	2,76	3,26	9,00	3,06	2,94
25	13,60	1,50	9,07	13,60	1,71	7,95	13,20	1,93	6,84	12,80	2,14	5,98	12,00	2,41	4,98	11,20	2,67	4,19
WH-UQ	12HE8																	
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	12,00	4,75	2,53	12,00	4,96	2,42	12,00	5,41	2,22	12,00	5,86	2,05	11,80	6,24	1,89	11,60	6,62	1,75
-7	12,00	3,85	3,12	12,00	4,41	2,72	12,00	4,98	2,41	12,00	5,54	2,17	12,00	5,90	2,03	12,00	6,26	1,92
2	12,00	3,19	3,76	12,00	3,49	3,44	12,00	3,87	3,10	12,00	4,25	2,82	12,00	4,86	2,47	12,00	5,47	2,19
7	12,00	2,18	5,50	12,00	2,53	4,74	12,00	2,96	4,05	12,00	3,39	3,54	12,00	3,78	3,17	12,00	4,16	2,88
25	13,60	1,55	8,77	13,60	1,76	7,73	13,40	2,10	6,38	13,20	2,43	5,43	12,60	2,66	4,74	12,00	2,89	4,15
WH-UQ1	I6HE8																	
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	16,00	6,30	2,54	16,00	6,89	2,32	16,00	7,45	2,15	16,00	8,10	1,98	16,00	8,48	1,89	15,20	8,96	1,70
-7	16,00	5,85	2,74	16,00	6,42	2,49	16,00	7,00	2,29	16,00	7,57	2,11	16,00	8,10	1,98	16,00	8,62	1,86
			0 10	4 / 00	- 04	0.00	1 / 00		0.50	4 / 00	/ 01	0.57	1 / 00	/ 00	0.00	1 / 00	7.50	0.10
2	16,00	4,67	3,43	16,00	5,21	3,07	16,00	5,74	2,79	16,00	6,31	2,54	16,00	6,90	2,32	16,00	7,50	2,13

4,31

5,50

16,00

16,00

3,36

3,75

4,76

16,00

16,00

4,86

3,74

3,29

4,28

16,00

16,00

5,22

4,00

3,07

4,00

WH-UQ09HE8						
Tamb	CC	IP	EER	CC	IP	EER
LWC	7	7	7	18	18	18
18	7,00	1,36	5,15	_	_	_
25	7,65	1,91	4,01	_	_	_
35	7,00	2,21	3,17	_	_	_
43	6,25	2,66	2,35	_	_	_
WH-UQ12HE8						
Tamb	CC	IP	EER	CC	IP	EER
LWC	7	7	7	18	18	18
18	7,50	1,41	5,32	_	_	_
25	8,90	2,16	4,12	_	-	_
35	10,00	3,56	2,81	_	_	_
43	8,00	3,01	2,66	_		_
WH-UQ16HE8						
Tamb	СС	IP	EER	СС	IP	EER
LWC	7	7	7	18	18	18
18	8,50	1,70	5,00	10,00	1,70	5,88
25	14,00	4,00	3,50	14,00	2,94	4,76
35	12,20	4,76	2,56	12,20	3,50	3,49
43	7,10	3,31	2,15	9,80	3,31	2,96

WH-MXC	09J3E5														
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COF
LWC	25	25	25	35	35	35	45	45	45	55	55	55	60	60	60
-20	9,00	3,44	2,62	9,00	3,95	2,28	9,00	4,65	1,94	7,90	5,58	1,42			_
-15	9,00	2,98	3,02	9,00	3,41	2,64	9,00	4,04	2,23	9,00	4,83	1,86	8,70	5,37	1,62
-7	10,50	2,72	3,86	9,00	2,92	3,08	9,00	3,54	2,54	9,00	4,24	2,12	9,00	4,62	1,95
2	10,80	2,14	5,05	9,00	2,36	3,81	9,00	2,91	3,09	9,00	3,55	2,54	9,00	4,05	2,22
7	9,00	1,38	6,52	9,00	1,77	5,08	9,00	2,37	3,80	9,00	2,92	3,08	9,00	3,29	2,7
25	9,00	0,77	11,69	9,00	1,00	9,00	10,00	1,67	5,99	10,00	2,28	4,39	11,00	2,86	3,8
WH-MXC	12J6E5					_									
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COF
LWC	25	25	25	35	35	35	45	45	45	55	55	55	60	60	60
-20	12,00	5,02	2,39	12,00	5,80	2,07	11,00	5,95	1,85	10,00	6,50	1,54	_	_	_
-15	12,00	4,14	2,90	12,00	4,83	2,48	11,00	5,20	2,12	10,50	6,00	1,75	8,90	6,30	1,4
-7	13,50	4,30	3,14	12,00	4,25	2,82	12,00	5,02	2,39	12,00	6,00	2,00	11,00	6,30	1,7
2	14,50	3,23	4,49	12,00	3,40	3,53	12,00	4,20	2,86	12,00	4,95	2,42	12,00	5,77	2,08
7	12,00	2,00	6,00	12,00	2,50	4,80	12,00	3,24	3,70	12,00	3,94	3,05	12,00	4,52	2,6
25	12,00	1,20	10,00	12,00	1,49	8,05	12,00	2,10	5,71	12,00	2,75	4,36	12,00	3,11	3,8
WH-MXC	09J3E8														
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COF
_wc	25	25	25	35	35	35	45	45	45	55	55	55	60	60	60
-20	9,00	3,44	2,62	9,00	3,95	2,28	9,00	4,65	1,94	7,90	5,58	1,42	_	_	_
-15	9,00	2,98	3,02	9,00	3,41	2,64	9,00	4,04	2,23	9,00	4,83	1,86	8,70	5,37	1,62
-7	10,50	2,72	3,86	9,00	2,92	3,08	9,00	3,54	2,54	9,00	4,24	2,12	9,00	4,62	1,9
2	10,80	2,14	5,05	9,00	2,36	3,81	9,00	2,91	3,09	9,00	3,55	2,54	9,00	4,05	2,2
7	9,00	1,38	6,52	9,00	1,77	5,08	9,00	2,37	3,80	9,00	2,92	3,08	9,00	3,29	2,7
25	9,00	0,77	11,69	9,00	1,00	9,00	10,00	1,67	5,99	10,00	2,28	4,39	11,00	2,86	3,85
WH-MXC	12J9E8														
Tamb	НС	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	нс	IP	COF
LWC	25	25	25	35	35	35	45	45	45	55	55	55	60	60	60
-20	12,00	5,02	2,39	12,00	5,80	2,07	10,50	5,75	1,83	9,20	5,80	1,59	_	_	_
-15	12,00	4,14	2,90	12,00	4,83	2,48	12,00	5,67	2,12	11,10	6,35	1,75	8,70	6,20	1,40
-7	13,50	4,30	3,14	12,00	4,25	2,82	12,00	5,02	2,39	12,00	6,00	2,00	11,00	6,30	1,75
2	14,50	3,23	4,49	12,00	3,40	3,53	12,00	4,20	2,86	12,00	4,95	2,42	12,00	5,77	2,08
7	12,00	2,00	6,00	12,00	2,50	4,80	12,00	3,24	3,70	12,00	3,94	3,05	12,00	4,52	2,6
25	12,00	1,20	10,00	12,00	1,49	8,05	12,00	2,10	5,71	12,00	2,75	4,36	12,00	3,11	3,8
WH-MXC	16J9E8														
Tamb	НС	IP	COP	НС	IP	COP	нс	IP	COP	нс	IP	COP	нс	IP	COI
wc	25	25	25	35	35	35	45	45	45	55	55	55	60	60	60
-20	16,00	7,40	2,16	16,00	8,40	1,90	16,00	10,00	1,60	14,00	10,30	1,36	_	_	_
-15	15,30	6,10	2,51	16,00	6,91	2,32	16,00	8,44	1,90	16,00	9,97	1,60	14,00	10,60	1,32
-7	19,00	6,60	2,88	16,00	6,70	2,39	16,00	7,85	2,04	16,00	9,33	1,71	15,00	9,70	1,5
2	20,60	5,35	3,85	16,00	5,16	3,10	16,00	6,40	2,50	16,00	7,72	2,07	16,00	9,20	1,74
 7	16,00	2,80	5,71	16,00	3,54	4,52	16,00	4,55	3,52	16,00	5,60	2,86	15,60	6,50	2,40
	,		-,	,	-,	.,	,	-,	-,	,	-,	_,	,		_,

Outdoor				WH-N	MXC09	J3E5							WH-I	MXC12	2J6E5												
Tamb	CC	IP	EER	CC	ΙP	EER	CC	IP	EER	CC	IP	EER	CC	ΙP	EER	CC	IP	EER									
LWC	7	7	7	14	14	14	18	18	18	7	7	7	14	14	14	18	18	18									
16	9,00	1,61	5,59	11,00	1,49	7,38	11,40	1,30	8,77	11,40	2,10	5,43	13,60	2,09	6,51	15,00	2,06	7,28									
25	9,00	2,00	4,50	12,60	2,38	5,29	10,50	1,54	6,82	12,00	2,87	4,18	15,70	3,60	4,36	14,00	2,56	5,47									
35	9,00	2,83	3,18	10,90	2,98	3,66	9,00	1,95	4,62	12,00	4,14	2,90	13,60	4,35	3,13	12,00	3,04	3,95									
43	7,20	3,26	2,21	8,70	3,23	2,69	7,30	2,43	3,00	10,30	4,89	2,11	11,80	4,98	2,37	10,40	3,72	2,80									
Outdoor				WH-N	MXC09	J3E8							WH-I	MXC12	2J9E8							WH-N	1XC16	J9E8			
Tamb	СС	IP	EER	CC	IP	EER	CC	IP	EER	CC	ΙP	EER	CC	IP	EER	CC	IP	EER	СС	ΙP	EER	СС	ΙP	EER	CC	ΙP	EEF
TWC	7	7	7	14	14	14	18	18	18	7	7	7	14	14	14	18	18	18	7	7	7	14	14	14	18	18	18

Tamb	CC	ΙP	EER	CC	IP	EER	CC	ΙP	EER	СС	IP	EER	CC	IP	EER	СС	IP	EER	CC	IP	EER	CC	IP	EER	CC	ΙP	EER
LWC	7	7	7	14	14	14	18	18	18	7	7	7	14	14	14	18	18	18	7	7	7	14	14	14	18	18	18
16	9,00	1,66	5,42	11,00	1,54	7,14	11,40	1,35	8,44	11,40	2,15	5,30	13,60	2,14	6,36	15,00	2,15	6,98	15,00	3,15	4,76	19,00	3,35	5,67	19,00	3,00	6,33
25	9,00	2,06	4,37	12,60	2,45	5,14	10,50	1,60	6,56	12,00	2,93	4,10	15,70	3,68	4,27	14,00	2,66	5,26	15,00	4,00	3,75	18,00	4,00	4,50	18,00	3,50	5,14
35	9,00	2,91	3,09	10,90	3,07	3,55	9,00	2,02	4,46	12,00	4,23	2,84	13,60	4,44	3,06	12,00	3,17	3,79	14,50	5,11	2,84	14,50	4,20	3,45	16,00	4,27	3,75
43	7,20	3,36	2,14	8,70	3,33	2,61	7,30	2,53	2,89	10,30	5,00	2,06	11,80	5,09	2,32	10,40	3,87	2,69	9,50	4,40	2,16	11,50	4,40	2,61	12,50	4,30	2,91

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW). This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Aquarea T-CAP Mono-bloc J Generation Single phase / Three phase. Heating and Cooling - MXC \cdot R32

Heating and cooling capacity tables

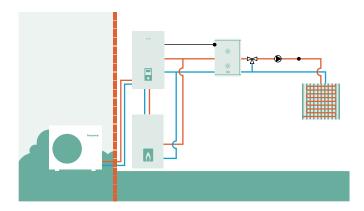
Based on outlet temperature and outside temperature.

WH-U	H09FE5	5																						
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	ΙP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55	60	60	60	65	65	65
-15	9,00	3,46	2,60	9,00	3,71	2,43	9,00	4,01	2,24	8,80	4,26	2,07	8,60	4,61	1,87	8,50	4,91	1,73	8,00	5,06	1,58	7,80	5,86	1,33
-7	9,00	3,06	2,94	9,00	3,29	2,74	9,00	3,56	2,53	8,90	3,83	2,32	8,90	4,11	2,17	8,90	4,46	2,00	8,90	4,96	1,79	8,90	5,46	1,63
2	9,00	2,43	3,70	9,00	2,61	3,45	9,00	2,91	3,09	9,00	3,21	2,80	9,00	3,55	2,54	9,00	3,88	2,32	9,00	4,35	2,07	9,00	4,76	1,89
7	9,00	1,82	4,95	9,00	1,94	4,64	9,00	2,21	4,07	9,00	2,46	3,66	9,00	2,76	3,26	9,00	3,06	2,94	9,00	3,46	2,60	9,00	3,96	2,27
16	9,00	1,46	6,16	9,00	1,56	5,77	9,00	1,81	4,97	8,90	2,02	4,41	8,80	2,31	3,81	8,60	2,52	3,41	8,20	2,77	2,96	8,20	3,18	2,58
25	12,00	1,66	7,23	12,00	1,76	6,82	12,00	2,01	5,97	10,80	2,14	5,05	10,60	2,46	4,31	10,20	2,66	3,83	9,80	2,89	3,39	9,60	3,31	2,90
WH-U	H12FE5	5																						
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55	60	60	60	65	65	65
-15	12,00	5,16	2,33	12,00	5,53	2,17	11,00	5,51	2,00	10,60	5,53	1,92	10,30	5,63	1,83	9,70	5,76	1,68	9,00	6,01	1,50	8,00	6,11	1,31
-7	12,00	4,43	2,71	12,00	4,76	2,52	11,50	4,91	2,34	11,20	5,06	2,21	10,80	5,16	2,09	10,10	5,28	1,91	10,00	5,66	1,77	9,60	5,91	1,62
2	12,00	3,42	3,51	12,00	3,68	3,26	11,50	3,86	2,98	11,30	4,14	2,73	11,00	4,51	2,44	10,80	4,86	2,22	10,65	5,31	2,01	10,30	5,59	1,84
7	12,00	2,52	4,76	12,00	2,69	4,46	12,00	3,06	3,92	12,00	3,44	3,49	12,00	3,81	3,15	12,00	4,28	2,80	12,00	4,76	2,52	12,00	5,41	2,22
16	12,00	2,03	5,91	12,00	2,17	5,53	12,00	2,52	4,76	12,00	2,86	4,20	11,50	3,19	3,61	11,50	3,48	3,30	11,00	3,82	2,88	11,00	4,37	2,52
25	12,00	1,66	7,23	12,00	1,76	6,82	12,00	2,01	5,97	11,80	2,41	4,90	11,20	2,64	4,24	10,80	2,86	3,78	10,50	3,11	3,38	10,30	3,62	2,85
WH-U	H09FE8	3																						
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55	60	60	60	65	65	65
-15	9,00	3,46	2,60	9,00	3,71	2,43	9,00	4,01	2,24	8,80	4,26	2,07	8,60	4,61	1,87	8,50	4,91	1,73	8,00	5,06	1,58	7,80	5,86	1,33
7	9,00	3,06	2,94	9,00	3,29	2,74	9,00	3,56	2,53	8,90	3,83	2,32	8,90	4,11	2,17	8,90	4,46	2,00	8,90	4,96	1,79	8,90	5,46	1,63
2	9,00	2,43	3,70	9,00	2,61	3,45	9,00	2,91	3,09	9,00	3,21	2,80	9,00	3,55	2,54	9,00	3,88	2,32	9,00	4,35	2,07	9,00	4,76	1,89
7	9,00	1,82	4,95	9,00	1,94	4,64	9,00	2,21	4,07	9,00	2,46	3,66	9,00	2,76	3,26	9,00	3,06	2,94	9,00	3,46	2,60	9,00	3,96	2,27
16	9,00	1,46	6,16	9,00	1,56	5,77	9,00	1,81	4,97	8,90	2,02	4,41	8,80	2,31	3,81	8,60	2,52	3,41	8,20	2,77	2,96	8,20	3,18	2,58
25	12,00	1,66	7,23	12,00	1,76	6,82	12,00	2,01	5,97	10,80	2,14	5,05	10,60	2,46	4,31	10,20	2,66	3,83	9,80	2,89	3,39	9,60	3,31	2,90
	H12FE8																							
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55	60	60	60	65	65	65
-15	12,00	5,16	2,33	12,00	5,53	2,17	11,00	5,51	2,00	10,60	5,53	1,92	10,30	5,63	1,83	9,70	5,76	1,68	9,00	6,01	1,50	8,00	6,11	1,31
7	12,00	4,43	2,71	12,00	4,76	2,52	11,50	4,91	2,34	11,20	5,06	2,21	10,80	5,16	2,09	10,10	5,28	1,91	10,00	5,66	1,77	9,60	5,91	1,62
2	12,00	3,42	3,51	12,00	3,68	3,26	11,50	3,86	2,98	11,30	4,14	2,73	11,00	4,51	2,44	10,80	4,86	2,22	10,65	5,31	2,01	10,30	5,59	1,84
7	12,00	2,52	4,76	12,00	2,69	4,46	12,00	3,06	3,92	12,00	3,44	3,49	12,00	3,81	3,15	12,00	4,28	2,80	12,00	4,76	2,52	12,00	5,41	2,22
16	12,00	2,03	5,91	12,00	2,17	5,53	12,00	2,52	4,76	12,00	2,86	4,20	11,50	3,19	3,61	11,50	3,48	3,30	11,00	3,82	2,88	11,00	4,37	2,52

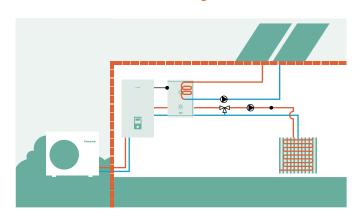
WH-MH	F09G3E5																	
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	9,00	3,46	2,60	9,00	3,71	2,43	9,00	4,01	2,24	8,80	4,26	2,07	8,50	4,71	1,80	7,80	5,38	1,45
-7	9,00	3,06	2,94	9,00	3,29	2,74	9,00	3,56	2,53	8,90	3,83	2,32	8,90	4,28	2,08	9,00	5,02	1,79
2	9,00	2,43	3,70	9,00	2,61	3,45	9,00	2,91	3,09	9,00	3,21	2,80	9,00	3,72	2,42	9,00	4,37	2,06
7	9,00	1,82	4,95	9,00	1,94	4,64	9,00	2,21	4,07	9,00	2,46	3,66	9,00	2,99	3,01	9,00	3,64	2,47
25	9,00	1,52	5,92	9,00	1,70	5,29	9,00	1,88	4,79	9,00	2,16	4,17	9,00	2,63	3,42	9,00	3,20	2,81
WH-MH	F12G6E5																	
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	12,00	5,16	2,33	12,00	5,53	2,17	11,00	5,51	2,00	10,80	5,49	1,97	9,70	5,52	1,76	8,00	5,61	1,43
-7	12,00	4,43	2,71	12,00	4,76	2,52	11,50	4,91	2,34	11,20	5,06	2,21	10,10	5,06	2,00	9,60	5,43	1,77
2	12,00	3,42	3,51	12,00	3,68	3,26	11,50	3,86	2,98	11,30	4,14	2,73	10,80	4,66	2,32	10,30	5,13	2,01
7	12,00	2,52	4,76	12,00	2,69	4,46	12,00	3,06	3,92	12,00	3,44	3,49	12,00	4,10	2,93	12,00	4,97	2,41
25	12,00	2,03	5,91	12,00	2,36	5,08	12,00	2,69	4,46	12,00	3,02	3,97	12,00	3,61	3,32	12,00	4,37	2,75

Examples of installations

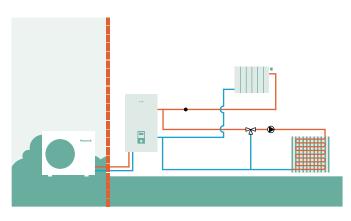
Aquarea J and H Generation:
Bivalent with buffer tank and mixing valve



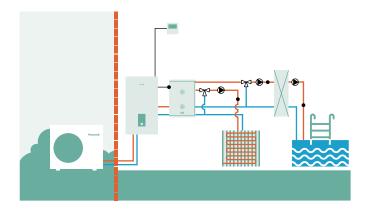
Aquarea J and H Generation:
Buffer tank with solar and mixing valve



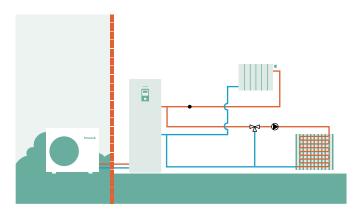
Aquarea J and H Generation:
2 zones with external kit without buffer tank



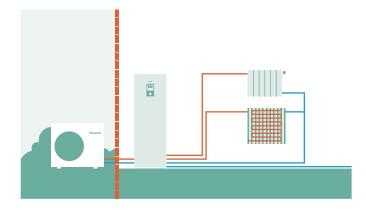
Aquarea J and H Generation:
2 zones with external kit, buffer tank and swimming pool



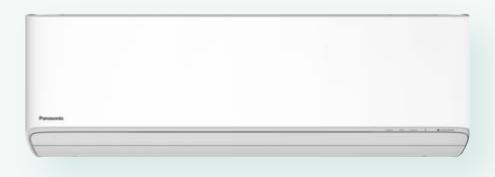
Aquarea All in One J and H Generation: 2 zones with external kit, without buffer tank



Aquarea All in One 2 zones J and H Generation: 2 zones built-in, without buffer tank



ETHEREA





→ 141
→ 142

→ 160

Panasonic domestic air to air heat pump

Panasonic has developed a range of products designed for you, better than ever before. Above all, it is also a range for air conditioning professionals, such as yourself, thanks to its broad range of products which are capable of conditioning rooms of all sizes – always with optimal efficiency and incomparable ease of installation.

Bringing nature's balance indoors Etherea with nanoe™ X technology Heatcharge. Energy Charge System → 102 Wall-mounted TZ super-compact Super-compact units Floor console Panasonic R2 rotary compressor R22 Renewal → 112 Welcome to the connected world of Panasonic Comfort Cloud App Voice Control Control and Connectivity Domestic air conditioner R32 range Wall-mounted Heatcharge VZ · R32 → 124
Heatcharge. Energy Charge System Wall-mounted TZ super-compact Super-compact units Floor console Panasonic R2 rotary compressor R22 Renewal Welcome to the connected world of Panasonic Comfort Cloud App Voice Control Control and Connectivity Domestic air conditioner R32 range > 102 Wall-mounted
Wall-mounted TZ super-compact → 104 Super-compact units → 108 Floor console → 108 Panasonic R2 rotary compressor → 110 R22 Renewal → 112 Welcome to the connected world of Panasonic Comfort Cloud App → 114 Voice Control → 118 Control and Connectivity → 120 Domestic air conditioner R32 range → 122 Wall-mounted Wall-mounted
Super-compact units Floor console Panasonic R2 rotary compressor R22 Renewal Welcome to the connected world of Panasonic Comfort Cloud App Voice Control Control and Connectivity Domestic air conditioner R32 range Wall-mounted
Floor console Panasonic R2 rotary compressor Panasonic R2 rotary compressor Panasonic R2 Renewal Panasonic Comfort Cloud App Voice Control Control and Connectivity Domestic air conditioner R32 range Panasonic Consolution Panasonic Comfort Cloud App Panasonic Comfort
Panasonic R2 rotary compressor R22 Renewal Welcome to the connected world of Panasonic Comfort Cloud App Voice Control Control and Connectivity Domestic air conditioner R32 range Wall-mounted
R22 Renewal → 112 Welcome to the connected world of Panasonic Comfort Cloud App → 114 Voice Control → 118 Control and Connectivity → 120 Domestic air conditioner R32 range → 122 Wall-mounted
Welcome to the connected world of Panasonic Comfort Cloud App → 114 Voice Control → 118 Control and Connectivity → 120 Domestic air conditioner R32 range → 122 Wall-mounted
Panasonic Comfort Cloud App Voice Control Control and Connectivity Domestic air conditioner R32 range → 122 Wall-mounted
Control and Connectivity → 120 Domestic air conditioner R32 range → 122 Wall-mounted
Domestic air conditioner R32 range → 122 Wall-mounted
Wall-mounted
Heatcharge VZ ⋅ R32 → 124
Etherea ⋅ R32 → 125
TZ super-compact ⋅ R32 → 126
BZ super-compact \cdot R32 \rightarrow 127
UZ super-compact ⋅ R32 → 128
PZ super-compact \cdot R32 \rightarrow 129

→ 130
→ 131
→ 132
→ 136
→ 137
→ 138
→ 140

More options for your home

Accessories and control

Multi TZ combinations table

Free Multi R32 combinations table











Highlighted features

Panasonic has developed a range of products designed for you, better than ever before.

With innovative design, high efficiency and advanced technologies, such as Panasonic Comfort Cloud App for smart control and nanoe™ X for indoor air quality improvement, the residential range has been designed with you and your clients in mind.







We believe that going green shouldn't compromise on comfort.

Our super silent air conditioners quarantee clean indoor air to take care of you and your family. For a cleaner living environment, the nanoe™ X helps improve the quality of the indoor air as well as your surroundings. Together, these breakthrough technologies embody Panasonic's Eco Clean Life Innovation - innovations that improve our environment whilst making life as comfortable as possible.

The Good Design Award is among the most prestigious awards for product design excellence. An "excellent design" indicated by Good Design Award is a design which focusses on humanity, honesty, innovation, aesthetics and ethics.

Panasonic's award-winning TZ proves to be a worthy addition to any home.



Energy saving

Refrigerant gas R32. Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential

(GWP). An important step to reduce greenhouse gases. R32 is also a component refrigerant, making it easy to recycle.



Exceptional seasonal cooling efficiency based on the ErP

regulation. Higher SEER ratings mean greater efficiency year-round cooling savings!



Exceptional seasonal heating efficiency based on the ErP regulation.

Higher SCOP ratings mean greater efficiency year-round heating savings!



ECONAVI

Econavi.

Sunlight Sensor technology can detect and reduce the waste of eneray by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.



Inverter Plus

Inverter Plus System classification highlights Panasonic's highest performing systems



Inverter.

The Inverter range provides greater efficiency and comfort. Provides more precise temperature control, without highs and lows, and keeps the ambient temperature constant with lower energy consumption and a significant reduction in noise and vibration levels



Panasonic R2 rotary compressor.

Designed to withstand extreme conditions, it delivers high performance and efficiency.

High performance and indoor air quality



nanoe™ X.

Technology with the benefits of hydroxyl radicals has the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise



PM2.5 filter.

Particulate matter (PM2,5) can be found suspended in the air. including dust, dirt, smoke and liquid droplets. This filter can catch PM2,5 particles including hazardous pollutants as well as house dust and pollen.



Dust Collection Filter.

This filter collects and retains particles suspended in the air. resulting in cleaner air in the room.



Super Quiet.

With Super Quiet technology our devices are quieter than a library (30 dB(A)).



Mild dry.

The humidity controls level the air to prevent over-drvness.



More comfort with Aerowings.

Direct air flow to the ceiling, creating a shower cooling effect with built-in twin flap



Static pressure up to 7 mmAa.

Low static pressure Hide Away RAC with selectable static pressure up to , 7 mmAq.



Filter included. Low static pressure Hide Away RAC with



COOLING MODE Down to -10 °C in

cooling mode. The air conditioner works in cooling mode when the outdoor temperature of -10 °C.



Down to -15 °C in heating mode.

The air conditioner works in heat pump mode when the outdoor temperature is as low as -15 °C



SUMMER HOUSE Summer House.

keeps the house at 8/10 or 8/15 °C to avoid freezing pipes during the winter. This function is beneficial for summer or weekend homes

This innovative function



R410A / R22 renewal.

The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing new high efficiency R32 systems.



5 Years compressor warranty.

We guarantee the compressors in the entire range for five years

High connectivity



Domestic integration to P-Link -CZ-CAPRA1.

Can connect RAC range to P-Link. Full control is now possible.



Wi-Fi control.

A next generation system providing userfriendly control of air conditioning or heat pump units from everywhere, using a simple Android™ or iOS smartphone or tablet via Wi-Fi.



BMS connectivity.

The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic heat pump to your home or building management system.



Bringing nature's balance indoors

(+) **C**•nanoe X

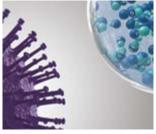
nanoe™ X, technology with the benefits of hydroxyl radicals.

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise, nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be.

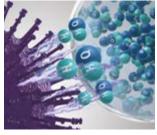


Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent - hydroxyl radicals - indoors to help create an ideal environment

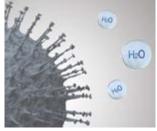
Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



1 | nanoe[™] X reliably reaches pollutants.



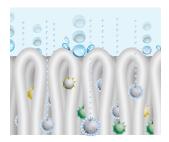
2 | Hydroxyl radicals denature pollutants



3 | Pollutants activity is inhibited.

What is unique about nanoe™ X?

Effective on fabrics and surfaces.



1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

Longer lifespan.



2 | Contained in tiny water particles, nanoe™ X has a longer lifespan to spread easily around the room.

Huge quantity.



3 | nanoe X Generator Mark 2 produces 9,6 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

Maintenance-free.



The image shows nanoe X Generator Mark 2.

4 | No maintenance, no replacement required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titatium.

7 effects of nanoe™ X - Panasonic unique technology

Deodorises

Capacity to inhibit 5 types of pollutants

Moisturises















Tidzai dodo Sabotaneco

* Refer to https://aircon.panasonic.eu for more details and validation data.

nanoe™ X, internationally-validated technology in testing facilities

The effectiveness of nanoe™ X technology has been tested by 3rd party laboratories in Germany, France, Denmark, Malaysia and Japan.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

Test results conducted under controlled laboratory conditions. Performance of nanoe™ X might differ in real life environment.

	Tes	ted contents	Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Bacteriophage ФX174	99,7 % inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
Airb	Bacteria	Staphylococcus aureus	99,9 % inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	2016_0279
		SARS-CoV-2	91,4 % inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	99,9 % inhibited	45 L	2 h	Texcell (France)	1140-01 A1
	Virus	Xenotropic murine leukemia virus	99,999 % inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	_
ered		Influenza (H1N1 subtype)	99,9 % inhibited	1 m³	2 h	Kitasato Research Center for Environmental Science	21_0084_1
Adhered		Bacteriophage ФX174	99,80% inhibited	25 m³	8 h	Japan Food Research Laboratories	13001265005-01
	Bacteria	Staphylococcus aureus	99,9 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Ambrosia pollen	99,4 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Odours	Cigarette smoke odour	Odour intensity reduced by 2,4 levels	Approx. 23 m ³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N0

First nanoe™ device was developed by Panasonic in 2003

Generator

nanoe™
2003
480 billion hydroxyl radicals/sec

Mark 1 - 2016

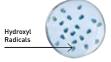
Mark 2 - 2019

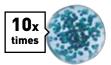
nanoe™ X

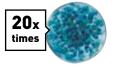
4,8 trillion hydroxyl radicals/sec

9,6 trillion hydroxyl radicals/sec

Ion particle structure







nanoe™ X: improving protection 24/7



Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long. nanoeTM X works together with heating or cooling function when you are at home and can work independently when you are away.

Give the air conditioning the strength to increase the protection at home with nanoe $^{\text{TM}}$ X technology and convenient control via the Panasonic Comfort Cloud App.



Improving

Cleans the air when you are away.

Leave the nanoe™ mode ON to inhibit certain pollutants and deodorise before you return home.

Improves your environment when you are at home.

Enjoy a cleaner, comfortable space with loved ones.

Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment



Etherea.
Built-in nanoe X Generator Mark 2.



Floor console.

Built-in nanoe X Generator Mark 1.





Etherea with nanoe™ X technology

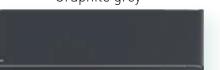
A smart solution to keep your home clean, comfortable and welcoming
The smart, new Etherea comes with nanoe™ X technology with the benefits of hydroxyl
radicals. With advanced control options, class-leading performance, a stylish design
and intelligent features, Etherea is designed to make your home comfortable, clean
and the ideal place to be.



Available in 3 colors.

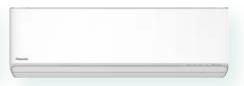
ETHEREA

Graphite grey





Silver



Matt white

NEW COLOR



Air quality

- · nanoe $^{\text{TM}}$ X technology with the benefits of hydroxyl radicals
- Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long

Smart control

- · Built-in Wi-Fi
- · Advanced control via smartphone
- · Compatible with Google Assistant and Amazon Alexa

High efficiency

 Top class energy efficiency up to A+++ in heating and cooling

> Improving Protection

> > 24/7

Ultimate comfort

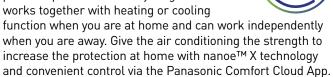
- · Aerowings 2.0, end-to-end vanes enhance comfortable air flow
- · Super quiet ambient

New design

- NEW! Available in Matt white, Silver and Graphite grey color
- · Stylish, monolithic design
- Chassis and parts designed for easier installation and servicing
- · High class, easy-to-use remote control with backlight

nanoe™ X: Improving protection 24/7

Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long. nanoeTM X works together with heating or cooling



Cleans the air when you are away.

Leave the nanoe $^{\text{TM}}$ mode ON to inhibit certain pollutants and deodorise before you return home.

Improves your environment when you are at home.

Enjoy a cleaner, comfortable space with loved ones.

Technology for the ultimate comfort

Introducing the Aerowings 2.0 to the Etherea range.

Panasonic's Aerowings technology consists of two independent flexible vanes that concentrate air flow to heat or cool a room in the shortest time possible and helps distribute air evenly throughout a room. Thanks to the larger sub vane (72 mm), which is more than doubled in size than other conventional designs, the ability to lift air flow has been further improved.







Aerowings 2.0 has a new shower cooling feature which allows air flow to be concentrated evenly towards the ceiting to achieve comfortable cooling across a room, showering gently down into a room rather than one area subject to a continuous icy blast.



2.0 releases a concentrated air flow downwards to achieve an effect similar to floor heating the air, which rises and fills the room.

•nanoe X

Sleek design with easy-to-use remote controller

Panasonic has meticulously designed a new Etherea for a sleek and stylish solution to blend with any interior. Its elegant monolithic design is robust and allows for a high-performance air conditioner, with a large air discharge area to optimise performance.

The easy-to-use remote controller features an ergonomic design with tapered rear housing for the most comfortable grip. The new controller's intuitive design provides easy operation with five quick access keys for convenient use. The controller also has a minimalist design with the less frequently used keys concealed under a sliding cover.





Heatcharge. Energy Charge System

Energy class A +++ and offers maximum comfort and energy savings. This powerful air heat pump is designed for commercial and residential climate that places extremely high demands on the heating system.





heatcharge



SEE PRODUCT SPECIFICATIONS

Powerful, reliable heating even at low ambient winter temperatures

When the air conditioner is operating, the compressor, which is the power supply of the unit, generates heat.

Until now, this heat was released into the atmosphere. Panasonic has utilised this waste heat!

Constant heating.

Using stored heat provides stable heating with less drop in temperature.

Even when heating operation stops during defrost operation, stored heat continues to constantly warm the room. This eliminates the previous discomfort due to the temperature dropping when heating temporarily stops to ensure stable air conditioner heating.

Panasonic's full line-up of A+++ heat pumps

In response to the Kyoto Protocol, the European Union set some challenging targets for the reduction in greenhouse-gas emissions. By the year 2020, across the member states, the EU wants to have achieved the following objectives:

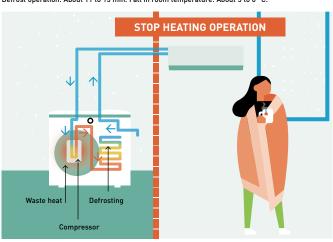
- · A 20 % cut in greenhouse gas emissions (from 1990 base levels)
- The share of renewables in the energy mix to increase by 20 %
- · An overall reduction of 20 % in energy consumption

Comfort and efficiency

- nanoe[™] technology with the benefits of hydroxyl radicals
- · Higher efficiency and comfort with Econavi sunlight detection and human activity detection
- · Powerful air flow to quickly reach the desired temperature

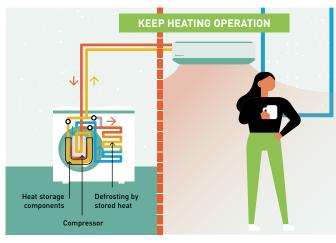
Conventional. The room gradually becomes cold.

Defrost operation: About 11 to 15 min. Fall in room temperature: About 5 to 6 °C.

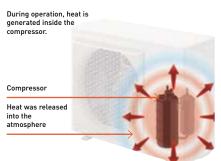


Heatcharge. The room is thoroughly warmed.

Defrost operation: About 5 to 6 min. Fall in room temperature: About 1 to 2 °C.



Conventional.



Heatcharge.

Heat generated by the compressor is stored inside and used to warm the refrigerant to efficiently increase heating power.

Waste heat is "charged" and used effectively



Heatcharge.

The compressor is wrapped and exhaust heat is used for charging.

Heatcharge tank. Waste heat from the compressor is stored.

Finless heat exchanger. Stored heat is converted to energy.



* Defrost operation time and how low room temperature falls differ depending on the environment in which the unit is being used (how insulated and airtight the room is), operation conditions, and temperature falls during defrost operation. How low room temperature falls differs depending on the environment in which the unit is being used (how insulated and airtight the room is), operation conditions, and temperature conditions. In environments where a lot of frost accumulates, heating may stop during defrost operation.



Wall-mounted TZ super-compact

The perfect air conditioner for the smallest spaces in your home. TZ with R32 refrigerant powerful and efficient.



DOMESTIC INDEX DOMESTIC





An "excellent design" indicated by Good Design Award is a design which focusses on humanity, honesty, innovation, aesthetics and ethics. Panasonic's award-winning TZ proves to be a worthy addition to any home.



SEE PRODUCT SPECIFICATIONS

Super-compact design

The compact design of the indoor units have a width of just 779 mm. This allows for more installation possibilities, including the limited space above a door

Meticulously designed for both installer and user benefit, installation time of the TZ has been dramatically decreased.

The inner workings of the unit have also been redesigned to make maintenance quicker and easier. Electronics and wiring components are now on just one side of the unit to simplify maintenance.



Built-in Wi-Fi and compatible with Voice Assistant
The unit is ready to connect to the internet and to be

controlled by smartphone with Panasonic Comfort Cloud App. Control, monitor, and schedule with easy interface.

By connecting Panasonic Comfort Cloud App the unit can be managed by the Google Assistant or Amazon Alexa*.

* Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates Google, Android, Google Play and Google Home are trademarks of Google LLC.

PM2,5
Particulate matter (PM2,5) can be found suspended in the air, including dust, dirt, smoke and liquid droplets. The filter can catch PM2,5 particles including hazardous pollutants as well as house dust and pollen and is able to maintain

Stylish infrared control

the air quality of the room.

Enjoy innovative design at your fingertips with the stylish and sleek Backlit Sky Controller. Bigger screen and easier to use.



Silent ambient and relaxing atmosphere 20 dB(A)

We have succeeded in making one of the most silent air conditioners on the market. Panasonic Inverter air conditioner's indoor operating noise has been reduced as the Inverter constantly varies its output power to enable more precise temperature control.

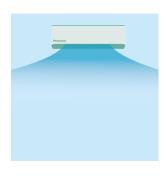
* 2,5 and 3,5 kW models: In the Quiet Mode during cooling operation with low fan speed.

Aerowings

Panasonic's Aerowings feature incorporates two independent blades that concentrate air flow to cool you down in the shortest time possible. This also helps distribute cool air evenly throughout the room.

Superior air flow control.

Aerowings features two independent blades that give you more control over the direction of the air flow. Without Aerowings, with direct air flow, the target never changes, so you can easily begin to feel too cold as you are subjected to the continuous icy blast.



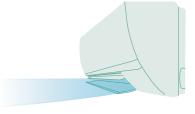
Comfort that goes on and on with Shower Cooling.

When the Aerowings twin blades direct air towards the ceiling they create the Shower Cooling effect.

Panasonic Air Conditioners with Aerowings feature an indoor design with wider intake grille and super-high fan speed to produce bigger air flow.

For Shower Cooling.

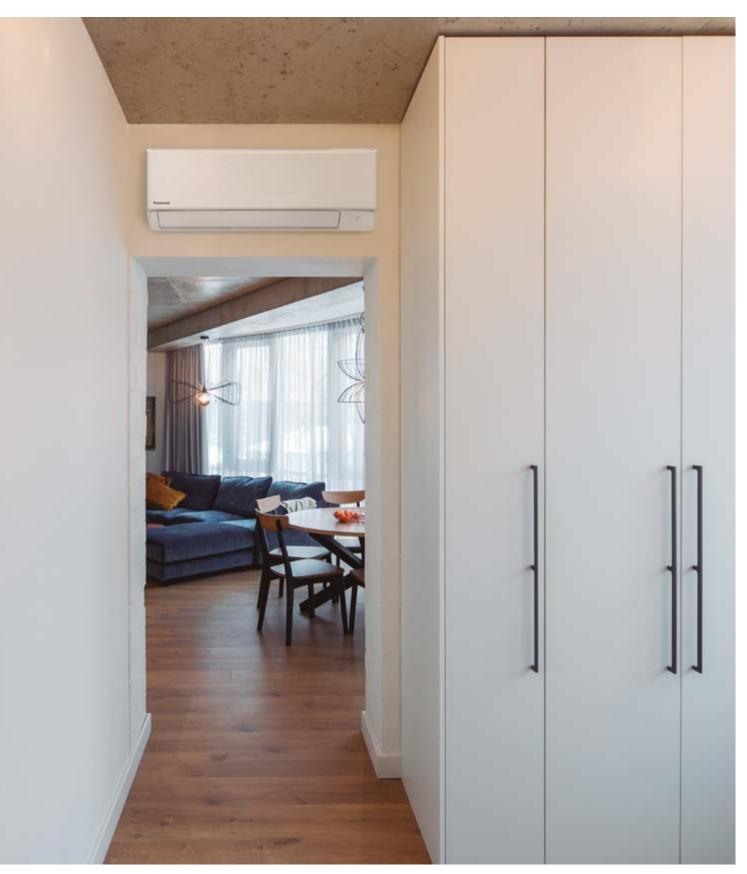
This ensures cool air is evenly distributed throughout the room and you can stay comfortable without experiencing continuous direct cooling.



Wall-mounted indoor units, designed for simple installation and maintenance

The full range of wall-mounted indoor units has been carefully designed for simple, stress-free installation and ongoing maintenance.

* Not applicable to V





FEATURE AVAILABLE IN ETHEREA, TZ, **BZ, UZ AND PZ**

Simple installation

Thanks to advanced improvements, installation time has been dramatically decreased. The models have been designed to provide more stability and strength for neat installation, with newly built-in support and convenient access to the drain hose, cabling inserts and larger space for secure installation.

Easy maintenance

Meticulously designed for both installer and user benefit, the unit features an easy to remove front grille for convenient access to the interior. The inner workings of the unit have also been redesigned to make maintenance quicker and easier. Electronics and wiring components are now on just one side of the unit to simplify maintenance.



 ${\bf 1.\ Stronger\ installation\ plate}.$

The models feature a stronger, solid installation plate that provides more stability and strength. For uneven surfaces, there are 2 additional screws to ensure a neat and secure installation

Installation plate: Strong and solid.



Screw holder for uneven surface (screws not provided).



5. Easy wire insertion and tightening.

The models have combined 2 wire inserts into 1, ensuring front visibility and convenience while inserting wires from the back.

Single tunnel: easy

Bigger working space for wiring connection.



2. One-piece front grille.

The model comes with a one-piece front grille design to make servicing easier. First, open the intake grille and remove the screws. Next, slide the three slider locks and remove the front grille.

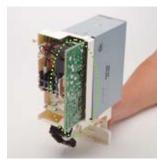
One-piece front grille: Easy removal.



6. Easy removal of PCB.

PCB removal is achieved in just 4 easy steps. Simply remove the control board cover, disconnect all connectors from the indicator. disconnect all connectors and pull out the main PCB.

Simple steps for PCB removal.



3. Built-in support holder.

The model features a built-in support holder, making installation easier and providing convenience and workspace improvements.

Convenient installation and



7. Easy / hidden installation of the Wi-Fi adapter.

The latest model features a dedicated space for a network adapter. Easy to plug in, the guided wire slots allow for clear, easy installation and can be neatly tucked away - simple and out of sight!

* Only for models without built-in network

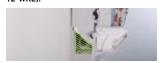


4. Easy access to drain hose and piping connection.

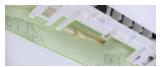
With larger piping space, pipes and insulations are securely and neatly hidden.

With the visible piping storage, pipes can easily be inspected for leaks without lifting the unit.

Piping storage: up to 15 % larger (for TZ-WKE).



Bigger working space



8. Cross flow fan removal.

The models are carefully designed to make removal of cross flow fans easier compared to the previous models, saving valuable time.

Bigger diameter: up to Ø105 (for Z-XKE).





Floor console. Efficient comfort and clean air all year round

Floor console with new nanoe™ X technology: outstanding efficiency A++, comfort (Super Quiet technology only 20 dB(A)) and better air quality combined in a breakthrough design.









The iF Product Design Awards are among the most prestigious awards for product design excellence. Winning the award thanks to its highly intelligent functionality, the Panasonic Floor console is the ideal air-conditioning system for domestic and commercial applications.



SEE PRODUCT SPECIFICATIONS

nanoe™ X: Bringing nature's balance indoors

Panasonic's nanoe™ X technology brings nature's detergent – hydroxyl radicals – indoors to help improve protection 24/7 against several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen or hazardous substances.

The nanoe $^{\text{TM}}$ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect (see page 99 for more detail). nanoe $^{\text{TM}}$ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

Superquiet operation

When the system reaches its set temperature, the unit will operate at only 20 dB(A). Creating a comfortable home is not only by temperature - a quiet atmosphere is also important.

Designed to follow the high European demands
Super quiet operation, highly efficient and technology to help clean the air.

Double air flow for improved comfort and temperature dispersion: through the top for an efficient operation



Stylish infrared control

Enjoy innovative design at your fingertips with the stylish and sleek Backlit Sky Controller. Bigger screen and easier to use



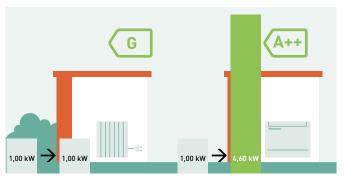
Easy to integrate into your home

A breakthrough design that integrates perfectly with any style. We have carefully selected materials and processes to create an elegant design. Compact in size and with a stylish design, the floor console will easily integrate into your home's interior decoration. There are four options available:

Floor installation Wall installation Half concealed Concealed

High energy efficiency class A++

The floor console brings the outdoor heat energy inside. Can provide heat inside even when it is -15 °C outside.



* SCOP on heating mode for Floor console Type KIT-Z25-UFE and KIT-Z35-UFE compared with electrical heaters at +7 °C.

The perfect solution for the replacement of old boiler heating systems







Panasonic R2 rotary compressor

The secret is flexibility. Panasonic Inverter air conditioners have the flexibility to vary the rotation speed of the compressor. This allows it to use less energy to maintain the set temperature while also being able to cool the room quicker at start up.

So you can enjoy better savings on your electricity bills while maintaining cooling comfort.



DOMESTIC INDEX DOMESTIC

Making the world a cooler place since 1978

Panasonic rotary compressors for room air conditioners have been installed in the most demanding environments around the world. Designed to withstand extreme conditions, Panasonic Rotary delivers high performance, efficiency and reliable service, no matter where you are. Panasonic, the world's largest manufacturer of rotary compressors.

Why is the Panasonic R2 rotary compressor so efficient?

- 1. High efficiency motor. The premium silicon steel motor meets industry efficiency requirements.
- 2. Improved lubrication of high volume oil pump. The extended, high volume oil pump in conjunction with a larger capacity oil reservoir provides superior lubrication.
- 3. Accumulator has larger refrigerant capacity. The larger accumulator accommodates generous refrigerant amounts needed in longer line length installations.



* This image is for 5,0 / 7,1 kW.

R2 compressor value

About R2 compressor.

Built upon 36 years of compressor design and production experience, R2 is the next generation of rotary compressors for residential central air conditioning. The technology improvements, enhanced materials and simple design ensure R2 compressors are reliable, efficient and quiet. The R2 compressor delivers quality, comfort and peace of mind in homes around the world. Panasonic's Rotary Compressors have been life tested in some of the world's most demanding environments and the R2 design is the compressor of choice by contractors and homeowners in these challenging climates. For the high performance that home-owners demand, R2 rotary compressors are considered by the industry experts.

Leading technology.

Used in over 80 % of cooling solutions globally, rotary is the world's dominant residential air conditioning compression technology. Panasonic is the leading rotary and residential AC compressor manufacturer in the world, with over 200 million compressors produced.

Benefits.

Central air conditioning delivered with a Panasonic R2 rotary compressor ensures a superior level of comfort at an economical cost.

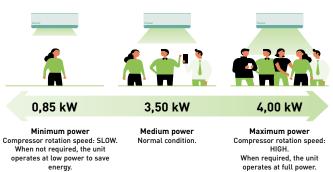
Inverter technology

Great energy-saving performance. Reduces electricity consumption.

Panasonic Inverter air conditioners are designed to give you exceptional energy savings and performance. At the start up of an air conditioner's operation, a boost in power is required to reach the set temperature. After the set temperature is reached, less power is required to maintain it. The Panasonic Inverter air conditioner varies the rotation speed of the compressor. This provides a highly precise method of maintaining the set temperature.

Constant comfort.

Precise temperature control with a wide power output range enables an inverter air conditioner to meet different room occupancy levels – thus ensuring constant comfort.

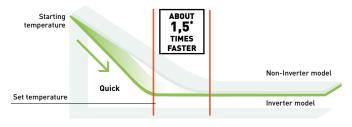


* Graph shows the 3,5 kW Inverter model's wide power output range during cooling

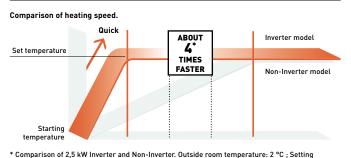
Quick comfort.

Panasonic Inverter air conditioners can operate with higher power during the start up period to cool the room 1,5 times faster and heat the room 4 times faster than non-Inverter models.

Comparison of cooling speed.



* 3,5 kW Inverter vs. non-Inverter. Outside room temperature: 35 °C; setting temperature: 25 °C.



temperature: 25 °C.

R22 Renewal. Panasonic standard units can be installed on existing R22 pipings

Change your old air conditioning system to a more efficient system!



An important drive to further reduce the potential damage to our ozone

- · All Panasonic standard SKE, TKE and UKE units can be installed on existing R22 pipings
- · No need for additional accessories (only pipe reductions)
- · Approximately 30 % energy savings compared to R22 units

Panasonic is doing its part

We at Panasonic are also doing our part – recognising that all finances are under pressure at the moment. Panasonic has developed a clean and cost effective solution to enable this latest legislation to be introduced with as minimum an effect on businesses and cash reserves as possible.

The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing new high efficiency R410A / R32 systems.

By bringing a simple solution to the problem Panasonic can renew all Split Systems and PACi systems; and depending upon certain restrictions we don't even limit the manufacturer's equipment we are replacing.

By installing a new high efficiency Panasonic R410A / R32 system you can benefit from around 30 % running cost saving compared to the R22 system.

Yes...

- 1. Check the capacity of the system you wish to replace
- 2. Select from the Panasonic range the best system to replace it with
- 3. Follow the procedure detailed in the brochure and technical data Simple...

R22 - The reduction of Chlorine critical for a cleaner future.



Guidance on re-using existing R22 piping for a new R410A / R32 installation

1. Precaution.

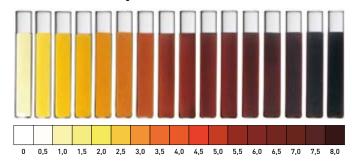
The existing R22 piping can be re-used for a R410A / R32 system installation if the following conditions are met and the piping are finally verified to be:

- · Dry (no moisture remaining in the piping)
- · Clean (no dust remaining in the piping)
- · Tight (no refrigerant leak at the joining and piping)

2. Conditions.

- Recover the refrigerant and oil.
- Operate "force cooling" according to the recommended operation time, regardless of the piping length. Single split: 10 min. Multi split: 30 min. After that, carry out "pump down" to recover the refrigerant and oil from the existing R22 system
- Note: If pump down operation is not possible due to the malfunction of the system, flush and wash the existing piping to collect back the oil and dirt inside the system.
- \cdot Check the oil condition. If the oil contains dirt, wash the existing pipes
- Check the oil colour. After pump down, use a cotton bud to wipe the oil from the existing pipe. If the oil colour is higher than ASTM3, use a new pipe as re-use of old piping is not allowed
- Check pipe thickness. Make sure that the pipe thickness is more than 0,8 mm. If the thickness is less than 0,8 mm, use a new pipe
- · Rework the flare for R410A / R32 connection. Do not reuse the old flare nuts

Deterioration Criteria for Refrigerant Oil



Make sure to use the new flare nuts attached to the R410A / R32 system.

3. Applicable Model.

Panasonic single split room air conditioner from CS/CU-RE/UE/YE/XE/CE/NE/E*NKE and PKE series onwards. Panasonic multi split room air conditioner from CU-2E/3E/4E/5PBE series onwards.

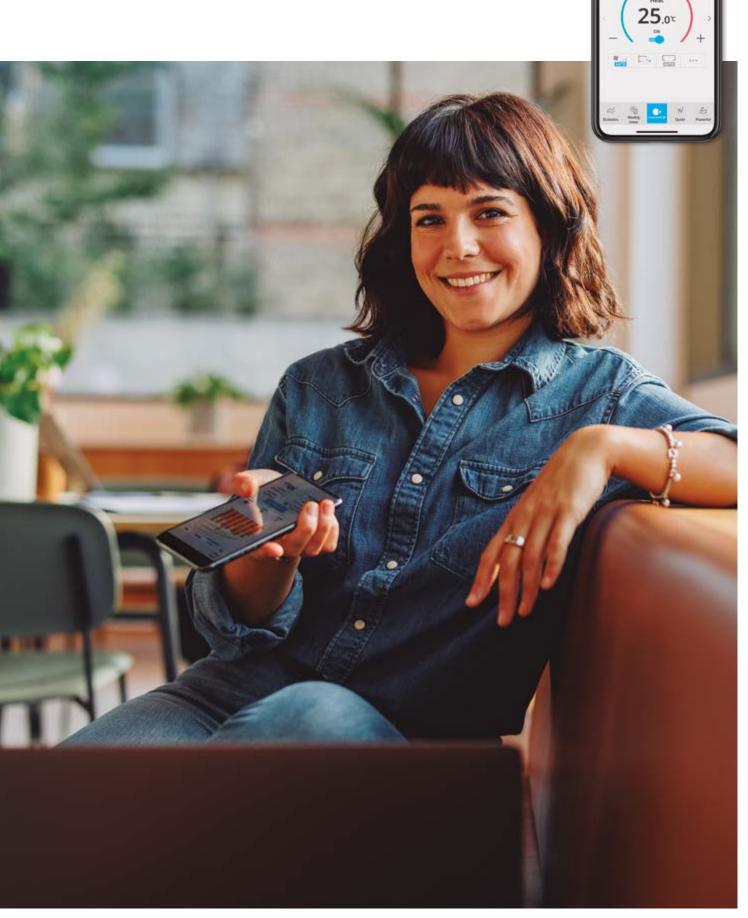
		Liquid		1/4 (6,35)	
		Gas	3/8 (9,52)	1/2 (12,70)	5/8 (15,88)
	16 / 20 / 25 / 35	1,6 - 3,5 kW	V	A	×
Split	42 / 50 / 60	4,2 - 6,0 kW	×	V	A
	71	6,8 - 7,5 kW	×	×	V

- Standard piping connection with current piping length and refrigerant charge rules.
- ▲ This combinations is allowed respecting maximum piping length and refrigerant charged declared in model installed as new.
- This combinations is not allowed as it is out of piping diameter.

^{*} Note: If the existing piping size is 1/4" (6,35 mm) and 1/2" (12,7 mm), and the new R410A / R32 system is 1/4" (6,35 mm) and 3/8" (9,52 mm), use a pipe reducer connected at indoor and outdoor unit.

Welcome to the connected world of Panasonic Comfort Cloud App

Whether you are at home, at the office or running a business, Panasonic Comfort Cloud put total control of your indoor air quality at your fingertips.



The Panasonic Comfort Cloud Application enables you to conveniently manage and monitor multiple air conditioning units for homes from just one mobile device. Also, energy monitoring is possible allowing opportunity to learn how to reduce the operating cost even more.

- · Connectable up to 200 units* with just 1 device
- · Compatible for both residential and commercial applications

















Smart control

In control of cooling comfort anytime, anywhere.

- · Control multiple units in 1 group (up to 20 units per group and up to 10 different groups)
- · Control multiple units in multiple locations

Smart comfort

Easily manage your comfort and air quality.

- · Remotely access all AC features
- · Activate 24-hour nanoe™ X 1
- · Pre-heat or cool spaces

1) nanoe $^{\text{TM}}$ X is available in certain series.





Smart efficiency

More comfort with less wasted energy.

- · Analyze energy usage patterns 2)
- · Compare usage history for better budget planning

2) Estimated energy consumption data accuracy depends on power supply quantity.

Smart assist

Be informed of breakdowns.

- · Assign other users while you are away
- · Effortless troubleshooting 3)

3) Contact trained technicians to perform any repairing / service.



Panasonic Comfort Cloud App connectable up to 200 units. 20 units per group.



The smartest way to bring convenience to your living space (living room, bedroom, study room...) and business (spa, schools, restaurants...).



New possibilities, new applications.

Families.

Different users can be set up, such as each child can manage their own room. In second homes, rooms can be remotely pre-cooled or pre-warmed, or turned off if needed.

Multi tenant owner.

The ability to manage up to 200 units with just one smartphone. It allows for quick and efficient maintenance through remote error codes and the knowledge of consumption.

Small and medium sized offices.

Owner can control different rooms of the office easily and give unit by unit access to their staff. Also provides information to know where energy might be wasted for heating and cooling and promoting best comfort practices.

Experience what Panasonic Comfort Cloud App can do for you and for your commercial spaces

Quick access to preset operations.

Panasonic Comfort Cloud App comes with many different preset modes (auto, heat, cool, dry, nanoe)*. Choose the best mode that suits your lifestyle or your business space.

Pre-heat your home before arriving.

After a hectic day outside, when you depart for home, precool or pre-heat it before arriving and be greeted with a welcoming home.

Conveniently turn ALL ON / OFF.

Never have to worry about individually switching ON / OFF your air conditioner units. You can now do it with a single tap of a button.

Monitor your energy consumption.

Monitor and compare your air conditioner energy consumption across different time intervals such as daily, weekly, monthly and yearly.

^{*} Available mode depends on your model.

Clean the air of your home all day long with nanoe™ X. Activate nanoe™ X technology with the with the benefits of hydroxyl radicals.





Smart control at your fingertips

With Panasonic Comfort Cloud App, the user can manage all functions of the heat pump such as nanoe™ X, air flow direction, speed, temperature setting, mode, plus more.

Energy monitor and statistics

Knowing the energy each unit uses when operating is key to see opportunities to reduce the energy bill. Panasonic Comfort Cloud App stores the energy consumption* of each unit, which can then be shown in easy and powerful statistics graphs.

With the weekly timer the operation can be adjusted to optimise the usage of the energy.

- * Estimated energy consumption data accuracy depends on power supply quality.
 ** This function is available from XKE, WKE, VKE, TKE and UKE generation.

nanoe™ X: improving protection 24/7

Improve the protection of your living spaces at all hours of the day. Turn nanoe™ X on or off easily with "One-touch nanoe™ button" on the main screen. Panasonic Comfort Cloud App includes a nanoe™ X Concentration Simulator to see how the nanoe™ X particles fulfill the room.

* Only for units compatible with nanoe™ X function. The Concentration Simulator is beta version covering limited patterns of simulation results







Connection diagram



Download free app: Panasonic Comfort Cloud App.

Other hardware requirements: Router and Internet (purchase and subscribe separately).

Built-in Wi-Fi in certain models or with optional adaptor CZ-TACG1 connected to port CN-CNT.
Panasonic Cloud Server is designed, operated and managed by Panasonic.







Built-in Wi-Fi.

CS-XZ**XKEW-H, CS-Z**YKEA, CS-Z**XKEW, CS-MZ16XKE, CS-XZ**XKEW, CS-Z**VKEW, CS-MZ16VKE, CS-XZ**VKEW, CS-TZ**WKEW and CS-RZ**WKEW.

Optional CZ-TACG1 Wi-Fi accessory required.

CS-BZ**XKE, CS-FZ**WKE, CZ-UZ**WKE, CS-PZ**WKE, CS-UZ**VKE, CS-PZ**VKE, CS-FZ**UKE, CS-MZ20UFEA, CS-Z**UFEAW, CS-Z**UB4EAW, CS-MZ20UD3EA, CS-Z**UD3EAW and CS-VZ**SKE.

Optional CZ-CAPWFC1 Wi-Fi accessory or CONEX CZ-RTC6BLW remote controller required.

S-**PY3E and S-M20PY3E,

Remark: indoor temperature display and some special functions are not available through the app for all models. Languages: Available in 19 European languages: Bulgarian, Croatian, Czech, Danish, Deutsch, English, Estonian, Finnish, French, Greek, Hungarian, Italian, Norwegian, Polish, Portuguese, Slovenian, Spanish, Swedish and Turkish.



Voice Control. Words do more than actions

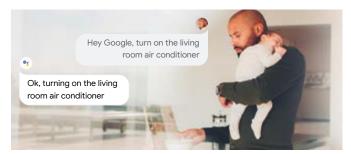
Control without boundaries and get hands-free help to fully access the features of your air conditioners. Maximising your cooling comfort is now a breeze with our Network-Enabled air conditioners with Panasonic Comfort Cloud App and Voice Control.



Turn ON / OFF air conditioner

Convenient control for blissful rest.

Turn ON / OFF AC with ease when preparing a comfortable space for your little ones.



Change mode

Extra help when you have a hectic day.

Conveniently change your AC operation mode to cool / heat / auto when your hands are full.



Adjust temperature

Easy control for uninterrupted quality time.

Adjust AC temperature to your comfort with a simple voice command.



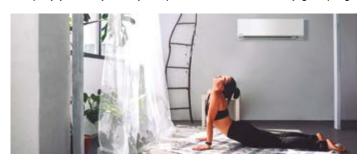
Check current status
Hands-free comfort for the whole family.
Easy access for the elderly to check current AC operation status and adjust AC settings.



DOMESTIC INDEX **DOMESTIC**

Get multiple things done with your voice

Simplify your day with your personalised routine by grouping individual actions.





Schedule your routine with your voice.

With the routine function, you can customise voice commands and control multiple voice-controlled devices including our network-enabled air conditioners to help you with your personalised routine.

Example of morning routine.



Example of night routine.



Find out more: [Amazon] https://www.techhive.com/article/3327501/how-to-use-alexa-routines.html

Voice Control with Network-Enabled air conditioners

Functions		When you	are home	When away from home
Functions		Remote Control	Voice Control	Comfort Cloud App
	Power ON / OFF	~	V	~
C	Control multiple units in 1 location	-	_	✓
Smart control	Control multiple units in multiple locations	_	_	~
	Set up and manage routines	<u> </u>	✓	_
	Cooling mode	~	V	~
	Heating mode	✓	✓	✓
	Auto mode	·	V	V
Smart comfort	nanoe™ X mode	~	_	~
	Summer House mode	·	_	V
	Pre-cool	-	_	~
	Change temperature	·	V	V
C	Analyse energy usage patterns	-	_	~
Smart efficiency	Compare historical usage	_	_	~
	Receive error notifications	-	_	~
	Assign multiple users		V	~
C	Check power ON / OFF	· ·	V	V
Smart assist	Check current mode	V	V	V
	Check temperature settings	· ·	V	V
	Check room temperature	V	V	V

Seamless set up in 3 simple steps

Set up your Panasonic Comfort Cloud App.



Set up your Google Nest Mini or Amazon Echo devices and app.



Link your Google Nest Mini or Amazon Echo with Panasonic Comfort Cloud App.



















Compatible device and browsers as of June 2020

- 1. Android™ 5.0 Lollipop or above
- 2. iOS 9.0 or above

Please note:

- · This is not a definitive list of all compatible devices, other similar devices which use supported Operating Systems should also work either via dedicated apps. Please note that user experience may vary slightly depending on hardware and software combination Google, Android, Google Play and Google Home are trademarks of Google LLC. Google Assistant is not available in certain languages and countries Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates

- Availability of Voice Assistant services varies depending on country and language

 More information about set up procedures: https://aircon.panasonic.com/connectivity/application.html
- Google Assistant and Alexa are compatible with the models shown in pages 122, 123





Control and connectivity

Panasonic offers its customers cutting-edge technology, specially designed to ensure our air conditioning systems deliver even higher performance.



CZ-TACG1 network adaptor (optional)*

- · Optional RAC network adaptor
- · Compact size for easy installation
- · Available for built-in or exposed installation depending on model type.

^{*} Functionality varies depending on models. Please contact your local dealers for compatible models.



Specifications

Input Voltage	DC 12V	
Power Consumption	Max. 660 mW	
Size [HxWxD]	66 x 36 x 12 mm	
Mass	Approx. 85g	
Interface	1 x Wireless LAN	
Wireless LAN Standard	IEEE 802,11 b/g/n	
Frequency Range	2,4GHz band	
Encryption	WPA2-PSK (TKIP/AES)	

Domestic integration to P-Link - CZ-CAPRA1

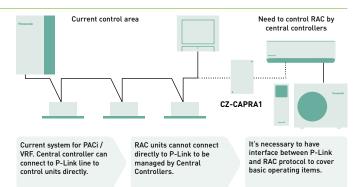
Can connect RAC range to P-Link. Full control is now possible.

Integrates any unit in big system control.

- · YKEA server room integration 1)
- · Small offices with domestic indoors
- Tender for refurbishment (old system Domestic and VRF in one installation)

1) When duty rotation using the remote controller is set up, $\operatorname{CZ-CAPRA1}$ cannot be connected.





Basic operation items: ON / OFF, Mode select, Temperature setting, Fan speed, Flap setting, Remote control prohibit.

External input: ON / OFF control signal, Abnormal stop signal.

External output for Relay 11. Operation status (ON / OFF). Alarm

External output for Relay 11: Operation status (ON / OFF), Alarm status output.

1) Because current CN-CNT connector can not provide the power for external output relay, additional Input power for external relay is necessary.





You can properly manage the air conditioning and perform comprehensive monitoring and control, with all of the features the remote controller provides at home, from anywhere in the world thanks to the internet applications Panasonic has created for you.

Connectivity. Control by BMS

Great flexibility for integration into your KNX, Modbus and BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters.

Reference	KNX PAW-AC-KNX-1i	Modbus [®] PAW-AC-MBS-1	®BACnet ™ PAW-AC-BAC-1 ¹⁾
Quick installation and possibility of hidden installation	~	~	~
External power not required	✓	✓	V
Direct connection to the AC indoor unit	✓ (Split or multi split)	✓ (Split or multi split)	✓ (Split or multi split)
Control and monitoring of the internal variables of the indoor unit and error codes and indication	✓ Fully compatible	✓ Fully compatible ✓ Fully compatible	
Use the AC ambient temperature or the one measured by external sensor	V	V	Only internal temperature
AC unit can be controlled simultaneously by the remote controller of the AC unit and interface devices	v	v	V
Advanced control functions	✓	✓	V
4 binary inputs. They work as standard interface binary inputs as well as being used to control the AC directly	V	×	×
Total Control and Supervision. Real states of the AC unit's internal variables	V	V	V

¹⁾ This interface allows a complete and natural integration of Panasonic air conditioners into either BACnet IP or MS/TP networks. Is a BTL certified device.

PAW-AC-DIO

Dry contact ON / OFF Interface. Panasonic has developed for hotels applications a dry contact PCB which works with Etherea, RE, UE and YE indoor units in order to control simply the unit centrally.

- \cdot ON / OFF signal by 3rd party BMS
- · PCB connected to CN-RMT port on indoor unit PCB

Easy connectivity

CN-CNT port easy to access in all indoor units, without dismanteling the unit to reach the connector. Can easier connect: Wireless accessory / KNX / Modbus / CZ-TACG1 / CZ-CAPRA1 to integrate to PACi control.





Interface
Wi-Fi adapter for smart control via Panasonic Comfort Cloud App
RAC interface adapter for integration into P-Link, plus external input and alarm/status output
This interface can be used with all models which have a CN-CNT connector
This interface can be used with all models which have a CN-CNT connector

Model name	Interface
PAW-AC-BAC-1	This interface can be used with all models which have a CN-CNT connector
PAW-AC-HEAT-1	Heating only PCB for Etherea and low static pressure hide-away
PAW-AC-DIO	This interface can be used with all models which have a CN-RMT connector
PAW-SMSCONTROL	Control of the Etherea, Flagship and Heatcharge by SMS (need additional SIM card)

Domestic air conditioner R32 range

Page	Single split units	2,0 kW	2,5 kW	3,5 kW	4,2 kW	5,0 kW	6,0 kW	7,1 kW
D 42/	Wall-mounted Heatcharge VZ Inverter+ · R32							
P. 124	_		CS-VZ9SKE CU-VZ9SKE	CS-VZ12SKE CU-VZ12SKE				
	Wall-mounted Etherea Inverter+ · R32							
D 405	*	CS-XZ20XKEW-H CU-Z20XKE	CS-XZ25XKEW-H CU-Z25XKE	CS-XZ35XKEW-H CU-Z35XKE				
P. 125		CS-XZ20XKEW CU-Z20XKE	CS-XZ25XKEW CU-Z25XKE	CS-XZ35XKEW CU-Z35XKE		CS-XZ50XKEW CU-Z50XKE		
	_	CS-Z20XKEW CU-Z20XKE	CS-Z25XKEW CU-Z25XKE	CS-Z35XKEW CU-Z35XKE	CS-Z42XKEW CU-Z42XKE	CS-Z50XKEW CU-Z50XKE		CS-Z71XKEW CU-Z71XKE
D 42/	Wall-mounted TZ super- compact Inverter · R32							
P. 126		CS-TZ20WKEW CU-TZ20WKE	CS-TZ25WKEW CU-TZ25WKE	CS-TZ35WKEW CU-TZ35WKE	CS-TZ42WKEW CU-TZ42WKE	CS-TZ50WKEW CU-TZ50WKE	CS-TZ60WKEW CU-TZ60WKE	CS-TZ71WKEW CU-TZ71WKE
P. 127	NEW Wall-mounted BZ super-compact Inverter · R32							
F. 127			CS-BZ25XKE CU-BZ25XKE	CS-BZ35XKE CU-BZ35XKE		CS-BZ50XKE CU-BZ50XKE	CS-BZ60XKE CU-BZ60XKE	
P. 128	Wall-mounted UZ super- compact Inverter · R32							
P. 120	7		CS-UZ25WKE CU-UZ25WKE	CS-UZ35WKE CU-UZ35WKE		CS-UZ50WKE CU-UZ50WKE		
P. 129	Wall-mounted PZ super- compact Inverter · R32							
F. 127			CS-PZ25WKE CU-PZ25WKE	CS-PZ35WKE CU-PZ35WKE		CS-PZ50WKE CU-PZ50WKE		
	Floor console Inverter+ · R32							
P. 130			CS-Z25UFEAW CU-Z25UBEA	CS-Z35UFEAW CU-Z35UBEA		CS-Z50UFEAW CU-Z50UBEA		
	Low static pressure hide- away Inverter · R32							
P. 131			CS-Z25UD3EAW CU-Z25UBEA	CS-Z35UD3EAW CU-Z35UBEA		CS-Z50UD3EAW CU-Z50UBEA	CS-Z60UD3EAW CU-Z60UBEA	

DOMESTIC INDEX R32 DOMESTIC

Configure in a few steps your multi split system with our online tool.





Page	Free Multi indoors	1,6 kW	2,0 kW	2,5 kW	3,5 kW	4,2 kW	5,0 kW	6,0 kW	7,1 kW
	Wall-mounted Etherea Inverter+								
	*		CS-XZ20XKEW-H	CS-XZ25XKEW-H	CS-XZ35XKEW-H				
P. 135			CS-XZ20XKEW	CS-XZ25XKEW	CS-XZ35XKEW		CS-XZ50XKEW		
		CS-MZ16XKE	CS-Z20XKEW	CS-Z25XKEW	CS-Z35XKEW	CS-Z42XKEW	CS-Z50XKEW		CS-Z71XKEW
P. 135	Wall-mounted TZ super-compact Inverter								
P. 135		CS-MTZ16WKE	CS-TZ20WKEW	CS-TZ25WKEW	CS-TZ35WKEW	CS-TZ42WKEW	CS-TZ50WKEW	CS-TZ60WKEW	CS-TZ71WKEW
	Floor console Inverter+								
P. 135	-		CS-MZ20UFEA	CS-Z25UFEAW	CS-Z35UFEAW		CS-Z50UFEAW		
	NEW 4 Way 60x60 cassette Inverter								
P. 135			S-M20PY3E CZ-KPY4	S-25PY3E CZ-KPY4	S-36PY3E CZ-KPY4		S-50PY3E CZ-KPY4	S-60PY3E CZ-KPY4	
	Low static pressure hide-away Inverter								
P. 135			CS-MZ20UD3EA	CS-Z25UD3EAW	CS-Z35UD3EAW		CS-Z50UD3EAW	CS-Z60UD3EAW	

Page	Free Multi outdoors	3,2 ~ 6,0 kW	3,2 ~ 6,0 kW	3,2 ~ 7,7 kW	4,5 ~ 9,5 kW	4,5 ~ 11,2 kW	4,5 ~ 11,5 kW	4,5 ~ 14,7 kW	4,5 ~ 18,3 kW
P. 134	Outdoor unit Free Multi System Z · R32	CU-2Z35TBE	CU-2Z41TBE	CU-2Z50TBE	CU-3Z52TBE	CU-3Z68TBE	CU-4Z68TBE	CU-4Z80TBE	CU-5Z90TBE

Page	Multi Wall TZ outdoors	3,2~6,0 kW	3,2~7,7 kW	4,5 ~ 9,5 kW
P. 136	Outdoor unit Multi TZ for wall TZ indoors · R32	CU-2TZ41TBE	CU-2TZ50TBE	CU-3TZ52TBE







Wall-mounted Heatcharge VZ Inverter+ · R32

- · Energy Charge System. Heat storage unit which utilizes non-stop heating and fast heating function
- · Econavi Sunlight Detection sensor: Even higher efficiency and great comfort
- · nanoe™ technology to improve protection 24/7
- · Super Quiet! Only 18 dB(A), equivalent to night-time in the countryside
- · Performance tested at -35 °C outdoor temperature

Kit			KIT-VZ9-SKE	KIT-VZ12-SKE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,60 - 3,00)	3,50 (0,60 - 4,00)
SEER 1)			10,50 A+++	10,00 A+++
Pdesign (cooling)		kW	2,50	3,50
Input power	Nominal (Min-Max)	kW	0,43 (0,14 - 0,61)	0,80 (0,14 - 0,98)
Annual energy consumption 3		kWh/a	83	122
Heating capacity	Nominal (Min-Max)	kW	3,60 (0,60 - 7,80)	4,20 (0,60 - 9,20)
COP 2)		W/W	5,63	5,04
Heating capacity at -7 °C		kW	5,00	5,60
COP at -7 °C 2)		W/W	2,07	2,00
SCOP 1)			6,20 A+++	5,90 A+++
Pdesign at -10 °C		kW	3,60	4,20
Input power	Nominal (Min-Max)	kW	0,64(0,14-2,72)	0,83(0,14-3,16)
Annual energy consumption 3		kWh/a	812	995
Indoor unit			CS-VZ9SKE	CS-VZ12SKE
Power supply		V	230	230
Recommended fuse		Α	16	16
Connection indoor / outdoor		mm²	4 x 1,5	4 x 1,5
Air flow	Cool / Heat (Hi)	m³/min	12,5/15,5	12,9/15,9
Sound pressure 4]	Cool (Hi / Lo / Q-Lo)	dB(A)	44/27/18	45/33/18
	Heat (Hi / Lo / Q-Lo)	dB(A)	44/26/18	45/29/18
Dimension	HxWxD	mm	295 x 798 x 375	295 x 798 x 375
Net weight		kg	14,5	14,5
Outdoor unit			CU-VZ9SKE	CU-VZ12SKE
Air flow	Cool / Heat (Hi)	m³/min	33,1/33,1	35,4/33,9
Sound pressure 4)	Cool / Heat (Hi)	dB(A)	49/49	50/50
Dimension 5)	HxWxD	mm	630×799×299	630 x 799 x 299
Net weight		kg	39,5	39,5
Piping diameter -	Liquid pipe	Inch (mm)	1/4(6,35)	1/4 (6,35)
——————————————————————————————————————	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)
Pipe length range		m	3~15	3~15
Elevation difference (in / out)		m	12	12
Pipe length for additional gas		m	7,5	7,5
Additional gas amount		g/m	20	20
Refrigerant (R32) / CO ₂ Eq.		kg / T	1,05/0,70875	1,10/0,7425
Operating range -	Cool Min ~ Max	°C	-10~+43	-10~+43
Operating range	Heat Min ~ Max	°C	-30~+24	-30~+24
Lowest outdoor temperature teste	ed by 3rd party laboratory ^{6]}	°C	-35	-35

1) Energy Label Scale from A+++ to D. 2) EER and COP calculation is based in accordance to EN14511. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. For outdoor unit 1 m in front and 1 m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70 mm for piping port. 6) Tested by 3rd party laboratory, SP, according to EN14511:2013 and SP Method 1721, this temperature is not guaranteed by Factory.

Accessories	
CZ-TACG1	Wi-Fi adapter for smart control via Panasonic Comfort Cloud App

Accessories	
CZ-CAPRA1	RAC interface adapter for integration into P-Link
PAW-SMSCONTROL	Control by SMS (need additional SIM card)





































Wall-mounted Etherea Inverter+ · R32

- · nanoe™ X technology to improve protection 24/7
- · New sleek and stylish design, in Matt white, Silver and Graphite grey color
- · Improved SEER / SCOP to achieve top class energy efficiency
- · Aerowings 2.0 for the ultimate comfort
- · New easy-to-use remote controller
- · Built-in Wi-Fi for instant connectivity via Panasonic Comfort Cloud App
- \cdot Compatible with Google Assistant and Amazon Alexa
- · Chassis and parts designed for easier installation

New Kit Graphite gro	ey*		KIT-XZ20-XKE-H	KIT-XZ25-XKE-H	KIT-XZ35-XKE-H	_	_	_
Kit Silver	· ·		KIT-XZ20-XKE	KIT-XZ25-XKE	KIT-XZ35-XKE	_	KIT-XZ50-XKE	_
Kit Matt white		-	KIT-Z20-XKE	KIT-Z25-XKE	KIT-Z35-XKE	KIT-Z42-XKE	KIT-Z50-XKE	KIT-Z71-XKE
Cooling capacity	Nominal (Min - Max)	kW	2,05 (0,75 - 2,65)	2,50 (0,85 - 3,50)	3,50 (0,85 - 4,20)	4,20 (0,85 - 5,00)	5,00 (0,98 - 6,00)	7,10 (0,98 - 8,50)
EER 1)	Nominal (Min - Max)	W/W	4,56 (4,69 - 3,96)	4,90 (5,00 - 3,89)	4,12 (4,25 - 3,62)	3,39 (3,62 - 3,18)	3,68(3,92-3,16)	3,17(2,33 - 2,83)
SEER 2)	· · · · · · · · · · · · · · · · · · ·		8,10 A++	9,40 A+++	9,50 A+++	7,00 A++	8,50 A+++	6,50 A++
Pdesign (cooling)		kW	2,1	2,5	3,5	4,2	5,0	7,1
Input power	Nominal (Min - Max)	kW	0,45 (0,16 - 0,67)	0,51 (0,17 - 0,90)	0,85 (0,20 - 1,16)	1,24(0,24-1,57)	1,36 (0,25 - 1,90)	2,24(0,42-3,00)
Annual energy consu	ımption ^{3]}	kWh/a	91	93	129	210	206	382
Heating capacity	Nominal (Min - Max)	kW	2,80 (0,75 - 4,00)	3,40 (0,80 - 4,80)	4,00 (0,80 - 5,50)	5,30 (0,80 - 6,80)	5,80 (0,98 - 8,00)	8,20 (0,98 - 10,20)
Heating capacity at -	7 °C	kW	2,38	2,80	3,20	4,11	4,80	6,31
COP 1)	Nominal (Min - Max)	W/W	4,52 (4,69 - 4,26)	4,86 (5,00 - 4,07)	4,44 (4,44 - 3,77)	3,68(4,21-3,66)	4,14(4,26-3,35)	3,69 (2,45 - 3,29)
SCOP 2)			4,80 A++	5,20 A+++	5,20 A+++	4,20 A+	4,80 A++	4,20 A+
Pdesign at -10 °C		kW	2,1	2,4	2,8	3,6	4,2	5,5
Input power	Nominal (Min - Max)	kW	0,62 (0,16 - 0,94)	0,70 (0,16 - 1,18)	0,90(0,18-1,46)	1,44 (0,19 - 1,86)	1,40 (0,23 - 2,39)	2,22(0,40-3,10)
Annual energy consu	Imption 3]	kWh/a	613	646	754	1200	1225	1833
Indoor unit Graphite	grey		CS-XZ20XKEW-H	CS-XZ25XKEW-H	CS-XZ35XKEW-H	<u> </u>	_	_
Indoor unit Silver			CS-XZ20XKEW	CS-XZ25XKEW	CS-XZ35XKEW	_	CS-XZ50XKEW	_
Indoor unit Matt whi	te	-	CS-Z20XKEW	CS-Z25XKEW	CS-Z35XKEW	CS-Z42XKEW	CS-Z50XKEW	CS-Z71XKEW
Power supply		٧	230	230	230	230	230	230
Recommended fuse		Α	16	16	16	16	16	20
Connection indoor / o	outdoor	mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5	4 x 2,5
Air flow	Cool / Heat	m³/min	11,7/13,0	12,7/14,1	12,7/14,7	14,4/15,4	17,4/19,1	19,0/19,9
Moisture removal vol	lume	L/h	1,3	1,5	2,0	2,4	2,8	4,1
	Cool (Hi / Lo / Q-Lo)	dB(A)	37/24/19	39/25/19	42/28/19	43/31/25	44/37/30	47/38/30
Sound pressure 4	Heat (Hi / Lo / Q-Lo)	dB(A)	38/25/19	41/27/19	43/33/19	43/35/29	44/37/30	47/38/30
Dimension	HxWxD	mm	295 x 870 x 229	295 x 1040 x 244	295 x 1040 x 244			
Net weight		kg	10	10	11	10	12	14
nanoe X Generator			Mark 2					
Outdoor unit			CU-Z20XKE	CU-Z25XKE	CU-Z35XKE	CU-Z42XKE	CU-Z50XKE	CU-Z71XKE
Air flow	Cool / Heat	m³/min	27,4/26,7	28,7/27,2	29,8/30,6	29,8/30,9	39,8/36,9	44,7/45,8
Sound pressure 4)	Cool / Heat (Hi)	dB(A)	45/46	46/47	48/50	49/51	47/47	52/54
Dimension 5]	HxWxD	mm	542 x 780 x 289	695 x 875 x 320	695×875×320			
Net weight		kg	25	27	30	30	40	50
B	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4(6,35)
Piping diameter	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2(12,70)	1/2 (12,70)	5/8 (15,88)
Pipe length range		m	3~15	3~15	3~15	3~15	3~30	3~30
Elevation difference l	(in / out)	m	15	15	15	15	15	20
Pipe length for additi	ional gas	m	7,5	7,5	7,5	7,5	7,5	10
Additional gas amou	nt	g/m	10	10	10	10	15	25
Refrigerant (R32) / C	0 ₂ Eq.	kg / T	0,67/0,45	0,80/0,54	0,89/0,60	0,95/0,64	1,13/0,76	1,35/0,91
0	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43
Operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24

Accessories	
CZ-CAPRA1	RAC interface adapter for integration into P-Link
PAW-SMSCONTROL	Control by SMS (need additional SIM card)

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console





































Wall-mounted TZ super-compact · R32

- · Compact and elegant design with only 779 mm wide
- Built-in Wi-Fi for instant connectivity via Panasonic Comfort Cloud App
- · Compatible with Google Assistant and Amazon Alexa
- · Stylish Sky remote controller
- · Cleaner air with PM2,5 filter
- · Super Quiet! Only 20 dB(A)
- · Aerowings to control air draft direction
- · High energy savings

Kit			KIT-TZ20-WKE	KIT-TZ25-WKE	KIT-TZ35-WKE	KIT-TZ42-WKE	KIT-TZ50-WKE	KIT-TZ60-WKE	KIT-TZ71-WKE
Cooling capacity	Nominal (Min - Max)	kW	2,00 (0,75 - 2,40)	2,50(0,85-3,00)	3,50 (0,85 - 3,90)	4,20 (0,85 - 4,60)	5,00(0,98-5,60)	6,00 (0,98 - 6,60)	7,10(0,98-8,20)
EER 1)	Nominal (Min - Max)	W/W	4,08 (4,17 - 4,00)	3,85(4,05-3,41)	3,57 (3,62 - 3,36)	3,36(3,62-2,80)	3,13 (3,92 - 2,95)	3,24(3,92-2,87)	3,17(2,33-2,98)
SEER 2)			7,00 A++	7,00 A++	6,80 A++	6,40 A++	6,90 A++	6,80 A++	6,20 A++
Pdesign (cooling)		kW	2,00	2,50	3,50	4,20	5,00	6,00	7,10
Input power	Nominal (Min - Max)	kW	0,49 (0,18 - 0,60)	0,65(0,21-0,88)	0,98 (0,24 - 1,16)	1,25(0,24-1,64)	1,60 (0,25 - 1,90)	1,85 (0,25 - 2,30)	2,24(0,42-2,75)
Annual energy consu	umption 3)	kWh/a	100	125	180	230	254	309	401
Heating capacity	Nominal (Min - Max)	kW	2,70 (0,70 - 3,60)	3,30(0,80-4,10)	4,00 (0,80 - 5,10)	5,00(0,80-6,80)	5,80 (0,98 - 7,50)	7,00 (0,98 - 8,20)	8,60(0,98-9,90)
Heating capacity at -	-7 °C	kW	2,14	2,70	3,30	3,90	4,62	4,90	6,13
COP 1)	Nominal (Min - Max)	W/W	4,15 (4,24 - 3,53)	4,18(4,21-3,66)	4,04 (4,10 - 3,70)	3,73 (4,10 - 3,33)	3,41 (4,67 - 3,26)	3,68 (4,67 - 3,57)	3,51(2,45-3,47)
SCOP 2)			4,60 A++	4,60 A++	4,60 A++	4,00 A+	4,50 A+	4,30 A+	4,00 A+
Pdesign at -10 °C		kW	1,90	2,40	2,80	3,60	4,00	4,40	5,50
Input power	Nominal (Min - Max)	kW	0,65 (0,17 - 1,02)	0,79 (0,19 - 1,12)	0,99 (0,20 - 1,38)	1,34(0,20-2,04)	1,70 (0,21 - 2,30)	1,90 (0,21 - 2,30)	2,45 (0,40 - 2,85)
Annual energy consu	umption ³⁾	kWh/a	578	730	852	1260	1244	1433	1925
Indoor unit			CS-TZ20WKEW	CS-TZ25WKEW	CS-TZ35WKEW	CS-TZ42WKEW	CS-TZ50WKEW	CS-TZ60WKEW	CS-TZ71WKEW
Power supply		٧	230	230	230	230	230	230	230
Recommended fuse		Α	16	16	16	16	16	20	20
Connection indoor /	outdoor	mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5	4 x 2,5	4 x 2,5
Air flow	Cool / Heat	m³/min	10,3/10,8	11,0/11,5	11,8/12,3	12,5/13,2	12,5/13,2	20,9/21,9	22,1/22,9
Moisture removal vo	lume	L/h	1,3	1,5	2,0	2,4	2,8	3,3	4,1
Sound pressure 43	Cool (Hi / Lo / Q-Lo)	dB(A)	37/25/20	40/26/20	42/30/20	44/31/29	44/37/33	45/37/34	47/38/35
Sound pressure	Heat (Hi / Lo / Q-Lo)	dB(A)	38/26/22	40/27/22	42/33/22	44/35/28	44/37/33	45/37/34	47/38/35
Dimension	HxWxD	mm	290 x 779 x 209	302 x 1102 x 244	302 x 1102 x 244				
Net weight		kg	8	8	8	8	8	13	13
Outdoor unit			CU-TZ20WKE	CU-TZ25WKE	CU-TZ35WKE	CU-TZ42WKE	CU-TZ50WKE	CU-TZ60WKE	CU-TZ71WKE
Air flow	Cool / Heat	m³/min	29,7/29,7	30,0/28,9	28,7/29,7	30,4/30,8	32,7/32,7	34,0/34,0	44,7/45,9
Sound pressure 4)	Cool / Heat (Hi)	dB(A)	46/47	47/48	48/50	49/51	48/49	49/51	52/54
Dimension 53	HxWxD	mm	542 x 780 x 289	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320			
Net weight		kg	24	25	31	31	36	36	50
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4(6,35)	1/4 (6,35)	1/4 (6,35)	1/4(6,35)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8(9,52)	3/8 (9,52)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8 (15,88)
Pipe length range		m	3~15	3~15	3~15	3~15	3~20	3~30	3~30
Elevation difference	(in / out)	m	15	15	15	15	15	15	20
Pipe length for addit	ional gas	m	7,5	7,5	7,5	7,5	7,5	10	10
Additional gas amou	int	g/m	10	10	10	10	15	15	25
Refrigerant (R32) / C	CO ₂ Eq.	kg / T	0,54/0,365	0,67/0,452	0,77/0,520	0,79/0,533	1,14/0,770	1,22/0,824	1,32/0,891
Operating range	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43
operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24

Accessories	
CZ-CAPRA1	RAC interface adapter for integration into P-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console

































NEW Wall-mounted BZ super-compact Inverter - R32

- · Compact design with only 779 mm wide
- · Cleaner air with PM2,5 Filter
- · Super Quiet! Only 20 dB(A)
- · Aerowings to control air draft direction
- · High energy savings
- · Cooling even at -10 °C
- · Optional internet and voice control

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Kit			KIT-BZ25-XKE	KIT-BZ35-XKE	KIT-BZ50-XKE	KIT-BZ60-XKE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,40 (0,85 - 3,90)	5,00 (0,98 - 5,40)	6,00 (0,98 - 6,50)
EER 1]	Nominal (Min - Max)	W/W	3,68 (4,05 - 3,33)	3,18 (3,54 - 3,05)	3,03 (3,92 - 2,90)	3,03 (3,92 - 2,83)
SEER 2)			6,20 A++	6,10 A++	6,50 A++	6,30 A++
Pdesign (cooling)		kW	2,50	3,40	5,00	6,00
Input power	Nominal (Min - Max)	kW	0,68 (0,21 - 0,90)	1,07 (0,24 - 1,28)	1,65 (0,25 - 1,86)	1,98 (0,25 - 2,30)
Annual energy consumption 33		kWh/a	141	195	269	333
Heating capacity	Nominal (Min - Max)	kW	3,15 (0,80 - 3,60)	3,84 (0,80 - 4,40)	5,40 (0,98 - 7,50)	6,80 (0,98 - 8,00)
Heating capacity at -7 °C		kW	2,14	2,60	4,58	5,10
COP 1)	Nominal (Min - Max)	W/W	4,06 (4,21 - 3,46)	3,69 (4,10 - 3,41)	3,42 (4,67 - 3,06)	3,16 (4,26 - 3,02)
SCOP 2)			4,20 A+	4,20 A+	4,10 A+	4,00 A+
Pdesign at -10 °C		kW	1,90	2,40	4,00	4,40
Input power	Nominal (Min - Max)	kW	0,78 (0,19 - 1,04)	1,04(0,20-1,29)	1,58 (0,21 - 2,45)	2,15(0,23-2,65)
Annual energy consumption 3)		kWh/a	633	800	1366	1540
Indoor unit			CS-BZ25XKE	CS-BZ35XKE	CS-BZ50XKE	CS-BZ60XKE
Power supply		V	230	230	230	230
Recommended fuse		Α	16	16	16	20
Connection indoor / outdoor		mm²	4 x 1,5	4 x 1,5	4 x 2,5	4 x 2,5
Air flow	Cool / Heat	m³/min	10,5/11,1	10,8/11,3	12,5/13,2	12,7/13,6
Moisture removal volume		L/h	1,5	2,0	2,8	3,3
0 1 0	Cool (Hi / Lo / Q-Lo)	dB(A)	37/26/20	38/30/20	44/37/34	45/37/34
Sound pressure 4)	Heat (Hi / Lo / Q-Lo)	dB(A)	37/27/24	38/33/25	44/37/34	45/37/34
Dimension	HxWxD	mm	290 x 779 x 209			
Net weight		kg	8	8	8	9
Outdoor unit			CU-BZ25XKE	CU-BZ35XKE	CU-BZ50XKE	CU-BZ60XKE
Air flow	Cool / Heat	m³/min	30,4/30,4	31,1/31,1	32,7/32,7	42,6/41,5
Sound pressure 4)	Cool / Heat (Hi)	dB(A)	48/49	48/50	48/49	50/50
Dimension 5)	HxWxD	mm	542 x 780 x 289	542 x 780 x 289	619 x 824 x 299	695×875×320
Net weight		kg	24	25	36	43
Di i ii i	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4(6,35)	1/4 (6,35)	1/4(6,35)
Piping diameter	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2(12,70)	1/2(12,70)
Pipe length range		m	3~15	3~15	3~15	3~30
Elevation difference (in / out)		m	15	15	15	15
Pipe length for additional gas		m	7,5	7,5	7,5	7,5
Additional gas amount		g/m	10	10	15	15
			0.51.10.01	0.47/0.45	1 1 / / 0 77	1,11/0,75
Refrigerant (R32) / CO ₂ Eq,		kg / T	0,54/0,36	0,67/0,45	1,14/0,77	1,11/0,/3
Refrigerant (R32) / CO ₂ Eq, Operating range	Cool Min ~ Max	kg / T °C	-10~+43	-10~+43	-10~+43	-10~+43

Accessories	
CZ-TACG1	Wi-Fi adapter for smart control via Panasonic Comfort Cloud App
CZ-CAPRA1	RAC interface adapter for integration into P-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console



































Wall-mounted UZ super-compact Inverter - R32

- · Compact design with only 779 mm wide
- · Dust Collection Filter
- · Super Quiet! Only 20 dB(A)
- · Aerowings to control air draft direction
- · High energy savings
- · Cooling even at -10 °C
- · Optional internet and voice control

Kit			KIT-UZ25-WKE	KIT-UZ35-WKE	KIT-UZ50-WKE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,30 (0,85 - 3,80)	5,00 (0,98 - 5,30)
EER 1)	Nominal (Min - Max)	W/W	3,68 (4,05 - 3,33)	3,20 (3,54 - 3,06)	3,03 (3,92 - 2,93)
SEER 2)			6,20 A++	6,10 A++	6,50 A++
Pdesign (cooling)		kW	2,50	3,30	5,00
Input power	Nominal (Min - Max)	kW	0,68 (0,21 - 0,90)	1,03 (0,24 - 1,24)	1,65 (0,25 - 1,81)
Annual energy consumption	1 3]	kWh/a	141	189	269
Heating capacity	Nominal (Min - Max)	kW	3,00 (0,80 - 3,50)	3,70 (0,80 - 4,30)	5,40 (0,98 - 7,40)
Heating capacity at -7 °C		kW	2,08	2,54	4,52
COP 1)	Nominal (Min - Max)	W/W	4,05 (4,21 - 3,47)	3,70 (4,10 - 3,44)	3,42 (4,67 - 3,08)
SCOP 2)			4,10 A+	4,10 A+	4,10 A+
Pdesign at -10 °C		kW	1,90	2,40	4,00
Input power	Nominal (Min - Max)	kW	0,74 (0,19 - 1,01)	1,00 (0,20 - 1,25)	1,58 (0,21 - 2,40)
Annual energy consumption	1 ^{3]}	kWh/a	649	820	1366
Indoor unit			CS-UZ25WKE	CS-UZ35WKE	CS-UZ50WKE
Power supply		٧	230	230	230
Recommended fuse		А	16	16	16
Connection indoor / outdoor	r	mm²	4 x 1,5	4 x 1,5	4 x 2,5
Air flow	Cool / Heat	m³/min	10,5/11,1	10,8/11,3	12,5/13,2
Moisture removal volume		L/h	1,5	1,9	2,8
C	Cool (Hi / Lo / Q-Lo)	dB(A)	37/26/20	38/30/20	44/37/34
Sound pressure 4	Heat (Hi / Lo / Q-Lo)	dB(A)	37/27/24	38/33/25	44/37/34
Dimension	HxWxD	mm	290 x 779 x 209	290 x 779 x 209	290 x 779 x 209
Net weight		kg	8	8	8
Outdoor unit			CU-UZ25WKE	CU-UZ35WKE	CU-UZ50WKE
Air flow	Cool / Heat	m³/min	30,4/30,4	31,1/31,1	32,7/32,7
Sound pressure 4)	Cool / Heat (Hi)	dB(A)	48/49	48/50	48/49
Dimension 5)	HxWxD	mm	542 x 780 x 289	542 x 780 x 289	619 x 824 x 299
Net weight		kg	24	25	36
Dining diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Piping diameter	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2(12,70)
Pipe length range		m	3~15	3~15	3~15
Elevation difference (in / out	t)	m	15	15	15
Pipe length for additional ga	as	m	7,5	7,5	7,5
Additional gas amount		g/m	10	10	15
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,54/0,365	0,67/0,452	1,14/0,770
Operating	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43
Operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24

Accessories	
CZ-TACG1	Wi-Fi adapter for smart control via Panasonic Comfort Cloud App
CZ-CAPRA1	RAC interface adapter for integration into P-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console





























Wall-mounted PZ super-compact Inverter - R32

- · Compact design with only 779 mm wide
- · Super Quiet! Only 20 dB(A)
- · Aerowings to control air draft direction
- · High energy savings
- · Optional internet and voice control





Kit			KIT-PZ25-WKE	KIT-PZ35-WKE	KIT-PZ50-WKE
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,00)	3,40 (0,85 - 3,90)	5,00 (0,98 - 5,40)
EER 1]	Nominal (Min - Max)	W/W	3,62 (4,05 - 3,30)	3,09 (3,54 - 3,00)	2,98 (3,92 - 2,86)
SEER 2)			6,00 A+	6,00 A+	6,00 A+
Pdesign (cooling)		kW	2,50	3,40	5,00
Input power	Nominal (Min - Max)	kW	0,69 (0,21 - 0,91)	1,10 (0,24 - 1,30)	1,68 (0,25 - 1,89)
Annual energy consumption 33		kWh/a	146	198	292
Heating capacity	Nominal (Min - Max)	kW	3,15 (0,80 - 3,60)	3,84 (0,80 - 4,40)	5,40 (0,98 - 7,50)
Heating capacity at -7 °C		kW	2,14	2,60	4,58
COP 1)	Nominal (Min - Max)	W/W	4,09 (4,21 - 3,50)	3,69 (4,10 - 3,46)	3,44 (4,67 - 3,07)
SCOP 2)			4,10 A+	4,10 A+	4,10 A+
Pdesign at -10 °C		kW	1,90	2,40	4,00
Input power	Nominal (Min - Max)	kW	0,77 (0,19 - 1,03)	1,04 (0,20 - 1,27)	1,57 (0,21 - 2,44)
Annual energy consumption 33		kWh/a	649	820	1366
Indoor unit			CS-PZ25WKE	CS-PZ35WKE	CS-PZ50WKE
Power supply		V	230	230	230
Recommended fuse		А	16	16	16
Connection indoor / outdoor		mm²	4 x 1,5	4 x 1,5	4 x 2,5
Air flow	Cool / Heat	m³/min	10,5/11,1	10,8/11,3	12,5/13,2
Moisture removal volume		L/h	1,5	2,0	2,8
Sound pressure 4)	Cool (Hi / Lo / Q-Lo)	dB(A)	37/26/20	38/30/20	44/37/34
Sound pressure	Heat (Hi / Lo / Q-Lo)	dB(A)	37/27/24	38/33/25	44/37/34
Dimension	HxWxD	mm	290 x 779 x 209	290 x 779 x 209	290 x 779 x 209
Net weight		kg	8	8	8
Outdoor unit			CU-PZ25WKE	CU-PZ35WKE	CU-PZ50WKE
Air flow	Cool / Heat	m³/min	30,4/30,4	31,1/31,1	32,7/32,7
Sound pressure 4)	Cool / Heat (Hi)	dB(A)	48/49	48/50	48/49
Dimension 5)	HxWxD	mm	542 x 780 x 289	542 x 780 x 289	619 x 824 x 299
Net weight		kg	24	25	36
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2(12,70)
Pipe length range		m	3~15	3~15	3~15
Elevation difference (in / out)		m	15	15	15
Pipe length for additional gas		m	7,5	7,5	7,5
Additional gas amount		g/m	10	10	15
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,54/0,365	0,67/0,452	1,14/0,770
Operating range	Cool Min ~ Max	°C	5~+43	5~+43	5~+43
	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24

Accessories	
CZ-TACG1	Wi-Fi adapter for smart control via Panasonic Comfort Cloud App
CZ-CAPRA1	RAC interface adapter for integration into P-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console



























Floor console Inverter+ · R32

- nanoe™ X technology to improve protection 24/7 (nanoe X Generator Mark 1)
- · Stylish Sky remote controller
- \cdot A breakthrough design that integrates perfectly with the most modern environments
- · High energy efficiency class A++ SEER and A++ SCOP
- · Optional internet and voice control

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Kit			KIT-Z25-UFE	KIT-Z35-UFE	KIT-Z50-UFE
Cooling capacity	Nominal (Min-Max)	kW	2,50 (0,85 - 3,40)	3,50 (0,85 - 3,80)	5,00 (0,90 - 5,70)
EER 1)	Nominal (Min - Max)	W/W	4,81 (3,54 - 3,78)	4,07 (3,54 - 3,73)	3,60 (3,53 - 3,15)
SEER 2)			7,90 A++	8,10 A++	6,70 A++
Pdesign (cooling)		kW	2,50	3,50	5,00
Input power	Nominal (Min-Max)	kW	0,52 (0,24 - 0,90)	0,86 (0,24 - 1,02)	1,39 (0,26 - 1,81)
Annual energy consumption 3		kWh/a	111	151	261
Heating capacity	Nominal (Min-Max)	kW	3,40 (0,85 - 5,00)	4,30 (0,85 - 6,00)	5,80 (0,90 - 8,10)
Heating capacity at -7 °C		kW	2,88	3,37	5,03
COP 1)	Nominal (Min - Max)	W/W	4,47 (3,54 - 3,70)	3,98 (3,54 - 3,43)	3,74 (3,46 - 3,12)
SCOP 2)			4,60 A++	4,60 A++	4,30 A+
Pdesign at -10 °C		kW	2,70	3,20	4,40
Input power	Nominal (Min-Max)	kW	0,76 (0,24 - 1,35)	1,08 (0,24 - 1,75)	1,55 (0,26 - 2,60)
Annual energy consumption 3		kWh/a	822	974	1433
Indoor unit			CS-Z25UFEAW	CS-Z35UFEAW	CS-Z50UFEAW
Air flow	Cool / Heat	m³/min	9,6/9,9	9,9/10,1	11,6/13,2
Moisture removal volume		L/h	1,5	2,0	2,8
Sound pressure 4)	Cool (Hi / Lo / Q-Lo)	dB(A)	38/25/20	39/26/20	44/31/27
Sound pressure *	Heat (Hi / Lo / Q-Lo)	dB(A)	38/25/19	39/26/19	46/33/29
Dimension	HxWxD	mm	600 x 750 x 207	600 x 750 x 207	600 x 750 x 207
Net weight		kg	13	13	13
nanoe X Generator			Mark 1	Mark 1	Mark 1
Outdoor unit			CU-Z25UBEA	CU-Z35UBEA	CU-Z50UBEA
Power supply		V	230	230	230
Recommended fuse		Α	16	16	16
Connection indoor / outdoor		mm²	_		
Air flow	Cool / Heat	m³/min	28,7/27,2	34,3/33,5	39,7/38,6
Sound pressure 4)	Cool / Heat (Hi)	dB(A)	46/47	48/48	48/48
Dimension 5)	HxWxD	mm	542 x 780 x 289	619 x 824 x 299	695 x 875 x 320
Net weight		kg	33	35	43
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	1/2(12,70)
Pipe length range		m	3~20	3~20	3~30
Elevation difference (in / out)		m	15	15	20
Pipe length for additional gas		m	7,5	7,5	7,5
Additional gas amount		g/m	10	10	15
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,88/0,594	0,93/0,628	1,13/0,763
Operating range	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43
	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24
				•	

Accessories	
CZ-TACG1	Wi-Fi adapter for smart control via Panasonic Comfort Cloud App
CZ-CAPRA1	RAC interface adapter for integration into P-Link

Accessories	
CZ-RD517C	Wired remote controller for wall-mounted and floor console

































MORE DUCT TYPE SOLUTIONS IN PACE SECTION







Low static pressure hide-away Inverter · R32

- · Duct type can be controlled by KNX and Modbus
- · Eco mode for 20 % energy saving
- Extremely compact indoor units without losing static pressure (only 200 mm high)
- · Weekly timer, 42 settings per week
- · Easy check mode for failure detection
- · Drain pump included

Kit			KIT-Z25-UD3	KIT-Z35-UD3	KIT-Z50-UD3	KIT-Z60-UD3
Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,20)	3,50 (0,85 - 4,00)	5,10 (0,90 - 5,70)	6,00 (0,90 - 6,50)
EER 1)	Nominal (Min - Max)	W/W	4,31 (3,54 - 3,76)	3,85 (3,54 - 3,36)	3,27 (3,53 - 3,20)	2,94(3,53 - 2,83)
SEER 2)			5,90 A+	5,80 A+	5,90 A+	5,60 A+
Pdesign (cooling)		kW	2,50	3,50	5,10	6,00
Input power	Nominal (Min - Max)	kW	0,58 (0,24 - 0,85)	0,91 (0,24 - 1,19)	1,56 (0,26 - 1,78)	2,04 (0,26 - 2,30)
Annual energy consumption 33		kWh/a	148	211	303	375
Heating capacity	Nominal (Min - Max)	kW	3,20 (0,85 - 4,60)	4,20 (0,85 - 5,10)	6,10 (0,90 - 7,20)	7,00 (0,90 - 8,00)
Heating capacity at -7 °C		kW	2,60	3,00	4,50	5,10
COP 1)	Nominal (Min-Max)	W/W	4,00 (3,70 - 3,68)	3,82 (3,70 - 3,59)	3,35 (3,46 - 3,27)	3,24(3,46-3,08)
SCOP 2)			4,20 A+	4,10 A+	4,10 A+	4,10 A+
Pdesign at -10 °C		kW	2,60	2,80	4,00	4,60
Input power	Nominal (Min - Max)	kW	0,80 (0,23 - 1,25)	1,10(0,23 - 1,42)	1,82 (0,26 - 2,20)	2,16(0,26-2,60)
Annual energy consumption 33		kWh/a	867	956	1366	1571
Indoor unit			CS-Z25UD3EAW	CS-Z35UD3EAW	CS-Z50UD3EAW	CS-Z60UD3EAW
External static pressure 43	Min - Max	Pa	15 - 45	15 - 45	15 - 50	15 - 50
Air flow	Cool / Heat	m³/min	10,5/10,5	11,2/11,2	15,3/15,3	15,7/15,7
Moisture removal volume		L/h	1,5	2,0	2,8	3,3
C	Cool (Hi / Lo / Q-Lo)	dB(A)	33/27/24	33/27/24	39/29/26	41/30/27
Sound pressure 51	Heat (Hi / Lo / Q-Lo)	dB(A)	35/27/24	35/27/24	39/30/27	41/32/29
Dimension	HxWxD	mm	200 x 750 x 640	200 x 750 x 640	200 x 750 x 640	200 x 750 x 640
Net weight		kg	19	19	19	19
Outdoor unit			CU-Z25UBEA	CU-Z35UBEA	CU-Z50UBEA	CU-Z60UBEA
Power supply		V	230	230	230	230
Recommended fuse		A	16	16	16	_
Connection indoor / outdoor		mm²	4x1,5~2,5	4 x 1,5 ~ 2,5	4 x 1,5 ~ 2,5	_
Air flow	Cool / Heat	m³/min	28,7/27,2	34,3/33,5	39,7/38,6	42,6/41,5
Sound pressure 5)	Cool / Heat (Hi)	dB(A)	46/47	48/48	48/48	49/50
Dimension 6)	,,	45(71)	40/4/	10, 10		
Net weight	HxWxD	mm	542 x 780 x 289	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320
ivet weight					695×875×320 43	695 x 875 x 320 43
		mm	542 x 780 x 289	619 x 824 x 299		
Piping diameter	HxWxD	mm kg	542×780×289 33	619 x 824 x 299 35	43	43
	HxWxD Liquid pipe	mm kg Inch (mm)	542×780×289 33 1/4 (6,35)	619×824×299 35 1/4(6,35)	43 1/4 (6,35)	43 1/4(6,35)
Piping diameter	HxWxD Liquid pipe	mm kg Inch (mm) Inch (mm)	542 x 780 x 289 33 1/4 (6,35) 3/8 (9,52)	619×824×299 35 1/4 (6,35) 3/8 (9,52)	43 1/4(6,35) 1/2(12,70)	43 1/4(6,35) 1/2(12,70)
Piping diameter Pipe length range	HxWxD Liquid pipe	mm kg Inch (mm) Inch (mm) m	542×780×289 33 1/4 (6,35) 3/8 (9,52) 3 ~ 20	619×824×299 35 1/4 (6,35) 3/8 (9,52) 3~20	43 1/4 (6,35) 1/2 (12,70) 3 ~ 30	43 1/4(6,35) 1/2(12,70) 3-30
Piping diameter Pipe length range Elevation difference (in / out)	HxWxD Liquid pipe	mm kg Inch (mm) Inch (mm) m	542×780×289 33 1/4 [6,35] 3/8 [9,52] 3 ~ 20 15	619×824×299 35 1/4(6,35) 3/8(9,52) 3~20 15	43 1/4 (6,35) 1/2 (12,70) 3~30 20	43 1/4(6,35) 1/2(12,70) 3~30 20
Piping diameter Pipe length range Elevation difference (in / out) Pipe length for additional gas	HxWxD Liquid pipe	mm kg Inch (mm) Inch (mm) m m	542×780×289 33 1/4 (6,35) 3/8 (9,52) 3 ~ 20 15 7,5	619×824×299 35 1/4 (6,35) 3/8 (9,52) 3 ~ 20 15 7,5	43 1/4 (6,35) 1/2 (12,70) 3 ~ 30 20 7,5	43 1/4(6,35) 1/2(12,70) 3-30 20 7,5
Piping diameter Pipe length range Elevation difference (in / out) Pipe length for additional gas Additional gas amount	HxWxD Liquid pipe	mm kg Inch (mm) Inch (mm) m m	542 x 780 x 289 33 1/4 (6,35) 3/8 (9,52) 3 ~ 20 15 7,5 10	619 x 824 x 299 35 1/4 (6,35) 3/8 (9,52) 3 ~ 20 15 7,5 10	43 1/4 (6,35) 1/2 (12,70) 3 ~ 30 20 7,5 15	43 1/4(6,35) 1/2(12,70) 3~30 20 7,5 15

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3] The annual energy consumption is calculated in accordance to EU/626/2011. 4) The specification listed on the table indicates values under the condition of 25 Pa [2,5 mmAq] which are applied for factory default setting. Change switch on PCB from Hi to S-Hi to have more than 6,0 mmAq. 5] The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit with 1 m duct on the suction side and 2 m duct on the discharge side. For outdoor unit 1 m in front and 1 m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. 6] Add 100 mm for indoor unit or 70 mm for outdoor unit for piping port.

Accessories	
CZ-TACG1	Wi-Fi adapter for smart control via Panasonic Comfort Cloud App

Accessories	
CZ-CAPRA1	RAC interface adapter for integration into P-Link
CZ-RL511D	Optional wireless control kit





















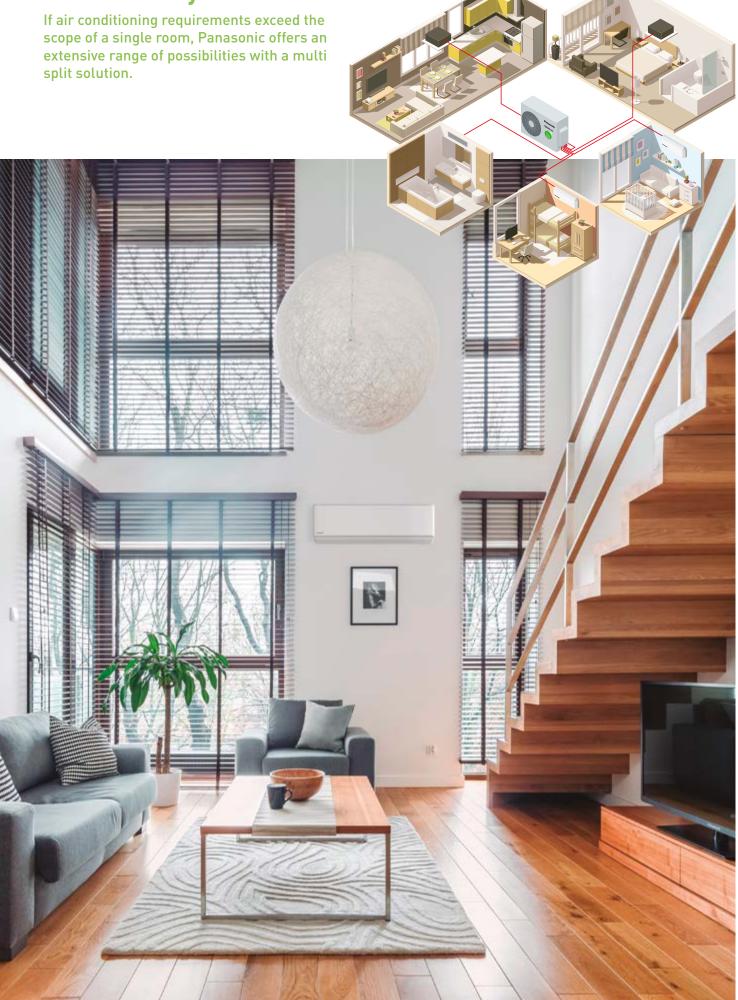








Free Multi system



Panasonic offers widest range in multi split systems

The multi split solution offers high flexibility, as 2 to 5 indoor units can be connected to a single outdoor unit. The wide range of compatible indoor units includes Etherea and TZ wall-mounted units, floor console, 4 way 60x60 cassette and low static pressure hide-away.

Full flexibility up to 9.0 kW and up to 5 ports with wide range of indoor units including high performance Etherea indoor units, reaching up to A+++/A++.

Line up		Multi Z
Capacities		8 units (3,5 ~ 9,0 kW)
Indoor unit ports		2~5
Efficiency up to		A+++ / A++
	Etherea	Yes
	TZ super-compact	Yes
Indoor units	Floor console	Yes
	Cassette	Yes
	Hide-away	Yes

Why a multi split is better than several separate split units

Up to 5 indoor units with a single outdoor unit.

- · Just one compact outdoor unit
- Increased comfort in the house since every room has its own indoor unit for heating or cooling
- · Much more powerful than a single split

- · More efficient since the units are always operating at full capacity
- You can connect all types of indoor units, such as wall types and consoles, depending on what suits your house hest

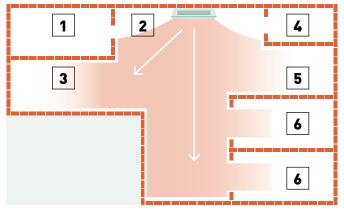
Solution with single split.

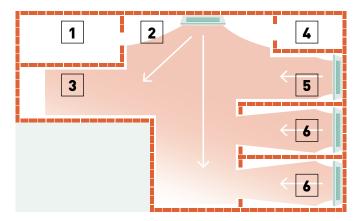
One indoor unit is connected to one outdoor unit. The indoor unit is placed in the main hallway and heats the entire house. Certain rooms may not be perfectly heated, which causes inadequate comfort.

Solution with multi split.

With one outdoor unit, you can connect up to five indoor units. There is one indoor unit per room or area. It gives an extreme increase in comfort levels. On the roof, there is only one outdoor unit.

1. Laundry room. 2. Entrance. 3. Kitchen / dining area. 4. Bathroom. 5. Living room. 6. Bedroom





Configure in a few steps your multi split system with our online tool.







Outdoor units Free Multi system Z · R32

- · Up to 5 indoor units with a single outdoor unit
- · Up to 5 rooms with individual control
- · Etherea, floor console and 4 way 60x60 cassette with nanoe™ X technology to improve protection 24/7
- · High energy efficiency class A+++ SEER
- · Indoor units compatible with internet and voice control









Outdoor unit			CU-2Z35TBE	CU-2Z41TBE	CU-2Z50TBE	CU-3Z52TBE	CU-3Z68TBE	CU-4Z68TBE	CU-4Z80TBE	CU-5Z90TBE
Indoor nominal capa	city (Min - Max)		3,2~6,0 kW	3,2~6,0 kW	3,2~7,7 kW	4,5~9,5 kW	4,5~11,2 kW	4,5~11,5 kW	4,5~14,7 kW	4,5~18,3 kW
•	Nominal	kW	3,50	4,10	5,00	5,20	6,80	6,80	8,00	9,00
Cooling capacity	Min		1,50	1,50	1,50	1,80	1,90	1,90	3,00	2,90
J , ,	Max		4,50	5,20	5,40	7,30	8,00	8,80	9,20	11,50
	Nominal	W/W	4,86	4,56	4,24	4,77	3,66	4,39	4,04	4,09
EER 1)	Min		6,00	6,00	6,00	_	7,04	5,59	5,66	5,27
	Max		4,09	3,80	3,62	_	3,38	3,56	3,21	2,98
SEER 2)			8,50 A+++	8,50 A+++	8,50 A+++	8,50 A+++	8,00 A++	8,00 A++	7,90 A++	8,50 A+++
Pdesign (cooling)		kW	3,50	4,10	5,00	5,20	6,80	6,80	8,00	9,00
	Nominal	kW	0,72	0,90	1,18	1,09	1,86	1,55	1,98	2,20
Input power	Min		0,25	0,25	0,25	0,36	0,27	0,34	0,53	0,55
	Max		1,10	1,37	1,49	2,18	2,37	2,47	2,87	3,86
Annual energy consu	mption 3)	kWh/a	144	169	206	214	298	298	990	1100
	Nominal	kW	4,20	4,60	5,60	6,80	8,50	8,50	9,40	10,40
Heating capacity	Min		1,10	1,10	1,10	1,60	3,30	3,00	4,20	3,40
3, ,	Max		5,60	7,00	7,20	8,30	10,40	10,60	10,60	14,50
Heating capacity at -2	7 °C	kW	_	_		3,95	4,45	4,45	_	_
	Nominal	W/W	4,88	4,79	4,63	4,63	3,95	4,47	4,63	4,84
COP 1)	Min	,	5,24	5,24	5,24	5,00	5,32	5,17	6,00	6,42
55.	Max		4,18	3,91	4,00	3,82	3,64	3,96	3,46	3,42
SCOP 2)	THUX.		4,60 A++	4,60 A++	4,60 A++	4,20 A+	4,20 A+	4,20 A+	4,70 A++	4,68 A++
Pdesign at -10 °C		kW	3,20	3,50	4,20	5,00	5,20	5,80	6,80	8,50
<u> </u>	Nominal	kW	0,86	0,96	1,21	1,47	2,15	1,90	2,03	2,15
Input power	Min		0,21	0,21	0,21	0,32	0,62	0,58	0,70	0,53
	Max		1,34	1,79	1,80	2,17	2,86	2,68	3,06	4,24
Annual energy consu		kWh/a	974	1065	1278	1667	1733	1933	2026	2543
Current	Cool / Heat	Α	3,35/4,00	4,15/4,45	5,35/5,50	5,00/6,70	8,40/9,70	7,00/8,60	9,50/9,50	10,50/10,10
Power supply		V	230	230	230	230	230	230	230	230
Recommended fuse		A	16	16	16	16	16	20	20	25
Recommended power	r cable section	mm²	2,5	2,5	2,5	2,5	2,5	2,5	2,5	4,0
Sound pressure 4	Cool / Heat (Hi)	dB(A)	48/50	48/50	50/52	47/48	51/52	49/50	51/52	53/54
Dimension 5)	HxWxD	mm	619x824x299	619 x 824 x 299				795x875x320	999x940x340	
Net weight		kg	39	39	39	71	71	72	80	81
	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4(6,35)	1/4 (6,35)	1/4 (6,35)	1/4(6,35)	1/4 (6,35)	1/4(6,35)
Piping diameter	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Pipe length range tot		m	6~30	6~30	6~30	6~50	6~60	6~60	6~70	6~80
Pipe length range to		m	3~20	3~20	3~20	3~25	3~25	3~25	3~25	3~25
Elevation difference (m	10	10	10	15	15	15	15	15
Pipe length for addition		m	20	20	20	30	30	30	45	45
Additional gas amour		g/m	15	15	15	20	20	20	20	20
Refrigerant (R32) / Co		kg / T	1,12/0,756	1,12/0,756	1,12/0,756	2,10/1,418	2,10/1,418	2,10/1,418	2,72/1,836	2,72/1,836
	Cool Min ~ Max	°C	-10~+46	-10~+46	-10~+46	-10~+46	-10~+46	-10~+46	-10~+46	-10~+46
Operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24
	ricat Milli - Max		10 - 124	13 - 124	10 - 124	10 - 124	10 - 124	10 - 124	10 - 124	10 - 124

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of a position 1 m in front and 1 m in rear side of the main body. The sound pressure is measured in accordance with JIS C 9612. 5) Add 70 or 95 mm for piping port. 6) Minimum piping length is 3 meters per indoor unit.

Possible outdoor / indoor units combinations

Rooms	Outdoor unit	Indoor capacity connected		Wall	-mo	unte	d Et	here	a			Wal sup		unte		!		Fl	oor	ons	ole			ay 6 asse	0x60 tte		Lov	w sta hid	tic p e-av		ure
		(Min - Max)	16	20	25	35	42	50	71	16	20	25	35	42	50	60	71	20	25	35	50	20	25	35	50	60	20	25	35	50	60
	CU-2Z35TBE	3,2~6,0 kW	•	•	•	•				•	•	•	•					•	•	•		• 1)	• 1)	• 1)			•	•	•		
2	CU-2Z41TBE	3,2~6,0 kW	•	•	•	•				•	•	•	•					•	•	•		• 1)	• 1)	• 1)			•	•	•		П
	CU-2Z50TBE	3,2~7,7 kW	•	•	•	•	• 1]	• 1]		•	•	•	•	• 1]	• 1]			•	•	•	• 1]	• 1)	• 1)	• 1)	• 1)		•	•	•	• 1)	
	CU-3Z52TBE	4,5~9,5 kW	•	•	•	•	• 1]	• 1]		•	•	•	•	• 1]	• 1]							• 1)	• 1)	• 1)	• 1)		•	•	•	• 1)	
3	CU-3Z68TBE	4,5~11,2 kW	•	•	•	•	• 1]	• 1]		•	•	•	•	• 1]	• 1]	• 2]						• 1)	• 1)	• 1)	• 1)	• 2]	•	•	•	• 1)	• 2]
,	CU-4Z68TBE	4,5~11,5 kW	•	•	•	•	• 1]	• 1]		•	•	•	•	• 1]	• 1]	• 2]						• 1)	• 1)	• 1)	• 1)	• 2]	•	•	•	• 1]	• 2]
4	CU-4Z80TBE	4,5~14,7 kW	•	•	•	•	• 1]	• 1)	• 3]	•	•	•	•	• 1]	• 1]	• 2]	• 3]					• 1)	• 1)	• 1)	• 1)	• 2]	•	•	•	• 1)	• 2]
5	CU-5Z90TBE	4,5~18,3 kW	•	•	•	•	• 1]	• 1]	• 3]	•	•	•	•	• 1]	• 1)	• 2]	• 3]					• 1)	• 1)	• 1)	• 1)	• 2]	•	•	•	• 1)	• 2]

1) Pipe reducer CZ-MA1PA required. 2) Pipe reducer CZ-MA2PA required. 3) Pipe reducers CZ-MA2PA and CZ-MA3PA required.























Optional wired remote controller. CZ-RD517C













NEW Wall-	Indoor unit	Indoor unit	Indoor unit	Cooling	Heating	Connection	Sound pressure 1)	Dimension / Net weight	Piping diameter
mounted	Graphite grey*	Silver	Matt white	capacity	capacity	in. / out.	Cool — Heat (Hi/Lo/S-Lo)	HxWxD	Liquid / Gas pipe
Etherea				kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
1,6 kW	_	_	CS-MZ16XKE	1,60	2,60	4 x 1,5	38/26/21 — 39/27/21	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
2,0 kW	CS-XZ20XKEW-H	CS-XZ20XKEW	CS-Z20XKEW	2,00	3,20	4 x 1,5	39/26/21 — 40/27/21	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
2,5 kW	CS-XZ25XKEW-H	CS-XZ25XKEW	CS-Z25XKEW	2,50	3,60	4 x 1,5	41/27/21 — 43/29/21	295 x 870 x 229 / 10	1/4 (6,35) / 3/8 (9,52)
3,5 kW ^{2]}	CS-XZ35XKEW-H	CS-XZ35XKEW	CS-Z35XKEW	3,50	4,50	4 x 1,5	44/30/21 — 45/35/21	295 x 870 x 229 / 11	1/4 (6,35) / 3/8 (9,52)
4,2 kW 3)	_	_	CS-Z42XKEW	4,20	5,60	4 x 1,5	44/33/27 — 45/37/31	295 x 870 x 229 / 10	1/4(6,35)/1/2(12,70)
5,0 kW 4)	_	CS-XZ50XKEW	CS-Z50XKEW	5,00	6,80	4 x 2,5	44/39/32 — 46/39/32	295 x 1040 x 244/12	1/4(6,35)/1/2(12,70)
7,1 kW	_	_	CS-Z71XKEW	7,10	8,70	4 x 2,5	49/40/32 - 49/40/32	295 x 1040 x 244/14	1/4(6,35)/5/8(15,88)







Optional wired remote controller. CZ-RD517C











Wall-mounted	Indoor unit	Cooling	Heating	Connection	Sound pressure 1)	Dimension / Net weight	Piping diameter
TZ super-		capacity	capacity	in. / out.	Cool — Heat (Hi/Lo/S-Lo)	HxWxD	Liquid / Gas pipe
compact		kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
1,6 kW	CS-MTZ16WKE	1,60	2,60	4 x 1,5	38/27/22 — 39/28/24	290 x 779 x 209/8	1/4(6,35)/3/8(9,52)
2,0 kW	CS-TZ20WKEW	2,00	2,70	4 x 1,5	37/25/20 — 38/26/22	290 x 779 x 209/8	1/4(6,35)/3/8(9,52)
2,5 kW	CS-TZ25WKEW	2,50	3,30	4 x 1,5	40/26/20 — 40/27/22	290 x 779 x 209/8	1/4(6,35)/3/8(9,52)
3,5 kW ²⁾	CS-TZ35WKEW	3,50	4,00	4 x 1,5	42/30/20 — 42/33/22	290 x 779 x 209/8	1/4(6,35)/3/8(9,52)
4,2 kW	CS-TZ42WKEW	4,20	5,00	4 x 1,5	44/31/29 — 44/35/34	290 x 779 x 209/8	1/4 (6,35) / 1/2 (12,70)
5,0 kW	CS-TZ50WKEW	5,00	5,80	4 x 2,5	44/37/33 — 44/37/33	290 x 779 x 209/8	1/4 (6,35) / 1/2 (12,70)
6,0 kW	CS-TZ60WKEW	6,00	7,00	4 x 2,5	45/37/34 — 45/37/34	302 x 1102 x 244/13	1/4 (6,35) / 1/2 (12,70)
7,1 kW	CS-TZ71WKEW	7,10	8,60	4 x 2,5	47/38/35 — 47/38/35	302 x 1102 x 244/13	1/4 (6,35) / 5/8 (15,88)





Optional wired remote controller. CZ-RD517C







Floor	Indoor unit	Cooling	Heating	Connection	Sound pressure 6)	Dimension / Net weight	Piping diameter
console 5)		capacity	capacity	in. / out.	Cool — Heat (Hi/Lo/S-Lo)	HxWxD	Liquid / Gas pipe
		kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
2,0 kW	CS-MZ20UFEA	2,00	3,20	4 x 1,5	39/27/22-39/27/21	600×750×207/13	1/4(6,35)/3/8(9,52)
2,5 kW	CS-Z25UFEAW	2,50	3,60	4 x 1,5	40/27/22-40/27/21	600 x 750 x 207 / 13	1/4(6,35)/3/8(9,52)
3,5 kW ²⁾	CS-Z35UFEAW	3,50	4,50	4 x 1,5	41/28/22-41/28/21	600 x 750 x 207 / 13	1/4(6,35)/3/8(9,52)
5,0 kW	CS-Z50UFEAW	5,00	5,30	4 x 1,5	44/33/29 - 48/35/31	600 x 750 x 207 / 13	1/4(6,35)/1/2(12,70)







Optional wired remote controller. CZ-RTC6



4 x 1.5

Panel (sold separately).

45/39/33 - 45/39/33

CZ-KPY4







NEW 4 Way	Indoor unit	Cooling	Heating	Connection	Sound pressure 7)	Dimension ,	/ Net weight	Piping diameter
60x60 cassette*	(Panel CZ-KPY4)	capacity	capacity	in. / out.	Cool — Heat (Hi/Lo/S-Lo)	Indoor HxWxD	Panel HxWxD	Liquid / Gas pipe
cassette		kW	kW	mm²	dB(A)	mm / kg	mm / kg	Inch (mm)
2,0 kW	S-M20PY3E	2,00	3,20	4 x 1,5	33/30/27 - 33/30/27	243 x 575 x 575 / 15	30 x 625 x 625/2,8	1/4(6,35)/1/2(12,70)
2,5 kW	S-25PY3E	2,50	3,60	4 x 1,5	33/30/27-33/30/27	243 x 575 x 575 / 15	30 x 625 x 625/2,8	1/4(6,35)/1/2(12,70)
3,5 kW ^{2]}	S-36PY3E	3,50	3,60	4 x 1,5	36/32/27 - 36/32/27	243 x 575 x 575 / 15	30 x 625 x 625/2,8	1/4(6,35)/1/2(12,70)
5,0 kW ⁴⁾	S-50PY3E	5,00	6,80	4 x 1,5	41/36/29 - 41/36/29	243 x 575 x 575 / 15	30 x 625 x 625 / 2,8	1/4(6,35)/1/2(12,70)

^{*} Compatible with Commercial control and connectivity accessories only. For detailed information go to the control systems section

8.50



6.0 kW



S-60PY3F



Optional wireless CZ-RL511D

6.00



INTERNET CONTROL and BMS CONNECTIVITY: Optional

243 x 575 x 575 / 15



30 x 625 x 625 / 2,8



3/8 (9.52) / 5/8 (15.88)



					INTERNET	CONTINUE and DISS CONNECTIVITY. Optional	
Low static	Indoor unit	Cooling	Heating	Connection	Sound pressure 8)	Dimension / Net weight	Piping diameter
pressure		capacity	capacity	in. / out.	Cool — Heat (Hi/Lo/S-Lo)	HxWxD	Liquid / Gas pipe
hide-away		kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
2,0 kW	CS-MZ20UD3EA	2,00	3,20	4 x 1,5	34/29/26-36/29/26	200 x 750 x 640/19	1/4(6,35)/3/8(9,52)
2,5 kW	CS-Z25UD3EAW	2,50	3,60	4 x 1,5	35/29/26-37/29/26	200 x 750 x 640/19	1/4(6,35)/3/8(9,52)
3,5 kW ²⁾	CS-Z35UD3EAW	3,50	4,50	4 x 1,5	35/29/26-37/29/26	200 x 750 x 640/19	1/4(6,35)/3/8(9,52)
5,0 kW ⁴⁾	CS-Z50UD3EAW	5,00	6,80	4 x 1,5	41/31/28-41/32/29	200 x 750 x 640/19	1/4 (6,35) / 1/2 (12,70)
6,0 kW	CS-Z60UD3EAW	6,00	8,50	4 x 1,5	43/32/29 - 43/34/31	200 x 750 x 640 / 19	1/4(6,35)/1/2(12,70)

1) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 2) Heating capacity in combination with Free Multi outdoor units except with CU-2Z35TBE. In this case, the heating capacity is 4,20 kW. 3) Heating capacity in combination with Free Multi outdoor units except with CU-2Z35TBE. In this case, the heating capacity is 5,30 kW. 5) Compatible only with 2 ports R32 outdoor CU-2Z35TBE. CU-2Z41TBE / CU-2Z50TBE. Minimum quantity of connection: 2 indoor units. 6) The sound pressure of the units shows the value measured of a position 1 m in front of the main body and 1 m above floor. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 7) The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 7) The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit. The sound pressure of a department of the indoor unit shows the value measured of a position of 1,5 m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 8) The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit. The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit. The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit. The sound pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit and the pressure of the indoor unit shows the value measured of a position of 1,5 m below the unit and the pressure of the unit and the un of the indoor unit shows the value measured of a position of 1,5 m below the unit with 1 m duct on the suction side and 2 m duct on the discharge side. The sound pressure is measured in accordance with JIS C 9612.

* Available in Spring 22. **Panasonic GENERAL INDEX**

Multi TZ system





- · Up to 3 indoor units with a single outdoor unit
- · Up to 3 rooms with individual control
- · High energy efficiency class A++ SEER
- · Flexible installation, compact units and large connection
- · Indoor units compatible with internet and voice control







Outdoor unit			CU-2TZ41TBE	CU-2TZ50TBE	CU-3TZ52TBE
Indoor nominal capacity (Min -	Max)		3,2~6,0 kW	3,2~7,7 kW	4,5~9,5 kW
Cooling capacity	Nominal (Min - Max)	kW	4,10 (1,50 - 4,70)	5,00 (1,50 - 5,40)	5,20 (1,80 - 6,60)
EER 1)	Nominal (Min - Max)	W/W	4,14 (5,56 - 3,41)	3,85 (5,56 - 3,33)	4,52 (3,67 - 5,00)
SEER 2)			7,10 A++	7,00 A++	7,60 A++
Pdesign (cooling)		kW	4,10	5,00	5,20
Input power	Nominal (Min - Max)	kW	0,99 (0,27 - 1,38)	1,30 (0,27 - 1,62)	1,15 (0,36 - 1,80)
Annual energy consumption 3		kWh/a	202	250	239
Heating capacity	Nominal (Min - Max)	kW	4,40 (1,10 - 6,30)	5,70 (1,10 - 6,40)	6,80 (1,60 - 7,50)
Heating capacity at -7 °C		kW	_	_	_
COP 1)	Nominal (Min - Max)	W/W	4,44 (5,00 - 3,54)	4,35 (5,00 - 3,62)	4,28 (3,87 - 5,00)
SCOP 2)			4,30 A+	4,20 A+	4,20 A+
Pdesign at -10 °C		kW	3,50	4,50	5,00
Input power	Nominal (Min - Max)	kW	0,99 (0,22 - 1,78)	1,31 (0,22 - 1,77)	1,59 (0,32 - 1,94)
Annual energy consumption 3		kWh/a	1139	1500	1667
Current	Cool / Heat	А	4,60/4,60	6,00/6,00	5,30/7,30
Power supply		٧	230	230	230
Sound pressure 4)	Cool / Heat (Hi)	dB(A)	48/50	50/52	48/48
Dimension 5)	HxWxD	mm	542 x 780 x 289	542 x 780 x 289	795 x 875 x 320
Net weight		kg	35	35	71
Dining diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Piping diameter	Gas pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Pipe length range total		m	6~30	6~30	6~50
Pipe length range to one unit		m	3~20	3~20	3~25
Elevation difference (in / out)		m	10	10	15
Pipe length for additional gas		m	20	20	30
Additional gas amount		g/m	15	15	20
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,9/0,6075	0,9/0,6075	2,1/1,4175
Operating range	Cool Min ~ Max	°C	-10~+46	-10~+46	-10~+46
operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of a position 1 m in front and 1 m in rear side of the main body. The sound pressure is measured in accordance with JIS C 9612. 5) Add 70 or 95 mm for piping port.













Possible outdoor / indoor units combinations

Rooms	Outdoor unit	Indoor capacity			Wall-mounted T	Z super-compact		
		connected (Min - Max)	16	20	25	35	42	50
•	CU-2TZ41TBE	3,2~6,0 kW	~	~	~	~		
2	CU-2TZ50TBE	3,2~7,7 kW	~	V	~	V	V	V
3	CU-3TZ52TBE	4,5~9,5 kW	~	V	V	V	V	~

Minimum quantity of connection: 2 indoor units.





Optional wired remote controller. CZ-RD517C









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INTERNET CONTROL: Built-in Wi-Fi.	PM2,5 FILTER	20 dB(A)	AEROWINGS	BUILT-IN WI-FI	CONNECTIV

Wall-mounted	Indoor unit	Cooling	Heating	Connection	Sound pressure 1)	Dimension / Net weight	Piping diameter
TZ super-		capacity	capacity	in. / out.	Cool — Heat (Hi/Lo/S-Lo)	HxWxD	Liquid / Gas pipe
compact		kW	kW	mm²	dB(A)	mm / kg	Inch (mm)
1,6 kW	CS-MTZ16WKE	1,60	2,60	4 x 1,5	38/27/22 — 39/28/24	290 x 779 x 209/8	1/4(6,35)/3/8(9,52)
2,0 kW	CS-TZ20WKEW	2,00	2,70	4 x 1,5	37/25/20 — 38/26/22	290 x 779 x 209/8	1/4(6,35)/3/8(9,52)
2,5 kW	CS-TZ25WKEW	2,50	3,30	4 x 1,5	40/26/20 — 40/27/22	290 x 779 x 209/8	1/4(6,35)/3/8(9,52)
3,5 kW	CS-TZ35WKEW	3,50	4,00	4 x 1,5	42/30/20 — 42/33/22	290 x 779 x 209/8	1/4(6,35)/3/8(9,52)
4,2 kW	CS-TZ42WKEW	4,20	5,00	4 x 1,5	44/31/29 — 44/35/34	290 x 779 x 209/8	1/4(6,35)/1/2(12,70)
5,0 kW	CS-TZ50WKEW	5,00	5,80	4 x 2,5	44/37/33 — 44/37/33	290×779×209/8	1/4(6,35)/1/2(12,70)

1) The sound pressure of the indoor unit shows the value measured of a position of 1 m in front of the main body and 0,8 m below the unit. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed.



Compare solutions

			Indoor unit dimension	Efficiency 1)	Indoor air quality		Comfort		Connectivity
Wall-mounted Heatcharge VZ	White	2,5 to 3,5 kW	295 x 798 x 375	A+++ A+++	nanoe'	-10 °C in cooling mode -30 °C in heating mode		∯ 18 dB(A)	Optional Wi-Fi CZ-TACG1
Wall-mounted Etherea	Graphite grey / Silver / Matt white	2,0 to 7,1 kW	295 x 870 x 229 (295 x 1040 x 244 wide model)	A+++ A+++	nanoeX nanoe X Generator Mark 2	-10 °C in cooling mode -15 °C in heating mode	Aerowings 2.0	∯ 19 dB(A)	Built-in Wi-Fi
Wall-mounted TZ super-compact	Matte white	2,0 to 7,1 kW	290 x 779 x 209 (295×1040×244 wide model)	A++ A++	PM2,5 Filter	-10 °C in cooling mode -15 °C in heating mode	Aerowings	Ø 20 dB(A)	Built-in Wi-Fi
Wall-mounted BZ super-compact	Matte white	2,5 to 6,0 kW	290 x 779 x 209	A++ A+	PM2,5 Filter	-10 °C in cooling mode -15 °C in heating mode	Aerowings	Ø 20 dB(A)	Optional Wi-Fi CZ-TACG1
Wall-mounted UZ super-compact	Matte white	2,5 to 5,0 kW	290 x 779 x 209	A++ A+	Dust collection filter	-10 °C in cooling mode -15 °C in heating mode	Aerowings	₩ 20 dB(A)	Optional Wi-Fi CZ-TACG1
Wall-mounted PZ super-compact	Matte white	2,5 to 5,0 kW	290 x 779 x 209	A+ A+	Air filter	+5 °C in cooling mode -15 °C in heating mode	Aerowings	Ø dB(A)	Optional Wi-Fi CZ-TACG1
Floor console	White	2,5 to 5,0 kW	600 x 750 x 207	A++ A++	nanoeX nanoe X Generator Mark 1	-10 °C in cooling mode -15 °C in heating mode	Double air flow	Ø 20 dB(A)	Optional Wi-Fi CZ-TACG1
Low static pressure hide-away		2,5 to 6,0 kW	200 x 750 x 640	A+ A+	Air filter	-10 °C in cooling mode -15 °C in heating mode		⊈ 24 dB(A)	Optional Wi-Fi CZ-TACG1

¹⁾ Energy efficiency class in 2,5 kW references. * All data in this chart is applicable in most of the models in each line up, check product specifications to confirm.



Feature comparison

_	Models	Wall-mounted Heatcharge VZ · R32	Wall-mounted Etherea · R32	Wall-mounted TZ super- compact · R32
R32	Refrigerant R32	V	V	V
ECONAVI	Econavi. Sunlight Sensor	V		
	Inverter+ system	V	V	
	Inverter system			V
FINANCE X	R2 rotary compressor	<i>v</i>	V	V
- Canada	nanoe X Generator Mark 1	√ nanoe™	V	
PAZSENTER	PM2,5 Filter			<i>V</i>
IST COLLECTION	Dust collection filter			
	Antiallergy properties	✓	V	
	Super Quiet ¹⁾	v	✓ 19 dB(A) for XZ/Z20, XZ/Z25 and XZ/Z35	✓ 20 dB(A) for TZ20, TZ25 and TZ35
O O O	Mild Dry Cooling		✓	1200
V	Aerowings		·	<i>V</i>
-10 °C	Down to -10 °C in cooling only	· · · · · · · · · · · · · · · · · · ·	·	<i>v</i>
NE CONTRICE MODEL ALE ROTATION OF THE CONTRICE MODEL ALE ROTATIO	Down to -15 °C in heating mode	✓ -35 °C ²	·	<i>v</i>
EATING HODE	Summer House	·		
	R410A/R22 Renewal	·	V	<i>v</i>
IDEMI.	Odour-removing function	·	·	v
	Removable, washable panel	·	·	
29	Powerful mode	·	·	·
<u>-3</u>	Soft dry operation mode		·	v
	Personal air flow creation	·	·	✓ For TZ50, TZ60 and TZ71
	Automatic vertical air flow control		·	✓ For TZ20, TZ25, TZ35 and
」▼	Manual horizontal air flow control			TZ42 ✓ For TZ20, TZ25, TZ35 and
	Auto mode	v	<u> </u>	TZ42 ✔
<u></u>	Hot start mode	<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·
7)24	Real time clock with dual ON / OFF timer		<u> </u>	·
	·			
])/7 a	Weekly timer			
	LCD infrared remote controller	· · · · · · · · · · · · · · · · · · ·	<i>V</i>	
- 7-	Automatic restart	V	✓ 15 m,	✓ 15 m, 20 m (TZ50), 30 m
	Long piping	✓ 15 m	30 m (XZ/Z50, XZ/Z71)	(TZ71 and TZ60)
	Top-Panel maintenance access	· · · · · · · · · · · · · · · · · · ·		
U •	Self-diagnosis function CZ-CAPRA1: RAC interface adapter for integration into	,	·	/
INTEGRATION TOP-LINK	P-Link	<i>V</i>	<i>V</i>	<i>V</i>
MI-FI CONTROL BNS CONNECTMITY 5 THE STREET	Wi-Fi control	<i>v</i>	✓ Built-in	✓ Built-in
BMS	Easy control by BMS	✓	v	✓
5 1000	Warranty on the compressor	✓	✓	✓

1) At the lowest fan speed. 2) Tested by 3rd party laboratory, SP, according to EN14511:2013 and SP Method 1721, this temperature is not guaranteed by Factory.



NEV	V Wall-mounted BZ super- compact · R32	Wall-mounted UZ super- compact - R32	Wall-mounted PZ super- compact · R32	Floor console · R32	Low static pressure hide away
	<i>V</i>	V	V	V	V
				~	_
	~	<i>v</i>	<i>V</i>		~
	~	<i>v</i>	<i>v</i>	~	✓
				•	
	✓				
		•			
				✓	
√ 2	0 dB(A) for BZ25 and BZ35	✓ 20 dB(A) for UZ25 and UZ35	✓ 20 dB(A) for PZ25 and PZ35	✓ 20 dB(A) for Z25 and Z35	
	~	V	V		
	~	V		V	V
	~	V	V	V	V
	·	·	·	·	· · · · · · · · · · · · · · · · · · ·
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					<i>V</i>
	·	•			
	·	<i>V</i>	· · · · · · · · · · · · · · · · · · ·	~	· · · · · · · · · · · · · · · · · · ·
	✓ 15 m, 30 m (BZ60)	√ 15 m	✓ 15 m	✓ 20 m, 30 m (Z50)	✓ 20 m, 30 m (Z50 and Z60)
	· ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	V
	· ·	<i>V</i>	· · · · · · · · · · · · · · · · · · ·	· ·	V
	<i>v</i>	V	<i>V</i>	<i>V</i>	<i>V</i>
	v	~	<i>'</i>	v	V
	V	V	V	V	v
	✓	✓	<i>V</i>	✓	✓



Features explained

Energy saving



Domestic Econavi.

Sunlight Sensor technology can detect and reduce the waste of energy by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.



Inverter Plus system.

This classification highlights Panasonic's highest performing systems.



Inverter system.

The Inverter range provides greater efficiency and comfort. Provides more precise temperature control, without highs and lows, and keeps the ambient temperature constant with lower energy consumption and a significant reduction in noise and vibration levels.



R2 Rotary compressor.

Panasonic R2 rotary compressor. Designed to withstand extreme conditions, it delivers high performance and efficiency.



Refrigerant R32.

Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP). An important step to reduce greenhouse gases. R32 is also a component refrigerant, making it easy to recycle.

High performance and indoor air quality



nanoe™ X.

Technology with the benefits of hydroxyl radicals has the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise.



PM2,5 filter.

Particulate matter (PM2,5) can be found suspended in the air, including dust, dirt, smoke and liquid droplets. Sized at 2,5µm, these particles are said to pose health problems as they can easily enter our lungs.



Dust collection filter.

This filter collects and retains particles suspended in the air, resulting in cleaner air in the room.



Antiallergy properties.

System is equipped with antiallergy properties



Super Quiet.

Thanks to its latest generation compressor and its twin blade fan, our outdoor unit is one of the most silent on the market. The indoor unit emits an almost imperceptible 18 dB(A).



Mild Dry cooling.
Fine control helps prevent a rapid decrease in room humidity while maintaining the set temperature. Maintains an RH* up to 10 % higher than cooling operation (*RH: Relative Humidity). Ideal when sleeping with the air conditioner on.



Aerowings.

More comfort with Aerowings. Direct air flow to the ceiling, creating a shower cooling effect with builtin twin flap.



Down to -10 °C in cooling only mode.

The air conditioner works in cooling mode when the outdoor temperature of -10 $^{\circ}$ C.



Down to -15 °C in heating mode.

The air conditioner works in heat pump mode when the outdoor temperature is as low as -15 °C.



Summer House.

This innovative function keeps the house at 7/8 °C to avoid freezing pipes during the winter. This function is beneficial for summer or weekend



R22/R410A Renewal.

The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing new high efficiency R32 systems.



Odour-removing function.

Allows the exchanger to be cleaned, preventing possible odours. While this function is connected, the fan also remains OFF momentarily to avoid unpleasant odours while the exchanger is being



Removable, washable panel. The front panel is easy to keep clean. It can be removed quickly in one single step and can be washed in water. A clean front panel ensures smoother, more efficient operation, which can save energy.



Powerful mode.

The rapid and effective powerful mode is ideal for when you come home on the hottest or coldest days. It works at maximum power to reach the desired temperature in just 15 minutes.



Soft Dry operation mode.

The soft dry mode eliminates excess moisture with a soft breeze and provides a sense of wellbeing without much change in temperature.



Personal air flow creation.

Permits the air direction to be adjusted vertically and horizontally. This feature can be conveniently selected by remote controller.



Automatic vertical air flow control.

The flap swings up and down automatically. The flow can also be set at a fixed angle with the remote controller.



Manual horizontal air flow control.



Auto mode.

Automatically switches the current operation mode to heating or cooling mode necessary to keep the temperature at a constantly comfortable level based on the temperature of the room. In case of multi split installation the function is limited to first unit working and logic of switching is different considering also the outdoor temperature



Hot Start mode.

At the start of heating cycle and after defrost cycle, the indoor fan will start up once the indoor heat exchanger is warm.



Real time clock with dual ON / OFF timer.

This feature enables you to preset two different sets of start/stop operation timer (hour and minute) within a 24-hour time frame.



Weekly timer.

Allow to fix per each day of the week up to 6 operations per day.



LCD infrared remote controller.



Automatic restart.

This function permits automatic restarting if safe mode operation has stopped for some unusual reason, such as after a power cut. As soon as the power is back, the unit restarts with the parameters selected before it stopped.



Long piping.Indicates the maximum length of pipe between the outdoor unit and the indoor unit(s). The distances permitted, demonstrate the installations possible.



Top-panel maintenance access.

Maintenance of an outdoor unit used to be quite a tedious task. Now, with the possibility of removing the top cover, maintenance is quick and easy.



Self-diagnosis function.

With this function the unit carries out a process self-diagnosis when a particular function does not work correctly. This allows faster servicing.

High connectivity



RAC interface adapter for integration into P-Link.

CZ-CNT port integration to PACi and ECOi. Domestic integration to P-Link. Can connect ranges to P-Link. Full control is now possible.



Wi-Fi control.

A next generation system providing user-friendly control of air conditioning or heat pump units from everywhere, using a simple Android $^{\rm TM}$ or iOS smartphone or tablet via Wi-Fi.



Easy control by BMS.

The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic heat pump to your home or building management system



5 Years warranty.

Panasonic guarantees the compressors in the entire range for five years.



Accessories and control

Connectivity



Wi-Fi adapter for smart control via Panasonic Comfort Cloud App.

CZ-TACG1



RAC interface adapter for integration into P-Link, plus external input and alarm/status output.

CZ-CAPRA1



This interface can be used with all models which have a CN-CNT connector.

PAW-AC-KNX-1i



This interface can be used with all models which have a CN-CNT connector.

PAW-AC-MBS-1



This interface can be used with all models which have a CN-CNT connector.

PAW-AC-BAC-1



This interface can be used with all models which have a **CN-RMT** connector.

PAW-AC-DIO



Heating only PCB for Etherea and low static pressure hideaway.

PAW-AC-HEAT-1



Control of the Etherea, Flagship and Heatcharge by SMS (need additional SIM card).

PAW-SMSCONTROL

Individual controls



NEW wired remote controller for wall-mounted and floor console.

* Available in Winter 22.

CZ-RD517C



Wired remote controller for wall-mounted and floor console.

CZ-RD514C



Infrared remote controller Sky Remote. 2 m cable length of infrared receiver for hide-away.

CZ-RL511D



CONEX wired remote controller (non-wireless) for 4 way 60x60 cassette PY3.

CZ-RTC6

Panel



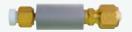
Panel for 4 way 60x60 cassette -PY3.

C7-KPY4



Reduces the connection size on the indoor unit from 1/2" to 3/8".

CZ-MA1PA



Pipe reducer

Increases the connection size on the outdoor unit from 3/8" to 1/2".

CZ-MA2PA



Reduces the connection size on the indoor unit from 5/8" to 1/2".

CZ-MA3PA



Free Multi R32 combinations table

Indoor unit capacity	C	ooling ca	pacity(kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current	Н	eating ca	pacity(kW). Rooms	COP	SCOP 11	Input power rating	A.E.C.	Current
	Α	В	Total (Min - Max)	W/W		kW	kWh	230V	Α	В	Total (Min - Max)	W/W		kW	kWh	230V
1 Room																
16	1,60		1,60 (1,10 - 2,30)	3,90		0,41 (0,22 - 0,60)	205	1,95	2,60		2,60 (0,70 - 3,80)	3,77		0,69 (0,17 - 1,11)	345	3,20
20	2,00		2,00 (1,10 - 2,90)	3,85		0,52(0,22-0,77)	260	2,45	3,20		3,20 (0,70 - 4,80)	3,76		0,85 (0,17 - 1,41)	425	3,95
25	2,50		2,50 (1,10 - 3,50)	3,73		0,67 (0,22 - 1,00)	335	3,15	3,60		3,60 (0,70 - 5,50)	3,50		1,03 (0,17 - 1,70)	515	4,75
35	3,50		3,50 (1,10 - 4,00)	3,47		1,01 (0,22 - 1,22)	505	4,70	4,20		4,20 (0,70 - 5,60)	3,44		1,22 (0,17 - 1,68)	610	5,65
2 Rooms																
16+16	1,60	1,60	3,20 (1,50 - 4,00)	4,92	8,50 A+++	0,65 (0,25 - 1,00)	325	3,05	2,10	2,10	4,20 (1,10 - 5,60)	4,88	4,60 A++	0,86 (0,21 - 1,34)	430	4,00
16+20	1,55	1,95	3,50 (1,50 - 4,50)	4,86	8,50 A+++	0,72 (0,25 - 1,10)	360	3,35	1,85	2,35	4,20 (1,10 - 5,60)	4,88	4,60 A++	0,86 (0,21 - 1,34)	430	4,00
16+25	1,35	2,15	3,50 (1,50 - 4,50)	4,86	8,50 A+++	0,72 (0,25 - 1,10)	360	3,35	1,65	2,55	4,20 (1,10 - 5,60)	4,88	4,60 A++	0,86 (0,21 - 1,34)	430	4,00
16+35	1,10	2,40	3,50 (1,50 - 4,50)	4,86	8,50 A+++	0,72 (0,25 - 1,10)	360	3,35	1,30	2,90	4,20 (1,10 - 5,60)	4,88	4,60 A++	0,86 (0,21 - 1,34)	430	4,00
20+20	1,75	1,75	3,50 (1,50 - 4,50)	4,86	8,50 A+++	0,72 (0,25 - 1,10)	360	3,35	2,10	2,10	4,20 (1,10 - 5,60)	4,88	4,60 A++	0,86 (0,21 - 1,34)	430	4,00
20+25	1,55	1,95	3,50 (1,50 - 4,50)	4,86	8,50 A+++	0,72 (0,25 - 1,10)	360	3,35	1,85	2,35	4,20 (1,10 - 5,60)	4,88	4,60 A++	0,86 (0,21 - 1,34)	430	4,00
20+35	1,25	2,25	3,50 (1,50 - 4,50)	5,07	8,50 A+++	0,69 (0,25 - 1,05)	345	3,25	1,55	2,65	4,20 (1,10 - 5,60)	5,00	4,60 A++	0,84 (0,21 - 1,29)	420	3,90
25+25	1,75	1,75	3,50 (1,50 - 4,50)	5,07	8,50 A+++	0,69 (0,25 - 1,05)	345	3,25	2,10	2,10	4,20 (1,10 - 5,60)	5,00	4,60 A++	0,84 (0,21 - 1,29)	420	3,90
25 ± 35	1 //5	2.05	3 50 (1 50 - 4 50)	5.07	8 50 A+++	0.69(0.25 - 1.05)	3/5	3 25	1 75	2 //5	4 20 (1 10 - 5 A0)	5.00	4 60 A++	0.8/(0.21 - 1.29)	//20	3 90

Indoor unit capacity	С	ooling ca	pacity (kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current	He	eating ca	pacity(kW). Rooms	COP	SCOP 11	Input power rating	A.E.C.	Current
	A	В	Total (Min - Max)	W/W		kW	kWh	230V	Α	В	Total (Min - Max)	W/W		kW	kWh	230V
1 Room																
16	1,60		1,60 (1,10 - 2,30)	3,90		0,41 (0,22 - 0,60)	205	1,95	2,60		2,60 (0,70 - 3,80)	3,77		0,69 (0,17 - 1,11)	345	3,20
20	2,00		2,00 (1,10 - 2,90)	3,85		0,52(0,22-0,77)	260	2,45	3,20		3,20 (0,70 - 4,80)	3,76		0,85 (0,17 - 1,41)	425	3,95
25	2,50		2,50 (1,10 - 3,50)	3,73		0,67 (0,22 - 1,00)	335	3,15	3,60		3,60 (0,70 - 5,50)	3,50		1,03 (0,17 - 1,70)	515	4,75
35	3,50		3,50 (1,10 - 4,00)	3,47		1,01 (0,22 - 1,22)	505	4,70	4,50		4,50 (0,70 - 6,20)	3,60		1,25 (0,17 - 1,81)	625	5,80
2 Rooms																
16+16	1,60	1,60	3,20 (1,50 - 4,00)	4,71	8,50 A+++	0,68 (0,25 - 0,99)	340	3,15	2,20	2,20	4,40 (1,10 - 7,00)	4,68	4,60 A++	0,94 (0,21 - 1,81)	470	4,35
16+20	1,60	2,00	3,60 (1,50 - 4,50)	4,62	8,50 A+++	0,78 (0,25 - 1,15)	390	3,60	2,05	2,55	4,60 (1,10 - 7,00)	4,79	4,60 A++	0,96 (0,21 - 1,79)	480	4,45
16+25	1,60	2,50	4,10 (1,50 - 5,20)	4,56	8,50 A+++	0,90 (0,25 - 1,37)	450	4,15	1,80	2,80	4,60 (1,10 - 7,00)	4,79	4,60 A++	0,96 (0,21 - 1,79)	480	4,45
16+35	1,30	2,80	4,10 (1,50 - 5,20)	4,56	8,50 A+++	0,90 (0,25 - 1,37)	450	4,15	1,45	3,15	4,60 (1,10 - 7,00)	4,79	4,60 A++	0,96 (0,21 - 1,79)	480	4,45
20+20	2,00	2,00	4,00 (1,50 - 5,00)	4,49	8,50 A+++	0,89 (0,25 - 1,31)	445	4,10	2,30	2,30	4,60 (1,10 - 7,00)	4,84	4,60 A++	0,95 (0,21 - 1,77)	475	4,40
20+25	1,80	2,30	4,10 (1,50 - 5,20)	4,56	8,50 A+++	0,90 (0,25 - 1,37)	450	4,15	2,05	2,55	4,60 (1,10 - 7,00)	4,84	4,60 A++	0,95 (0,21 - 1,77)	475	4,40
20+35	1,50	2,60	4,10 (1,50 - 5,20)	4,56	8,50 A+++	0,90 (0,25 - 1,37)	450	4,15	1,65	2,95	4,60 (1,10 - 7,00)	4,84	4,60 A++	0,95 (0,21 - 1,77)	475	4,40
25+25	2,05	2,05	4,10 (1,50 - 5,20)	4,56	8,50 A+++	0,90 (0,25 - 1,37)	450	4,15	2,30	2,30	4,60 (1,10 - 7,00)	4,84	4,60 A++	0,95 (0,21 - 1,77)	475	4,40
25+35	1,70	2,40	4,10 (1,50 - 5,20)	4.56	8,50 A+++	0,90 (0,25 - 1,37)	450	4,15	1.90	2,70	4.60 (1.10 - 7.00)	4.84	4.60 A++	0,95 (0,21 - 1,77)	475	4,40

Indoor unit capacity	C	ooling ca	pacity(kW). Rooms	EER	SEER 11	Input power rating	A.E.C.	Current	Н	eating ca	pacity(kW). Rooms	COP	SCOP 11	Input power rating	A.E.C.	Current
	Α	В	Total (Min - Max)	W/W		kW	kWh	230V	Α	В	Total (Min - Max)	W/W		kW	kWh	230V
1 Room																
16	1,60		1,60 (1,10 - 2,30)	3,90		0,41 (0,22 - 0,60)	205	1,95	2,60		2,60 (0,70 - 3,80)	3,77		0,69 (0,17 - 1,11)	345	3,20
20	2,00		2,00 (1,10 - 2,90)	3,85		0,52(0,22-0,77)	260	2,45	3,20		3,20 (0,70 - 4,80)	3,76		0,85 (0,17 - 1,41)	425	3,95
25	2,50		2,50 (1,10 - 3,50)	3,73		0,67 (0,22 - 1,00)	335	3,15	3,60		3,60 (0,70 - 5,50)	3,50		1,03 (0,17 - 1,70)	515	4,75
35	3,50		3,50 (1,10 - 4,00)	3,47		1,01 (0,22 - 1,22)	505	4,70	4,50		4,50 (0,70 - 6,20)	3,60		1,25 (0,17 - 1,81)	625	5,80
42	4,20		4,20 (1,10 - 4,50)	3,09		1,36 (0,22 - 1,50)	680	6,35	5,00		5,00 (1,10 - 6,40)	3,23		1,55 (0,21 - 2,18)	775	7,15
50	5,00		5,00 (1,20 - 5,10)	2,96		1,69 (0,23 - 1,79)	845	7,80	5,30		5,30 (1,10 - 6,80)	3,23		1,64 (0,21 - 2,29)	820	7,60
2 Rooms																
16+16	1,60	1,60	3,20 (1,50 - 4,00)	4,71	8,50 A+++	0,68 (0,25 - 0,99)	340	3,15	2,60	2,60	5,20 (1,10 - 7,00)	4,60	4,60 A++	1,13 (0,21 - 1,81)	565	5,10
16+20	1,60	2,00	3,60 (1,50 - 4,50)	4,62	8,50 A+++	0,78 (0,25 - 1,15)	390	3,60	2,40	3,00	5,40 (1,10 - 7,00)	4,58	4,60 A++	1,18 (0,21 - 1,79)	590	5,35
16+25	1,60	2,50	4,10 (1,50 - 5,20)	4,56	8,50 A+++	0,90 (0,25 - 1,37)	450	4,15	2,10	3,30	5,40 (1,10 - 7,00)	4,58	4,60 A++	1,18 (0,21 - 1,79)	590	5,35
16+35	1,55	3,45	5,00 (1,50 - 5,20)	4,24	8,50 A+++	1,18 (0,25 - 1,37)	590	5,35	1,70	3,70	5,40 (1,10 - 7,00)	4,58	4,60 A++	1,18 (0,21 - 1,79)	590	5,35
16+42	1,40	3,60	5,00 (1,50 - 5,40)	4,24	8,50 A+++	1,18 (0,25 - 1,49)	590	5,35	1,55	4,05	5,60 (1,10 - 7,20)	4,63	4,60 A++	1,21 (0,21 - 1,80)	605	5,50
16+50	1,20	3,80	5,00 (1,50 - 5,40)	4,24	8,50 A+++	1,18 (0,25 - 1,49)	590	5,35	1,35	4,25	5,60 (1,10 - 7,20)	4,63	4,60 A++	1,21 (0,21 - 1,80)	605	5,50
20 + 20	2,00	2,00	4,00 (1,50 - 5,00)	4,49	8,50 A+++	0,89 (0,25 - 1,31)	445	4,10	2,70	2,70	5,40 (1,10 - 7,00)	4,62	4,60 A++	1,17 (0,21 - 1,77)	585	5,30
20 + 25	2,00	2,50	4,50 (1,50 - 5,20)	4,37	8,50 A+++	1,03 (0,25 - 1,37)	515	4,65	2,40	3,00	5,40 (1,10 - 7,00)	4,62	4,60 A++	1,17 (0,21 - 1,77)	585	5,30
20+35	1,80	3,20	5,00 (1,50 - 5,40)	4,24	8,50 A+++	1,18 (0,25 - 1,49)	590	5,35	2,05	3,55	5,60 (1,10 - 7,20)	4,63	4,60 A++	1,21 (0,21 - 1,80)	605	5,50
20+42	1,60	3,40	5,00 (1,50 - 5,40)	4,24	8,50 A+++	1,18 (0,25 - 1,49)	590	5,35	1,80	3,80	5,60 (1,10 - 7,20)	4,63	4,60 A++	1,21 (0,21 - 1,80)	605	5,50
20 + 50	1,45	3,55	5,00 (1,50 - 5,40)	4,24	8,50 A+++	1,18 (0,25 - 1,49)	590	5,35	1,60	4,00	5,60 (1,10 - 7,20)	4,63	4,60 A++	1,21 (0,21 - 1,80)	605	5,50
25 + 25	2,50	2,50	5,00 (1,50 - 5,40)	4,24	8,50 A+++	1,18 (0,25 - 1,49)	590	5,35	2,80	2,80	5,60 (1,10 - 7,20)	4,63	4,60 A++	1,21 (0,21 - 1,80)	605	5,50
25+35	2,10	2,90	5,00 (1,50 - 5,40)	4,24	8,50 A+++	1,18 (0,25 - 1,49)	590	5,35	2,35	3,25	5,60 (1,10 - 7,20)	4,63	4,60 A++	1,21 (0,21 - 1,80)	605	5,50
25 + 42	1,85	3,15	5,00 (1,50 - 5,40)	4,24	8,50 A+++	1,18 (0,25 - 1,49)	590	5,35	2,10	3,50	5,60 (1,10 - 7,20)	4,63	4,60 A++	1,21 (0,21 - 1,80)	605	5,50
25+50	1,65	3,35	5,00 (1,50 - 5,40)	4,24	8,50 A+++	1,18 (0,25 - 1,49)	590	5,35	1,85	3,75	5,60 (1,10 - 7,20)	4,63	4,60 A++	1,21 (0,21 - 1,80)	605	5,50
35+35	2,50	2,50	5,00 (1,50 - 5,40)	4,24	8,50 A+++	1,18 (0,25 - 1,49)	590	5,35	2,80	2,80	5,60 (1,10 - 7,20)	4,63	4,60 A++	1,21 (0,21 - 1,80)	605	5,50
35+42	2,25	2,75	5,00 (1,50 - 5,40)	4,24	8,50 A+++	1,18 (0,25 - 1,49)	590	5,35	2,55	3,05	5,60 (1,10 - 7,20)	4,63	4,60 A++	1,21 (0,21 - 1,80)	605	5,50

1) Energy Label Scale from A+++ to D.



Configure in a few steps your multi split system with our online tool.





Indoor unit capacity		Co	oling ca	pacity (kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current		He	ating ca	pacity(kW). Rooms	COP	SCOP 1)	Input power rating		Current
capacity	Α	В	С	Total (Min - Max)	W/W		kW	kWh	230V	A	В	С	Total (Min - Max)	W/W		kW	kWh	230V
1 Room																		
16	1,60			1,60 (1,30 - 2,30)	4,00		0,40 (0,25 - 0,64)	200	2,00	2,60			2,60 (1,20 - 3,20)	4,33		0,60 (0,30 - 0,96)	300	3,00
20	2,00			2,00 (1,80 - 2,90)	4,00		0,50 (0,34 - 0,81)	250	2,50	3,20			3,20 (1,20 - 4,10)	4,32		0,74(0,30 - 1,23)	370	3,70
25	2,50			2,50 (1,80 - 2,90)	3,97		0,63(0,34-0,81)	315	3,00	3,60			3,60 (1,20 - 4,30)	3,83		0,94 (0,30 - 1,23)	470	4,50
35	3,50			3,50 (1,80 - 3,80)	3,72		0,94 (0,34 - 1,36)	470	4,30	4,50			4,50 (1,20 - 5,80)	3,66		1,23 (0,30 - 2,10)	615	5,80
42	4,20			4,20 (1,80 - 4,30)	3,07		1,37 (0,34 - 1,99)	685	6,10	5,60			5,60 (1,20 - 6,80)	3,26		1,72 (0,30 - 2,93)	860	7,70
50	5,00			5,00 (1,90 - 5,70)	3,23		1,55 (0,34 - 2,13)	775	6,80	6,80			6,80 (1,20 - 6,90)	3,24		2,10 (0,30 - 2,52)	1050	9,20
2 Rooms	4.10	4 (0		0.00(1.00.(.00)	E 10		0.50(0.00.000)			0.10	0.10		500/1 (0 500)			10//00/ 100	100	
16+16 16+20	1,60	1,60		3,20 (1,80 - 6,20)	5,42 4,93	7,00 A++	0,59 (0,33 - 2,09)	295 365	2,90	2,60	2,60 3,22		5,20 (1,40 - 7,00)	4,13	3,80 A 3,80 A	1,26 (0,34 - 1,99)	720	5,80
16+25	1,60	2,50		3,60 (1,80 - 6,20) 4,10 (1,80 - 6,20)	4,66	7,00 A++ 7,00 A++	0,73 (0,33 - 2,05)	440	3,50 4,10	2,58	3,78		5,80 (1,40 - 7,00)	3,95	3,80 A	1,44 (0,33 - 1,95) 1,57 (0,33 - 1,95)	720	7,20
16+25	1,60	3,50		5,10(1,80 - 6,30)	3,89	7,00 A++	1,31 (0,33 - 2,06)	655	6,00	2,42	4,67		6,20 (1,40 - 7,00) 6,80 (1,40 - 7,30)	3,89	3,80 A	1,75 (0,29 - 2,05)	875	7,20
16+42	1,43	3,77		5,20 (1,90 - 6,40)	3,85	7,00 A++	1,35 (0,35 - 2,10)	675	6,20	1,88	4,92		6,80(1,40 - 7,30)	3,98	3,80 A	1,71 (0,31 - 2,04)	855	7,80
16+50	1,26	3,94		5,20(1,90 - 6,80)	4,44	7,20 A++	1,17(0,34 - 2,04)	585	5,40	1,65	5,15		6,80(1,40 - 8,00)	4,36	4,00 A+	1,56 (0,27 - 2,15)	780	7,10
20+20	2,00	2,00		4,00(1,80 - 6,20)	4,71	7,00 A++	0,85 (0,33 - 2,01)	425	4,00	3,20	3,20		6,40 (1,40 - 7,00)	3,93	3,80 A	1,63 (0,32 - 1,95)	815	7,40
20 + 25	2,00	2,50		4,50 (1,80 - 6,20)	4,33	7,00 A++	1,04 (0,33 - 2,01)	520	4,80	3,02	3,78		6,80 (1,40 - 7,00)	3,86	3,80 A	1,76 (0,29 - 1,95)	880	8,00
20+35	1,89	3,31		5,20 (1,80 - 6,30)	3,85	7,00 A++	1,35 (0,33 - 2,02)	675	6,20	2,47	4,33		6,80 (1,40 - 7,30)	3,98	3,80 A	1,71 (0,28 - 2,04)	855	7,80
20 + 42	1,68	3,52		5,20 (1,90 - 6,40)	3,94	7,00 A++	1,32(0,35 - 2,06)	660	6,00	2,19	4,61		6,80 (1,40 - 7,30)	4,00	3,80 A	1,70 (0,30 - 2,00)	850	7,80
20 + 50	1,49	3,71		5,20 (1,90 - 6,80)	4,44	7,20 A++	1,17 (0,34 - 2,04)	585	5,40	1,94	4,86		6,80 (1,40 - 8,00)	4,36	4,00 A+	1,56 (0,27 - 2,15)	780	7,10
25+25	2,50	2,50		5,00 (1,80 - 6,20)	3,91	7,00 A++	1,28 (0,33 - 2,01)	640	5,80	3,40	3,40		6,80 (1,40 - 7,00)	3,86	3,80 A	1,76 (0,29 - 1,95)	880	8,00
25+35	2,17	3,03		5,20 (1,90 - 6,30)	3,85	7,00 A++	1,35 (0,35 - 2,02)	675	6,20	2,83	3,97		6,80 (1,40 - 7,30)	3,98	3,80 A	1,71 (0,28 - 2,04)	855	7,80
25+42	1,94	3,26		5,20 (1,90 - 6,40)	3,94	7,00 A++	1,32 (0,35 - 2,06)	660	6,00	2,54	4,26		6,80 (1,40 - 7,30)	4,00	3,80 A	1,70 (0,28 - 2,00)	850	7,80
25 + 50	1,73	3,47		5,20 (1,90 - 6,80)	4,44	7,20 A++	1,17 (0,34 - 2,04)	585	5,40	2,27	4,53		6,80 (1,40 - 8,00)	4,36	4,00 A+	1,56 (0,24 - 2,15)	780	7,10
35+35	2,60	2,60		5,20 (1,90 - 6,40)	4,06	7,00 A++	1,28 (0,35 - 2,02)	640	5,80	3,40	3,40		6,80 (1,40 - 7,50)	4,02	3,80 A	1,69 (0,27 - 2,06)	845	7,70
35+42	2,36	2,84		5,20 (1,90 - 6,50)	4,06	7,00 A++	1,28 (0,35 - 2,07)	640	5,80	3,09	3,71		6,80 (1,40 - 7,50)	4,02	3,80 A	1,69 (0,26 - 2,06)	845	7,70
35+50	2,14	3,06		5,20 (1,90 - 6,90)	4,60	7,20 A++	1,13 (0,36 - 2,04)	565	5,20	2,80	4,00		6,80 (1,40 - 8,00)	4,42	4,00 A+	1,54(0,24-2,08)	770	7,00
42+42	2,60	2,60		5,20 (1,90 - 6,50)	4,06	7,00 A++	1,28(0,35-2,07)	640	5,80	3,40	3,40		6,80 (1,40 - 7,60)	4,12	3,80 A	1,65 (0,26 - 2,09)	825	7,50
42+50	2,37	2,83		5,20 (1,90 - 6,90)	4,60	7,20 A++	1,13 (0,36 - 2,04)	565	5,20	3,10	3,70		6,80 (1,40 - 8,00)	4,44	4,00 A+	1,53 (0,24 - 2,08)	765	7,00
3 Rooms																		
16+16+16	1,60	1,60	1,60	4,80 (1,80 - 7,20)	5,05	8,50 A+++	0,95 (0,36 - 2,13)	475	4,40	2,26	2,26	2,26	6,78 (1,50 - 8,10)	4,58	4,20 A+	1,48 (0,29 - 2,10)	740	6,80
16+16+20	1,60	1,60	2,00	5,20 (1,80 - 7,30)	4,77	8,50 A+++	1,09 (0,36 - 2,18)	545	5,00	2,09	2,09	2,62	6,80 (1,60 - 8,30)	4,63	4,20 A+	1,47 (0,32 - 2,17)	735	6,70
16+16+25	1,46	1,46	2,28	5,20 (1,90 - 7,20)	4,77	8,50 A+++	1,09 (0,39 - 2,09)	545	5,00	1,91	1,91	2,98	6,80 (1,60 - 8,30)	4,63	4,20 A+	1,47 (0,32 - 2,17)	735	6,70
16+16+35	1,24	1,24	2,72	5,20 (1,90 - 7,20)	4,77	8,50 A+++	1,09 (0,39 - 2,04)	545	5,00	1,62	1,62	3,56	6,80 (1,60 - 8,30)	4,69	4,20 A+	1,45 (0,34 - 2,10)	725	6,60
16+16+42	1,12	1,12	2,96	5,20 (1,80 - 7,30)	4,77	8,50 A+++	1,09 (0,39 - 2,09)	545	5,00	1,47	1,47	3,86	6,80 (1,60 - 8,30)	4,69	4,20 A+	1,45 (0,31 - 2,10)	725	6,60
16+16+50	1,01	1,01	3,18	5,20 (1,80 - 7,30)	5,15	8,50 A+++	1,01 (0,42 - 1,91)	505	4,70	1,33	1,33	4,14	6,80 (1,60 - 8,30)	5,07	4,20 A+	1,34 (0,33 - 1,96)	670	6,10
16+20+20	1,48	1,86	1,86	5,20 (1,90 - 7,20)	4,77	8,50 A+++	1,09 (0,39 - 2,09)	545	5,00	1,94	2,43	2,43	6,80 (1,60 - 8,30)	4,66	4,20 A+	1,46 (0,31 - 2,12)	730	6,70
16+20+25	1,36	1,70	2,14	5,20 (1,90 - 7,20)	4,77	8,50 A+++	1,09 (0,39 - 2,09)	545	5,00	1,78	2,23	2,79	6,80 (1,60 - 8,30)	4,66	4,20 A+	1,46 (0,31 - 2,12)	730	6,70
16+20+35	1,17	1,46	2,57	5,20 (1,90 - 7,20)	4,77	8,50 A+++	1,09 (0,39 - 2,00)	545	5,00	1,53	1,92	3,35	6,80 (1,60 - 8,30)	4,69	4,20 A+	1,45 (0,34 - 2,10)	725	6,60
16+20+42	1,07	1,33	2,80	5,20 (1,80 - 7,30)	4,77	8,50 A+++	1,09 (0,39 - 2,09)	545	5,00	1,39	1,74	3,67	6,80 (1,60 - 8,30)	4,72	4,20 A+	1,44 (0,31 - 2,09)	720	6,60
16+20+50	0,97	1,21	3,02	5,20 (1,80 - 7,30)	5,15	8,50 A+++	1,01 (0,42 - 1,86)	505	4,70	1,27	1,58	3,95	6,80 (1,60 - 8,30)	5,11	4,20 A+	1,33 (0,34 - 1,95)	665	6,10
16+25+25	1,26	1,97	1,97	5,20 (1,90 - 7,20)	4,77	8,50 A+++	1,09 (0,39 - 2,09)	545	5,00	1,64	2,58	2,58	6,80 (1,60 - 8,30)	4,66	4,20 A+	1,46 (0,31 - 2,12)	730	6,70
16+25+35	1,09	1,71	2,40	5,20 (1,80 - 7,30)	4,77	8,50 A+++ 8,50 A+++	1,09 (0,39 - 2,09)	545 545	5,00	1,43	2,24	3,13	6,80 (1,60 - 8,30)	4,69	4,20 A+ 4,20 A+	1,45 (0,34 - 2,10)	725 720	6,60
16+25+42 16+25+50	1,00 0,91	1,57	2,86	5,20 (1,80 - 7,30) 5,20 (1,80 - 7,30)	4,77 5,15		1,09 (0,39 - 2,09)	505	5,00 4,70	1,31	1,87	3,44	6,80 (1,60 - 8,30)		4,20 A+	1,44 (0,31 - 2,09)	665	6,60
16+25+50	0,91	2,12	2,86	5,20(1,80 - 7,30)	4,95	8,50 A+++ 8,50 A+++	1,01 (0,42 - 1,86)	505	4,70	1,19	2,77	2,77	6,80 (1,60 - 8,30) 6,80 (1,60 - 8,30)	5,11	4,20 A+	1,33 (0,34 - 1,95)	715	6,50
16+35+35	0,96	1,96	2,12	5,20 (1,80 - 7,30)	4,95	8,50 A+++	1,05 (0,39 - 2,04)	525	4,80	1,17	2,77	3,07	6,80 (1,60 - 8,30)	4,76	4,20 A+	1,42 (0,32 - 2,06)	710	6,50
20+20+20	1,73	1,78	1,73	5,19 (1,90 - 7,20)	4,76	8,50 A+++	1,09 (0,39 - 2,04)	545	5,00	2,26	2,36	2,26	6,78 (1,60 - 8,30)	4,64	4,20 A+	1,46 (0,31 - 2,11)	730	6,70
20+20+20	1,60	1,60	2,00	5,20 (1,90 - 7,20)	4,77	8,50 A+++	1,09 (0,39 - 2,04)	545	5,00	2,28	2,09	2,62	6,80 (1,60 - 8,30)	4,66	4,20 A+	1,46 (0,31 - 2,11)	730	6,70
20+20+25	1,39	1,39	2,42	5,20 (1,90 - 7,20)	4,77	8,50 A+++	1,05 (0,39 - 2,00)	525	4,80	1,81	1,81	3,18	6,80 (1,60 - 8,30)	4,72	4,20 A+	1,44 (0,34 - 2,09)	720	6,60
20+20+33	1,27	1,27	2,66	5,20 (1,80 - 7,30)	4,75	8,50 A+++	1,05(0,37 - 2,04)	525	4,80	1,66	1,66	3,48	6,80 (1,60 - 8,30)	4,76	4,20 A+	1,43 (0,32 - 2,08)	715	6,50
20+20+42	1,16	1,16	2,88	5,20 (1,80 - 7,30)	5,15	8,50 A+++	1,01 (0,42 - 1,86)	505	4,70	1,51	1,51	3,78	6,80 (1,60 - 8,30)	5,11	4,20 A+	1,33 (0,34 - 1,94)	665	6,10
20+25+25	1,48	1,86	1,86	5,20 (1,90 - 7,20)	4,77	8,50 A+++	1,09 (0,39 - 2,04)	545	5,00	1,94	2,43	2,43	6,80 (1,60 - 8,30)	4,66	4,20 A+	1,46 (0,31 - 2,11)	730	6,70
20+25+35	1,29	1,63	2,28	5,20 (1,90 - 7,20)	4,95	8,50 A+++	1,05 (0,39 - 2,00)	525	4,80	1,69	2,13	2,98	6,80 (1,60 - 8,30)	4,72	4,20 A+	1,44 (0,34 - 2,09)	720	6,60
20+25+42	1,20	1,49	2,51	5,20 (1,80 - 7,30)	4,75	8,50 A+++	1,05(0,39 - 2,04)	525	4,80	1,56	1,95	3,29	6,80 (1,60 - 8,30)	4,76	4,20 A+	1,43 (0,32 - 2,08)	715	6,50
20+25+50	1,09	1,37	2,74	5,20 (1,80 - 7,30)	5,15	8,50 A+++	1,01 (0,42 - 1,86)	505	4,70	1,43	1,79	3,58	6,80 (1,60 - 8,30)	5,11	4,20 A+	1,33 (0,34 - 1,94)	665	6,10
0+35+35	1,16	2,02	2,02	5,20 (1,80 - 7,30)	4,95	8,50 A+++	1,05 (0,39 - 2,00)	525	4,80	1,52	2,64	2,64	6,80 (1,60 - 8,30)	4,79	4,20 A+	1,42(0,32-2,06)	710	6,50
25+25+25	1,73	1,73	1,73	5,19 (1,90 - 7,20)	4,76	8,50 A+++	1,09 (0,39 - 2,04)	545	5,00	2,26	2,26	2,26	6,78 (1,60 - 8,30)	4,64	4,20 A+	1,46 (0,31 - 2,11)	730	6,70
25+25+35	1,53	1,53	2,14	5,20 (1,90 - 7,20)	4,95	8,50 A+++	1,05 (0,39 - 2,00)	525	4,80	2,00	2,00	2,80	6,80 (1,60 - 8,30)	4,72	4,20 A+	1,44(0,31-2,09)	720	6,60
25 + 25 + 42	1,41	1,41	2,38	5,20 (1,80 - 7,30)	4,95	8,50 A+++	1,05 (0,39 - 2,04)	525	4,80	1,85	1,85	3,10	6,80 (1,60 - 8,30)	4,76	4,20 A+	1,43 (0,68 - 2,08)	715	6,50
		1,92	1,92	5,20 (1,80 - 7,30)	4,95	8,50 A+++	1,05 (0,39 - 2,00)	525	4,80	1,78	2,51	2,51	6,80 (1,60 - 8,30)	4,79	4,20 A+	1,42 (0,68 - 2,06)	710	6,50

1) Energy Label Scale from A+++ to D.

Free Multi R32 combinations table

	utti .									MIDX			pacity conne					
Indoor unit capacity		Coo	ling cap	pacity (kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current		Hea	ting cap	pacity (kW). Rooms	COP	SCOP 11	Input power rating	A.E.C.	Current
	Α	В	С	Total (Min - Max)	W/W		kW	kWh	230V	Α	В	С	Total (Min - Max)	W/W		kW	kWh	230V
1 Room																		
16	1,60			1,60 (1,30 - 2,30) 2,00 (1,80 - 2,90)	4,00		0,40 (0,25 - 0,64)	200 250	2,00	2,60 3,20			2,60(1,20 - 3,20) 3,20(1,20 - 4,10)	4,33 4,32		0,60 (0,30 - 0,96)	300 370	3,00
25	2,50			2,50 (1,80 - 2,70)	3,97		0,63 (0,34 - 0,81)	315	3,20	3,60			3,60 (1,20 - 4,30)	3,83		0,74(0,30-1,23)	470	4,70
35	3,50			3,50 (1,80 - 3,80)	3,72		0,94(0,34-1,36)	470	4,50	4,50			4,50 (1,20 - 5,80)	3,66		1,23 (0,30 - 2,10)	615	6,00
42	4,20			4,20 (1,80 - 4,30)	3,07		1,37 (0,34 - 1,99)	685	6,40	5,60			5,60 (1,20 - 6,80)	3,26		1,72 (0,30 - 2,93)	860	8,00
50	5,00			5,00 (1,90 - 5,70)	3,23		1,55 (0,34 - 2,13)	775	7,20	6,80			6,80 (1,20 - 6,90)	3,24		2,10 (0,30 - 2,52)	1050	9,70
60 2 Rooms	6,00			6,00 (1,90 - 6,20)	2,96		2,03 (0,34 - 2,33)	1015	9,20	8,50			8,50 (1,30 - 9,00)	3,54		2,40 (0,62 - 2,55)	1200	11,10
16+16	1,60	1,60		3,20 (1,90 - 6,40)	5,71	6,10 A++	0,56 (0,27 - 2,12)	280	2,80	2,60	2,60		5,20 (2,70 - 9,80)	4,00	3,80 A	1,30 (0,66 - 3,01)	650	5,90
16+20	1,60	2,00		3,60 (1,90 - 6,40)	5,22	6,10 A++	0,69 (0,27 - 2,08)	345	3,40	2,58	3,22		5,80 (2,70 - 9,80)	3,92	3,80 A	1,48 (0,65 - 3,02)	740	6,80
16+25	1,60	2,50		4,10 (1,90 - 6,40)	4,94	6,10 A++	0,83 (0,27 - 2,08)	415	3,90	2,42	3,78		6,20 (2,70 - 9,80)	3,85	3,80 A	1,61 (0,65 - 3,02)	805	7,40
16+35	1,60	3,50		5,10 (1,90 - 6,90)	4,08	6,10 A++	1,25 (0,27 - 2,48)	625	5,70	2,23	4,87		7,10 (2,70 - 9,90)	3,74	3,80 A	1,90 (0,63 - 3,02)	950 1165	8,60
16+42 16+50	1,60	4,20 5,00		5,80 (1,90 - 6,90) 6,60 (2,00 - 7,50)	3,60	6,10 A++ 6,50 A++	1,61 (0,27 - 2,44)	910	7,40 8,20	2,26	5,94		8,20 (2,70 - 9,90) 8,50 (2,80 - 10,20)	3,52 3,76	3,80 A 3,80 A	2,33 (0,63 - 3,02) 2,26 (0,56 - 2,99)	1130	10,50
16+60	1,43	5,37		6,80 (2,00 - 7,50)	3,49	6,50 A++	1,95 (0,28 - 2,52)	975	8,80	1,79	6,71		8,50 (2,80 - 10,20)	3,76	3,80 A	2,26 (0,56 - 2,99)	1130	10,20
20+20	2,00	2,00		4,00 (1,90 - 6,40)	5,00	6,10 A++	0,80 (0,27 - 2,04)	400	3,80	3,20	3,20		6,40 (2,70 - 9,80)	3,83	3,80 A	1,67 (0,64 - 3,02)	835	7,60
20+25	2,00	2,50		4,50 (1,90 - 6,40)	4,59	6,10 A++	0,98 (0,27 - 2,04)	490	4,60	3,02	3,78		6,80 (2,70 - 9,80)	3,78	3,80 A	1,80 (0,64 - 3,02)	900	8,10
20+35	2,00	3,50		5,50 (1,90 - 6,90)	3,85	6,10 A++	1,43 (0,27 - 2,44)	715	6,50	2,80	4,90		7,70 (2,70 - 9,90)	3,65	3,80 A	2,11 (0,63 - 3,02)	1055	9,50
20+42	2,00	4,20		6,20 (1,90 - 6,90)	3,35	6,10 A++	1,85 (0,27 - 2,40)	925	8,40	2,74	5,76		8,50 (2,70 - 9,90)	3,48	3,80 A	2,44 (0,62 - 3,03)	1220	11,00
20+50	1,94	5,10		6,80 (2,00 - 7,50) 6,80 (2,00 - 7,50)	3,49	6,50 A++ 6,50 A++	1,95 (0,28 - 2,48)	975 975	8,80	2,43	6,38		8,50 (2,80 - 10,20) 8,50 (2,80 - 10,20)	3,76	3,80 A 3,80 A	2,26 (0,56 - 2,99)	1130	10,20
25+25	2,50	2,50		5,00 (1,90 - 6,80)	4,13	6,10 A++	1,21 (0,27 - 2,43)	605	5,60	3,60	3,60		7,20 (2,70 - 9,80)	3,71	3,80 A	1,94(0,64 - 3,02)	970	8,80
25+35	2,50	3,50		6,00 (1,90 - 6,90)	3,47	6,10 A++	1,73 (0,27 - 2,44)	865	7,90	3,37	4,73		8,10 (2,70 - 9,90)	3,60	3,80 A	2,25 (0,63 - 3,02)	1125	10,20
25+42	2,50	4,20		6,70 (1,90 - 6,90)	2,94	6,10 A++	2,28(0,27-2,40)	1140	10,30	3,17	5,33		8,50 (2,70 - 9,90)	3,48	3,80 A	2,44[0,62-3,03]	1220	11,00
25+50	2,27	4,53		6,80 (1,90 - 7,50)	3,49	6,50 A++	1,95 (0,26 - 2,48)	975	8,80	2,83	5,67		8,50 (2,80 - 10,20)	3,76	3,80 A	2,26 [0,56 - 2,99]	1130	10,20
25+60	2,00	4,80		6,80 (1,90 - 7,50)	3,49	6,50 A++	1,95 (0,26 - 2,48)	975	8,80	2,50	6,00		8,50 (2,80 - 10,20)	3,76	3,80 A	2,26 (0,56 - 2,99)	1130	10,20
35+35 35+42	3,40	3,40		6,80 (1,90 - 7,00) 6,80 (1,90 - 7,10)	2,97 3,04	6,10 A++ 6,10 A++	2,29 (0,27 - 2,40) 2,24 (0,27 - 2,50)	1145	10,40	4,25 3,86	4,25		8,50 (2,80 - 10,00) 8,50 (2,80 - 10,00)	3,56 3,56	3,80 A 3,80 A	2,39 (0,64 - 3,02)	1195 1195	10,80
35+50	2,80	4,00		6,80 (2,00 - 7,60)	3,64	6,50 A++	1,87 (0,28 - 2,48)	935	8,50	3,50	5,00		8,50 (2,80 - 10,30)	3,86	3,80 A	2,20 (0,54 - 2,97)	1100	10,00
35+60	2,51	4,29		6,80 (2,00 - 7,60)	3,64	6,50 A++	1,87 (0,28 - 2,48)	935	8,50	3,13	5,37		8,50 (2,80 - 10,30)	3,86	3,80 A	2,20 (0,54 - 2,97)	1100	10,00
42+42	3,40	3,40		6,80 (1,90 - 7,10)	3,02	6,10 A++	2,25 (0,26 - 2,45)	1125	10,20	4,25	4,25		8,50 (2,80 - 10,00)	3,57	3,80 A	2,38 (0,60 - 2,98)	1190	10,80
42+50	3,10	3,70		6,80 (2,00 - 7,60)	3,64	6,50 A++	1,87 (0,28 - 2,44)	935	8,50	3,88	4,62		8,50 (2,80 - 10,30)	3,88	3,80 A	2,19 (0,54 - 2,96)	1095	9,90
42+60	2,80	4,00		6,80 (2,00 - 7,60)	3,64	6,50 A++	1,87 (0,28 - 2,44)	935	8,50	3,50	5,00		8,50 (2,80 - 10,30)	3,88	3,80 A	2,19 (0,54 - 2,96)	1095	9,90
50 + 50 50 + 60	3,40	3,40		6,80 (2,10 - 8,10) 6,80 (2,10 - 8,10)	4,10 4,10	6,50 A++ 6,50 A++	1,66 (0,32 - 2,50) 1,66 (0,32 - 2,50)	830	7,60	4,25 3,86	4,25		8,50 (2,80 - 10,50) 8,50 (2,80 - 10,50)	4,15 4,15	3,80 A 3,80 A	2,05 (0,51 - 2,87) 2,05 (0,51 - 2,87)	1025	9,30
3 Rooms	0,07	5,71		0,00 (2,10 0,10)	4,10	0,00 A11	1,00 (0,02 2,00)	030	7,00	5,00	4,04		0,30 (2,00 10,30)	4,10	0,00 A	2,00(0,01 2,07)	1023	7,00
16+16+16	1,60	1,60	1,60	4,80 (1,90 - 8,00)	4,85	8,00 A++	0,99 (0,27 - 2,50)	495	4,60	2,60	2,60	2,60	7,80 (3,30 - 10,40)	3,98	4,20 A+	1,96 (0,64 - 2,95)	980	8,90
16+16+20	1,60	1,60	2,00	5,20 (1,90 - 8,00)	4,60	8,00 A++	1,13 (0,27 - 2,46)	565	5,20	2,58	2,58	3,24	8,40 (3,30 - 10,40)	3,84	4,20 A+	2,19 (0,64 - 2,94)	1095	9,90
16+16+25	1,60	1,60	2,50	5,70 (1,90 - 8,00)	4,19	8,00 A++	1,36 (0,27 - 2,46)	680	6,20	2,39	2,39	3,72	8,50 (3,30 - 10,40)	3,81	4,20 A+	2,23 (0,64 - 2,94)	1115	10,10
16+16+35	1,60	1,60	3,50	6,70 (1,90 - 8,00) 6,80 (1,90 - 8,10)	3,68	8,00 A++ 8,00 A++	1,82 (0,27 - 2,37)	910 930	8,20 8,40	2,03	2,03	4,44	8,50 (3,30 - 10,40) 8,50 (3,30 - 10,50)	3,94	4,20 A+ 4,20 A+	2,16 (0,63 - 2,92) 2,15 (0,62 - 2,95)	1080	9,80 9,70
16+16+50	1,33	1,33	4,14	6,80 (2,00 - 8,50)	3,93	8,00 A++	1,73 (0,32 - 2,42)	865	7,90	1,66	1,66	5,18	8,50 (3,20 - 10,60)	4,21	4,20 A+	2,02 (0,60 - 2,80)	1010	9,10
16+16+60	1,18	1,18	4,44	6,80 (2,00 - 8,50)	3,93	8,00 A++	1,73 (0,32 - 2,42)	865	7,90	1,48	1,48	5,54	8,50 (3,20 - 10,60)	4,21	4,20 A+	2,02 (0,60 - 2,80)	1010	9,10
16+20+20	1,60	2,00	2,00	5,60 (1,90 - 8,00)	4,38	8,00 A++	1,28 (0,27 - 2,46)	640	5,80	2,42	3,04	3,04	8,50 (3,30 - 10,40)	3,83	4,20 A+	2,22 [0,63 - 2,93]	1110	10,00
16+20+25	1,60	2,00	2,50	6,10(1,90-8,00)	4,01	8,00 A++	1,52(0,27 - 2,46)	760	6,90	2,23	2,79	3,48	8,50 (3,30 - 10,40)	3,83	4,20 A+	2,22 (0,63 - 2,93)	1110	10,00
16+20+35	1,53	1,92	3,35	6,80(1,90 - 8,00)	3,66	8,00 A++	1,86 (0,27 - 2,37)	930	8,40	1,92	2,39	4,19	8,50 (3,30 - 10,40) 8 50 (3,30 - 10,50)	3,95 3,95	4,20 A+	2,15(0,62-2,86)	1075	9,70 9,70
16+20+42	1,27	1,74	3,67	6,80(1,90-8,10)	4,05	8,00 A++ 8,00 A++	1,86(0,27-2,42)	840	7,70	1,74	1,98	4,58	8,50 (3,30 - 10,50) 8,50 (3,20 - 10,60)	4,23	4,20 A+ 4,20 A+	2,15(0,62-2,90)	1005	9,10
16+20+60	1,13	1,42	4,25	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,32 - 2,42)	840	7,70	1,42	1,77	5,31	8,50 (3,20 - 10,60)	4,23	4,20 A+	2,01 (0,60 - 2,79)	1005	9,10
16+25+25	1,60	2,50	2,50	6,60 (1,90 - 8,00)	3,73	8,00 A++	1,77 (0,27 - 2,46)	885	8,00	2,06	3,22	3,22	8,50 (3,30 - 10,40)	3,83	4,20 A+	2,22 (0,63 - 2,93)	1110	10,00
16+25+35	1,43	2,24	3,13	6,80 (1,90 - 8,00)	3,66	8,00 A++	1,86 (0,27 - 2,37)	930	8,40	1,79	2,80	3,91	8,50 (3,30 - 10,40)	3,95	4,20 A+	2,15 (0,62 - 2,86)	1075	9,70
16+25+42	1,31	2,05	3,44	6,80 (1,90 - 8,10)	3,66	8,00 A++	1,86 (0,27 - 2,42)	930	8,40	1,64	2,56	4,30	8,50 (3,30 - 10,50)	3,95	4,20 A+	2,15 (0,62 - 2,90)	1075	9,70
16+25+50 16+25+60	1,19	1,87	3,74 4,04	6,80 (2,00 - 8,50) 6,80 (2,00 - 8,50)	4,05 4,05	8,00 A++ 8,00 A++	1,68 (0,32 - 2,42) 1,68 (0,32 - 2,42)	840 840	7,70	1,49	2,34	4,67 5,05	8,50 (3,20 - 10,60) 8,50 (3,20 - 10,60)	4,23	4,20 A+ 4,20 A+	2,01 (0,60 - 2,79)	1005	9,10
16+35+35	1,26	2,77	2,77	6,80 (1,90 - 8,10)	3,74	8,00 A++	1,82 (0,29 - 2,37)	910	8,20	1,58	3,46	3,46	8,50 (3,30 - 10,50)	3,99	4,20 A+	2,13 (0,64 - 2,88)	1065	9,60
16+35+42	1,17	2,56	3,07	6,80 (1,90 - 8,20)	3,74	8,00 A++	1,82 (0,29 - 2,42)	910	8,20	1,46	3,20	3,84	8,50 (3,30 - 10,50)	4,01	4,20 A+	2,12 (0,64 - 2,87)	1060	9,60
16+35+50	1,07	2,36	3,37	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,34	2,95	4,21	8,50 (3,20 - 10,60)	4,27	4,20 A+	1,99 (0,60 - 2,77)	995	9,00
16+35+60	0,98	2,14	3,68	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,23	2,68	4,59	8,50 (3,20 - 10,60)	4,27	4,20 A+	1,99 (0,60 - 2,77)	995	9,00
16+42+42	1,08	2,86	2,86	6,80 (1,90 - 8,20)	3,74	8,00 A++	1,82 (0,29 - 2,42)	910	8,20	1,36	3,57	3,57	8,50 (3,30 - 10,50)	4,03	4,20 A+	2,11 (0,64 - 2,86)	1055	9,50
16+42+50 20+20+20	2,00	2,64	3,15 2,00	6,80 (2,00 - 8,50) 6,00 (1,90 - 8,00)	4,05 4,05	8,00 A++ 8,00 A++	1,68 (0,34 - 2,33)	740	7,70 6,80	1,25 2,83	3,31 2,83	2,83	8,50 (3,20 - 10,60) 8,49 (3,30 - 10,40)	4,29 3,91	4,20 A+ 4,20 A+	1,98 (0,60 - 2,76) 2,17 (0,63 - 2,92)	990 1085	9,00
20+20+25	2,00	2,00	2,50	6,50 (1,90 - 8,00)	3,76	8,00 A++	1,73 (0,27 - 2,41)	865	7,90	2,62	2,62	3,26	8,50 (3,30 - 10,40)	3,92	4,20 A+	2,17 (0,63 - 2,72)	1085	9,80
20+20+35	1,81	1,81	3,18	6,80 (1,90 - 8,00)	3,66	8,00 A++	1,86 (0,27 - 2,32)	930	8,40	2,27	2,27	3,96	8,50 (3,30 - 10,40)	3,95	4,20 A+	2,15 (0,62 - 2,85)	1075	9,70
20+20+42	1,66	1,66	3,48	6,80 (1,90 - 8,10)	3,74	8,00 A++	1,82 (0,29 - 2,42)	910	8,20	2,07	2,07	4,36	8,50 (3,30 - 10,50)	3,97	4,20 A+	2,14 [0,62 - 2,89]	1070	9,70
20+20+50	1,51	1,51	3,78	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,89	1,89	4,72	8,50 (3,20 - 10,60)	4,25	4,20 A+	2,00 (0,60 - 2,78)	1000	9,00
20+20+60	1,36	1,36	4,08	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,70	1,70	5,10	8,50 (3,20 - 10,60)	4,25	4,20 A+	2,00 (0,60 - 2,78)	1000	9,00
20+25+25	1,94	2,43	2,43	6,80 (1,90 - 8,00)	3,66	8,00 A++	1,86 (0,27 - 2,41)	930	8,40	2,42	3,04	3,04	8,50 (3,30 - 10,40)	3,92	4,20 A+	2,17(0,63-2,92)	1085	9,80
20+25+35	1,69	2,13 1,95	3,29	6,80 (1,90 - 8,00) 6,80 (1,90 - 8,10)	3,66	8,00 A++ 8,00 A++	1,86 (0,27 - 2,32) 1,82 (0,29 - 2,42)	930 910	8,40 8,20	2,12 1,95	2,66	3,72 4,11	8,50 (3,30 - 10,40) 8,50 (3,30 - 10,50)	3,95 3,97	4,20 A+ 4,20 A+	2,15 (0,62 - 2,85) 2,14 (0,62 - 2,89)	1075	9,70
20+25+50	1,43	1,79	3,58	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,79	2,24	4,47	8,50 (3,20 - 10,60)	4,25	4,20 A+	2,00 (0,60 - 2,78)	1000	9,00
20+25+60	1,29	1,62	3,89	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,62	2,02	4,86	8,50 (3,20 - 10,60)	4,25	4,20 A+	2,00 (0,60 - 2,78)	1000	9,00
20+35+35	1,52	2,64	2,64	6,80 (1,90 - 8,10)	3,74	8,00 A++	1,82 (0,29 - 2,33)	910	8,20	1,88	3,31	3,31	8,50 (3,30 - 10,50)	4,01	4,20 A+	2,12 (0,64 - 2,87)	1060	9,60
20+35+42	1,40	2,45	2,95	6,80 (1,90 - 8,20)	3,74	8,00 A++	1,82 (0,29 - 2,42)	910	8,20	1,75	3,07	3,68	8,50 (3,30 - 10,50)	4,03	4,20 A+	2,11 (0,64 - 2,86)	1055	9,50
20+35+50	1,29	2,27	3,24	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,33)	840	7,70	1,62	2,83	4,05	8,50 (3,20 - 10,60)	4,29	4,20 A+	1,98 (0,60 - 2,76)	990	9,00
20+42+42	1,30	2,75	2,75	6,80 (1,90 - 8,20)	3,84	8,00 A++	1,77 (0,29 - 2,37)	885	8,00 7.70	1,64	3,43	3,43	8,50 (3,30 - 10,50) 8 50 (3,30 - 10,60)	4,05	4,20 A+	2,10 (0,63 - 2,86)	1050	9,50 8,90
/U+4/+5U	1,21	2,55	3,04	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,33)	840	7,70	1,52	3,19	3,79	8,50 (3,20 - 10,60)	4,31	4,20 A+	1,97 (0,62 - 2,75)	985	8,9





Free Multi 3x1 CU-3Z68TBE. Minimum of	apacity connected: 4,5 kW. Maximum capacit	y connected: 11,2 kW · R32
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	Cod	oling cap	pacity (kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current		Hea	iting cap	pacity (kW). Rooms	COP	SCOP 1)	Input power rating	A.E.C.	Current
Α	В	С	Total (Min - Max)	W/W		kW	kWh	230V	Α	В	С	Total (Min - Max)	W/W		kW	kWh	230V
2,26	2,26	2,26	6,78 (1,90 - 8,00)	3,65	8,00 A++	1,86 (0,27 - 2,41)	930	8,40	2,83	2,83	2,83	8,49 (3,30 - 10,40)	3,91	4,20 A+	2,17 (0,63 - 2,92)	1085	9,80
2,00	2,00	2,80	6,80 (1,90 - 8,00)	3,66	8,00 A++	1,86 (0,27 - 2,32)	930	8,40	2,50	2,50	3,50	8,50 (3,30 - 10,40)	3,95	4,20 A+	2,15 (0,62 - 2,85)	1075	9,70
1,85	1,85	3,10	6,80 (1,90 - 8,10)	3,74	8,00 A++	1,82 (0,29 - 2,42)	910	8,20	2,31	2,31	3,88	8,50 (3,30 - 10,50)	3,97	4,20 A+	2,14 [0,62 - 2,89]	1070	9,70
1,70	1,70	3,40	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	2,13	2,13	4,24	8,50 (3,20 - 10,60)	4,25	4,20 A+	2,00 (0,60 - 2,78)	1000	9,00
1,55	1,55	3,70	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,93	1,93	4,64	8,50 (3,20 - 10,60)	4,25	4,20 A+	2,00 (0,60 - 2,78)	1000	9,00
1,78	2,51	2,51	6,80 (1,90 - 8,10)	3,74	8,00 A++	1,82 (0,29 - 2,33)	910	8,20	2,24	3,13	3,13	8,50 (3,30 - 10,50)	4,01	4,20 A+	2,12 (0,64 - 2,87)	1060	9,60
1,67	2,33	2,80	6,80 (1,90 - 8,20)	3,74	8,00 A++	1,82 (0,29 - 2,42)	910	8,20	2,08	2,92	3,50	8,50 (3,30 - 10,50)	4,03	4,20 A+	2,11 (0,64 - 2,86)	1055	9,50
1,55	2,16	3,09	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,33)	840	7,70	1,93	2,70	3,87	8,50 (3,20 - 10,60)	4,29	4,20 A+	1,98 (0,60 - 2,76)	990	9,00
1,56	2,62	2,62	6,80 (1,90 - 8,20)	3,84	8,00 A++	1,77 (0,29 - 2,37)	885	8,00	1,94	3,28	3,28	8,50 (3,30 - 10,50)	4,05	4,20 A+	2,10 (0,63 - 2,86)	1050	9,50
2,26	2,26	2,26	6,78 (1,90 - 8,20)	3,83	8,00 A++	1,77 (0,29 - 2,33)	885	8,00	2,83	2,83	2,83	8,49 (3,30 - 10,50)	4,12	4,20 A+	2,06 (0,63 - 2,85)	1030	9,30
2,13	2,13	2,54	6,80 (1,90 - 8,20)	3,84	8,00 A++	1,77 (0,29 - 2,33)	885	8,00	2,66	2,66	3,18	8,50 (3,30 - 10,50)	4,15	4,20 A+	2,05 (0,63 - 2,80)	1025	9,30
	2,26 2,00 1,85 1,70 1,55 1,78 1,67 1,55 1,56 2,26	A B 2,26 2,26 2,00 2,00 1,85 1,85 1,70 1,70 1,55 1,55 1,67 2,33 1,55 2,16 1,54 2,62 2,26 2,26	A B C 2,26 2,26 2,26 2,00 2,00 2,80 1,85 1,85 3,10 1,70 1,70 3,40 1,55 1,55 3,70 1,67 2,33 2,80 1,55 2,16 2,62 2,62 2,26 2,26 2,26 2,26 2,26	2,26 2,26 2,26 6,78[1,90-8,00] 2,00 2,00 2,80 6,80[1,90-8,00] 1,85 1,85 3,10 6,80[1,90-8,10] 1,70 1,70 3,40 6,80[2,00-8,50] 1,55 1,55 3,70 6,80[2,00-8,50] 1,78 2,51 2,51 6,80[1,90-8,10] 1,67 2,33 2,80 6,80[1,90-8,20] 1,55 2,16 3,09 6,80[2,00-8,50] 1,56 2,62 2,62 6,80[1,90-8,20] 2,26 2,26 6,78[1,90-8,20]	A B C Total [Min-Max] W/W 2,26 2,26 2,26 6,781,90-8,001 3,65 2,00 2,00 2,80 6,801,90-8,001 3,66 1,85 1,85 3,10 6,801,90-8,101 3,74 1,70 1,70 3,40 6,8012,00-8,501 4,05 1,78 2,51 2,51 6,801,90-8,101 3,74 1,67 2,33 2,80 6,801,90-8,201 3,74 1,55 2,16 3,09 6,8012,00-8,501 4,05 1,56 2,62 2,62 6,8011,90-8,201 3,84 2,26 2,26 2,6801,90-8,201 3,84 2,26 2,26 6,801,90-8,201 3,84	A B C Total (Min - Max) W/W 2,26 2,26 2,26 6,78(1,90 - 8,00) 3,65 8,00 A++ 2,00 2,00 2,80 6,80(1,90 - 8,00) 3,66 8,00 A++ 1,85 1,85 3,10 6,80(1,90 - 8,10) 3,74 8,00 A++ 1,70 1,70 3,40 6,80(2,00 - 8,50) 4,05 8,00 A++ 1,55 1,55 3,70 6,80(2,00 - 8,50) 4,05 8,00 A++ 1,78 2,51 2,51 6,80(1,90 - 8,10) 3,74 8,00 A++ 1,67 2,33 2,80 6,80(1,90 - 8,20) 3,74 8,00 A++ 1,55 2,16 3,09 6,80(2,00 - 8,50) 4,05 8,00 A++ 1,55 2,16 3,09 6,80(2,00 - 8,50) 4,05 8,00 A++ 1,55 2,16 3,09 6,80(1,90 - 8,20) 3,74 8,00 A++ 1,55 2,26 2,62 6,80(1,90 - 8,20) 3,84 8,00 A++ 2,26 2,26 <td< td=""><td>Rate Rate Company Tratifum W/W Rate Rate</td><td>A B C Total [Min - Max] W/W kW kW kW 2,26 2,26 2,26 6,78 (1,90 - 8,00) 3,65 8,00 A++ 1,86 (0,27 - 2,41) 930 2,00 2,00 2,80 6,801 (1,90 - 8,00) 3,66 8,00 A++ 1,86 (0,27 - 2,21) 930 1,85 1,85 3,10 6,801 (1,90 - 8,10) 3,74 8,00 A++ 1,82 (0,29 - 2,22) 910 1,70 1,70 3,40 6,801 (2,00 - 8,50) 4,05 8,00 A++ 1,68 (0,34 - 2,38) 840 1,55 1,55 3,70 6,801 (2,00 - 8,50) 4,05 8,00 A++ 1,82 (0,29 - 2,33) 910 1,67 2,33 2,80 6,801 (1,90 - 8,00) 3,74 8,00 A++ 1,82 (0,29 - 2,33) 910 1,55 2,16 3,09 6,801 (2,00 - 8,50) 4,05 8,00 A++ 1,82 (0,29 - 2,33) 910 1,55 2,16 3,00 3,4 8,00 A++ 1,86 (0,34 - 2,38) 840 1,55 2,16 3,00</td><td>A B C Total (Min-Max) W/W kW kW kW 209V 2,26 2,26 2,26 6,781,90-8,001 3,65 8,00 A++ 1,8610,27-2,411 930 8,40 2,00 2,00 2,80 6,801,90-8,001 3,66 8,00 A++ 1,8610,27-2,321 930 8,40 1,85 1,85 3,10 6,801,90-8,101 3,74 8,00 A++ 1,8610,27-2,421 910 8,20 1,70 1,70 3,40 6,8012,00-8,501 4,05 8,00 A++ 1,6810,34-2,381 840 7,70 1,55 3,70 6,8012,00-8,501 4,05 8,00 A++ 1,8210,29-2,331 840 7,70 1,55 2,51 2,51 6,8011,90-8,101 3,74 8,00 A++ 1,8210,29-2,331 910 8,20 1,67 2,33 2,80 6,8011,90-8,201 3,74 8,00 A++ 1,8210,29-2,421 910 8,20 1,55 2,16 3,00 6,801,90-8,501 4,05 8,00 A++</td><td> Name</td><td> </td><td> Tating T</td><td> Name</td><td>rating A B C Total (Min-Max) W/W kW kWh 230V A B C Total (Min-Max) W/W 2,26 2,26 6,78 (1,90-8,00) 3,65 8,00 A++ 1,86 (0,27-2,21) 930 8,40 2,83 2,83 2,83 8,03 8,01 (3,30-10,40) 3,91 2,00 2,00 2,80 6,801 (1,90-8,00) 3,66 8,00 A++ 1,86 (0,27-2,21) 930 8,60 2,50 2,50 8,50 8,50 (3,30-10,40) 3,75 1,85 1,85 3,10 6,801 (1,90-8,01) 3,74 8,00 A++ 1,86 (0,27-2,21) 910 8,20 2,51 2,51 3,58 8,503,30-10,60) 3,75 1,70 1,70 3,74 6,801,40-4 1,86 (0,34-2,38) 8,00 7,70 2,13 2,13 2,42 8,503,20-10,60) 4,25 1,55 3,75 6,801,20-8,50 4,05 8,00 A++ 1,82 (0,2-2,33) 910 8,20 2,4 3,13 3,23</td><td>Tating Tating Tating</td><td>rating rating A B C Total (Min-Max) W/W KW kW 230V A B C Total (Min-Max) W/W KW KW 230V A B C Total (Min-Max) W/W KW KW 2,26 2,26 6,781,190-8,00 3,65 8,00 A++ 1,861,027-2,21 930 8,00 2,50 2,50 8,501,30-10,40 3,95 4,20 A+ 2,17(0,63-2,92) 2,50 3,50 8,501,30-10,40 3,95 4,20 A+ 2,15(0,62-2,85) 1,85 1,85 3,10 3,601,190-8,01 3,74 8,00 A++ 1,86(0,27-2,21) 910 8,20 2,51 2,51 3,80 8,501,30-10,50 3,95 4,20 A+ 2,15(0,2-2,85) 1,85 1,85 3,10 3,601,90-8,10 3,74 8,00 A++ 1,86(0,34-2,38) 840 7,70 2,13 2,13 2,42 8,501,30-10,50 4,25 4,20 A+ 2,010,60-2,781 1,55 3,55 3,70 8,00 A++ 1,88(0,4-2,33)<!--</td--><td> Table Tabl</td></td></td<>	Rate Rate Company Tratifum W/W Rate Rate	A B C Total [Min - Max] W/W kW kW kW 2,26 2,26 2,26 6,78 (1,90 - 8,00) 3,65 8,00 A++ 1,86 (0,27 - 2,41) 930 2,00 2,00 2,80 6,801 (1,90 - 8,00) 3,66 8,00 A++ 1,86 (0,27 - 2,21) 930 1,85 1,85 3,10 6,801 (1,90 - 8,10) 3,74 8,00 A++ 1,82 (0,29 - 2,22) 910 1,70 1,70 3,40 6,801 (2,00 - 8,50) 4,05 8,00 A++ 1,68 (0,34 - 2,38) 840 1,55 1,55 3,70 6,801 (2,00 - 8,50) 4,05 8,00 A++ 1,82 (0,29 - 2,33) 910 1,67 2,33 2,80 6,801 (1,90 - 8,00) 3,74 8,00 A++ 1,82 (0,29 - 2,33) 910 1,55 2,16 3,09 6,801 (2,00 - 8,50) 4,05 8,00 A++ 1,82 (0,29 - 2,33) 910 1,55 2,16 3,00 3,4 8,00 A++ 1,86 (0,34 - 2,38) 840 1,55 2,16 3,00	A B C Total (Min-Max) W/W kW kW kW 209V 2,26 2,26 2,26 6,781,90-8,001 3,65 8,00 A++ 1,8610,27-2,411 930 8,40 2,00 2,00 2,80 6,801,90-8,001 3,66 8,00 A++ 1,8610,27-2,321 930 8,40 1,85 1,85 3,10 6,801,90-8,101 3,74 8,00 A++ 1,8610,27-2,421 910 8,20 1,70 1,70 3,40 6,8012,00-8,501 4,05 8,00 A++ 1,6810,34-2,381 840 7,70 1,55 3,70 6,8012,00-8,501 4,05 8,00 A++ 1,8210,29-2,331 840 7,70 1,55 2,51 2,51 6,8011,90-8,101 3,74 8,00 A++ 1,8210,29-2,331 910 8,20 1,67 2,33 2,80 6,8011,90-8,201 3,74 8,00 A++ 1,8210,29-2,421 910 8,20 1,55 2,16 3,00 6,801,90-8,501 4,05 8,00 A++	Name		Tating T	Name	rating A B C Total (Min-Max) W/W kW kWh 230V A B C Total (Min-Max) W/W 2,26 2,26 6,78 (1,90-8,00) 3,65 8,00 A++ 1,86 (0,27-2,21) 930 8,40 2,83 2,83 2,83 8,03 8,01 (3,30-10,40) 3,91 2,00 2,00 2,80 6,801 (1,90-8,00) 3,66 8,00 A++ 1,86 (0,27-2,21) 930 8,60 2,50 2,50 8,50 8,50 (3,30-10,40) 3,75 1,85 1,85 3,10 6,801 (1,90-8,01) 3,74 8,00 A++ 1,86 (0,27-2,21) 910 8,20 2,51 2,51 3,58 8,503,30-10,60) 3,75 1,70 1,70 3,74 6,801,40-4 1,86 (0,34-2,38) 8,00 7,70 2,13 2,13 2,42 8,503,20-10,60) 4,25 1,55 3,75 6,801,20-8,50 4,05 8,00 A++ 1,82 (0,2-2,33) 910 8,20 2,4 3,13 3,23	Tating Tating	rating rating A B C Total (Min-Max) W/W KW kW 230V A B C Total (Min-Max) W/W KW KW 230V A B C Total (Min-Max) W/W KW KW 2,26 2,26 6,781,190-8,00 3,65 8,00 A++ 1,861,027-2,21 930 8,00 2,50 2,50 8,501,30-10,40 3,95 4,20 A+ 2,17(0,63-2,92) 2,50 3,50 8,501,30-10,40 3,95 4,20 A+ 2,15(0,62-2,85) 1,85 1,85 3,10 3,601,190-8,01 3,74 8,00 A++ 1,86(0,27-2,21) 910 8,20 2,51 2,51 3,80 8,501,30-10,50 3,95 4,20 A+ 2,15(0,2-2,85) 1,85 1,85 3,10 3,601,90-8,10 3,74 8,00 A++ 1,86(0,34-2,38) 840 7,70 2,13 2,13 2,42 8,501,30-10,50 4,25 4,20 A+ 2,010,60-2,781 1,55 3,55 3,70 8,00 A++ 1,88(0,4-2,33) </td <td> Table Tabl</td>	Table Tabl

1) Energy Label Scale from A+++ to D.

	Free Multi 4x1 CU-4Z68TBE. Minimum ca	apacity connected: 4	.5 kW. Maximum capacit	v connected: 11.5 kW · R32
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Indoor unit capacity			Cool	ing cap	pacity (kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current			Heati	ing capacity (kW). Re	oms	COP	SCOP 1)	Input power rating	A.E.C.	Curren
	Α	В	С	D	Total (Min - Max)	W/W		kW	kWh	230V	Α	В	С	D Total (Min -	Max)	W/W		kW	kWh	230\
1 Room																				
16	1,60				1,60 (1,30 - 2,30)	4,00		0,40 (0,25 - 0,64)	200	2,00	2,60			2,60 (1,20 -		4,33		0,60 (0,30 - 0,96)	300	3,00
20	2,00				2,00 (1,80 - 2,90)	4,00		0,50 (0,34 - 0,81)	250	2,50	3,20			3,20(1,20-		4,32		0,74 (0,30 - 1,23)	370	3,70
25	2,50				2,50 (1,80 - 2,90)	3,97		0,63 (0,34 - 0,81)	315	3,20	3,60			3,60(1,20-		3,83		0,94 (0,30 - 1,23)	470	4,70
35	3,50				3,50 (1,80 - 3,80)	3,72		0,94 (0,34 - 1,36)	470	4,50	4,50			4,50 (1,20 -		3,66		1,23 (0,30 - 2,10)	615	6,00
42	4,20				4,20 (1,80 - 4,30)	3,07		1,37 (0,34 - 1,99)	685	6,40	5,60			5,60 (1,20 -		3,26		1,72 (0,30 - 2,93)	860	8,00
50	5,00				5,00 (1,90 - 5,70)	3,23		1,55 (0,34 - 2,13)	775	7,20	6,80			6,80(1,20-		3,24		2,10 (0,30 - 2,52)	1050	9,70
60	6,00				6,00 (1,90 - 6,20)	2,96		2,03 (0,34 - 2,33)	1015	9,20	8,50			8,50 (1,30 -	9,00)	3,54		2,40 (0,62 - 2,55)	1200	11,10
2 Rooms																				
16+16	1,60	1,60			3,20 (1,90 - 6,40)	5,71	6,10 A++	0,56 (0,27 - 2,12)	280	2,80	2,60	2,60		5,20 (2,70 -		4,00	3,80 A	1,30 (0,66 - 3,01)	650	5,90
16+20	1,60	2,00			3,60 (1,90 - 6,40)	5,22	6,10 A++	0,69 (0,27 - 2,08)	345	3,40	2,58	3,22		5,80 (2,70 -		3,92	3,80 A	1,48 (0,65 - 3,02)	740	6,80
16+25	1,60	2,50			4,10 (1,90 - 6,40)	4,94	6,10 A++	0,83 (0,27 - 2,08)	415	3,90	2,42	3,78		6,20 (2,70 -		3,85	3,80 A	1,61 (0,65 - 3,02)	805	7,40
16+35	1,60	3,50			5,10 (1,90 - 6,90)	4,08	6,10 A++	1,25 (0,27 - 2,48)	625	5,70	2,23	4,87		7,10(2,70-		3,74	3,80 A	1,90 (0,63 - 3,02)	950	8,60
16+42	1,60	4,20			5,80 (1,90 - 6,90)	3,60	6,10 A++	1,61 (0,27 - 2,44)	805	7,40	2,26	5,94		8,20 (2,70 -		3,52	3,80 A	2,33 (0,63 - 3,02)	1165	10,50
16+50	1,60	5,00			6,60 (2,00 - 7,50)	3,63	6,50 A++	1,82 (0,28 - 2,52)	910	8,20	2,06	6,44		8,50 (2,80 - 1		3,76	3,80 A	2,26 (0,56 - 2,99)	1130	10,20
16+60	1,43	5,37			6,80 (2,00 - 7,50)	3,49	6,50 A++	1,95 (0,28 - 2,52)	975	8,80	1,79	6,71		8,50 (2,80 - 1		3,76	3,80 A	2,26 (0,56 - 2,99)	1130	10,20
20+20	2,00	2,00			4,00 (1,90 - 6,40)	5,00	6,10 A++	0,80 (0,27 - 2,04)	400	3,80	3,20	3,20		6,40 (2,70 -		3,83	3,80 A	1,67 (0,64 - 3,02)	835	7,60
20+25	2,00	2,50			4,50 (1,90 - 6,40)	4,59	6,10 A++	0,98 (0,27 - 2,04)	490	4,60	3,02	3,78		6,80 (2,70 -		3,78	3,80 A	1,80 (0,64 - 3,02)	900	8,10
20+35	2,00	3,50			5,50 (1,90 - 6,90)	3,85	6,10 A++	1,43 (0,27 - 2,44)	715	6,50	2,80	4,90		7,70 (2,70 -		3,65	3,80 A	2,11 (0,63 - 3,02)	1055	9,50
20+42	2,00	4,20			6,20 (1,90 - 6,90)	3,35	6,10 A++	1,85 (0,27 - 2,40)	925	8,40	2,74	5,76		8,50 (2,70 -		3,48	3,80 A	2,44 [0,62 - 3,03]	1220	11,00
20 + 50	1,94	4,86			6,80 (2,00 - 7,50)	3,49	6,50 A++	1,95 (0,28 - 2,48)	975	8,80	2,43	6,07		8,50 (2,80 - 1		3,76	3,80 A	2,26 [0,56 - 2,99]	1130	10,20
20+60	1,70	5,10			6,80 (2,00 - 7,50)	3,49	6,50 A++	1,95 (0,28 - 2,48)	975	8,80	2,12	6,38		8,50 (2,80 - 1	0,20)	3,76	3,80 A	2,26 (0,56 - 2,99)	1130	10,20
25+25	2,50	2,50			5,00 (1,90 - 6,80)	4,13	6,10 A++	1,21 (0,27 - 2,43)	605	5,60	3,60	3,60		7,20 (2,70 -	9,80)	3,71	3,80 A	1,94 (0,64 - 3,02)	970	8,80
25+35	2,50	3,50			6,00 (1,90 - 6,90)	3,47	6,10 A++	1,73 (0,27 - 2,44)	865	7,90	3,37	4,73		8,10(2,70-	9,90)	3,60	3,80 A	2,25 (0,63 - 3,02)	1125	10,20
25+42	2,50	4,20			6,70 (1,90 - 6,90)	2,94	6,10 A++	2,28 (0,27 - 2,40)	1140	10,30	3,17	5,33		8,50 (2,70 -	9,90)	3,48	3,80 A	2,44 (0,62 - 3,03)	1220	11,00
25+50	2,27	4,53			6,80(1,90-7,50)	3,49	6,50 A++	1,95 (0,26 - 2,48)	975	8,80	2,83	5,67		8,50 (2,80 - 1	0,20)	3,76	3,80 A	2,26 (0,56 - 2,99)	1130	10,20
25+60	2,00	4,80			6,80(1,90-7,50)	3,49	6,50 A++	1,95 (0,26 - 2,48)	975	8,80	2,50	6,00		8,50 (2,80 - 1	0,20)	3,76	3,80 A	2,26 (0,56 - 2,99)	1130	10,20
35+35	3,40	3,40			6,80(1,90-7,00)	2,97	6,10 A++	2,29 (0,27 - 2,40)	1145	10,40	4,25	4,25		8,50 (2,80 - 1	0,00)	3,56	3,80 A	2,39 (0,64 - 3,02)	1195	10,80
35+42	3,09	3,71			6,80(1,90-7,10)	3,04	6,10 A++	2,24 (0,27 - 2,50)	1120	10,10	3,86	4,64		8,50 (2,80 - 1	0,00)	3,56	3,80 A	2,39 (0,60 - 3,02)	1195	10,80
35+50	2,80	4,00			6,80 (2,00 - 7,60)	3,64	6,50 A++	1,87 (0,28 - 2,48)	935	8,50	3,50	5,00		8,50 (2,80 - 1	0,30)	3,86	3,80 A	2,20 (0,54 - 2,97)	1100	10,00
35 + 60	2,51	4,29			6,80 (2,00 - 7,60)	3,64	6,50 A++	1,87 (0,28 - 2,48)	935	8,50	3,13	5,37		8,50 (2,80 - 1	0,30)	3,86	3,80 A	2,20 (0,54 - 2,97)	1100	10,00
42 + 42	3,40	3,40			6,80 (1,90 - 7,10)	3,02	6,10 A++	2,25 (0,26 - 2,45)	1125	10,20	4,25	4,25		8,50 (2,80 - 1	0,00)	3,57	3,80 A	2,38 (0,60 - 2,98)	1190	10,80
42 + 50	3,10	3,70			6,80 (2,00 - 7,60)	3,64	6,50 A++	1,87 (0,28 - 2,44)	935	8,50	3,88	4,62		8,50 (2,80 - 1	0,30)	3,88	3,80 A	2,19 (0,54 - 2,96)	1095	9,90
42+60	2,80	4,00			6,80 (2,00 - 7,60)	3,64	6,50 A++	1,87 (0,28 - 2,44)	935	8,50	3,50	5,00		8,50 (2,80 - 1	0,30)	3,88	3,80 A	2,19 (0,54 - 2,96)	1095	9,90
50 + 50	3,40	3,40			6,80 (2,10 - 8,10)	4,10	6,50 A++	1,66 (0,32 - 2,50)	830	7,60	4,25	4,25		8,50 (2,80 - 1	0,50)	4,15	3,80 A	2,05 (0,51 - 2,87)	1025	9,30
50+60	3,09	3,71			6,80 (2,10 - 8,10)	4,10	6,50 A++	1,66 (0,32 - 2,50)	830	7,60	3,86	4,64		8,50 (2,80 - 1	0,50)	4,15	3,80 A	2,05 (0,51 - 2,87)	1025	9,30
3 Rooms																				
16+16+16	1,60	1,60	1,60		4,80 (1,90 - 8,00)	4,85	8,00 A++	0,99 (0,27 - 2,50)	495	4,60	2,60	2,60	2,60	7,80 (3,30 - 1	0,40)	3,98	4,00 A+	1,96 (0,64 - 2,95)	980	8,90
16+16+20	1,60	1,60	2,00		5,20(1,90-8,00)	4,60	8,00 A++	1,13 (0,27 - 2,46)	565	5,20	2,58	2,58	3,24	8,40 (3,30 - 1	0,40)	3,84	4,00 A+	2,19 [0,64 - 2,94]	1095	9,90
16+16+25	1,60	1,60	2,50		5,70 (1,90 - 8,00)	4,19	8,00 A++	1,36 (0,27 - 2,46)	680	6,20	2,39	2,39	3,72	8,50 (3,30 - 1	0,40)	3,81	4,00 A+	2,23 [0,64 - 2,94]	1115	10,10
16+16+35	1,60	1,60	3,50		6,70 (1,90 - 8,00)	3,68	8,00 A++	1,82(0,27 - 2,37)	910	8,20	2,03	2,03	4,44	8,50 (3,30 - 1	0,40)	3,94	4,00 A+	2,16 (0,63 - 2,92)	1080	9,80
16+16+42	1,47	1,47	3,86		6,80 (1,90 - 8,10)	3,66	8,00 A++	1,86 (0,27 - 2,46)	930	8,40	1,84	1,84	4,82	8,50 (3,30 - 1	0,50)	3,95	4,00 A+	2,15 (0,62 - 2,95)	1075	9,70
16+16+50	1,33	1,33	4,14		6,80 (2,00 - 8,50)	3,93	8,00 A++	1,73 (0,32 - 2,42)	865	7,90	1,66	1,66	5,18	8,50 (3,20 - 1	0,60)	4,21	4,00 A+	2,02 (0,60 - 2,80)	1010	9,10
16+16+60	1,18	1,18	4,44		6,80 (2,00 - 8,50)	3,93	8,00 A++	1,73 (0,32 - 2,42)	865	7,90	1,48	1,48	5,54	8,50 (3,20 - 1	0,60)	4,21	4,00 A+	2,02 (0,60 - 2,80)	1010	9,10
16+20+20	1,60	2,00	2,00		5,60 (1,90 - 8,00)	4,38	8,00 A++	1,28 (0,27 - 2,46)	640	5,80	2,42	3,04	3,04	8,50 (3,30 - 1	0,40)	3,83	4,00 A+	2,22 [0,63 - 2,93]	1110	10,00
16+20+25	1,60	2,00	2,50		6,10 (1,90 - 8,00)	4,01	8,00 A++	1,52 (0,27 - 2,46)	760	6,90	2,23	2,79	3,48	8,50(3,30 - 1	0,40)	3,83	4,00 A+	2,22 [0,63 - 2,93]	1110	10,00
16+20+35	1,53	1,92	3,35		6,80 (1,90 - 8,00)	3,66	8,00 A++	1,86 (0,27 - 2,37)	930	8,40	1,92	2,39	4,19	8,50 (3,30 - 1	0,40)	3,95	4,00 A+	2,15 (0,62 - 2,86)	1075	9,7
16+20+42	1,39	1,74	3,67		6,80 (1,90 - 8,10)	3,66	8,00 A++	1,86 (0,27 - 2,42)	930	8,40	1,74	2,18	4,58	8,50 (3,30 - 1	0,50)	3,95	4,00 A+	2,15(0,62-2,90)	1075	9,70
16+20+50	1,27	1,58	3,95		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,32 - 2,42)	840	7,70	1,58	1,98	4,94	8,50 (3,20 - 1	0,60)	4,23	4,00 A+	2,01 (0,60 - 2,79)	1005	9,1
16+20+60	1,13	1,42	4,25		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,32 - 2,42)	840	7,70	1,42	1,77	5,31	8,50 (3,20 - 1	0,60)	4,23	4,00 A+	2,01 (0,60 - 2,79)	1005	9,10
16+25+25	1,60	2,50	2,50		6,60 (1,90 - 8,00)	3,73	8,00 A++	1,77 (0,27 - 2,46)	885	8,00	2,06	3,22	3,22	8,50 (3,30 - 1	0,40)	3,83	4,00 A+	2,22 [0,63 - 2,93]	1110	10,00
16+25+35	1,43	2,24	3,13		6,80 (1,90 - 8,00)	3,66	8,00 A++	1,86 (0,27 - 2,37)	930	8,40	1,79	2,80	3,91	8,50 (3,30 - 1	0,40)	3,95	4,00 A+	2,15 (0,62 - 2,86)	1075	9,7
16+25+42	1,31	2,05	3,44		6,80 (1,90 - 8,10)	3,66	8,00 A++	1,86 (0,27 - 2,42)	930	8,40	1,64	2,56	4,30	8,50 (3,30 - 1		3,95	4,00 A+	2,15 (0,62 - 2,90)	1075	9,70
16+25+50	1,19	1,87	3,74		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,32 - 2,42)	840	7,70	1,49	2,34	4,67	8,50 (3,20 - 1	0,60)	4,23	4,00 A+	2,01 (0,60 - 2,79)	1005	9,10
16+25+60	1,08	1,68	4,04		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,32 - 2,42)	840	7,70	1,35	2,10	5,05	8,50 (3,20 - 1		4,23	4,00 A+	2,01 (0,60 - 2,79)	1005	9,10
16+35+35	1,26	2,77	2,77		6,80 (1,90 - 8,10)	3,74	8,00 A++	1,82 (0,29 - 2,37)	910	8,20	1,58	3,46	3,46	8,50(3,30 - 1		3,99	4,00 A+	2,13 (0,64 - 2,88)	1065	9,60
16+35+42	1,17	2,56	3,07		6,80 (1,90 - 8,20)	3,74	8,00 A++	1,82 (0,29 - 2,42)	910	8,20	1,46	3,20	3,84	8,50 (3,30 - 1		4,01	4,00 A+	2,12 (0,64 - 2,87)	1060	9,60
16+35+50	1,07	2,36	3,37		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,34	2,95	4,21	8,50 (3,20 - 1		4,27	4,00 A+	1,99 (0,60 - 2,77)	995	9,00
16+35+60		2,14	3,68		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,23	2,68		8,50 (3,20 - 1		4,27	4,00 A+	1,99 (0,60 - 2,77)	995	9,00

Free Multi R32 combinations table

Indoor unit capacity			Coo	ling cap	acity (kW). Rooms	EER	SEER 13	Input power rating	A.E.C.	Current			Heati	ng cap	acity (kW). Rooms	COP	SCOP 1)	Input power rating	A.E.C.	Current
сарасну	Α	В	С	D	Total (Min - Max)	W/W		kW	kWh	230V	A	В	С	D	Total (Min - Max)	W/W		kW	kWh	230\
16+42+42	1,08	2,86	2,86		6,80 (1,90 - 8,20)	3,74	8,00 A++	1,82 (0,29 - 2,42)	910	8,20	1,36	3,57	3,57		8,50 (3,30 - 10,50)	4,03	4,00 A+	2,11 (0,64 - 2,86)	1055	9,50
16+42+50	1,01	2,64	3,15		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,33)	840	7,70	1,25	3,31	3,94		8,50 (3,20 - 10,60)	4,29	4,00 A+	1,98 (0,60 - 2,76)	990	9,00
20+20+20	2,00	2,00	2,00		6,00 (1,90 - 8,00) 6,50 (1,90 - 8,00)	4,05 3,76	8,00 A++ 8,00 A++	1,48 (0,27 - 2,41)	740 865	6,80 7,90	2,83	2,83	2,83 3,26		8,49 (3,30 - 10,40) 8,50 (3,30 - 10,40)	3,91	4,00 A+ 4,00 A+	2,17 (0,63 - 2,92) 2,17 (0,63 - 2,92)	1085	9,80
20+20+35	1,81	1,81	3,18		6,80 (1,90 - 8,00)	3,66	8,00 A++	1,86 (0,27 - 2,32)	930	8,40	2,27	2,27	3,96		8,50 (3,30 - 10,40)	3,95	4,00 A+	2,15 (0,62 - 2,85)	1075	9,70
20+20+42	1,66	1,66	3,48		6,80 (1,90 - 8,10)	3,74	8,00 A++	1,82 (0,29 - 2,42)	910	8,20	2,07	2,07	4,36		8,50 (3,30 - 10,50)	3,97	4,00 A+	2,14[0,62-2,89]	1070	9,70
20+20+50	1,51	1,51	3,78		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,89	1,89	4,72		8,50 (3,20 - 10,60)	4,25	4,00 A+	2,00 (0,60 - 2,78)	1000	9,00
20+20+60	1,36	1,36	4,08		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,70	1,70	5,10		8,50 (3,20 - 10,60)	4,25	4,00 A+	2,00 (0,60 - 2,78)	1000	9,00
20+25+25	1,94	2,43	2,43		6,80 (1,90 - 8,00)	3,66	8,00 A++	1,86 (0,27 - 2,41)	930	8,40	2,42	3,04	3,04		8,50 (3,30 - 10,40)	3,92	4,00 A+	2,17(0,63-2,92)	1085	9,80
20+25+35	1,69	2,13	2,98		6,80(1,90 - 8,00) 6,80(1,90 - 8,10)	3,66	8,00 A++ 8,00 A++	1,86 (0,27 - 2,32)	930	8,40 8,20	2,12 1,95	2,66	3,72 4,11		8,50 (3,30 - 10,40) 8,50 (3,30 - 10,50)	3,95	4,00 A+	2,15 (0,62 - 2,85)	1075	9,70
20+25+50	1,43	1,79	3,58		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,79	2,24	4,47		8,50 (3,20 - 10,60)	4,25	4,00 A+	2,00 (0,60 - 2,78)	1000	9,00
20+25+60	1,29	1,62	3,89	-	6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	1,62	2,02	4,86		8,50 (3,20 - 10,60)	4,25	4,00 A+	2,00 (0,60 - 2,78)	1000	9,00
20+35+35	1,52	2,64	2,64		6,80 (1,90 - 8,10)	3,74	8,00 A++	1,82 (0,29 - 2,33)	910	8,20	1,88	3,31	3,31		8,50 (3,30 - 10,50)	4,01	4,00 A+	2,12 [0,64 - 2,87]	1060	9,60
20+35+42	1,40	2,45	2,95		6,80 (1,90 - 8,20)	3,74	8,00 A++	1,82 (0,29 - 2,42)	910	8,20	1,75	3,07	3,68		8,50 (3,30 - 10,50)	4,03	4,00 A+	2,11 (0,64 - 2,86)	1055	9,50
20+35+50	1,29	2,27	3,24		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,33)	840	7,70	1,62	2,83	4,05		8,50 (3,20 - 10,60)	4,29	4,00 A+	1,98 (0,60 - 2,76)	990	9,00
20+35+60	1,18	2,07	3,55 2,75		6,80 (2,00 - 8,50) 6,80 (1,90 - 8,20)	4,05 3,84	8,00 A++ 8,00 A++	1,68 (0,34 - 2,33)	840 885	7,70 8,00	1,48	2,59	3,43		8,50 (3,20 - 10,60) 8,50 (3,30 - 10,50)	4,29	4,00 A+ 4,00 A+	1,98 (0,60 - 2,76) 2,10 (0,63 - 2,86)	990 1050	9,00
20+42+42	1,21	2,75	3,04		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,33)	840	7,70	1,52	3,19	3,79		8,50 (3,20 - 10,60)	4,03	4,00 A+	1,97(0,62-2,75)	985	8,90
25+25+25	2,26	2,26	2,26		6,78 (1,90 - 8,00)	3,65	8,00 A++	1,86 (0,27 - 2,41)	930	8,40	2,83	2,83	2,83		8,49 (3,30 - 10,40)	3,91	4,00 A+	2,17(0,63 - 2,92)	1085	9,80
25+25+35	2,00	2,00	2,80		6,80 (1,90 - 8,00)	3,66	8,00 A++	1,86 (0,27 - 2,32)	930	8,40	2,50	2,50	3,50		8,50 (3,30 - 10,40)	3,95	4,00 A+	2,15 (0,62 - 2,85)	1075	9,70
25+25+42	1,85	1,85	3,10		6,80 (1,90 - 8,10)	3,74	8,00 A++	1,82(0,29 - 2,42)	910	8,20	2,31	2,31	3,88		8,50 (3,30 - 10,50)	3,97	4,00 A+	2,14 [0,62 - 2,89]	1070	9,70
25+25+50	1,70	1,70	3,40		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,38)	840	7,70	2,13	2,13	4,24		8,50 (3,20 - 10,60)	4,25	4,00 A+	2,00 (0,60 - 2,78)	1000	9,00
25+25+60 25+35+35	1,55	1,55 2,51	3,70 2,51		6,80 (2,00 - 8,50) 6,80 (1,90 - 8,10)	4,05 3,74	8,00 A++ 8,00 A++	1,68 (0,34 - 2,38)	910	7,70 8,20	1,93	1,93 3,13	3,13		8,50 (3,20 - 10,60) 8,50 (3,30 - 10,50)	4,25	4,00 A+ 4,00 A+	2,00 (0,60 - 2,78)	1000	9,00
25+35+42	1,78	2,33	2,80		6,80 (1,90 - 8,20)	3,74	8,00 A++	1,82 (0,29 - 2,42)	910	8,20	2,08	2,92			8,50 (3,30 - 10,50)	4,01	4,00 A+	2,12(0,64-2,86)	1055	9,50
25+35+50	1,55	2,16	3,09		6,80 (2,00 - 8,50)	4,05	8,00 A++	1,68 (0,34 - 2,33)	840	7,70	1,93	2,70	3,87		8,50(3,20 - 10,60)	4,29	4,00 A+	1,98 (0,60 - 2,76)	990	9,00
25+42+42	1,56	2,62	2,62		6,80 (1,90 - 8,20)	3,84	8,00 A++	1,77 (0,29 - 2,37)	885	8,00	1,94	3,28	3,28		8,50 (3,30 - 10,50)	4,05	4,00 A+	2,10(0,63-2,86)	1050	9,50
35+35+35	2,26	2,26	2,26		6,78 (1,90 - 8,20)	3,83	8,00 A++	1,77 (0,29 - 2,33)	885	8,00	2,83	2,83	2,83		8,49 (3,30 - 10,50)	4,12	4,00 A+	2,06 (0,63 - 2,85)	1030	9,30
35+35+42	2,13	2,13	2,54		6,80(1,90-8,20)	3,84	8,00 A++	1,77 (0,29 - 2,33)	885	8,00	2,66	2,66	3,18		8,50 (3,30 - 10,50)	4,15	4,00 A+	2,05 (0,63 - 2,80)	1025	9,30
4 Rooms	1 / F	1 / 5	1 / 5	1 / 5	/ (0(1.00.0.70)	/ /0	0.50.4	1 (7(0.27, 2.20)	725	/ 70	2 12	2.12	2.12	2 12	0 (0(2.00, 10.(0)	/ //	/ 20 A :	1.01(0.50, 2.40)	OFF	0.70
16+16+16+16	1,65	1,65	1,65	1,65 2,00	6,60(1,90 - 8,70) 6,80(1,90 - 8,80)	4,49	8,50 A+++ 8,00 A++	1,47 (0,34 - 2,38)	735 775	6,70 7,00	2,12	2,12		2,12	8,48 (3,00 - 10,60) 8,50 (3,00 - 10,60)	4,44	4,20 A+ 4,20 A+	1,91 (0,58 - 2,69) 1,90 (0,58 - 2,68)	955 950	8,60 8,60
16+16+16+25	1,49	1,49	1,49	2,33	6,80 (1,90 - 8,80)	4,39	8,00 A++	1,55(0,34 - 2,47)	775	7,00	1,86	1,86		2,92	8,50 (3,00 - 10,60)	4,47	4,20 A+	1,90 (0,58 - 2,68)	950	8,60
16+16+16+35	1,31	1,31	1,31	2,87	6,80 (1,90 - 8,80)	4,39	8,00 A++	1,55 (0,34 - 2,38)	775	7,00	1,64	1,64	1,64	3,58	8,50 (3,00 - 10,60)	4,52	4,20 A+	1,88 (0,58 - 2,66)	940	8,50
16+16+16+42	1,21	1,21	1,21	3,17	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,34 - 2,38)	755	6,80	1,51	1,51	1,51	3,97	8,50 (3,00 - 10,60)	4,55	4,20 A+	1,87 (0,58 - 2,65)	935	8,50
16+16+16+50	1,11	1,11	1,11	3,47	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,40 - 2,24)	755	6,80	1,39	1,39		4,33	8,50 (3,00 - 10,60)	4,64	4,20 A+	1,83 (0,65 - 2,55)	915	8,30
16+16+16+60	1,01	1,01	1,01	3,77	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,40 - 2,24)	755	6,80	1,26	1,26		4,72	8,50 (3,00 - 10,60)	4,64	4,20 A+	1,83 (0,65 - 2,55)	915	8,30
16+16+20+20 16+16+20+25	1,51	1,51	1,89	1,89	6,80 (1,90 - 8,80) 6,80 (1,90 - 8,80)	4,39	8,00 A++ 8,00 A++	1,55 (0,34 - 2,43) 1,55 (0,34 - 2,43)	775	7,00	1,89	1,89		2,36 2,76	8,50 (3,10 - 10,60) 8,50 (3,10 - 10,60)	4,50 4,50	4,20 A+ 4,20 A+	1,89 (0,60 - 2,67) 1,89 (0,60 - 2,67)	945 945	8,50 8,50
16+16+20+35	1,25	1,25	1,56	2,74	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,34 - 2,38)	755	6,80	1,56	1,56		3,43	8,50 (3,00 - 10,60)	4,55	4,20 A+	1,87 (0,58 - 2,65)	935	8,50
16+16+20+42	1,16	1,16	1,44	3,04	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,38)	755	6,80	1,45	1,45	1,80	3,80	8,50 (3,00 - 10,60)	4,57	4,20 A+	1,86 (0,60 - 2,64)	930	8,40
16+16+20+50	1,07	1,07	1,33	3,33	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,40 - 2,20)	755	6,80	1,33	1,33	1,67	4,17	8,50 (3,00 - 10,60)	4,64	4,20 A+	1,83 (0,66 - 2,54)	915	8,30
16+16+20+60	0,97	0,97	1,21	3,65	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,40 - 2,20)	755	6,80	1,21	1,21		4,56	8,50 (3,00 - 10,60)	4,64	4,20 A+	1,83 (0,66 - 2,54)	915	8,30
16+16+25+25	1,33	1,33	2,07	2,07	6,80 (1,90 - 8,80)	4,39	8,00 A++	1,55 (0,34 - 2,43)	775	7,00	1,66	1,66		2,59	8,50(3,10-10,60)	4,50	4,20 A+	1,89 (0,60 - 2,67)	945	8,50
16+16+25+35	1,18	1,18	1,85	2,59	6,80 (1,90 - 8,80) 6,80 (1,90 - 8,80)	4,50 4,50	8,00 A++ 8,00 A++	1,51 (0,34 - 2,38) 1,51 (0,37 - 2,38)	755 755	6,80	1,48	1,48		3,23	8,50 (3,00 - 10,60) 8,50 (3,00 - 10,60)	4,55 4,57	4,20 A+ 4,20 A+	1,87 (0,58 - 2,65) 1,86 (0,60 - 2,64)	935	8,50 8,40
16+16+25+50	1,02	1,02	1,58	3,18	6,80(1,90-8,80)	4,50	8,00 A++	1,51 (0,40 - 2,20)	755	6,80	1,27	1,27		3,97	8,50 (3,00 - 10,60)	4,64	4,20 A+	1,83 (0,66 - 2,54)	915	8,30
16+16+35+35	1,07	1,07	2,33	2,33	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,33)	755	6,80	1,33	1,33	2,92	2,92	8,50 (3,00 - 10,60)	4,59	4,20 A+	1,85 (0,61 - 2,62)	925	8,40
16+16+35+42	1,00	1,00	2,18	2,62	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,33)	755	6,80	1,25	1,25	2,72	3,28	8,50 (3,00 - 10,60)	4,62	4,60 A++	1,84 (0,61 - 2,61)	920	8,30
16+20+20+20	1,43	1,79	1,79	1,79	6,80 (1,90 - 8,80)	4,39	8,00 A++	1,55 (0,34 - 2,43)	775	7,00	1,78	2,24		2,24	8,50 (3,10 - 10,60)	4,52	4,20 A+	1,88 (0,60 - 2,67)	940	8,50
16+20+20+25 16+20+20+35	1,34	1,68	1,68	2,10	6,80 (1,90 - 8,80) 6,80 (1,90 - 8,80)	4,39 4,50	8,00 A++ 8,00 A++	1,55 (0,34 - 2,43) 1,51 (0,37 - 2,38)	775 755	7,00	1,68	2,10 1,87		2,62 3,27	8,50 (3,10 - 10,60) 8,50 (3,00 - 10,60)	4,52 4,57	4,20 A+ 4,20 A+	1,88 (0,60 - 2,67) 1,86 (0,60 - 2,64)	940	8,50 8,40
16+20+20+33	1,11	1,47	1,39	2,91	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,38)	755	6,80	1,47	1,73		3,65	8,50 (3,00 - 10,60)	4,57	4,20 A+	1,86 (0,61 - 2,63)	930	8,40
16+20+20+50	1,03	1,28	1,28	3,21	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,42 - 2,20)	755	6,80	1,28	1,60		4,02	8,50 (3,00 - 10,60)	4,67	4,20 A+	1,82(0,68 - 2,53)	910	8,20
16+20+25+25	1,26	1,58	1,98	1,98	6,80 (1,90 - 8,80)	4,39	8,00 A++	1,55 (0,34 - 2,43)	775	7,00	1,58	1,98		2,47	8,50 (3,10 - 10,60)	4,52	4,20 A+	1,88 (0,60 - 2,67)	940	8,50
16+20+25+35	1,13	1,42	1,77	2,48	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,38)	755	6,80	1,42	1,77		3,10	8,50 (3,00 - 10,60)	4,57	4,20 A+	1,86 (0,60 - 2,64)	930	8,40
16+20+25+42	1,06	1,32	1,65	2,77	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,38)	755	6,80	1,32	1,65		3,47	8,50 (3,00 - 10,60)	4,57	4,20 A+	1,86 (0,61 - 2,63)	930	8,40
16+20+25+50 16+20+35+35	0,98	1,23	1,53 2,25	3,06 2,25	6,80 (1,90 - 8,80) 6,80 (1,90 - 8,80)	4,50 4,50	8,00 A++ 8,00 A++	1,51(0,42-2,20)	755 755	6,80	1,23	1,53		3,83 2,81	8,50 (3,00 - 10,60) 8,50 (3,00 - 10,60)	4,67	4,20 A+ 4,60 A++	1,82 (0,68 - 2,53) 1,84 (0,61 - 2,61)	910 920	8,20 8,30
16+20+35+35	0,96	1,20	2,23	2,53	6,80 (1,70 - 8,80)	4,50	8,00 A++	1,51(0,37-2,33)	755	6,80	1,20			3,17	8,50 (3,00 - 10,60)	4,62	4,60 A++	1,84 (0,61 - 2,61)	920	8,30
16+25+25+25	1,19	1,87	1,87	1,87	6,80 (1,90 - 8,80)	4,39	8,00 A++	1,55 (0,34 - 2,43)	775	7,00	1,48	2,34		2,34	8,50 (3,10 - 10,60)	4,52	4,20 A+	1,88 (0,60 - 2,67)	940	8,50
16+25+25+35	1,08	1,68	1,68	2,36	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,38)	755	6,80	1,35	2,10	2,10	2,95	8,50 (3,00 - 10,60)	4,57	4,20 A+	1,86 (0,60 - 2,64)	930	8,40
16+25+25+42	1,01	1,57	1,57	2,65	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,38)	755	6,80	1,25	1,97		3,31	8,50 (3,00 - 10,60)	4,57	4,20 A+	1,86 (0,61 - 2,63)	930	8,40
16+25+35+35	0,98	1,54	2,14	2,14	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,33)	755	6,80	1,23	1,91		2,68	8,50 (3,00 - 10,60)	4,62	4,60 A++	1,84 (0,61 - 2,61)	920	8,30
20+20+20+20	1,70	1,70	1,70	1,70 2,00	6,80 (1,90 - 8,80) 6,80 (1,90 - 8,80)	4,39	8,00 A++ 8,00 A++	1,55 (0,34 - 2,38) 1,55 (0,34 - 2,38)	775	7,00	2,12	2,12		2,12	8,48 (3,10 - 10,60) 8,50 (3,10 - 10,60)	4,51 4,52	4,20 A+ 4,20 A+	1,88 (0,60 - 2,66) 1,88 (0,60 - 2,66)	940	8,50 8,50
20+20+20+25	1,43	1,43	1,43	2,51	6,80(1,90-8,80)	4,50	8,00 A++	1,51 (0,37 - 2,33)	755	6,80	1,79	1,79		3,13	8,50 (3,10 - 10,60)	4,52	4,20 A+	1,86 (0,61 - 2,63)	930	8,40
20+20+20+42	1,33	1,33	1,33	2,81	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,33)	755	6,80	1,67	1,67		3,49	8,50 (3,00 - 10,60)	4,59	4,20 A+	1,85 (0,61 - 2,62)	925	8,40
20+20+20+50	1,24	1,24	1,24	3,08	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,42 - 2,20)	755	6,80	1,55	1,55		3,85	8,50 (3,00 - 10,60)	4,70	4,20 A+	1,81 (0,68 - 2,52)	905	8,20
20+20+25+25	1,51	1,51	1,89	1,89	6,80 (1,90 - 8,80)	4,39	8,00 A++	1,55 (0,34 - 2,38)	775	7,00	1,89	1,89		2,36	8,50 (3,10 - 10,60)	4,52	4,20 A+	1,88 (0,60 - 2,66)	940	8,50
20+20+25+35	1,36	1,36	1,70	2,38	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,33)	755	6,80	1,70	1,70		2,98	8,50 (3,00 - 10,60)	4,57	4,20 A+	1,86 (0,61 - 2,63)	930	8,40
20+20+25+42	1,27	1,27	1,59	2,67	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,33)	755	6,80	1,59	1,59		3,34	8,50(3,00 - 10,60)	4,59	4,20 A+	1,85 (0,61 - 2,62)	925	8,40
20+20+25+50	1,18	1,18	1,48 2,16	2,96	6,80 (1,90 - 8,80) 6,80 (1,90 - 8,80)	4,50 4,50	8,00 A++ 8,00 A++	1,51 (0,42 - 2,20) 1,51 (0,37 - 2,33)	755 755	6,80	1,48	1,48		3,70 2,70	8,50 (3,00 - 10,60) 8,50 (3,00 - 10,60)	4,70	4,20 A+ 4,60 A++	1,81 (0,68 - 2,52) 1,84 (0,61 - 2,61)	905 920	8,20 8,30
20+20+35+35	1,43	1,79	1,79	1,79	6,80(1,90-8,80)	4,39	8,00 A++	1,55 (0,34 - 2,38)	775	7,00	1,78	2,24		2,70	8,50 (3,10 - 10,60)	4,52	4,00 A++	1,88 (0,60 - 2,66)	940	8,50
20+25+25+35	1,29	1,62	1,62	2,27	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,33)	755	6,80	1,62	2,02		2,84	8,50 (3,00 - 10,60)	4,57	4,20 A+	1,86 (0,61 - 2,63)	930	8,40
20+25+25+42	1,21	1,52	1,52	2,55	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,33)	755	6,80	1,51	1,90		3,19	8,50 (3,00 - 10,60)	4,59	4,20 A+	1,85 (0,61 - 2,62)	925	8,40
20+25+35+35	1,18	1,48	2,07	2,07	6,80 (1,90 - 8,80)	4,50	8,00 A++	1,51 (0,37 - 2,33)	755	6,80	1,47	1,85		2,59	8,50 (3,00 - 10,60)	4,62	4,60 A++	1,84 (0,61 - 2,61)	920	8,30
25+25+25+25	1,70			1,70	6,80 (1,90 - 8,80)	4,39	8,00 A++	1,55 (0,34 - 2,38)	775	7,00		2,12		2,12	8,48 (3,10 - 10,60)	4,51	4,20 A+	1,88 (0,60 - 2,66)	940	8,50
25+25+25+35	1,55	1,55	1 55	2,15	6,80 (1,90 - 8,8 0)	4,50	8,00 A++	1,51 (0,37 - 2,33)	755	6,80	1,93	1,93	1,93	2,71	8,50 (3,00 - 10,60)	4,57	4,20 A+	1,86 (0,61 - 2,63)	930	8,40





					TBE. Minim														450	0
Indoor unit capacity			Co	oling c	apacity (kW). Rooms	EER	SEER 11	Input power rating	A.E.C.	Current			Hea	iting c	apacity (kW). Rooms	СОР	SCOP 1)	Input power rating	A.E.C.	Current
1 Room	A	В	C	D	Total (Min - Max)	W/W		kW	kWh	230V	A	В	С	D	Total (Min - Max)	W/W		kW	kWh	230V
16	1,60				1,60 (1,30 - 2,30)	4,00		0,40 (0,25 - 0,64)	200	2,00	2,60				2,60 (1,20 - 3,20)	4,33		0,60 (0,30 - 0,96)	300	3,00
20	2,00				2,00 (1,80 - 2,90)	4,00		0,50 (0,34 - 0,81)	250	2,50	3,20				3,20 (1,20 - 4,10)	4,32		0,74 (0,30 - 1,23)	370	3,70
25	2,50				2,50 (1,80 - 2,90)	3,97		0,63 (0,34 - 0,81)	315	3,20	3,60				3,60 (1,20 - 4,30)	3,83		0,94 (0,30 - 1,23)	470	4,70
35	3,50				3,50 (1,80 - 4,10)	3,72		0,94(0,34 - 1,36)	470	4,50	4,50				4,50 (1,20 - 5,80)	3,66		1,23 (0,30 - 2,10)	615	6,00
42	4,20				4,20 (1,80 - 4,50)	3,07		1,37[0,34 - 1,99]	685	6,40	5,60				5,60 (1,20 - 6,80)	3,26		1,72 (0,30 - 2,93)	860	8,00
50	5,00				5,00 (1,90 - 5,70)	3,23		1,55 (0,34 - 2,13)	775	7,20	6,80				6,80 (1,20 - 6,90)	3,24		2,10 (0,30 - 2,52)	1050	9,70
60	6,00				6,00 (1,90 - 6,20)	2,96		2,03 (0,34 - 2,33)	1015	9,20	8,50				8,50 (1,30 - 9,00)	3,54		2,40 (0,62 - 2,55)	1200	11,10
71	7,10				7,10 (2,00 - 7,20)	2,81		2,53 (0,37 - 2,77)	1265	11,40	8,70				8,70 (1,40 - 9,20)	3,41		2,55 (0,68 - 2,72)	1275	11,80
2 Rooms																				
16+16	1,60	1,60			3,20 (2,40 - 5,80)	4,38	5,60 A+	0,73 (0,38 - 1,99)	365	3,70	2,60	2,60			5,20 (2,20 - 8,20)	3,33	3,90 A	1,56 (0,43 - 2,84)	780	7,40
16+20	1,60	2,00			3,60 (2,40 - 5,80)	4,14	5,60 A+	0,87 (0,38 - 1,99)	435	4,30	2,58	3,22			5,80 (2,20 - 8,20)	3,45	3,90 A	1,68 (0,43 - 2,83)	840	8,00
16+25	1,60	2,50			4,10 (2,40 - 5,80)	3,83	5,60 A+	1,07(0,38-1,99)	535	5,20	2,42	3,78			6,20 (2,20 - 8,20)	3,41	3,90 A	1,82 (0,43 - 2,83)	910	8,60
16+35	1,60	3,50			5,10 (2,40 - 5,80)	3,45	5,60 A+	1,48 (0,37 - 1,92)	740	7,20	2,23	4,87			7,10 (2,20 - 8,60)	3,57	3,90 A	1,99 (0,38 - 2,91)	995	9,40
16+42	1,60	4,20			5,80 (2,40 - 6,70)	3,19	5,60 A+	1,82 (0,37 - 2,48)	910	8,70	2,26	5,94			8,20 (2,20 - 9,80)	3,46	3,90 A	2,37 (0,37 - 3,44)	1185	11,10
16+50	1,60	5,00			6,60 (2,40 - 7,20)	3,20	6,10 A++	2,06 (0,35 - 2,48)	1030	9,90	2,28	7,12			9,40 (2,20 - 10,00)	3,82	4,10 A+	2,46 (0,33 - 3,25)	1230	11,60
16+60	1,60	6,00			7,60 (2,40 - 8,50)	2,83	6,10 A++	2,69 (0,35 - 3,49)	1345	12,90	1,98	7,42			9,40 (2,20 - 10,00)	3,82	4,10 A+	2,46 (0,33 - 3,25)	1230	11,60
16+71	1,47	6,53			8,00 (2,50 - 8,50)	2,82	6,10 A++	2,84(0,38-3,34)	1420	13,60	1,73	7,67			9,40 (2,20 - 10,30)	3,92	4,10 A+	2,40 (0,32 - 3,42)	1200	11,30
20+20	2,00	2,00			4,00 (2,40 - 5,80)	3,96	5,60 A+	1,01(0,38-1,93)	505	5,00	3,20	3,20			6,40 (2,20 - 8,20)	3,44	3,90 A	1,86 (0,39 - 2,82)	930	8,70
20+25	2,00	2,50			4,50 (2,40 - 5,80)	3,63	5,60 A+	1,24(0,38-1,93)	620	6,00	3,02	3,78			6,80 (2,20 - 8,20)	3,54	3,90 A	1,92 (0,39 - 2,82)	960	9,00
20+35	2,00	3,50			5,50 (2,40 - 5,80)	3,33	5,60 A+	1,65 (0,37 - 1,86)	825	8,00	2,80	4,90			7,70 (2,20 - 8,60)	3,55	3,90 A	2,17(0,37 - 2,85)	1085	10,20
20+42	2,00	4,20 5.00			6,20 (2,40 - 7,20)	3,00	5,60 A+	2,07 (0,37 - 2,90)	1035	9,90	2,84	5,96			8,80 (2,20 - 10,00)	3,64	3,90 A 4,10 A+	2,42 (0,37 - 3,55)	1210	11,40
20+50	_	5,00			7,00 (2,40 - 8,10)	3,17 2,75	6,10 A++	2,21(0,35-3,10)	1105	10,60	2,69	6,71			9,40 (2,20 - 10,00)			2,45 (0,32 - 3,23)	1225	11,50
20+60	2,00	6,00			8,00 (2,40 - 8,50)		6,10 A++	2,91(0,35-3,49)			2,35	7,05			9,40 (2,20 - 10,00)	3,84	4,10 A+			11,50
20+71 25+25	1,76 2.50	6,24 2,50			8,00 (2,50 - 8,50) 5,00(2,40 - 5,80)	2,89	6,10 A++	2,77(0,38-3,34)	1385 715	13,30	2,07	7,33			9,40 (2,20 - 10,30)	3,93	4,10 A+ 3,90 A	2,39 (0,32 - 3,40)	1195	11,20
25+25	2,50	3,50			5,00(2,40 - 5,80) 6,00(2,40 - 6,70)	3,50	5,60 A+ 5,60 A+	1,43 (0,38 - 1,93) 1,94 (0,37 - 2,48)	970	9,30	3,60	3,60 4,73			7,20 (2,20 - 8,60) 8,10 (2,20 - 9,80)	3,51	3,90 A	2,05 (0,39 - 2,93) 2,32 (0,37 - 3,44)	1160	9,60
25+35	2,50	4,20			6,70(2,40 - 7,20)	2,78	5,60 A+		1205	11,50		5,77			-	3,58	3,90 A	2,57 (0,37 - 3,44)	1285	12,10
25+42	2,50	5,00			7,50(2,40 - 8,50)	2,76	6,10 A++	2,41 (0,37 - 2,90) 2,55 (0,35 - 3,49)	1275	12,20	3,43	6,27			9,20 (2,20 - 10,00)	3,84	4,10 A+	2,45 (0,32 - 3,23)	1225	11,50
25+60	2,35	5,65			8,00 (2,50 - 8,50)	2,74	6,10 A++	2,91 (0,39 - 3,49)	1455	13,90	2,76	6,64			9,40 (2,20 - 10,00)	3,84	4,10 A+	2,45 (0,32 - 3,23)	1225	11,50
25+71	2,08	5,92			8,00 (2,50 - 8,50)	2,89	6,10 A++	2,77 (0,37 - 3,47)	1385	13,30	2,45	6,95			9,40 (2,20 - 10,30)	3,93	4,10 A+	2,39(0,32-3,40)	1195	11,20
35+35	3,50	3,50			7,00 (2,40 - 8,10)	2,75	5,60 A+	2,55 (0,37 - 3,63)	1275	12,20	4,50	4,50			9,00 (2,20 - 10,00)	3,67	3,90 A	2,45 (0,36 - 3,47)	1225	11,50
35+42	3,50	4,20			7,70 (2,40 - 8,50)	2,53	5,60 A+	3,04 (0,37 - 4,12)	1520	14,60	4,27	5,13			9,40 (2,20 - 10,00)	3,63	3,70 A	2,59(0,35-3,46)	1295	12,20
35+50	3,29	4,71			8,00 (2,50 - 8,50)	2,89	6,10 A++	2,77 (0,38 - 3,34)	1385	13,30	3,87	5,53			9,40 (2,20 - 10,00)	3,95	4,10 A+	2,38 (0,32 - 3,20)	1190	11,20
35+60	2,95	5,05			8,00 (2,50 - 8,50)	2,89	6,10 A++	2,77 (0,38 - 3,34)	1385	13,30	3,46	5,94			9,40 (2,20 - 10,30)	3,95	4,10 A+	2,38 (0,32 - 3,32)	1190	11,20
35+71	2,64	5,36			8,00 (2,50 - 8,60)	2,96	6,10 A++	2,70 (0,38 - 3,34)	1350	12,90	3,10	6,30			9,40(2,20 - 10,50)	3,98	4,10 A+	2,36 (0,31 - 3,43)	1180	11,10
42+42	4,00	4,00			8,00 (2,50 - 8,50)	2,40	5,60 A+	3,34 (0,40 - 4,04)	1670	16,00	4,70	4,70			9,40(2,20 - 10,00)	3,64	3,90 A	2,58 (0,35 - 3,45)	1290	12,10
42+50	3,65	4,35			8,00 (2,50 - 8,50)	2,89	6,10 A++	2,77 (0,38 - 3,34)	1385	13,30	4,29	5,11			9,40 (2,20 - 10,30)	3,98	4,10 A+	2,36 (0,32 - 3,31)	1180	11,10
42+60	3,29	4,71			8,00 (2,50 - 8,60)	2,89	6,10 A++	2,77 (0,38 - 3,42)	1385	13,30	3,87	5,53			9,40 (2,20 - 10,30)	3,98	4,10 A+	2,36 (0,32 - 3,31)	1180	11,10
42+71	2,97	5,03			8,00 (2,50 - 8,60)	2,96	6,10 A++	2,70 (0,38 - 3,26)	1350	12,90	3,49	5,91			9,40 (2,20 - 10,50)	4,00	4,10 A+	2,35 (0,31 - 3,42)	1175	11,00
50+50	4,00	4,00			8,00 (2,50 - 8,60)	3,31	6,10 A++	2,42 (0,38 - 2,95)	1210	11,60	4,70	4,70			9,40 (2,20 - 10,30)	4,27	4,10 A+	2,20 (0,31 - 3,09)	1100	10,30
50+60	3,64	4,36			8,00 (2,50 - 8,60)	3,31	6,10 A++	2,42 (0,38 - 2,95)	1210	11,60	4,27	5,13			9,40 (2,20 - 10,50)	4,27	4,10 A+	2,20 (0,31 - 3,15)	1100	10,30
50+71	3,31	4,69			8,00 (2,50 - 8,60)	3,40	6,10 A++	2,35 (0,38 - 2,88)	1175	11,20	3,88	5,52			9,40 (2,20 - 10,50)	4,31	4,10 A+	2,18(0,31-3,13)	1090	10,20
60+60	4,00	4,00			8,00 (2,50 - 8,60)	3,31	6,10 A++	2,42 (0,38 - 2,95)	1210	11,60	4,70	4,70			9,40 (2,20 - 10,50)	4,27	4,10 A+	2,20 (0,31 - 3,15)	1100	10,30
60+71	3,66	4,34			8,00 (2,50 - 8,60)	3,40	6,10 A++	2,35 (0,38 - 2,88)	1175	11,20	4,31	5,09			9,40 (2,20 - 10,50)	4,31	4,10 A+	2,18 (0,31 - 3,13)	1090	10,20
71 + 71	4,00	4,00			8,00 (2,50 - 8,60)	3,51	6,10 A++	2,28(0,41-2,80)	1140	10,90	4,70	4,70			9,40 (2,20 - 10,50)	4,33	4,10 A+	2,17 (0,32 - 3,12)	1085	10,20
3 Rooms																				
16+16+16	1,60	1,60	1,60		4,80 (3,00 - 8,50)	4,44	7,40 A++	1,08(0,49-3,11)	540	5,30	2,60	2,60	2,60		7,80 (3,20 - 10,40)	4,15	4,20 A+	1,88 (0,50 - 3,34)	940	8,80
16+16+20	1,60	1,60	2,00		5,20 (3,00 - 8,50)	4,41	7,40 A++	1,18 (0,49 - 3,11)	590	5,80	2,58	2,58	3,24		8,40 (3,20 - 10,40)	3,98	4,20 A+	2,11 (0,50 - 3,26)	1055	9,90
16+16+25	1,60	1,60	2,50		5,70 (3,00 - 8,50)	4,10	7,40 A++	1,39 (0,49 - 3,11)	695	6,70	2,47	2,47	3,86		8,80 (3,20 - 10,40)	4,21	4,20 A+	2,09 (0,50 - 3,26)	1045	9,80
16+16+35	1,60	1,60	3,50		6,70 (3,00 - 8,50)	3,92	7,40 A++	1,71 (0,48 - 3,03)	855	8,30	2,24	2,24	4,92		9,40 (3,20 - 10,40)	4,18	4,30 A+	2,25 (0,49 - 3,23)	1125	10,60
16+16+42	1,60	1,60	4,20		7,40 (3,00 - 8,50)	3,57	7,40 A++	2,07[0,48-2,95]	1035	9,90	2,03	2,03	5,34		9,40 (3,20 - 10,40)	4,20	4,30 A+	2,24 [0,49 - 3,21]	1120	10,50
16+16+50	1,56	1,56	4,88		8,00 (3,00 - 8,60)	3,81	7,40 A++	2,10 (0,52 - 2,73)	1050	10,10	1,83	1,83	5,74		9,40 (3,20 - 10,40)	4,41	4,40 A+	2,13 (0,48 - 3,00)	1065	10,00
16+16+60	1,39	1,39	5,22		8,00 (3,00 - 8,60)	3,81	7,40 A++	2,10 (0,52 - 2,73)	1050	10,10	1,63	1,63	6,14		9,40 (3,20 - 10,50)	4,41	4,40 A+	2,13 (0,48 - 3,06)	1065	10,00
16+16+71	1,24	1,24	5,52		8,00 (3,00 - 8,80)	3,92	7,40 A++	2,04 (0,52 - 2,80)	1020	9,80	1,46	1,46	6,48		9,40 (3,20 - 10,50)	4,43	4,40 A+	2,12 (0,51 - 3,04)	1060	10,00
16+20+20	1,60	2,00	2,00		5,60 (3,00 - 8,50)	4,18	7,40 A++	1,34 (0,49 - 3,03)	670	6,50	2,58	3,21	3,21		9,00 (3,20 - 10,40)	4,23	4,20 A+	2,13 (0,49 - 3,25)	1065	10,00
16+20+25	1,60	2,00	2,50		6,10 (3,00 - 8,50)	3,94	7,40 A++	1,55 (0,49 - 3,03)	775	7,50	2,47	3,08	3,85		9,40 (3,20 - 10,40)	4,14	4,30 A+	2,27 [0,49 - 3,25]	1135	10,70
16+20+35	1,60	2,00			7,10 (3,00 - 8,50)	3,78	7,40 A++	1,88 [0,48 - 2,95]	940	9,00	2,12		4,63		9,40 (3,20 - 10,40)	4,20	4,30 A+	2,24 [0,49 - 3,21]	1120	10,50
16+20+42	1,60	2,00	4,20		7,80 (3,00 - 8,50)	3,59	7,40 A++	2,17 [0,48 - 2,95]	1085	10,40			5,06		9,40 (3,20 - 10,40)	4,22	4,30 A+	2,23 (0,49 - 3,20)	1115	10,50
16+20+50	1,49	1,86			8,00 (3,00 - 8,60)	3,81	7,40 A++	2,10 (0,52 - 2,73)	1050	10,10		2,19			9,40 (3,20 - 10,50)	4,43	4,40 A+	2,12 (0,51 - 3,05)	1060	10,00
16+20+60	1,33	1,67	5,00		8,00 (3,00 - 8,60)	3,81	7,40 A++	2,10 (0,52 - 2,73)	1050	10,10	1,57	1,96			9,40 (3,20 - 10,50)	4,43	4,40 A+	2,12 (0,51 - 3,05)	1060	10,00
16+20+71	1,20	1,50	5,30		8,00 (3,00 - 8,80)	3,92	7,40 A++	2,04 (0,52 - 2,80)	1020	9,80	1,41		6,23		9,40 (3,20 - 10,50)	4,45	4,40 A+	2,11 (0,51 - 3,03)	1055	9,90
16+25+25	1,60	2,50			6,60 (3,00 - 8,50)	3,69	7,40 A++	1,79 (0,49 - 3,03)	895	8,60	2,28		3,56		9,40 (3,20 - 10,40)	4,14	4,30 A+	2,27(0,49-3,25)	1135	10,70
16+25+35	1,60	2,50	3,50		7,60 (3,00 - 8,50)	3,47	7,40 A++	2,19 (0,48 - 2,95)	1095	10,50	1,98	3,09	4,33		9,40 (3,20 - 10,40)	4,20	4,30 A+	2,24(0,49 - 3,21)	1120	10,50
16+25+42	1,54	2,41	4,05		8,00 (3,00 - 8,60)	3,49	7,40 A++	2,29 (0,48 - 3,03)	1145	11,00	1,81		4,76		9,40 (3,20 - 10,40)	4,22	4,40 A+	2,23 (0,49 - 3,20)	1115	10,50
16+25+50	1,41	2,20			8,00 (3,00 - 8,60)	3,81	7,40 A++	2,10 (0,52 - 2,73)	1050	10,10	1,65		5,17		9,40 (3,20 - 10,50)	4,43	4,40 A+	2,12(0,51 - 3,05)	1060	10,00
16+25+60	1,27	1,98			8,00(3,00-8,80)	3,81	7,40 A++	2,10 (0,52 - 2,80)	1050	10,10	1,49		5,58		9,40 (3,20 - 10,50)	4,43	4,40 A+	2,12(0,51-3,05)	1060	10,00
16+25+71	1,14	1,79			8,00(3,00-8,80)	3,92	7,40 A++	2,04 (0,52 - 2,80)	1020	9,80	1,34		5,96		9,40 (3,20 - 10,60)	4,45	4,40 A+	2,11 (0,51 - 3,09)	1055	9,90
16+35+35		3,26	-		8,00 (3,00 - 8,60)	3,59	7,40 A++	2,23 (0,48 - 2,95)	1115	10,70	1,74		3,83		9,40 (3,20 - 10,50)	4,25	4,40 A+	2,21 (0,48 - 3,24)	1105	10,40
16+35+42	1,38	3,01			8,00 (3,00 - 8,60)	3,59	7,40 A++	2,23 (0,48 - 2,95)	1115	10,70	1,62	3,54	4,24		9,40 (3,20 - 10,50)	4,27	4,40 A+	2,20 (0,48 - 3,16)	1100	10,30
16+35+50	1,27	2,77	3,96		8,00 (3,00 - 8,80)	3,92	7,40 A++	2,04 (0,52 - 2,80)	1020	9,80	1,49		4,65		9,40 (3,20 - 10,50)	4,50	4,40 A+	2,09 (0,51 - 3,01)	1045	9,80
16+35+60		2,52	_		8,00 (3,00 - 8,80)	3,92	7,40 A++	2,04 (0,52 - 2,80)	1020	9,80			5,09		9,40 (3,20 - 10,60)	4,50	4,40 A+	2,09 (0,51 - 3,07)	1045	9,80
16+35+71	1,05	2,30			8,00 (3,00 - 9,00)	3,92	7,40 A++	2,04 [0,52 - 2,87]	1020	9,80	1,23		5,47		9,40 (3,20 - 10,60)	4,52	4,40 A+	2,08 (0,51 - 3,06)	1040	9,80
16+42+42	1,28	3,36			8,00 (3,00 - 8,80)	3,59	7,40 A++	2,23 (0,48 - 3,10)	1115	10,70	1,50		3,95		9,40 (3,20 - 10,50)	4,29	4,40 A+	2,19 (0,48 - 3,15)	1095	10,30
16+42+50	1,19	3,11	_		8,00 (3,00 - 8,80)	3,92	7,40 A++	2,04 (0,52 - 2,80)	1020	9,80	1,39		4,35		9,40 (3,20 - 10,50)	4,50	4,40 A+	2,09 (0,51 - 3,00)	1045	9,80
16+42+60	1,08	2,85			8,00 (3,00 - 9,00)	3,92	7,40 A++	2,04[0,52-2,87]	1020	9,80	1,27		4,78		9,40 (3,20 - 10,60)	4,50	4,40 A+	2,09 (0,51 - 3,06)	1045	9,80
16+42+71	0,99	2,60	4,41		8,00 (3,00 - 9,00)	4,04	7,40 A++	1,98 (0,52 - 2,80)	990	9,50	1,17	3,06	5,17		9,40 (3,20 - 10,60)	4,54	4,40 A+	2,07 (0,51 - 3,04)	1035	9,70

Free Multi R32 combinations table

The column	Free Mul	ti 4x	1 CI	J-42	280T	BE. Minim	ım c	apacity	connected	d: 4,5	kW. M	1ax	imu	m ca	pac	ity connect	ed: ′	14,7 kW	/ · R32		
19-25 19-2				Coo	ling cap	acity (kW). Rooms	EER	SEER 1)		A.E.C.	Current			Heat	ing cap	pacity (kW). Rooms	СОР	SCOP 1)		A.E.C.	Current
1.50 1.50	14 . 50 . 50				D			7 (0 4							D			/ /O.A.			230V
1.		_																			9,40
1.00 1.00	16+50+71	0,93	2,92	4,15		8,00 (3,00 - 9,00)	4,17	7,40 A++	1,92 [0,57 - 2,65]	960	9,20	1,10	3,43	4,87		9,40 (3,20 - 10,60)	4,72	4,40 A+	1,99 (0,59 - 2,92)	995	9,40
2.75.0.1.5 2.96		_										_									
2009 2009				-																	
1965 1966																					10,60
1989 1989																					
1961 1061																					
1965 1966																					9,90
1962 1962 1968 1968 1969	20 + 20 + 71					8,00 (3,00 - 8,80)	3,92	7,40 A++	2,04 (0,52 - 2,72)	1020	9,80	1,69	1,69	6,02		9,40 (3,20 - 10,60)	4,48	4,40 A+	2,10 (0,51 - 3,08)	1050	
1962 1962																					
1967-196																					
14.1. 14.1																					
1965 1965																					
1965 1965																					-
1.00																					10,30
22-2-1-1-1 12 22 23 53 5000000-100 30 30 30 30 30 30 30									2,04 (0,52 - 2,80)							9,40 (3,20 - 10,50)					9,80
14. 14.																					9,80
19-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-																					
19.1 19.1				-																-	
19-19-19-19-19-19-19-19-19-19-19-19-19-1	20+42+60	1,31	2,75	3,94		8,00 (3,00 - 9,00)	3,92	7,40 A++	2,04 (0,52 - 2,87)	1020	9,80	1,54	3,24	4,62		9,40 (3,20 - 10,60)	4,52	4,40 A+	2,08 (0,51 - 3,05)	1040	9,80
19-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1																				-	9,70
19-19-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1																					
2-9-19-19-19-19-19-19-19-19-19-19-19-19-1																					9,30
22-23-24	20+60+60	1,14	3,43	3,43		8,00 (3,00 - 9,00)	4,17	7,40 A++	1,92 (0,57 - 2,65)		9,20	1,34	4,03	4,03		9,40 (3,20 - 10,60)	4,72	4,40 A+	1,99 (0,59 - 2,92)	995	9,40
19-22-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-																					10,60
22-23-24-00		_																			
22-23-3-5																					9,90
25-35-52	25+25+60	1,82				8,00 (3,00 - 8,80)	3,92	7,40 A++	2,04 (0,52 - 2,80)	1020	9,80					9,40 (3,20 - 10,50)	4,45		2,11 (0,51 - 3,03)	1055	
2-3-3-5-2																				-	
25-35-57																					
2-4-2-71		_																			9,80
25-42-42 1.84 3.08 3.8 8.0013.00-8.00 3.79 7.40 ++- 2.210.84 - 3.01 1.15 1.070 2.16 3.42 3.42 9.4013.20 - 1.050 4.31 4.40 + 2.010.61-3.051 1.090 1.020 1.0																					9,80
25-42-90		_																			
25+24-71																				-	
25-50-50 1,60 2,00 3,00 3,00 3,00 3,00 3,00 3,00 3,00 4,17 7,40 A++ 1,210,57-2,68 940 9,20 1,80 3,00 4,00	25+42+60	1,57	2,65	3,78		8,00 (3,00 - 9,00)	3,92	7,40 A++	2,04(0,52-2,87)	1020	9,80	1,85	3,11	4,44		9,40 (3,20 - 10,60)	4,52	4,40 A+	2,08 (0,51 - 3,05)	1040	9,80
25-50-61																				-	9,70
25-60-77 1,77 2,74 3,87 8,001,000-900 4,17 7,40 +++ 1,921,057-24,58 9,00 9,20 1,61 3,22 4,57 9,401,320-10,60 4,72 4,40 ++ 1,910,57-22,79 9,90 9,30 2,5																					
35-35-35-35-42				3,89						960											9,30
5.5 5.5		_																			9,40
35-35-50																					
35+35+00		_																			9,70
35+42+42	35+35+60	2,15	2,15	3,70		8,00 (3,00 - 9,00)	4,04	7,40 A++	1,98 (0,52 - 2,87)	990	9,50	2,53	2,53	4,34		9,40 (3,20 - 10,60)	4,56	4,40 A+		1030	9,70
35+42+50																					9,60
35+42+60				-																	
35 + 50 + 60 1,93 2,6 2,6 2,6 2,6 2,6 2,6 2,8 7,98 3,00 3,00 + 9,00 3,8 7,40 4+ 1,92 1,057 2,58 9,60 9,20 2,27 3,2 3,13 3,13 9,39 3,13																					9,60
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	35+50+50	2,08	2,96	2,96		8,00 (3,00 - 9,00)	4,17	7,40 A++	1,92 (0,57 - 2,65)	960	9,20	2,44	3,48	3,48		9,40 (3,20 - 10,60)		4,40 A+	1,97 (0,60 - 2,89)	985	9,30
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$																				-	9,30
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$																					9,60
4 Roms																				-	9,60
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2,36	2,82	2,82		8,00 (3,00 - 9,00)	4,17	7,40 A++	1,92 (0,57 - 2,65)	960	9,20	2,78	3,31	3,31		9,40 (3,20 - 10,60)	4,77	4,40 A+	1,97 (0,61 - 2,88)	985	9,30
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		1.40	1 40	1 40	1.40	Y (U(3 UU - 0 3U)	7, 20	8 50 4+++	1 49 (0 52 2 05)	7/5	7 20	2 25	2.2F	2 25	2 35	9 40 [4 20 10 40]	4.54	6 60 Az	2 07 (0 49 - 2 02)	1025	0.70
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$																					-
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	16+16+16+25									880										1030	9,70
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				-																	-
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$																					-
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$																					
16+16+20+25 1,60 1,00 2,00 2,50 7,70(3,00-9,20) 4,14 7,90 A+ 1,86(0,53-2,87) 930 8,90 1,95 1,95 2,44 3,06 9,40(4,20-10,60) 4,59 4,60 A+ 2,05(0,68-3,01) 1025 9,60 16+16+20+35 1,47 1,84 3,22 8,00(3,00-9,20) 4,17 7,90 A+ 1,92(0,53-2,87) 9,60 9,20 1,73 1,73 2,16 3,78 9,40(4,20-10,60) 4,63 4,70 A+ 2,03(0,69-2,98) 1015 9,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1		_				8,00 (3,00 - 9,20)			1,87 (0,62 - 2,66)							9,40 (4,20 - 10,60)			1,99 (0,77 - 2,85)		9,40
16+16+20+35 1,47 1,47 1,84 3,22 8,00[3,00-9,20] 4,17 7,90 A++ 1,92[0,53-2,87] 960 9,20 1,73 1,73 2,16 3,78 9,40[4,20-10,60] 4,63 4,70 A++ 2,03[0,69-2,98] 1015 9,50																					9,60
		_																			9,50





Indoor unit capacity			Coo	ling ca	pacity (kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current			Hea	ting cap	pacity (kW). Rooms	COP	SCOP 1)	Input power rating	A.E.C.	Current
	Α	В	С	D	Total (Min - Max)	W/W		kW	kWh	230V	Α	В	С	D	Total (Min - Max)	W/W		kW	kWh	230V
16+16+20+50	1,25	1,25	1,57	3,93	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,65)	935	9,00	1,47	1,47	1,84	4,62	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,99 (0,77 - 2,85)	995	9,40
16+16+20+60 16+16+20+71	1,14	1,14	1,43	4,29	8,00 (3,00 - 9,20) 8,00 (3,00 - 9,20)	4,28	7,90 A++ 7,90 A++	1,87 (0,62 - 2,65) 1,87 (0,62 - 2,66)	935 935	9,00	1,34	1,34	1,68	5,04	9,40 (4,20 - 10,60) 9,40 (4,20 - 10,60)	4,72	4,70 A++ 4,70 A++	1,99 (0,77 - 2,85) 1,98 (0,79 - 2,90)	995 990	9,40
16+16+25+25	1,56	1,56	2,44	2,44	8,00 (3,00 - 7,20)	4,26	7,90 A++ 7,90 A++	1,98 (0,53 - 2,87)	990	9,50	1,83	1,83	2,87	2,87	9,40 (4,20 - 10,60)	4,75	4,70 A++	2,05 (0,68 - 3,01)	1025	9,60
16+16+25+35	1,39	1,39	2,17	3,05	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,53 - 2,87)	960	9,20	1,63	1,63	2,55	3,59	9,40 (4,20 - 10,60)	4,63	4,70 A++	2,03 (0,69 - 2,98)	1015	9,50
16+16+25+42	1,29	1,29	2,02	3,40	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,56 - 2,87)	960	9,20	1,52	1,52	2,37	3,99	9,40(4,20 - 10,60)	4,65	4,70 A++	2,02(0,71 - 2,97)	1010	9,50
16+16+25+50	1,20	1,20	1,87	3,73	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,65)	935	9,00	1,41	1,41	2,20	4,38	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,99 (0,77 - 2,85)	995	9,40
16+16+25+60	1,09	1,09	1,71	4,11	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,65)	935	9,00	1,29	1,29	2,01	4,81	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,99 (0,77 - 2,85)	995	9,40
16+16+25+71	1,00	1,00	1,56	4,44	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,66)	935	9,00	1,18	1,18	1,84	5,20	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,98 (0,79 - 2,90)	990	9,30
16+16+35+35	1,25	1,25	2,75	2,75	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,47	1,47	3,23	3,23	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01 (0,72 - 2,95)	1005	9,40
16+16+35+42	1,17	1,17	2,57	3,09	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,38	1,38	3,02	3,62	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00 (0,72 - 2,94)	1000	9,40
16+16+35+50	1,09	1,09	2,39	3,43	8,00 (3,00 - 9,20) 8,00 (3,00 - 9,20)	4,28	7,90 A++ 7,90 A++	1,87 (0,62 - 2,66) 1,87 (0,62 - 2,66)	935 935	9,00	1,29	1,29	2,81	4,01	9,40 (4,20 - 10,60) 9,40 (4,20 - 10,60)	4,75 4,75	4,70 A++ 4,70 A++	1,98 (0,80 - 2,89) 1,98 (0,80 - 2,89)	990 990	9,30
16+16+35+71	0,93	0,93	2,03	4,11	8,00 (3,00 - 9,20)	4,28	7,70 A++	1,87 (0,63 - 2,66)	935	9,00	1,09	1,09	2,38	4,84	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,80 - 2,87)	985	9,30
16+16+42+42	1,10	1,10	2,90	2,90	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92(0,57 - 2,80)	960	9,20	1,30	1,30	3,40	3,40	9,40(4,20 - 10,60)	4,70	4,70 A++	2,00 (0,72 - 2,93)	1000	9,40
16+16+42+50	1,03	1,03	2,71	3,23	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,66)	935	9,00	1,21	1,21	3,18	3,80	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,80 - 2,88)	985	9,30
16+16+42+60	0,96	0,96	2,51	3,57	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,66)	935	9,00	1,12	1,12	2,95	4,21	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97(0,80-2,88)	985	9,30
16 + 16 + 42 + 71	0,88	0,88	2,32	3,92	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,04	1,04	2,72	4,60	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,81 - 2,87)	985	9,30
16+16+50+50	0,97	0,97	3,03	3,03	8,00 (3,00 - 9,20)	4,26	7,90 A++	1,88 (0,69 - 2,60)	940	9,00	1,14	1,14	3,56	3,56	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01 (0,92 - 2,85)	1005	9,40
16+16+50+60	0,90	0,90	2,82	3,38	8,00 (3,00 - 9,20)	4,26	7,90 A++	1,88 (0,69 - 2,60)	940	9,00	1,06	1,06	3,31	3,97	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01 (0,92 - 2,85)	1005	9,40
16+20+20+20	1,60	2,00	2,00	2,00	7,60 (3,00 - 9,20) 8,00 (3,00 - 9,20)	4,06	7,90 A++	1,87 (0,53 - 2,87)	935	9,00	1,99	2,47	2,47	2,47	9,40 (4,20 - 10,60)	4,61	4,60 A++	2,04(0,69-3,00)	1020	9,60
16+20+20+25 16+20+20+35	1,58	1,98	1,98	2,46 3,07	8,00 (3,00 - 9,20)	4,04	7,90 A++ 7,90 A++	1,98 (0,53 - 2,87) 1,92 (0,57 - 2,80)	990 960	9,50 9,20	1,86	2,32	2,32	2,90 3,61	9,40 (4,20 - 10,60) 9,40 (4,20 - 10,60)	4,61	4,70 A++ 4,70 A++	2,04 (0,69 - 3,00) 2,02 (0,71 - 2,97)	1020	9,60 9,50
16+20+20+42	1,31	1,63	1,63	3,43	8,00 (3,00 - 9,20)	4,17	7,70 A++	1,92 (0,57 - 2,80)	960	9,20	1,53	1,92	1,92	4,03	9,40(4,20 - 10,60)	4,68	4,70 A++	2,02(0,71-2,77)	1005	9,40
16+20+20+50	1,21	1,51	1,51	3,77	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,65)	935	9,00	1,42	1,77	1,77	4,44	9,40(4,20 - 10,60)	4,72	4,70 A++	1,99 (0,79 - 2,90)	995	9,40
16+20+20+60	1,10	1,38	1,38	4,14	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,65)	935	9,00	1,30	1,62	1,62	4,86	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,99[0,79-2,90]	995	9,40
16+20+20+71	1,01	1,26	1,26	4,47	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,18	1,48	1,48	5,26	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,98 [0,80 - 2,89]	990	9,30
16+20+25+25	1,48	1,86	2,33	2,33	8,00 (3,00 - 9,20)	4,04	7,90 A++	1,98 (0,53 - 2,87)	990	9,50	1,75	2,19	2,73	2,73	9,40 (4,20 - 10,60)	4,61	4,70 A++	2,04 [0,69 - 3,00]	1020	9,60
16+20+25+35	1,33	1,67	2,08	2,92	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92(0,57 - 2,80)	960	9,20	1,57	1,96	2,45	3,42	9,40 (4,20 - 10,60)	4,65	4,70 A++	2,02 (0,71 - 2,97)	1010	9,50
16+20+25+42	1,24	1,55	1,94	3,27	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,46	1,83	2,28	3,83	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01 (0,71 - 2,96)	1005	9,40
16+20+25+50 16+20+25+60	1,15	1,44	1,80	3,61	8,00 (3,00 - 9,20) 8,00 (3,00 - 9,20)	4,28	7,90 A++ 7,90 A++	1,87 (0,62 - 2,65) 1,87 (0,62 - 2,65)	935 935	9,00	1,35	1,69	1,94	4,24	9,40 (4,20 - 10,60) 9,40 (4,20 - 10,60)	4,72	4,70 A++ 4,70 A++	1,99 (0,79 - 2,90) 1,99 (0,79 - 2,90)	995 995	9,40
16+20+25+71	0,97	1,21	1,52	4,30	8,00 (3,00 - 9,20)	4,28	7,70 A++	1,87 (0,63 - 2,66)	935	9,00	1,14	1,42	1,78	5,06	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,98 (0,80 - 2,89)	990	9,30
16+20+35+35	1,21	1,51	2,64	2,64	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92(0,57 - 2,80)	960	9,20	1,42	1,78	3,10	3,10	9,40(4,20 - 10,60)	4,70	4,70 A++	2,00 (0,72 - 2,94)	1000	9,40
16+20+35+42	1,13	1,42	2,48	2,97	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,33	1,66	2,91	3,50	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00 (0,72 - 2,93)	1000	9,40
16+20+35+50	1,06	1,32	2,31	3,31	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,24	1,55	2,72	3,89	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,80 - 2,88)	985	9,30
16+20+35+60	0,98	1,22	2,14	3,66	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,15	1,44	2,51	4,30	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 [0,80 - 2,88]	985	9,30
16+20+35+71	0,90	1,13	1,97	4,00	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,06	1,32	2,32	4,70	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,81 - 2,87)	985	9,30
16+20+42+42	1,07	1,33	2,80	2,80	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92(0,57 - 2,80)	960	9,20	1,25	1,57	3,29	3,29	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,99 (0,72 - 2,92)	995	9,40
16+20+42+50	1,00	1,25	2,63	3,12	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,18	1,47	3,08	3,67	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,81 - 2,87)	985	9,30
16+20+42+60 16+20+50+50	0,93	1,16	2,43	3,48 2,94	8,00 (3,00 - 9,20) 8,00 (3,00 - 9,20)	4,28	7,90 A++ 7.90 A++	1,87 (0,63 - 2,66) 1,89 (0,69 - 2,60)	935 945	9,00	1,09	1,36	2,86	3,46	9,40 (4,20 - 10,60) 9,40 (4,20 - 10,60)	4,77	4,70 A++ 4,70 A++	1,97 (0,81 - 2,87) 2,01 (0,93 - 2,90)	985 1005	9,30 9,40
16+20+50+60	0,88	1,10	2,74	3,28	8,00 (3,00 - 9,20)	4,23	7,90 A++	1,89 (0,69 - 2,60)	945	9,00	1,03	1,29	3,22	3,86	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01(0,73 - 2,70)	1005	9,40
16+25+25+25	1,40	2,20	2,20	2,20	8,00 (3,00 - 9,20)	4,04	7,90 A++	1,98 (0,53 - 2,87)	990	9,50	1,66	2,58	2,58	2,58	9,40 (4,20 - 10,60)	4,61	4,70 A++	2,04(0,69-3,00)	1020	9,60
16+25+25+35	1,27	1,98	1,98	2,77	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,49	2,33	2,33	3,25	9,40 (4,20 - 10,60)	4,65	4,70 A++	2,02 [0,71 - 2,97]	1010	9,50
16+25+25+42	1,19	1,85	1,85	3,11	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,39	2,18	2,18	3,65	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01 (0,71 - 2,96)	1005	9,40
16+25+25+50	1,10	1,72	1,72	3,46	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,65)	935	9,00	1,30	2,03	2,03	4,04	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,99 [0,79 - 2,90]	995	9,40
16+25+25+60	1,02	1,59	1,59	3,80	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,65)	935	9,00	1,19	1,87	1,87	4,47	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,99 (0,79 - 2,90)	995	9,40
16+25+25+71	0,93	1,46	1,46 2,52	4,15	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87(0,63-2,66)	935	9,00	1,10	1,72	1,72	4,86	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,98 (0,80 - 2,89)	990	9,30
16+25+35+35	1,15	1,81	2,37	2,52	8,00 (3,00 - 9,20) 8,00 (3,00 - 9,20)	4,17 4,17	7,90 A++ 7,90 A++	1,92 (0,57 - 2,80) 1,92 (0,57 - 2,80)	960 960	9,20 9,20	1,35	2,13 1,99	2,96	2,96 3,35	9,40 (4,20 - 10,60) 9,40 (4,20 - 10,60)	4,70 4,70	4,70 A++ 4,70 A++	2,00 (0,72 - 2,94)	1000	9,40
16+25+35+50	1,02	1,59	2,22	3,17	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,19	1,87	2,61	3,73	9,40(4,20 - 10,60)	4,77	4,70 A++	1,97 (0,80 - 2,88)	985	9,30
16+25+35+60	0,94	1,47	2,06	3,53	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,10	1,73	2,42	4,15	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,80 - 2,88)	985	9,30
16+25+35+71	0,87	1,36	1,90	3,87	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,02	1,60	2,24	4,54	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97(0,81 - 2,87)	985	9,30
16+25+42+42	1,02	1,60	2,69	2,69	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,20	1,88	3,16	3,16	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,99 (0,72 - 2,92)	995	9,40
16+25+42+50	0,96	1,50	2,53	3,01	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,13	1,77	2,97	3,53	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,81 - 2,87)	985	9,30
16+25+42+60	0,90	1,40	2,35	3,35	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,05	1,64	2,76	3,95	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,81 - 2,87)	985	9,30
16+25+50+50	1,07	1,42 2,31	2,84	2,84	8,00 (3,00 - 9,20) 8,00 (3,00 - 9,20)	4,23 4,17	7,90 A++ 7,90 A++	1,89 (0,69 - 2,60) 1,92 (0,57 - 2,80)	945 960	9,00	1,07	1,67 2,72	3,33 2,72	3,33 2,72	9,40 (4,20 - 10,60) 9,40 (4,20 - 10,60)	4,68	4,70 A++ 4,70 A++	2,01 (0,93 - 2,90) 1,98 (0,72 - 2,91)	1005 990	9,40
16+35+35+35	1,00	2,19	2,19	2,62	8,00 (3,00 - 7,20)	4,17	7,70 A++	1,92 (0,57 - 2,72)	960	9,20	1,18	2,72	2,72	3,08	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,78 (0,72 - 2,71)	990	9,30
16+35+35+50	0,94	2,06	2,06	2,94	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,11	2,42	2,42	3,45	9,40(4,20 - 10,60)	4,70	4,70 A++	2,00 (0,84 - 2,86)	1000	9,40
16+35+35+60	0,88	1,92	1,92	3,28	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,03	2,25	2,25	3,87	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00 (0,84 - 2,86)	1000	9,40
16+35+42+42	0,95	2,07	2,49	2,49	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,72)	960	9,20	1,11	2,45	2,92	2,92	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,75 - 2,89)	985	9,30
16+35+42+50	0,90	1,96	2,35	2,79	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,05	2,30	2,76	3,29	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00 (0,84 - 2,85)	1000	9,40
16+42+42+42	0,89	2,37	2,37	2,37	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,72)	960	9,20	1,06	2,78	2,78	2,78	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,76 - 2,88)	985	9,30
20+20+20+20	2,00	2,00	2,00	2,00	8,00 (3,00 - 9,20)	4,04	7,90 A++	1,98 (0,53 - 2,87)	990	9,50	2,35	2,35	2,35	2,35	9,40 (4,20 - 10,60)	4,63	4,70 A++	2,03 (0,69 - 2,99)	1015	9,50
20+20+20+25	1,88	1,88	1,88	2,36	8,00 (3,00 - 9,20) 8,00 (3,00 - 9,20)	4,04	7,90 A++ 7,90 A++	1,98 (0,53 - 2,87) 1,92 (0,57 - 2,80)	990 960	9,50 9,20	1,98	1,98	2,21 1,98	3,46	9,40 (4,20 - 10,60) 9,40 (4,20 - 10,60)	4,63	4,70 A++ 4,70 A++	2,03 (0,69 - 2,99)	1015	9,50 9,40
20+20+20+35	1,57	1,57		3,29	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92(0,57 - 2,80)	960	9,20	1,98	1,98	1,84	3,46	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01 (0,71 - 2,96)	1005	9,40
20+20+20+50	1,45	1,45	1,45	3,65	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,65)	935	9,00	1,71	1,71	1,71	4,27	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,98 (0,80 - 2,89)	990	9,30
20+20+20+60	1,33	1,33	1,33	4,01	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,65)	935	9,00	1,57	1,57	1,57	4,69	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,98 (0,80 - 2,89)	990	9,30
20+20+20+71	1,22	1,22	1,22	4,34	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,44	1,44	1,44	5,08	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,80 - 2,88)	985	9,30
20+20+25+25	1,78	1,78	2,22	2,22	8,00 (3,00 - 9,20)	4,04	7,90 A++	1,98 (0,53 - 2,87)	990	9,50	2,09	2,09	2,61	2,61	9,40 (4,20 - 10,60)	4,63	4,70 A++	2,03 (0,69 - 2,99)	1015	9,50
20+20+25+35	1,60	1,60	2,00	2,80	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,88	1,88	2,35	3,29	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01 (0,71 - 2,96)	1005	9,40
	4 50	1 EO	1,87	3,13	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,76	1,76	2,20	3,68	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01 (0,72 - 2,95)	1005	9,40
20+20+25+42	1,50	1,50	1,74	3,48	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,65)	935	9,00	1,63	1,63	2,04	4,10	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,98 (0,80 - 2,89)	990	9,30

Free Multi R32 combinations table

Indoor unit capacity			Coc	ling cap	pacity (kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current			Hea	ting ca	pacity (kW). Rooms	COP	SCOP 1)	Input power rating	A.E.C.	Current
	Α	В	С	D	Total (Min - Max)	W/W		kW	kWh	230V	Α	В	С	D	Total (Min - Max)	W/W		kW	kWh	230V
20+20+25+71	1,18	1,18	1,47	4,17	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,38	1,38	1,73	4,91	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,80 - 2,88)	985	9,30
20+20+35+35	1,45	1,45	2,55	2,55	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92(0,57-2,80)	960	9,20	1,71	1,71	2,99	2,99	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00 (0,72 - 2,93)	1000	9,40
20+20+35+42	1,37	1,37	2,39	2,87	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,61	1,61	2,81	3,37	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,99 (0,72 - 2,92)	995	9,40
20+20+35+50	1,28	1,28	2,24	3,20	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,50	1,50	2,63	3,77	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,81 - 2,87)	985	9,30
20+20+35+60	1,19	1,19	2,07	3,55	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,39	1,39	2,44	4,18	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,81 - 2,87)	985	9,30
20+20+35+71	1,10	1,10	1,92	3,88	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,29	1,29	2,25	4,57	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00(0,83-2,86)	1000	9,40
20+20+42+42	1,29	1,29	2,71	2,71	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,52	1,52	3,18	3,18	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,98(0,72-2,91)	990	9,30
20+20+42+50	1,21	1,21	2,55	3,03	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,42	1,42	2,99	3,57	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00 (0,81 - 2,86)	1000	9,40
20+20+42+60	1,13	1,13	2,37	3,37	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,32	1,32	2,78	3,98	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00 (0,81 - 2,86)	1000	9,40
20+20+50+50	1,14	1,14	2,86	2,86	8,00 (3,00 - 9,20)	4,23	7,90 A++	1,89 (0,70 - 2,60)	945	9,00	1,34	1,34	3,36	3,36	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01 (0,94 - 2,89)	1005	9,40
20+25+25+25	1,67	2,11	2,11	2,11	8,00 (3,00 - 9,20)	4,04	7,90 A++	1,98 (0,53 - 2,87)	990	9,50	1,99	2,47	2,47	2,47	9,40 (4,20 - 10,60)	4,63	4,70 A++	2,03 (0,69 - 2,99)	1015	9,50
20+25+25+35	1,52	1,90	1,90	2,68	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92(0,57 - 2,80)	960	9,20	1,79	2,24	2,24	3,13	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01 (0,71 - 2,96)	1005	9,40
20+25+25+42	1,43	1,79	1,79	2,99	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,68	2,10	2,10	3,52	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01 (0,72 - 2,95)	1005	9,40
20+25+25+50	1,33	1,67	1,67	3,33	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,65)	935	9,00	1,57	1,96	1,96	3,91	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,98 (0,80 - 2,89)	990	9,30
20+25+25+60	1,23	1,54	1,54	3,69	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,62 - 2,65)	935	9,00	1,45	1,81	1,81	4,33	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,98 (0,80 - 2,89)	990	9,30
20+25+25+71	1,13	1,42	1,42	4,03	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,33	1,67	1,67	4,73	9,40(4,20 - 10,60)	4,77	4,70 A++	1,97 (0,80 - 2,88)	985	9,30
20+25+35+35	1,39	1,75	2,43	2,43	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,63	2,05	2,86	2,86	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00 (0,72 - 2,93)	1000	9,40
20+25+35+42	1,31	1,64	2,30	2,75	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,54	1,93	2,70	3,23	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,99 (0,72 - 2,92)	995	9,40
20+25+35+50	1,23	1,54	2,15	3,08	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,45	1,81	2,53	3,61	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,81 - 2,87)	985	9,30
20+25+35+60	1,14	1,43	2,00	3,43	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9.00	1,34	1.68	2,35	4.03	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,81 - 2,87)	985	9,30
20+25+42+42	1,24	1,56	2,60	2,60	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	1,46	1,82	3,06	3,06	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,98 (0,72 - 2,91)	990	9,30
20+25+42+50	1,17	1,46		2,92	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,37	1,72	2,88	3,43	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00 (0,81 - 2,86)	1000	9,40
20+25+42+60	1,09	1,36		3,26	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,28	1,60	2,69	3,83	9,40(4,20 - 10,60)	4,70	4,70 A++	2,00 (0,81 - 2,86)	1000	9,40
20+25+50+50	1,10	1,38	2,76	2,76	8,00 (3,00 - 9,20)	4,23	7,90 A++	1,89 (0,70 - 2,60)	945	9,00	1,30	1,62	3,24	3,24	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01(0,94-2,89)	1005	9,40
20+35+35+35	1.28	2.24	2,24	2.24	8,00 (3,00 - 9,20)	4.17	7,90 A++	1,92 (0,57 - 2,72)	960	9,20	1.51	2.63	2,63	2.63	9,40 (4,20 - 10,60)	4.75	4.70 A++	1,98(0,75-2,90)	990	9,30
20+35+35+42	1,21	2,12		2,55	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,72)	960	9,20	1,42	2,49	2,49	3,00	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,75 - 2,89)	985	9,30
20+35+35+50	1,14	2.00	2,00	2.86	8,00 (3,00 - 9,20)	4,28	7.90 A++	1,87 (0,63 - 2,66)	935	9,00	1,34	2.35	2,35	3.36	9,40 (4,20 - 10,60)	4.70	4,70 A++	2,00 (0,84 - 2,85)	1000	9,40
20+35+42+42	1,15	2.01	2,42	2,42	8,00 (3,00 - 9,20)	4.17	7.90 A++	1,92 (0,57 - 2,72)	960	9.20	1,35	2.37	2.84	2.84	9,40 (4,20 - 10,60)	4.77	4.70 A++	1,97 (0,76 - 2,88)	985	9,30
20+35+42+50	1,09	1,90		2,72	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87(0,63-2,66)	935	9,00	1,28	2,24	2,69	3,19	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,99 (0,85 - 2,84)	995	9,40
20+42+42+42	1,10	2.30		2,30	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,58 - 2,72)	935	9.00	1,30		2,70	2.70	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00 (0,76 - 2,87)	1000	9,40
25+25+25+25	2,00	2,00	2,00	2,00	8,00 (3,00 - 9,20)	4,04	7,90 A++	1,98 (0,53 - 2,87)	990	9,50	2,35	2,35	2,35	2,35	9,40 (4,20 - 10,60)	4,63	4,70 A++	2,03 (0,69 - 2,99)	1015	9,50
25+25+25+35	1,82	1,82	1,82	2,54	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,80)	960	9,20	2,14	2,14	2,14	2,98	9,40 (4,20 - 10,60)	4,68	4,70 A++	2,01 (0,71 - 2,96)	1005	9,40
25+25+25+42	1.71	1,71	1,71	2,87	8,00 (3,00 - 9,20)	4.17	7.90 A++	1,92 (0,57 - 2,80)	960	9.20	2,01	2.01	2,01	3,37	9,40(4,20 - 10,60)	4.68	4,70 A++	2,01 (0,72 - 2,95)	1005	9,40
25+25+25+50	1,60	1,60		3,20	8,00 (3,00 - 9,20)	4,28	7.90 A++	1,87 (0,62 - 2,65)	935	9,00	1,88	1.88	1.88	3.76	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,98 (0,80 - 2,89)	990	9,30
25+25+25+60	1.48	1.48		3.56	8,00 (3,00 - 9,20)	4.28	7,90 A++	1,87 (0,62 - 2,65)	935	9.00	1.74	1.74	1.74	4.18	9,40 (4,20 - 10,60)	4.75	4,70 A++	1,98(0,80 - 2,89)	990	9.30
25+25+25+71	1,37	1,37	1,37	3,89	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,61	1,61	1,61	4,57	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,80 - 2,88)	985	9,30
25+25+35+35	1,67	1,67	2,33	2,33	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92(0,57 - 2,80)	960	9,20	1,96	1,96	2,74	2,74	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00 (0,72 - 2,93)	1000	9,40
25+25+35+42	1,57	1,57	2,20	2,66	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92(0,57 - 2,80)	960	9,20	1,85	1,85	2,59	3,11	9,40 (4,20 - 10,60)	4,72	4,70 A++	1,99 (0,72 - 2,92)	995	9,40
25+25+35+50	1,48	1,48	2,07	2,97	8,00 (3,00 - 9,20)	4,28	7,70 A++	1,87(0,63 - 2,66)	935	9,00	1,74	1,74	2,44	3,48	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,81 - 2,87)	985	9,30
25+25+35+60	1,38	1,38		3,31	8,00 (3,00 - 9,20)	4,28	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,62	1,62	2,27	3,89	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,81 - 2,87)	985	9,30
25+25+42+42	1,30	1,49		2.51	8,00 (3,00 - 9,20)	4,20	7,70 A++	1,92 (0,57 - 2,80)	960	9,20	1,75	1.75	2,95	2.95	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,98 (0,72 - 2,91)	990	9,30
25+25+42+42	1,47	1,41		2,81	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,87 (0,63 - 2,66)	935	9,00	1,65	1,65	2,73	3,32	9,40(4,20 - 10,60)	4,70	4,70 A++	2,00 (0,81 - 2,86)	1000	9,40
25+35+35+35	1,55	2,15		2,15	8,00 (3,00 - 9,20)	4,17	7,90 A++	1,92 (0,57 - 2,72)	960	9,20	1,81	2,53	2,53	2,53	9,40 (4,20 - 10,60)	4,75	4,70 A++	1,98(0,75-2,90)	990	9,30
25+35+35+42	1,46	2,04		2,46	8,00 (3,00 - 9,20)	4,17	7,70 A++	1,92 (0,57 - 2,72)	960	9,20	1,72	2,40	2,40	2,88	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,75(0,75-2,76)	985	9,30
25+35+35+50	1,38	1,93		2,76	8,00 (3,00 - 9,20)	4,17	7,70 A++	1,87 (0,63 - 2,66)	935	9,00	1,62	2,27	2,27	3,24	9,40 (4,20 - 10,60)	4,70	4,70 A++	2,00 (0,84 - 2,85)	1000	9,40
25+35+42+42	1,39	1,75		2,33	8,00 (3,00 - 9,20)	4,17	7,70 A++	1,92 (0,57 - 2,72)	960	9,20	1,63	2,29	2,74	2,74	9,40 (4,20 - 10,60)	4,77	4,70 A++	1,97 (0,76 - 2,88)	985	9,30
35+35+35+35	2.00	2.00		2,00	8.00 (3.00 - 7,20)	4,17	7,70 A++	1.87 (0.58 - 2.72)	935	9.00	2.35	2,27	2,74	2,74	9,40 (4,20 - 10,60)	4,77	4,70 A++	2,00 (0,76 - 2,87)	1000	9,40
35+35+35+35	1,90	1,90	1,90	2,30	8,00 (3,00 - 9,20)	4,28		1,87 (0,58 - 2,72)	935	9,00	2,35	2,35	2,35	2,35	9,40 (4,20 - 10,60)	4,70		2,00 (0,76 - 2,87)	1000	9,40
JJ+JJ+JJ+4Z	1,70	1,70	1,70	2,30	0,00 (3,00 - 7,20)	4,28	7,90 A++	1,07(0,08-2,72	730	9,00	2,24	2,24	2,24	2,08	7,40 (4,20 - 10,60	4,70	4,70 A++	2,00 (0,76 - 2,86)	1000	7,40

1) Energy Label Scale from A+++ to D.





Free Mul	lti 5x	I CU-5	Z90TBE. Minimum	сар	acity c	onnected:	4,5 k	κW. M	axi	mun	n capacity connected	l: 18	,3 kW	R32		
Indoor unit capacity			Cooling capacity (kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current			Heating capacity (kW). Rooms	СОР	SCOP 11	Input power rating	A.E.C.	Current
4.5	A	В	C D E Total (Min - Max)	W/W		kW	kWh	230V	A	В	C D E Total (Min - Max)	W/W		kW	kWh	230V
1 Room	1,60		1,60(1,30-2,30)	4,00		0,40 (0,25 - 0,64)	200	2,00	2,60		2,60(1,20-3,20)	4,33		0,60 (0,30 - 0,96)	300	3,00
20	2,00		2,00(1,80-2,90)	4,00		0,50 (0,34 - 0,81)	250	2,50	3,20		3,20 (1,20 - 4,10)			0,74 (0,30 - 1,23)	370	3,70
25	2,50		2,50(1,80-2,90)	3,97		0,63 (0,34 - 0,81)	315	3,20	3,60		3,60 (1,20 - 4,30)	3,83		0,94 (0,30 - 1,23)	470	4,70
35	3,50		3,50(1,80-4,10)	3,72		0,94 (0,34 - 1,36)	470	4,50	4,50		4,50 (1,20 - 5,80)			1,23 (0,30 - 2,10)	615	6,00
50	4,20 5,00		4,20(1,80 - 4,50) 5,00(1,90 - 5,70)	3,07		1,37 (0,34 - 1,99) 1,55 (0,34 - 2,13)	685 775	6,40 7,20	5,60		5,60 (1,20 - 6,80) 6,80 (1,20 - 6,90)			1,72 (0,30 - 2,93) 2,10 (0,30 - 2,52)	860 1050	9,70
60	6,00		6,00(1,70-6,20)	2,96		2,03 (0,34 - 2,33)	1015	9,20	8,50		8,50(1,30-9,00)			2,40 (0,62 - 2,55)	1200	11,10
71	7,10		7,10(2,00 - 7,20)	2,81		2,53 (0,37 - 2,77)	1265	11,40	8,70		8,70 (1,40 - 9,20)			2,55 (0,68 - 2,72)	1275	11,80
2 Rooms																
16+16	1,60	1,60	3,20(2,40-5,80)	4,85	5,60 A+	0,66 (0,27 - 1,74)	330	3,40	2,35	2,35	4,70 (2,00 - 8,20)		3,80 A	1,21 (0,22 - 2,41)	605	5,80
16+20	1,60	2,00	3,60(2,40-5,80)	4,56	5,60 A+	0,79 (0,27 - 1,74)	395 480	4,00	2,31	2,89	5,20(2,00-8,20)		3,80 A 3,80 A	1,37(0,22-2,40)	685 750	6,50
16+25 16+35	1,60	2,50 3,50	4,10 (2,40 - 5,80) 5,10 (2,40 - 5,80)	4,27 3,86	5,60 A+ 5,60 A+	0,96 (0,27 - 1,74) 1,32 (0,26 - 1,68)	660	4,70 6,40	2,19	4,39	5,60 (2,00 - 8,20) 6,40 (2,00 - 8,60)		3,80 A	1,50 (0,22 - 2,40) 1,69 (0,21 - 2,48)	845	7,10
16+42	1,60	4,20	5,80 (2,40 - 6,70)	3,56	5,60 A+	1,63 (0,26 - 2,13)	815	7,90	2,04	5,36	7,40(2,00-10,10)		3,80 A	1,99 (0,21 - 3,03)	995	9,40
16+50	1,60	5,00	6,60 (2,40 - 7,20)	3,59	6,10 A++	1,84 (0,25 - 2,13)	920	8,80	2,06	6,44	8,50(2,00-11,00)	3,86	4,00 A+	2,20 (0,16 - 3,04)	1100	10,30
16+60	1,60	6,00	7,60 (2,40 - 8,60)	3,21	6,10 A++	2,37 (0,25 - 3,08)	1185	11,30	2,11	7,89	10,00 (2,00 - 11,00)	3,75	4,00 A+	2,67 (0,16 - 3,04)	1335	12,50
16+71	1,60	7,10	8,70 (2,50 - 9,10)	2,98	6,10 A++	2,92 (0,27 - 3,16)	1460	14,00	1,88	8,32	10,20(2,00-13,00)	3,82	4,00 A+	2,67 (0,16 - 3,83)	1335	12,50
20+20	2,00	2,00	4,00(2,40-5,80)	4,35	5,60 A+	0,92 (0,26 - 1,68)	460	4,50	2,90	2,90	5,80 (2,00 - 8,20)		3,80 A	1,53 (0,22 - 2,39)	765	7,30
20+25	2,00	2,50 3,50	4,50 (2,40 - 5,80) 5,50 (2,40 - 5,80)	3,74	5,60 A+ 5,60 A+	1,12 (0,26 - 1,68)	735	5,50 7,10	2,71	3,39 4,39	6,10 (2,00 - 8,20) 6,90 (2,00 - 8,60)		3,80 A 3,80 A	1,62 (0,22 - 2,39)	905	7,70 8,50
20+42	2,00	4,20	6,20(2,40 - 7,20)	3,37	5,60 A+	1,84 (0,26 - 2,49)	920	8,80	2,55	5,35	7,90(2,00-11,00)		3,80 A	2,16(0,20 - 3,23)	1080	10,20
20+50	2,00	5,00	7,00 (2,40 - 8,10)	3,59	6,10 A++	1,95 (0,25 - 2,61)	975	9,30	2,57	6,43	9,00(2,00-11,00)		4,00 A+	2,26 (0,16 - 2,98)	1130	10,60
20+60	2,00	6,00	8,00 (2,40 - 8,60)	3,14	6,10 A++	2,55 (0,25 - 3,01)	1275	12,20	2,60	7,80	10,40(2,00-11,90)	3,88	4,00 A+	2,68 (0,16 - 3,33)	1340	12,60
20+71	1,98	7,02	9,00 (2,50 - 10,00)	2,88	6,10 A++	3,12 (0,27 - 4,03)	1560	14,90	2,29	8,11	10,40(2,00 - 13,00)	3,97	4,00 A+	2,62 (0,16 - 3,82)	1310	12,30
25+25	2,50	2,50	5,00 (2,40 - 5,80)	3,94	5,60 A+	1,27 (0,26 - 1,68)	635	6,10	3,25	3,25	6,50 (2,00 - 8,60)	3,82	3,80 A	1,70 (0,22 - 2,50)	850	8,10
25+35	2,50	3,50	6,00(2,40 - 6,70)	3,47	5,60 A+	1,73 (0,26 - 2,13)	865	8,40	3,04	4,26	7,30(2,00-10,10)		3,80 A	1,94 (0,21 - 3,03)	970	9,10
25+42 25+50	2,50 2,50	4,20 5,00	6,70 (2,40 - 7,20) 7,50 (2,40 - 8,60)	3,15	5,60 A+ 6,10 A++	2,13 (0,26 - 2,49) 2,25 (0,25 - 3,01)	1065	10,20	3,10	5,20 6,27	8,30(2,00-11,00) 9,40(2,00-11,00)	3,61	3,80 A 4,00 A+	2,30 (0,20 - 3,23) 2,45 (0,16 - 2,98)	1150	10,80
25+60	2,50	6,00	8,50(2,50-9,10)	2,89	6,10 A++	2,94 (0,27 - 3,29)	1470	14,10	3,06	7,34	10,40(2,00 - 13,00)		4,00 A+	2,68 (0,16 - 3,83)	1340	12,60
25+71	2,34	6,66	9,00 (2,50 - 10,10)	2,88	6,10 A++	3,12 (0,27 - 4,18)	1560	14,90	2,71	7,69	10,40(2,00-13,00)		4,00 A+	2,62 (0,16 - 3,82)	1310	12,30
35+35	3,50	3,50	7,00 (2,40 - 8,10)	3,11	5,60 A+	2,25 (0,26 - 3,06)	1125	10,80	4,05	4,05	8,10(2,00-11,00)	3,70	3,80 A	2,19 (0,20 - 3,22)	1095	10,30
35+42	3,50	4,20	7,70 (2,40 - 8,60)	2,88	5,60 A+	2,67 (0,26 - 3,55)	1335	12,80	4,14	4,96	9,10(2,00-11,00)		3,80 A	2,49 (0,20 - 3,16)	1245	11,70
35+50	3,50	5,00	8,50(2,50-9,10)	3,02	6,10 A++	2,81 (0,27 - 3,16)	1405	13,50	4,20	6,00	10,20(2,00-13,00)		4,00 A+	2,59 (0,16 - 3,81)	1295	12,20
35+60 35+71	3,32 2,97	5,68	9,00 (2,50 - 10,10) 9,00 (2,50 - 10,40)	2,82 3,01	6,10 A++ 6,10 A++	3,19 (0,27 - 4,18) 2,99 (0,27 - 4,34)	1595 1495	15,30 14,30	3,83	6,57	10,40(2,00 - 13,00) 10,40(2,00 - 13,80)	3,98 4,02	4,00 A+	2,61 (0,16 - 3,81) 2,59 (0,16 - 4,14)	1305	12,30
42+42	4,20	4,20	8,40(2,50-9,10)	2,51	5,60 A+	3,34(0,28-3,96)	1670	16,00	5,05	5,05	10,10(2,00-13,00)	3,62	3,80 A	2,79 (0,19 - 3,99)	1395	13,10
42+50	4,11	4,89	9,00 (2,50 - 10,00)	2,88	6,10 A++	3,12(0,27 - 4,03)	1560	14,90	4,75	5,65	10,40(2,00-13,00)		4,00 A+	2,60 (0,16 - 3,74)	1300	12,20
42+60	3,71	5,29	9,00 (2,50 - 10,40)	2,88	6,10 A++	3,12 (0,27 - 4,33)	1560	14,90	4,28	6,12	10,40(2,00-13,80)	4,00	4,00 A+	2,60 (0,16 - 4,15)	1300	12,20
42+71	3,35	5,65	9,00 (2,50 - 10,40)	3,01	6,10 A++	2,99 [0,27 - 4,34]	1495	14,30	3,87	6,53	10,40(2,00 - 13,80)	4,03	4,00 A+	2,58 (0,16 - 4,13)	1290	12,10
50+50	4,50	4,50	9,00 (2,50 - 10,40)	3,38	6,10 A++	2,66 (0,26 - 3,61)	1330	12,70	5,20	5,20	10,40(2,00 - 13,80)	4,28	4,00 A+	2,43 (0,17 - 3,90)	1215	11,40
50+60	4,09	4,91	9,00(2,50 - 10,40)	3,38	6,10 A++	2,66 (0,26 - 3,61)	1330	12,70	4,73	5,67	10,40(2,00-13,80)		4,00 A+	2,43 (0,17 - 3,90)	1215	11,40
50+71 60+60	3,72 4,50	5,28 4,50	9,00 (2,50 - 10,40) 9,00 (2,50 - 10,40)	3,46	6,10 A++ 6,10 A++	2,60 (0,26 - 3,48)	1300	12,40	4,30 5,20	6,10 5,20	10,40(2,00 - 13,80) 10,40(2,00 - 13,80)	4,32	4,00 A+ 4,00 A+	2,41 (0,17 - 3,89) 2,43 (0,17 - 3,90)	1205	11,30
60+71	4,12	4,88	9,00(2,50 - 10,40)	3,46	6,10 A++	2,60 (0,26 - 3,48)	1300	12,40	4,76	5,64	10,40(2,00 - 13,80)	4,32	4,00 A+	2,41 (0,17 - 3,89)	1205	11,30
71+71	4,50	4,50	9,00 (2,50 - 10,40)	3,64	6,10 A++	2,47 [0,29 - 3,34]	1235	11,80	5,20		10,40(2,00 - 13,80)		4,00 A+	2,35 (0,18 - 3,87)	1175	11,00
3 Rooms																
16+16+16	1,60			4,85	7,20 A++	0,99 (0,32 - 2,62)	495	4,90		2,33			4,00 A+	1,54 (0,23 - 3,38)	770	7,30
16+16+20	1,60	1,60 2,0		4,73	7,20 A++	1,10 (0,32 - 2,62)	550	5,40	-,-		2,92 7,60(2,70-12,30)	.,	4,00 A+	.,,=== =,=.,	870	8,30
16+16+25	1,60	1,60 2,5 1,60 3,5		4,42	7,20 A++ 7,20 A++	1,29 (0,32 - 2,62) 1,61 (0,31 - 2,55)	645 805	6,20 7,80	2,22		3,46 7,90(2,70-12,30) 4,54 8,70(2,70-12,30)		4,00 A+ 4,10 A+	1,83 (0,23 - 3,37) 2,02 (0,23 - 3,28)	915	9,50
16+16+42	1,60	1,60 4,2		3,79	7,20 A++	1,95 (0,34 - 2,49)	975	9,30	2,10		5,50 9,70(2,70 - 12,30)	4,06	4,10 A+	2,39 (0,23 - 3,27)	1195	11,20
16+16+50	1,60	1,60 5,0		3,89	7,20 A++	2,11 [0,34 - 2,29]	1055	10,10	2,03		6,34 10,40(2,70-12,90)		4,10 A+	2,31 (0,25 - 3,36)	1155	10,90
16+16+60	1,57	1,57 5,8	6 9,00(2,90-10,10)	3,64	7,20 A++	2,47 (0,34 - 3,00)	1235	11,80	1,81	1,81	6,78 10,40(2,70-13,60)	4,50	4,20 A+	2,31 (0,25 - 3,70)	1155	10,90
16+16+71	1,40	1,40 6,2		3,73	7,20 A++	2,41 [0,34 - 3,34]	1205	11,50	1,62		7,16 10,40(2,70-13,60)		4,20 A+	2,30 (0,25 - 3,62)	1150	10,80
16+20+20	1,60	2,00 2,0		4,52	7,20 A++	1,24 (0,31 - 2,55)	620	6,00	2,32		2,89 8,10(2,70-12,30)		4,00 A+	1,87 (0,23 - 3,36)	935	8,80
16+20+25 16+20+35	1,60	2,00 2,5		4,21 3,99	7,20 A++ 7,20 A++	1,45 (0,31 - 2,55) 1,78 (0,34 - 2,49)	725 890	7,00 8,50	2,23		3,48 8,50(2,70-12,30) 4,58 9,30(2,70-12,30)		4,10 A+ 4,10 A+	2,05 (0,23 - 3,36)	1025	9,60
16+20+42	1,60	2,00 4,2		3,79	7,20 A++	2,06 (0,34 - 2,47)	1030	9,90	2,10		5,55 10,30(2,70-12,90)		4,10 A+	2,42 (0,23 - 3,54)	1210	11,40
16+20+50	1,60	2,00 5,0		3,74	7,20 A++	2,30 (0,34 - 2,62)	1150	11,00	1,93		6,05 10,40(2,70-13,60)		4,20 A+	2,30 (0,25 - 3,63)	1150	10,80
16+20+60	1,49	1,88 5,6	3 9,00(2,90-10,10)	3,73	7,20 A++	2,41 (0,34 - 2,94)	1205	11,50	1,73	2,17	6,50 10,40(2,70-13,60)	4,52	4,20 A+	2,30 (0,25 - 3,63)	1150	10,80
16+20+71	1,35	1,68 5,9	7 9,00(2,90-10,70)	3,83	7,20 A++	2,35 (0,34 - 3,34)	1175	11,20	1,56		6,90 10,40(2,70-13,80)	4,54	4,20 A+	2,29 (0,25 - 3,73)	1145	10,80
16+25+25	1,60	2,50 2,5		3,98	7,20 A++	1,66 (0,31 - 2,55)	830	8,00	2,14		3,33 8,80(2,70-12,30)		4,10 A+	2,08 (0,23 - 3,36)	1040	9,80
16+25+35	1,60	2,50 3,5 2,50 4,2		3,69	7,20 A++	2,06 (0,34 - 2,49) 2,36 (0,34 - 2,54)	1030	9,90	2,02		4,42 9,60(2,70-12,30) 5,27 10,40(2,70-12,90)		4,10 A+	2,34(0,23-3,27)	1170	11,00
16+25+42	1,58	2,47 4,9		3,73	7,20 A++ 7,20 A++	2,41 (0,34 - 2,94)	1180	11,30	1,83		5,27 10,40(2,70-12,90) 5,71 10,40(2,70-13,60)		4,10 A+ 4,20 A+	2,46 (0,23 - 3,54) 2,30 (0,25 - 3,63)	1230	11,60
16+25+60	1,42	2,23 5,3		3,73	7,20 A++	2,41 (0,34 - 3,48)	1205	11,50	1,65		6,18 10,40(2,70 - 13,60)		4,20 A+	2,30 (0,25 - 3,63)	1150	10,80
16+25+71	1,28	2,01 5,7		3,83	7,20 A++	2,35 (0,34 - 3,34)	1175	11,20	1,49		6,59 10,40(2,70-13,80)		4,20 A+	2,29 (0,25 - 3,73)	1145	10,80
16+35+35	1,60	3,50 3,5		3,45	7,20 A++	2,49 (0,34 - 2,93)	1245	11,90	1,94	4,23	4,23 10,40(2,70-13,60)		4,20 A+	2,45 (0,23 - 3,86)	1225	11,50
16+35+42	1,55	3,39 4,0		3,38	7,20 A++	2,66 (0,34 - 3,33)	1330	12,70	1,79		4,70 10,40(2,70-13,60)		4,20 A+	2,43 (0,24 - 3,85)	1215	11,40
16+35+50	1,42	3,12 4,4		3,73	7,20 A++	2,41 (0,34 - 3,34)	1205	11,50	1,65	3,60	5,15 10,40(2,70-13,60)		4,20 A+	2,27 (0,25 - 3,59)	1135	10,70
16+35+60	1,30	2,84 4,8		3,73	7,20 A++	2,41 (0,34 - 3,34)	1205	11,50	1,50		5,62 10,40(2,70-13,80)	4,58	4,20 A+	2,27(0,25-3,71)	1135	10,70
16+35+71	1,18	2,58 5,2 3,78 3,7		3,83	7,20 A++ 7,20 A++	2,35 (0,34 - 3,20) 2,66 (0,34 - 3,91)	1175	11,20 12,70	1,36		6,06 10,40(2,70-13,80) 4,37 10,40(2,70-13,60)		4,20 A+	2,26 (0,27 - 3,69) 2,42 (0,24 - 3,78)	1130	10,60
16+42+42	1,33	3,50 4,1		3,83	7,20 A++ 7,20 A++	2,35 (0,34 - 3,34)	1175	11,20	1,54		4,82 10,40(2,70-13,80)		4,20 A+	2,42(0,24-3,78)	1130	10,60
16+42+60	1,22	3,20 4,5		3,83	7,20 A++	2,35 (0,34 - 3,34)	1175	11,20	1,41		5,29 10,40(2,70-13,80)		4,20 A+	2,26 (0,27 - 3,70)	1130	10,60
16+42+71	1,12	2,93 4,9		3,95	7,20 A++	2,28 (0,37 - 3,20)	1140	10,90	1,29		5,72 10,40(2,70-14,10)		4,20 A+	2,25 (0,27 - 3,80)	1125	10,60
16+50+50	1,24	3,88 3,8		4,17	7,20 A++	2,16 (0,37 - 2,94)	1080	10,30	1,44		4,48 10,40(2,70-13,80)		4,20 A+	2,17 (0,30 - 3,50)	1085	10,20
16+50+60	1,14	3,57 4,2		4,17	7,20 A++	2,16 (0,37 - 2,94)	1080	10,30	1,32		4,95 10,40(2,70 - 13,80)	4,79	4,20 A+	2,17(0,30-3,50)	1085	10,20
16 + 50 + 71	1,05	3,28 4,6	7 9,00 (3,00 - 10,70)	4,15	7,20 A++	2,17 (0,40 - 2,87)	1085	10,40	1,21	3,80	5,39 10,40(2,70-14,10)	4,81	4,20 A+	2,16 (0,31 - 3,65)	1080	10,20

Free Multi R32 combinations table

Free Mult	i 5x	1 Cl	J-5	Z90TBE. Minimum	сар	acity c	onnected:	4,5 k	w. M	axi	mui	n ca	apacity	connected	l: 18	3 kW -	R32		
Indoor unit				Cooling capacity (kW). Rooms		SEER 1)	Input power		Current					pacity (kW). Rooms		SCOP 1)	Input power	A.E.C.	Current
capacity	Α	В	С	D E Total (Min - Max)	W/W		rating	kWh	230V		В	С	D E	Total (Min - Max)	W/W		rating	kWh	230V
16+60+60	1,06	3,97			4,17	7,20 A++	2,16 (0,40 - 2,94)	1080	10,30	A 1,22	4,59	4,59	D E	10,40(2,70-14,10)	4,79	4,20 A+	2,17 (0,30 - 3,67)	1085	10,20
16+60+71	0,98	3,67	4,35		4,15	7,20 A++	2,17 (0,40 - 2,87)	1085	10,40	1,13	4,24	5,03		10,40(2,70-14,10)	4,81	4,20 A+	2,16 (0,31 - 3,65)	1080	10,20
16+71+71	0,92	4,04			4,27	7,20 A++	2,11 (0,40 - 2,81)	1055	10,10	1,06	4,67	4,67		10,40(2,70-14,40)	4,75	4,20 A+	2,19 (0,32 - 3,75)	1095	10,30
20+20+20	2,00	2,00			4,32	7,20 A++ 7,20 A++	1,39 (0,31 - 2,55) 1,60 (0,31 - 2,55)	695 800	6,70 7,70	2,86	2,86	2,86 3,46		9,00(2,70-12,30)	4,33	4,10 A+ 4,10 A+	1,98 (0,23 - 3,35) 2,12 (0,23 - 3,35)	990	9,30
20+20+35	2,00	2,00			3,85	7,20 A++	1,95 (0,34 - 2,49)	975	9,30	2,61	2,61	4,58		9,80(2,70-12,30)	4,12	4,10 A+	2,38 (0,23 - 3,26)	1190	11,20
20 + 20 + 42	2,00	2,00			3,57	7,20 A++	2,30 (0,34 - 2,54)	1150	11,00	2,54	2,54	5,32		10,40(2,70-12,90)	4,24	4,10 A+	2,45 (0,23 - 3,53)	1225	11,50
20+20+50	2,00	2,00			3,73	7,20 A++	2,41 (0,34 - 2,62)	1205 1205	11,50	2,31	2,31	5,78		10,40(2,70-13,60)	4,54	4,20 A+	2,29 (0,25 - 3,62)	1145	10,80
20+20+60	1,80	1,80			3,73	7,20 A++ 7,20 A++	2,41 (0,34 - 3,41) 2,35 (0,34 - 3,27)	1175	11,50	2,08 1,87	2,08 1,87	6,24		10,40(2,70-13,60)	4,54	4,20 A+ 4,20 A+	2,29 (0,25 - 3,62) 2,28 (0,25 - 3,71)	1140	10,80
20+25+25	2,00	2,50			3,93	7,20 A++	1,78 (0,31 - 2,55)	890	8,50	2,68	3,36	3,36		9,40(2,70-12,30)	4,16	4,10 A+	2,26 (0,23 - 3,35)	1130	10,60
20+25+35	2,00	2,50			3,67	7,20 A++	2,18 (0,34 - 2,49)	1090	10,40	2,55	3,19	4,46		10,20(2,70-12,90)	4,16	4,10 A+	2,45 (0,23 - 3,54)	1225	11,50
20+25+42	2,00	2,50	4,20		3,43	7,20 A++ 7,20 A++	2,54 (0,34 - 3,00) 2,41 (0,34 - 2,94)	1270 1205	12,20	2,39	2,99	5,02		10,40(2,70-13,60)	4,24	4,20 A+ 4,20 A+	2,45 (0,23 - 3,87)	1225	11,50 10,80
20+25+60	1,71	2,14			3,73	7,20 A++	2,41 (0,34 - 2,74)	1205	11,50	1,98	2,74	5,94		10,40(2,70-13,60)	4,54	4,20 A+	2,29 (0,25 - 3,73)	1145	10,80
20+25+71	1,55	1,94		9,00 (2,90 - 10,70)	3,83	7,20 A++	2,35 (0,34 - 3,27)	1175	11,20	1,79	2,24	6,37		10,40(2,70-13,80)	4,56	4,20 A+	2,28 (0,25 - 3,71)	1140	10,70
20+35+35	2,00	3,50			3,38	7,20 A++	2,66 [0,34 - 2,93]	1330	12,70	2,32	4,04	4,04		10,40(2,70-13,60)	4,28	4,20 A+	2,43 (0,24 - 3,85)	1215	11,40
20+35+42	1,85	3,25			3,38	7,20 A++	2,66 (0,34 - 3,91)	1330	12,70	2,14	3,75	4,51		10,40(2,70-13,60)	4,30	4,20 A+	2,42 (0,24 - 3,78)	1210	11,40
20+35+50	1,71	3,00			3,83	7,20 A++ 7,20 A++	2,35 (0,34 - 3,34) 2,35 (0,34 - 3,34)	1175	11,20	1,98	3,47	5,42		10,40(2,70-13,80)	4,60	4,20 A+	2,26 (0,27 - 3,70) 2,26 (0,27 - 3,70)	1130	10,60
20+35+71	1,43	2,50		9,00 (2,90 - 10,70)	3,95	7,20 A++	2,28 (0,37 - 3,20)	1140	10,90	1,65	2,89	5,86		10,40(2,70-13,80)	4,62	4,20 A+	2,25 (0,27 - 3,68)	1125	10,60
20 + 42 + 42	1,74	3,63	3,63	9,00 (2,90 - 10,70)	3,46	7,20 A++	2,60 (0,34 - 3,91)	1300	12,40	2,00	4,20	4,20		10,40(2,70-13,60)	4,32	4,20 A+	2,41 (0,24 - 3,77)	1205	11,30
20+42+50	1,60	3,38			3,83	7,20 A++	2,35 (0,34 - 3,27)	1175	11,20	1,86	3,90	4,64		10,40(2,70-13,80)	4,60	4,20 A+	2,26 (0,27 - 3,68)	1130	10,60
20+42+60	1,47	3,10 2,84	4,43	9,00 (2,90 - 10,70) 9,00 (2,90 - 10,70)	3,83	7,20 A++ 7,20 A++	2,35 (0,34 - 3,27) 2,28 (0,37 - 3,20)	1175	11,20	1,70	3,58	5,12		10,40(2,70-13,80)	4,60	4,20 A+	2,26 (0,27 - 3,68) 2,24 (0,27 - 3,78)	1130	10,60
20+50+50	1,50	3,75			4,17	7,20 A++	2,16 (0,37 - 2,94)	1080	10,30	1,74	4,33	4,33		10,40(2,70-13,80)	4,81	4,20 A+	2,16 (0,31 - 3,48)	1080	10,20
20+50+60	1,38	3,46			4,17	7,20 A++	2,16 (0,37 - 2,94)	1080	10,30	1,60	4,00	4,80		10,40(2,70-14,10)	4,81	4,20 A+	2,16 (0,31 - 3,65)	1080	10,20
20 + 50 + 71	1,28	3,19	4,53	9,00 (3,00 - 10,70)	4,15	7,20 A++	2,17 (0,40 - 2,87)	1085	10,40	1,48	3,69	5,23		10,40(2,70-14,10)	4,75	4,20 A+	2,19 (0,32 - 3,64)	1095	10,30
20+60+60	1,28	3,86			4,17	7,20 A++	2,16 (0,40 - 2,94)	1080	10,30	1,48	4,46	4,46		10,40(2,70-14,10)	4,81	4,20 A+	2,16 (0,31 - 3,65)	1080	10,20
20+60+71	1,19	3,58			4,15	7,20 A++ 7,20 A++	2,17 (0,40 - 2,87) 2,11 (0,41 - 2,81)	1085	10,40	1,38	4,13	4,89		10,40(2,70-14,40)	4,75	4,20 A+ 4,20 A+	2,19 (0,32 - 3,75) 2,18 (0,33 - 3,74)	1095	10,30
25+25+25	2,50	2,50			3,73	7,20 A++	2,01 (0,31 - 2,55)	1005	9,60	3,23	3,23	3,23		9,69(2,70-12,30)	4,02	4,10 A+	2,41 (0,23 - 3,35)	1205	11,30
25+25+35	2,50	2,50	3,50		3,41	7,20 A++	2,49 (0,34 - 3,00)	1245	11,90	3,06	3,06	4,28		10,40(2,70-13,60)	4,23	4,20 A+	2,46 (0,23 - 3,89)	1230	11,60
25+25+42	2,45	2,45			3,30	7,20 A++	2,73 (0,34 - 3,40)	1365	13,10	2,83	2,83	4,74		10,40(2,70-13,60)	4,24	4,20 A+	2,45 (0,23 - 3,87)	1225	11,50
25+25+50 25+25+60	2,25	2,25			3,73	7,20 A++ 7,20 A++	2,41 (0,34 - 3,41) 2,41 (0,34 - 3,41)	1205 1205	11,50 11,50	2,60	2,60	5,20		10,40(2,70-13,60)	4,54	4,20 A+	2,29 (0,25 - 3,62)	1145	10,80
25+25+80	1,86	1,86	5,28		3,83	7,20 A++	2,35 (0,34 - 3,27)	1175	11,20	2,15	2,15	6,10		10,40(2,70-13,80) 10,40(2,70-13,80)	4,54	4,20 A+	2,29 (0,25 - 3,73) 2,28 (0,25 - 3,71)	1140	10,70
25+35+35	2,36	3,32			3,38	7,20 A++	2,66 (0,34 - 3,33)	1330	12,70	2,74	3,83	3,83		10,40(2,70-13,60)	4,28	4,20 A+	2,43 (0,24 - 3,85)	1215	11,40
25+35+42	2,20	3,09		9,00 (2,90 - 10,70)	3,38	7,20 A++	2,66 (0,34 - 3,91)	1330	12,70	2,55	3,57	4,28		10,40(2,70-13,60)	4,30	4,20 A+	2,42 (0,24 - 3,78)	1210	11,40
25+35+50	2,05	2,86	4,09		3,83	7,20 A++	2,35 (0,34 - 3,34)	1175	11,20	2,36	3,31	4,73		10,40(2,70-13,80)	4,60	4,20 A+	2,26 (0,27 - 3,70)	1130	10,60
25+35+60 25+35+71	1,87	2,63	4,50		3,83	7,20 A++ 7,20 A++	2,35 (0,34 - 3,34) 2,28 (0,37 - 3,20)	1175	11,20	2,17 1,98	3,03 2,78	5,20		10,40(2,70-13,80)	4,60	4,20 A+ 4,20 A+	2,26 (0,27 - 3,70) 2,25 (0,27 - 3,80)	1130	10,60
25+42+42	2,06	3,47	3,47	9,00 (2,90 - 10,70)	3,46	7,20 A++	2,60 (0,34 - 3,91)	1300	12,40	2,38	4,01	4,01		10,40(2,70-13,80)	4,32	4,20 A+	2,41 (0,24 - 3,89)	1205	11,30
25+42+50	1,92	3,23	3,85	9,00 (2,90 - 10,70)	3,83	7,20 A++	2,35 (0,34 - 3,27)	1175	11,20	2,22	3,73	4,45		10,40(2,70-13,80)	4,60	4,20 A+	2,26 (0,27 - 3,68)	1130	10,60
25+42+60	1,77	2,98			3,83	7,20 A++	2,35 (0,34 - 3,27)	1175	11,20	2,05	3,44	4,91		10,40(2,70-14,10)	4,60	4,20 A+	2,26 (0,27 - 3,80)	1130	10,60
25+42+71 25+50+50	1,63	3,60			3,95 4,17	7,20 A++ 7,20 A++	2,28 (0,37 - 3,20) 2,16 (0,37 - 2,94)	1140	10,90	1,88	3,17 4,16	5,35 4,16		10,40(2,70-14,10)	4,64	4,20 A+	2,24 (0,27 - 3,78)	1120	10,50
25+50+60	1,67	3,33			4,17	7,20 A++	2,16 (0,40 - 2,94)	1080	10,30	1,93	3,85	4,62		10,40(2,70-14,10)	4,81	4,20 A+	2,16 (0,31 - 3,65)	1080	10,20
25+50+71	1,54	3,08	4,38	9,00 (3,00 - 10,70)	4,15	7,20 A++	2,17 (0,40 - 2,87)	1085	10,40	1,78	3,56	5,06		10,40(2,70-14,10)	4,75	4,20 A+	2,19 (0,32 - 3,64)	1095	10,30
25+60+60	1,56					7,20 A++	2,16 (0,40 - 2,94)	1080	10,30	1,80		4,30		10,40(2,70-14,10)	4,81	4,20 A+	2,16 (0,31 - 3,65)	1080	10,20
25+60+71 25+71+71	1,44	3,46			4,15	7,20 A++ 7,20 A++	2,17 (0,40 - 2,87) 2,11 (0,41 - 2,81)	1085	10,40	1,67	4,00	4,73		10,40(2,70-14,40)	4,75	4,20 A+ 4,20 A+	2,19 (0,32 - 3,75) 2,18 (0,33 - 3,74)	1095	10,30
35+35+35	3,00	3,00			3,46	7,20 A++	2,60 (0,34 - 3,83)	1300	12,40	3,46	3,46	3,46		10,38(2,70-13,80)	4,40	4,20 A+	2,36 (0,24 - 3,88)	1180	11,10
35+35+42	2,81	2,81			3,46	7,20 A++	2,60 (0,34 - 3,76)	1300	12,40	3,25		3,90		10,40(2,70-13,80)	4,43	4,20 A+	2,35 (0,24 - 3,87)	1175	11,00
35+35+50	2,63	2,63			3,83	7,20 A++	2,35 (0,34 - 3,20)	1175	11,20	3,03		4,34		10,40(2,70-13,80)	4,64	4,20 A+	2,24 (0,27 - 3,66)	1120	10,50
35+35+60 35+35+71	2,42	2,42			3,83	7,20 A++	2,35 (0,34 - 3,20) 2,28 (0,37 - 3,14)	1175	11,20	2,80	2,80	4,80 5,24		10,40(2,70-14,10)	4,64	4,20 A+	2,24(0,27-3,78)	1120	10,50
35+42+42	2,23	3,18	_		3,95	7,20 A++ 7,20 A++	2,53 (0,34 - 3,76)	1140	10,90	2,58				10,40(2,70-14,10)	4,66	4,20 A+ 4,20 A+	2,23 (0,27 - 3,76) 2,34 (0,25 - 3,85)	1115	10,50
35+42+50	2,48	2,98			3,95	7,20 A++	2,28 (0,37 - 3,20)	1140	10,90	2,87	3,44	4,09		10,40(2,70-14,10)	4,66	4,20 A+	2,23 (0,27 - 3,77)	1115	10,50
35+42+60	2,30	2,76			3,95	7,20 A++	2,28 (0,37 - 3,20)	1140	10,90	2,66	3,19	4,55		10,40(2,70-14,10)	4,66	4,20 A+	2,23 (0,27 - 3,77)	1115	10,50
35+42+71	2,13	2,55			3,95	7,20 A++	2,28 (0,37 - 3,14)	1140	10,90	2,46	2,95	4,99		10,40(2,70-14,10)	4,68	4,20 A+	2,22 (0,28 - 3,75)	1110	10,40
35+50+50 35+50+60	2,34	3,33			4,15 4,15	7,20 A++ 7,20 A++	2,17 (0,40 - 2,87) 2,17 (0,40 - 2,87)	1085	10,40	2,70	3,85	3,85 4,30		10,40(2,70-14,10)	4,77	4,20 A+ 4,20 A+	2,18 (0,33 - 3,62) 2,18 (0,33 - 3,62)	1090	10,20
35+50+71	2,02	2,88			4,27	7,20 A++	2,11 (0,40 - 2,81)	1055	10,10	2,33	3,33	4,74		10,40(2,70-14,40)	4,79	4,20 A+	2,17 (0,33 - 3,72)	1085	10,20
35+60+60	2,04	3,48	3,48	9,00 (3,00 - 10,70)	4,15	7,20 A++	2,17 (0,40 - 2,87)	1085	10,40	2,34	4,03	4,03		10,40(2,70-14,40)	4,77	4,20 A+	2,18 (0,33 - 3,74)	1090	10,20
35+60+71	1,90	3,25			4,27	7,20 A++	2,11 (0,40 - 2,81)	1055	10,10	2,19		4,45		10,40(2,70-14,40)	4,79	4,20 A+	2,17 (0,33 - 3,72)	1085	10,20
35+71+71 42+42+42	1,78 3,00	3,61		9,00 (3,00 - 10,70) 9,00 (2,90 - 10,70)	4,27 3,56	7,20 A++ 7,20 A++	2,11 (0,43 - 2,81)	1055 1265	10,10	2,06 3,46	3,46	4,17 3,46		10,40(2,70-14,40) 10,38(2,70-13,80)	4,81	4,20 A+ 4,20 A+	2,16 (0,34 - 3,70)	1080	10,20
42+42+42	2,82	2,82			3,95	7,20 A++	2,53 (0,34 - 3,69) 2,28 (0,37 - 3,20)	1140	10,90	3,46		3,46		10,38(2,70-13,80)	4,45	4,20 A+	2,33 (0,25 - 3,78) 2,22 (0,28 - 3,75)	1110	10,90
42+42+60	2,63	2,63			3,95	7,20 A++	2,28 (0,37 - 3,20)	1140	10,90	3,03		4,34		10,40(2,70-14,10)	4,68	4,20 A+	2,22 (0,28 - 3,75)	1110	10,40
42+42+71	2,44	2,44	_		3,95	7,20 A++	2,28 (0,37 - 3,07)	1140	10,90	2,82		4,76		10,40(2,70-14,40)	4,71	4,20 A+	2,21 (0,28 - 3,85)	1105	10,40
42+50+50	2,66	3,17			4,15	7,20 A++	2,17 (0,40 - 2,87)	1085	10,40	3,08	3,66	3,66		10,40(2,70-14,10)	4,77	4,20 A+	2,18 (0,33 - 3,61)	1090	10,20
42+50+60 42+50+71	2,49	2,96			4,15 4,27	7,20 A++ 7,20 A++	2,17 (0,40 - 2,87) 2,11 (0,41 - 2,81)	1085	10,40	2,87		4,11		10,40(2,70-14,40)	4,77	4,20 A+ 4,20 A+	2,18 (0,33 - 3,72) 2,17 (0,34 - 3,71)	1090	10,20
42+50+71	2,34	3,33			4,27	7,20 A++	2,17 (0,41 - 2,81)	1085	10,10	2,70	3,85	3,85		10,40(2,70-14,40)	4,77	4,20 A+	2,17 (0,34-3,71)	1090	10,20
42+60+71	2,18	3,12			4,27	7,20 A++	2,11 (0,41 - 2,81)	1055	10,10	2,52		4,27		10,40(2,70-14,40)	4,79	4,20 A+	2,17 (0,34 - 3,71)	1085	10,20
50+50+50	3,00	3,00			4,37	7,20 A++	2,06 (0,44 - 2,68)	1030	9,90	3,46		3,46		10,38(2,70-14,40)	4,83	4,20 A+	2,15 (0,40 - 3,64)	1075	10,10
50+50+60 50+50+71	2,81	2,81	3,38		4,37	7,20 A++ 7,20 A++	2,06 (0,44 - 2,68)	1030	9,90	3,25	3,25	3,90 4,32		10,40(2,70-14,40)	4,84	4,20 A+	2,15 (0,40 - 3,64) 2,14 (0,41 - 3,63)	1075	10,10
50+50+71	2,63	3,18			4,37	7,20 A++	2,06 (0,44 - 2,69)	1030	9,90	3,04		3,67		10,40(2,70-14,40)	4,86	4,20 A+	2,14(0,41-3,63)	1070	10,10
										_		_		, -,					





Free Multi	5x1	CL	J-5Z	2901	BE.	. Minimum	сар	acity c	onnected:	4,5	kW. M	axi	mui	n ca	apad	ity	connected	l: 18,	3 kW -	R32		
Indoor unit capacity				Coolii	ng capa	acity(kW). Rooms	EER	SEER 1)	Input power	A.E.C.	Current				Heatir	ng cap	acity (kW). Rooms	COP	SCOP 1)	Input power	A.E.C.	Current
	A	В	С	D	Е	Total (Min - Max)	W/W		kW	kWh	230V	Α	В	С	D	E	Total (Min - Max)	W/W		kW	kWh	230V
50+60+71	2,49	2,98	3,53			9,00 (3,00 - 10,70)	4,37	7,20 A++	2,06 (0,47 - 2,69)	1030	9,90	2,87	3,45	4,08			10,40(2,70-14,40)	4,86	4,20 A+	2,14(0,41-3,63)	1070	10,10
60+60+60 4 Rooms	3,00	3,00	3,00			9,00 (3,00 - 10,70)	4,37	7,20 A++	2,06 (0,44 - 2,68)	1030	9,90	3,46	3,46	3,46			10,38(2,70-14,40)	4,83	4,20 A+	2,15 (0,40 - 3,64)	1075	10,10
16+16+16+16	1,60	1,60	1,60	1,60		6,40 (2,90 - 10,60)	4,57	8,50 A+++	1,40 (0,37 - 3,48)	700	6,80	2,35	2,35	2,35	2,35		9,40(3,40-14,20)	4,54	4,10 A+	2,07 (0,34 - 3,84)	1035	9,70
16+16+16+20	1,60	1,60	1,60	2,00		6,80 (2,90 - 10,60)	4,42	8,50 A+++	1,54 (0,37 - 3,48)	770	7,40	2,33	2,33	2,33	2,91		9,90(3,40-14,20)	4,50	4,10 A+	2,20 (0,34 - 3,83)	1100	10,30
16+16+16+25	1,60	1,60	1,60	2,50 3,50		7,30 (2,90 - 10,60) 8,30 (2,90 - 10,60)	3,97	8,00 A++ 8,00 A++	1,70 (0,37 - 3,48) 2,09 (0,37 - 3,40)	850 1045	8,20 10,00	2,26	2,26	2,26	3,52 4,40		10,30(3,40-14,20)	4,70 4,71	4,20 A+ 4,20 A+	2,19 (0,34 - 3,83) 2,21 (0,34 - 3,80)	1095	10,30
16+16+16+42	1,60	1,60	1,60	4,20		9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,40)	1190	11,40	1,85	1,85	1,85	4,40		10,40(3,40-14,20)	4,71	4,40 A+	2,21(0,34-3,80)	1100	10,30
16+16+16+50	1,47	1,47	1,47	4,59		9,00 (2,90 - 10,60)	4,00	8,00 A++	2,25 (0,41 - 3,11)	1125	10,80	1,70	1,70	1,70	5,30		10,40(3,40-14,20)	4,81	4,40 A+	2,16 (0,39 - 3,64)	1080	10,20
16+16+16+60	1,33	1,33	1,33	5,01		9,00 (2,90 - 10,60)	4,00	8,00 A++	2,25 (0,41 - 3,11)	1125	10,80	1,54	1,54	1,54	5,78		10,40(3,40-14,20)	4,81	4,40 A+	2,16 (0,39 - 3,64)	1080	10,20
16+16+16+71	1,21	1,21	1,21	5,37		9,00 (2,90 - 10,60) 7,20 (2,90 - 10,60)	3,98 4,36	8,00 A++ 8,00 A++	2,26 (0,41 - 3,04) 1,65 (0,37 - 3,40)	1130 825	10,80	1,40	1,40 2,31	1,40	6,20 2,89		10,40(3,40-14,20)	4,84	4,40 A+ 4,20 A+	2,15 (0,40 - 3,62)	1075	10,10
16+16+20+25	1,60	1,60		2,50		7,70(2,90-10,60)	4,16	8,00 A++	1,85 (0,37 - 3,40)	925	8,90	2,16	2,16	2,70	3,38		10,40(3,40-14,20)	4,66	4,20 A+	2,23 (0,34 - 3,82)	1115	10,50
16+16+20+35	1,60	1,60	2,00	3,50		8,70 (2,90 - 10,60)	3,87	8,00 A++	2,25 (0,37 - 3,33)	1125	10,80	1,91	1,91	2,39	4,19		10,40(3,40-14,20)	4,73	4,20 A+	2,20 (0,34 - 3,78)	1100	10,30
16+16+20+42	1,53	1,53	1,91	4,03		9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	1,77	1,77	2,21	4,65		10,40(3,40-14,20)	4,73	4,40 A+	2,20 (0,34 - 3,77)	1100	10,30
16+16+20+50 16+16+20+60	1,41	1,41	1,76	4,42		9,00 (2,90 - 10,60)	4,00	8,00 A++ 8,00 A++	2,25 (0,41 - 3,11)	1125	10,80	1,63	1,63	1,86	5,10		10,40(3,40-14,20)	4,84	4,40 A+ 4,40 A+	2,15 (0,40 - 3,63) 2,15 (0,40 - 3,63)	1075	10,10
16+16+20+71	1,17	1,17	1,46	5,20		9,00 (2,90 - 10,80)	3,98	8,00 A++	2,26 (0,41 - 3,18)	1130	10,80	1,35	1,35	1,69	6,01		10,40(3,40-14,20)	4,84	4,40 A+	2,15(0,40-3,61)	1075	10,10
16+16+25+25	1,60	1,60	2,50	2,50		8,20 (2,90 - 10,60)	4,04	8,00 A++	2,03 (0,37 - 3,40)	1015	9,70	2,03	2,03	3,17	3,17		10,40(3,40-14,20)	4,66	4,20 A+	2,23 (0,34 - 3,82)	1115	10,50
16+16+25+35	1,57	1,57	2,44	3,42		9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	1,81	1,81	2,83	3,95		10,40(3,40-14,20)	4,73	4,40 A+	2,20 (0,34 - 3,78)	1100	10,30
16+16+25+42	1,45	1,45	2,27	3,83 4,21		9,00 (2,90 - 10,60) 9,00 (2,90 - 10,60)	3,78 4,00	8,00 A++ 8,00 A++	2,38 (0,37 - 3,33) 2,25 (0,41 - 3,11)	1190	11,40	1,68	1,68	2,63	4,41		10,40(3,40-14,20)	4,73	4,40 A+ 4,40 A+	2,20 (0,34 - 3,77) 2,15 (0,40 - 3,63)	1100	10,30
16+16+25+60	1,23	1,23	1,92	4,62		9,00(2,90-10,60)	4,00	8,00 A++	2,25(0,41-3,11)	1125	10,80	1,42	1,42	2,22	5,34		10,40(3,40-14,20)	4,84	4,40 A+	2,15(0,40-3,63)	1075	10,10
16+16+25+71	1,13	1,13	1,75	4,99		9,00 (2,90 - 10,80)	3,98	8,00 A++	2,26 [0,41 - 3,18]	1130	10,80	1,30	1,30	2,03	5,77		10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,40 - 3,67)	1075	10,10
16+16+35+35	1,41	1,41	3,09	3,09		9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	1,63	1,63	3,57	3,57		10,40(3,40-14,20)	4,77	4,40 A+	2,18 (0,36 - 3,75)	1090	10,20
16+16+35+42	1,32	1,32	2,89	3,47		9,00 (2,90 - 10,60) 9,00 (2,90 - 10,60)	3,90	8,00 A++ 8,00 A++	2,31 (0,37 - 3,25)	1155	11,10	1,53	1,53	3,34	4,00		10,40(3,40-14,20)	4,79	4,40 A+	2,17 (0,36 - 3,68) 2,14 (0,42 - 3,59)	1085	10,20
16+16+35+60	1,13	1,13	2,48	4,26		9,00 (2,90 - 10,80)	3,98	8,00 A++	2,26 (0,41 - 3,18)	1130	10,80	1,31	1,31	2,87	4,91		10,40(3,40-14,20)	4,86	4,40 A+	2,14(0,42-3,57)	1070	10,10
16+16+35+71	1,04	1,04	2,28	4,64		9,00 (2,90 - 10,80)	4,09	8,00 A++	2,20 [0,44 - 3,11]	1100	10,50	1,21	1,21	2,64	5,34		10,40(3,40-14,40)	4,88	4,40 A+	2,13 (0,42 - 3,64)	1065	10,00
16+16+42+42	1,24	1,24	3,26	3,26		9,00 (2,90 - 10,60)	3,90	8,00 A++	2,31 (0,37 - 3,25)	1155	11,10	1,43	1,43	3,77	3,77		10,40(3,40-14,20)	4,79	4,40 A+	2,17(0,37-3,66)	1085	10,20
16+16+42+50	1,16	1,16	3,05 2,82	3,63 4,04		9,00 (2,90 - 10,80) 9,00 (2,90 - 10,80)	3,98	8,00 A++ 8,00 A++	2,26 (0,41 - 3,18)	1130	10,80	1,34	1,34	3,52	4,20		10,40(3,40-14,20)	4,88	4,40 A+	2,13(0,42-3,58) 2,13(0,42-3,64)	1065	10,00
16+16+42+71	0,99	0,99	2,61	4,41		9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,26)	1100	10,50	1,15	1,15	3,01	5,09		10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,43 - 3,62)	1080	10,20
16+16+50+50	1,09	1,09	3,41	3,41		9,00 (2,90 - 10,80)	4,07	8,00 A++	2,21 [0,48 - 2,98]	1105	10,60	1,26	1,26	3,94	3,94		10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,49 - 3,57)	1080	10,20
16+16+50+60	1,01	1,01	3,17	3,81		9,00 (3,00 - 11,00)	4,07	8,00 A++	2,21 (0,48 - 3,12)	1105	10,60	1,17	1,17	3,66	4,40		10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,49 - 3,57)	1080	10,20
16+16+50+71	0,94	0,94	2,94 3,55	4,18 3,55		9,00 (3,00 - 11,00)	4,07	8,00 A++ 8,00 A++	2,21 (0,52 - 3,12)	1105	10,60	1,09	1,09	3,40 4,11	4,82		10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,51 - 3,55) 2,16 (0,49 - 3,57)	1075	10,10
16+16+60+71	0,88	0,88	3,31	3,93		9,00 (3,00 - 11,20)	4,07	8,00 A++	2,21 (0,52 - 3,20)	1105	10,60	1,02	1,02	3,83	4,53		10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,51 - 3,55)	1075	10,10
16+16+71+71	0,83	0,83	3,67	3,67		9,00 (3,00 - 11,20)	4,19	8,00 A++	2,15 (0,52 - 3,20)	1075	10,30	0,96	0,96	4,24	4,24		10,40(3,40-14,40)	4,86	4,40 A+	2,14(0,51-3,60)	1070	10,10
16+20+20+20	1,60	2,00	2,00	2,00		7,60 (2,90 - 10,60)	4,18	8,00 A++	1,82 (0,37 - 3,40)	910	8,70	2,18	2,74	2,74	2,74		10,40(3,40-14,20)	4,68	4,20 A+	2,22(0,34-3,81)	1110	10,40
16+20+20+25 16+20+20+35	1,60	1,98	2,00 1,98	2,50 3,46		9,00 (2,90 - 10,60) 9,00 (2,90 - 10,60)	3,78	8,00 A++ 8,00 A++	1,97 (0,37 - 3,40) 2,38 (0,37 - 3,33)	985 1190	9,40	2,05 1,83	2,57	2,57	3,21		10,40(3,40-14,20)	4,68	4,20 A+ 4,40 A+	2,22 (0,34 - 3,81)	1110	10,40
16+20+20+42	1,46	1,84	1,84	3,86		9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	1,70	2,12	2,12	4,46		10,40(3,40-14,20)	4,75	4,40 A+	2,19 (0,35 - 3,76)	1095	10,30
16+20+20+50	1,35	1,70	1,70	4,25		9,00 (2,90 - 10,60)	4,00	8,00 A++	2,25 (0,41 - 3,04)	1125	10,80	1,57	1,96	1,96	4,91		10,40(3,40-14,20)	4,84	4,40 A+	2,15 (0,40 - 3,62)	1075	10,10
16+20+20+60	1,24	1,55	1,55	4,66		9,00 (2,90 - 10,60)	4,00	8,00 A++	2,25 (0,41 - 3,04)	1125	10,80	1,43	1,79	1,79	5,39		10,40(3,40-14,20)	4,84	4,40 A+	2,15 (0,40 - 3,62)	1075	10,10
16+20+20+71 16+20+25+25	1,13	1,42	1,42 2,50	5,03 2,50		9,00 (2,90 - 10,80) 8,60 (2,90 - 10,60)	3,98	8,00 A++ 8,00 A++	2,26 (0,44 - 3,11)	1130	10,80	1,31	1,64 2,43	1,64 3,02	5,81		10,40(3,40-14,20)	4,86	4,40 A+ 4,20 A+	2,14 (0,42 - 3,60) 2,22 (0,34 - 3,81)	1070	10,10
16+20+25+35	1,50	1,88	2,34	3,28		9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	1,73	2,17	2,71	3,79		10,40(3,40-14,20)	4,73	4,40 A+	2,20 (0,34 - 3,77)	1100	10,30
16+20+25+42	1,40	1,75	2,18	3,67		9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	1,62	2,02	2,52	4,24		10,40(3,40-14,20)	4,75	4,40 A+	2,19 (0,35 - 3,76)	1095	10,30
16+20+25+50	1,30	1,62	2,03	4,05		9,00 (2,90 - 10,60)	4,00	8,00 A++	2,25 (0,41 - 3,04)	1125	10,80	1,50	1,87	2,34	4,69		10,40(3,40-14,20)	4,84	4,40 A+	2,15(0,40-3,62)	1075	10,10
16+20+25+60	1,19	1,49		4,46		9,00 (2,90 - 10,80) 9,00 (2,90 - 10,80)	4,00 3,98	8,00 A++ 8,00 A++	2,25 (0,41 - 3,18)	1125	10,80	1,38	1,72	2,15 1,97	5,15		10,40(3,40-14,20)	4,84	4,40 A+ 4,40 A+	2,15 (0,40 - 3,62) 2,14 (0,42 - 3,66)	1075	10,10
16+20+35+35	1,36	1,70		2,97		9,00 (2,90 - 10,60)	3,90	8,00 A++	2,31 (0,37 - 3,25)	1155	11,10	1,57	1,97	3,43	3,43		10,40(3,40-14,20)	4,79	4,40 A+	2,17 (0,36 - 3,68)	1085	10,20
16+20+35+42	1,27	1,59	2,79	3,35		9,00 (2,90 - 10,60)	3,90	8,00 A++	2,31 (0,37 - 3,25)	1155	11,10	1,47	1,84	3,22	3,87		10,40(3,40-14,20)	4,79	4,40 A+	2,17 (0,37 - 3,66)	1085	10,20
16+20+35+50 16+20+35+60	1,19	1,49	2,60	3,72 4,13		9,00 (2,90 - 10,80)	3,98	8,00 A++	2,26 (0,41 - 3,18)	1130	10,80	1,38	1,72	3,01 2,78	4,29		10,40(3,40-14,20)	4,88	4,40 A+	2,13(0,42-3,58)	1065	10,00
16+20+35+60	1,10	1,27	2,40	4,13		9,00 (2,90 - 10,80)	3,98 4,09	8,00 A++ 8,00 A++	2,26 (0,41 - 3,18)	1100	10,80	1,27	1,46	2,78	4,76 5,21		10,40(3,40-14,40)	4,88	4,40 A+ 4,40 A+	2,13(0,42-3,64)	1080	10,00
16+20+42+42	1,20	1,50		3,15		9,00 (2,90 - 10,60)	3,90	8,00 A++	2,31 (0,37 - 3,25)	1155	11,10	1,39	1,73	3,64	3,64		10,40(3,40-14,20)	4,81	4,40 A+	2,16 (0,37 - 3,65)	1080	10,20
16+20+42+50	1,12	1,41	2,95	3,52		9,00 (2,90 - 10,80)	3,98	8,00 A++	2,26 (0,44 - 3,11)	1130	10,80	1,30	1,63	3,41	4,06		10,40(3,40-14,40)	4,91	4,40 A+	2,12 (0,42 - 3,63)	1060	10,00
16+20+42+60	1,04	1,30		3,92		9,00 (2,90 - 10,80)	3,98	8,00 A++	2,26 (0,44 - 3,11)	1130	10,80	1,21	1,51	3,17	4,51		10,40(3,40-14,40)	4,91 4,81	4,40 A+	2,12(0,42-3,63)	1060	10,00
16+20+42+71	0,96 1,06	1,21	3,31	4,29 3,31		9,00 (3,00 - 11,00) 9,00 (2,90 - 10,80)	4,07	8,00 A++ 8,00 A++	2,20 (0,44 - 3,19)	1100	10,50	1,12	1,40	2,93 3,82	4,95 3,82		10,40(3,40-14,40)	4,84	4,40 A+ 4,40 A+	2,16 (0,43 - 3,61) 2,15 (0,50 - 3,56)	1080	10,20
16+20+50+60	0,99	1,23		3,70		9,00 (3,00 - 11,00)	4,07	8,00 A++	2,21 [0,49 - 3,12]	1105	10,60	1,14	1,42	3,56	4,28		10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,50 - 3,56)	1075	10,10
16+20+50+71	0,91	1,15		4,07		9,00 (3,00 - 11,00)	4,07	8,00 A++	2,21 (0,52 - 3,05)	1105	10,60	1,06	1,32	3,31	4,71		10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,51 - 3,60)	1075	10,10
16+20+60+60	0,92	1,16	3,46	3,46		9,00 (3,00 - 11,00) 9,00 (3,00 - 11,20)	4,07	8,00 A++ 8,00 A++	2,21 (0,49 - 3,12) 2,21 (0,52 - 3,20)	1105	10,60	1,07	1,33	4,00 3,74	4,00		10,40(3,40-14,40)	4,84	4,40 A+ 4,40 A+	2,15 (0,50 - 3,56) 2,15 (0,51 - 3,60)	1075	10,10
16+20+71+71	0,81	1,00		3,59		9,00 (3,00 - 11,20)	4,17	8,00 A++	2,16 (0,53 - 3,20)	1080	10,30	0,93	1,17	4,15	4,41		10,40(3,40-14,40)	4,77	4,40 A+	2,18(0,51-3,60)	1075	10,10
16+25+25+25	1,59	2,47	2,47	2,47		9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,40)	1190	11,40	1,82	2,86	2,86	2,86		10,40(3,40-14,20)	4,68	4,40 A+	2,22(0,34-3,81)	1110	10,40
16+25+25+35	1,42	2,23		3,12		9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	1,65	2,57	2,57	3,61		10,40(3,40-14,20)	4,73	4,40 A+	2,20 (0,34 - 3,77)	1100	10,30
16+25+25+42	1,33	2,08	2,08	3,51		9,00(2,90-10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	1,54	2,41	2,41	4,04		10,40(3,40-14,20)	4,75	4,40 A+	2,19(0,35-3,76)	1095	10,30
16+25+25+50 16+25+25+60	1,24	1,94		3,88 4,29		9,00 (2,90 - 10,60) 9,00 (2,90 - 10,80)	4,00	8,00 A++ 8,00 A++	2,25 (0,41 - 3,04)	1125	10,80	1,43	2,24	2,24	4,49		10,40(3,40-14,20)	4,84	4,40 A+ 4,40 A+	2,15(0,40-3,62) 2,15(0,40-3,62)	1075	10,10
16+25+25+71	1,05	1,64	1,64	4,67		9,00 (2,90 - 10,80)	3,98	8,00 A++	2,26 (0,44 - 3,11)	1130	10,80	1,21	1,90	1,90	5,39		10,40(3,40 - 14,40)	4,86	4,40 A+	2,14(0,42-3,66)	1070	10,10
16+25+35+35	1,29	2,03	2,84	2,84		9,00 (2,90 - 10,60)	3,90	8,00 A++	2,31 (0,37 - 3,25)	1155	11,10	1,50	2,34	3,28	3,28		10,40(3,40-14,20)	4,79	4,40 A+	2,17 (0,36 - 3,68)	1085	10,20
16+25+35+42	1,22	1,91		3,20		9,00 (2,90 - 10,60)	3,90	8,00 A++	2,31 (0,37 - 3,25)	1155	11,10	1,41	2,20	3,08	3,71		10,40(3,40-14,20)	4,79	4,40 A+	2,17(0,37-3,66)	1085	10,20
16+25+35+50 16+25+35+60	1,14	1,79		3,57		9,00 (2,90 - 10,80) 9,00 (2,90 - 10,80)	3,98	8,00 A++ 8,00 A++	2,26 (0,41 - 3,18)	1130	10,80	1,32	2,06 1,91	2,89	4,13		10,40(3,40-14,20)	4,88	4,40 A+ 4,40 A+	2,13 (0,42 - 3,58) 2,13 (0,42 - 3,64)	1065	10,00
16+25+35+71	0,98	1,53		4,35		9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,26)	1100	10,50	1,13	1,77	2,48	5,02		10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,43 - 3,62)	1080	10,20
16+25+42+42	1,15	1,81		3,02		9,00 (2,90 - 10,80)	3,90	8,00 A++	2,31 [0,37 - 3,40]	1155	11,10	1,33	2,09	3,49	3,49		10,40(3,40-14,20)	4,81	4,40 A+	2,16 (0,37 - 3,65)	1080	10,20
16+25+42+50	1,08	1,69	2,84	3,39		9,00 (2,90 - 10,80)	3,98	8,00 A++	2,26 (0,44 - 3,11)	1130	10,80	1,25	1,95	3,28	3,92		10,40(3,40-14,40)	4,91	4,40 A+	2,12 (0,42 - 3,63)	1060	10,00

Free Multi R32 combinations table

Free Mult	5x1	CL	J-52	Z90T	BE. Minimum	сар	acity c	onnected:	4,5 k	w. M	laxi	muı	m ca	apacity	/ connected	l: 18	,3 kW ·	R32		
Indoor unit				Coolin	g capacity(kW). Rooms	EER	SEER 1)	Input power	A.E.C.	Current				Heating ca	pacity (kW). Rooms	СОР	SCOP 1)	Input power	A.E.C.	Current
capacity	Α	В	С	D	E Total (Min - Max)	W/W		rating	kWh	230V	A	В	С	D E	Total (Min - Max)	W/W		rating	kWh	230V
16+25+42+60	1,01	1,57	2,64	3,78	9,00 (3,00 - 11,00)	3,98	8,00 A++	2,26 (0,44 - 3,26)	1130	10,80	1,16	1,82	3,05	4,37	10,40(3,40-14,40)	4,91	4,40 A+	2,12(0,42-3,63)	1060	10,00
16+25+42+71	0,94	1,46	2,45	4,15	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,19)	1100	10,50	1,08	1,69	2,84	4,79	10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,43 - 3,61)	1080	10,20
16+25+50+50	1,02	1,60	3,19	3,19	9,00 (2,90 - 10,80)	4,07	8,00 A++	2,21 (0,49 - 2,98)	1105	10,60	1,18	1,84	3,69	3,69	10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,50 - 3,56)	1075	10,10
16+25+50+60	0,95	1,49	2,98	3,58	9,00 (3,00 - 11,00) 9,00 (3,00 - 11,20)	4,07	8,00 A++ 8,00 A++	2,21 (0,49 - 3,12) 2,21 (0,52 - 3,20)	1105	10,60	1,10	1,72	3,44	4,14	10,40(3,40-14,40)	4,84	4,40 A+	2,15(0,50-3,56) 2,15(0,51-3,60)	1075	10,10
16+25+60+60	0,89	1,41	3,35	3,35	9,00 (3,00 - 11,20)	4,07	8,00 A++	2,21 (0,49 - 3,19)	1105	10,60	1,03	1,61	3,88	3,88	10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,50 - 3,56)	1075	10,10
16+25+60+71	0,83	1,31	3,14	3,72	9,00 (3,00 - 11,20)	4,07	8,00 A++	2,21 (0,52 - 3,20)	1105	10,60	0,97	1,51	3,63	4,29	10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,51 - 3,60)	1075	10,10
16+25+71+71	0,79	1,23	3,49	3,49	9,00 (3,00 - 11,20)	4,17	8,00 A++	2,16 (0,53 - 3,20)	1080	10,30	0,91	1,43	4,03	4,03	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,52 - 3,59)	1090	10,20
16+35+35+35	1,20	2,60	2,60	2,60	9,00 (2,90 - 10,80) 9,00 (2,90 - 10,80)	3,90	8,00 A++ 8,00 A++	2,31 (0,38 - 3,33) 2,31 (0,40 - 3,33)	1155	11,10	1,37	3,01	3,01 2,84	3,01	10,40(3,40-14,20)	4,84	4,40 A+	2,15 (0,37 - 3,64) 2,19 (0,37 - 3,75)	1075	10,10
16+35+35+50	1,05	2,32	2,32	3,31	9,00 (2,90 - 10,80)	4,09	8,00 A++	2,20 (0,44 - 3,11)	1100	10,50	1,22	2,68	2,68	3,82	10,40(3,40-14,40)	4,81	4,40 A+	2,16(0,43-3,61)	1080	10,20
16+35+35+60	0,98	2,16	2,16	3,70	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,26)	1100	10,50	1,14	2,49	2,49	4,28	10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,43 - 3,61)	1080	10,20
16+35+35+71	0,91	2,01	2,01	4,07 2,80	9,00 (3,00 - 11,00)	4,09 3,90	8,00 A++ 8,00 A++	2,20 (0,47 - 3,19) 2,31 (0,40 - 3,33)	1100	10,50	1,06	2,32	2,32	3,24	10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,45 - 3,65) 2,18 (0,37 - 3,73)	1075	10,10
16+35+42+50	1,07	2,20	2,64	3,15	9,00 (2,90 - 10,80) 9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,26)	1100	10,50	1,16	2,70	3,05	3,64	10,40(3,40-14,40)	4,77	4,40 A+	2,15(0,45-3,65)	1075	10,10
16+35+42+60	0,94	2,06	2,47	3,53	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,26)	1100	10,50	1,09	2,38	2,85	4,08	10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,45 - 3,65)	1075	10,10
16+35+42+71	0,88	1,92	2,30	3,90	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,47 - 3,33)	1100	10,50	1,01	2,22	2,66	4,51	10,40(3,40-14,40)	4,86	4,40 A+	2,14 (0,45 - 3,64)	1070	10,10
16+35+50+50	0,95	2,09 1,96	2,98	2,98	9,00 (3,00 - 11,00) 9,00 (3,00 - 11,20)	4,07	8,00 A++ 8,00 A++	2,21 (0,52 - 3,05) 2,21 (0,52 - 3,20)	1105	10,60	1,10	2,42	3,44	3,44	10,40(3,40-14,40)	4,77	4,40 A+ 4,40 A+	2,18 (0,52 - 3,59) 2,18 (0,52 - 3,59)	1090	10,20
16+35+50+71	0,87	1,83	2,62	3,72	9,00 (3,00 - 11,20)	4,19	8,00 A++	2,15 (0,52 - 3,20)	1075	10,30	0,97	2,12	3,02	4,29	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,54 - 3,57)	1090	10,20
16+35+60+60	0,84	1,84	3,16	3,16	9,00 (3,00 - 11,20)	4,07	8,00 A++	2,21 (0,52 - 3,20)	1105	10,60	0,97	2,13	3,65	3,65	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,52 - 3,59)	1090	10,20
16+35+60+71	0,79	1,73	2,97	3,51	9,00 (3,00 - 11,20)	4,19	8,00 A++	2,15 (0,52 - 3,20)	1075	10,30	0,91	2,00	3,43	4,06	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,54 - 3,57)	1090	10,20
16+42+42+42	0,96	2,66	2,66	2,66	9,00 (3,00 - 11,00) 9,00 (3,00 - 11,00)	3,90 4,09	8,00 A++ 8,00 A++	2,31 (0,40 - 3,48)	1155	11,10	1,16	3,08	3,08	3,08	10,40(3,40-14,40)	4,79	4,40 A+	2,17 (0,39 - 3,72) 2,15 (0,45 - 3,64)	1085	10,20
16+42+42+60	0,90	2,36	2,36	3,38	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,44 - 3,33)	1100	10,50	1,04	2,73	2,73	3,90	10,40(3,40-14,40)	4,84	4,40 A+	2,15(0,45 - 3,64)	1075	10,10
16+42+42+71	0,84	2,21	2,21	3,74	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,48 - 3,34)	1100	10,50	0,97	2,55	2,55	4,33	10,40(3,40-14,40)	4,86	4,40 A+	2,14 (0,46 - 3,63)	1070	10,10
16+42+50+50	0,91	2,39	2,85	2,85	9,00 (3,00 - 11,20)	4,07	8,00 A++	2,21 (0,52 - 3,20)	1105	10,60	1,05	2,77	3,29	3,29	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,53 - 3,58)	1090	10,20
16+42+50+60	0,86	2,25	2,68	3,21	9,00 (3,00 - 11,20) 9,00 (3,00 - 11,20)	4,07	8,00 A++ 8,00 A++	2,21 (0,52 - 3,20) 2,16 (0,53 - 3,20)	1105	10,60	0,99	2,60	3,10 2,91	3,71 4,12	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,53 - 3,58) 2,17 (0,54 - 3,56)	1090	10,20
16+42+60+60	0,81	2,13	3,03	3,03	9,00 (3,00 - 11,20)	4,07	8,00 A++	2,21 (0,52 - 3,20)	1105	10,60	0,73	2,45	3,51	3,51	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,53 - 3,58)	1090	10,20
16+50+50+50	0,87	2,71	2,71	2,71	9,00 (3,00 - 11,20)	4,15	8,00 A++	2,17 (0,57 - 3,14)	1085	10,40	1,01	3,13	3,13	3,13	10,40(3,40-14,40)	4,66	4,40 A+	2,23 (0,63 - 3,58)	1115	10,50
16+50+50+60	0,81	2,56	2,56	3,07	9,00 (3,00 - 11,20)	4,15	8,00 A++	2,17 (0,57 - 3,14)	1085	10,40	0,95	2,95	2,95	3,55	10,40(3,40-14,40)	4,66	4,40 A+	2,23 (0,63 - 3,58)	1115	10,50
20+20+20+20	2,00	2,00	2,00	2,00	8,00 (2,90 - 10,60) 8,50 (2,90 - 10,60)	4,06 3,95	8,00 A++ 8,00 A++	1,97 (0,37 - 3,40) 2,15 (0,37 - 3,40)	985 1075	9,40	2,60	2,60	2,60	2,60 3,05	10,40(3,40-14,20)	4,71	4,20 A+ 4,20 A+	2,21 (0,34 - 3,79)	1105	10,40
20+20+20+35	1,89	1,89	1,89	3,33	9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	2,19	2,19	2,19	3,83	10,40(3,40-14,20)	4,75	4,40 A+	2,19 (0,35 - 3,76)	1095	10,30
20+20+20+42	1,76	1,76	1,76	3,72	9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	2,04	2,04	2,04	4,28	10,40(3,40-14,20)	4,77	4,40 A+	2,18 (0,36 - 3,74)	1090	10,20
20+20+20+50	1,64	1,64	1,64	4,08 4,50	9,00 (2,90 - 10,60) 9,00 (2,90 - 10,60)	4,00	8,00 A++ 8,00 A++	2,25 (0,41 - 3,04) 2,25 (0,41 - 3,04)	1125	10,80	1,89	1,89	1,89	4,73 5,21	10,40(3,40-14,20)	4,86	4,40 A+ 4,40 A+	2,14 (0,42 - 3,60)	1070	10,10
20+20+20+71	1,37	1,37	1,37	4,89	9,00 (2,70 - 10,80)	4,00	8,00 A++	2,20 (0,44 - 3,11)	1100	10,50	1,73	1,73	1,73	5,63	10,40(3,40-14,40)	4,88	4,40 A+	2,13(0,42-3,64)	1065	10,10
20+20+25+25	2,00	2,00	2,50	2,50	9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,40)	1190	11,40	2,31	2,31	2,89	2,89	10,40(3,40-14,20)	4,71	4,40 A+	2,21 (0,34 - 3,79)	1105	10,40
20+20+25+35	1,80	1,80	2,25	3,15	9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	2,08	2,08	2,60	3,64	10,40(3,40-14,20)	4,75	4,40 A+	2,19 (0,35 - 3,76)	1095	10,30
20+20+25+42	1,68	1,68	2,10	3,54	9,00 (2,90 - 10,60)	3,78 4,00	8,00 A++ 8,00 A++	2,38 (0,37 - 3,33) 2,25 (0,41 - 3,04)	1190	11,40	1,94	1,94	2,43	4,09	10,40(3,40-14,20)	4,77	4,40 A+	2,18 (0,36 - 3,74)	1090	10,20
20+20+25+60	1,44	1,44	1,80	4,32	9,00 (2,90 - 10,80)	4,00	8,00 A++	2,25 (0,41 - 3,18)	1125	10,80	1,66	1,66	2,08	5,00	10,40(3,40-14,20)	4,86	4,40 A+	2,14(0,42 - 3,60)	1070	10,10
20+20+25+71	1,32	1,32	1,65	4,71	9,00 (2,90 - 10,80)	4,09	8,00 A++	2,20 (0,44 - 3,11)	1100	10,50	1,53	1,53	1,91	5,43	10,40(3,40-14,40)	4,88	4,40 A+	2,13 (0,42 - 3,64)	1065	10,00
20+20+35+35	1,64	1,64	2,86	2,86	9,00 (2,90 - 10,60)	3,90	8,00 A++	2,31 (0,37 - 3,25)	1155	11,10	1,89	1,89	3,31	3,31	10,40(3,40-14,20)	4,79	4,40 A+	2,17 (0,37 - 3,66)	1085	10,20
20+20+35+42	1,54	1,54	2,69	3,23	9,00 (2,90 - 10,60) 9,00 (2,90 - 10,80)	3,90	8,00 A++ 8,00 A++	2,31 (0,37 - 3,25) 2,26 (0,44 - 3,11)	1155	11,10	1,78	1,78	3,11 2,91	3,73 4,17	10,40(3,40-14,20)	4,81	4,40 A+	2,16 (0,37 - 3,65) 2,12 (0,42 - 3,57)	1080	10,20
20+20+35+60	1,33	1,33		4,01	9,00 (2,90 - 10,80)	3,98	8,00 A++	2,26 (0,44 - 3,11)	1130	10,80	1,54	1,54	2,70	4,62	10,40(3,40-14,40)	4,91	4,40 A+	2,12(0,42-3,63)	1060	10,00
20+20+35+71	1,23	1,23	_	4,38	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,19)	1100	10,50	1,42	1,42	2,49		10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,43 - 3,61)	1080	10,20
20+20+42+42	1,45	1,45		3,05	9,00 (2,90 - 10,80)	3,90	8,00 A++	2,31 (0,37 - 3,40)	1155	11,10	1,68	1,68	3,52		10,40(3,40-14,20)	4,75	4,40 A+	2,19(0,37-3,64)	1095	10,30
20+20+42+50	1,36	1,36	2,86	3,42	9,00 (2,90 - 10,80) 9,00 (3,00 - 11,00)	4,09	8,00 A++ 8,00 A++	2,20 (0,44 - 3,11)	1100	10,50	1,58	1,58	3,31	3,93 4,40	10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,43 - 3,62) 2,16 (0,43 - 3,62)	1080	10,20
20+20+42+71	1,18	1,18			9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,45 - 3,19)	1100	10,50	1,36	1,36	2,85		10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,44 - 3,66)	1075	10,10
20+20+50+50	1,29	1,29	3,21	3,21	9,00 (2,90 - 10,80)	4,07	8,00 A++	2,21 (0,49 - 2,98)	1105	10,60	1,49	1,49	3,71		10,40 (3,40 - 14,40)	4,84	4,40 A+	2,15 (0,51 - 3,60)	1075	10,10
20+20+50+60	1,20	1,20	3,00 2,79	3,60	9,00 (3,00 - 11,00)	4,07	8,00 A++	2,21 (0,49 - 3,12) 2,15 (0,52 - 3,20)	1105	10,60	1,39	1,39	3,47	4,15	10,40(3,40-14,40)	4,84	4,40 A+	2,15(0,51-3,60) 2,18(0,52-3,59)	1075	10,10
20+20+50+71	1,12	1,12			9,00 (3,00 - 11,20) 9,00 (3,00 - 11,20)	4,19	8,00 A++ 8,00 A++	2,15(0,52-3,20)	1075	10,30	1,29	1,29	3,23	4,59 3,90	10,40(3,40-14,40)	4,77	4,40 A+ 4,40 A+	2,15(0,52-3,59)	1090	10,20
20+20+60+71	1,05	1,05			9,00 (3,00 - 11,20)	4,19	8,00 A++	2,15 (0,52 - 3,20)	1075	10,30	1,22	1,22	3,65	4,31	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,52 - 3,59)	1090	10,20
20+20+71+71	0,99	0,99	3,51	3,51	9,00 (3,00 - 11,20)	4,17	8,00 A++	2,16 (0,53 - 3,13)	1080	10,30	1,14	1,14	4,06	4,06	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,53 - 3,58)	1090	10,20
20+25+25+25	1,89	2,37	2,37	2,37 3,01	9,00 (2,90 - 10,60) 9,00 (2,90 - 10,60)	3,78	8,00 A++ 8,00 A++	2,38 (0,37 - 3,40) 2,38 (0,37 - 3,33)	1190	11,40	2,18 1,98	2,74	2,74	3,46	10,40(3,40-14,20)	4,71	4,40 A+ 4,40 A+	2,21 (0,34 - 3,79) 2,19 (0,35 - 3,76)	1105	10,40
20+25+25+42	1,60	2,01	2,01	3,38	9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	1,86	2,32	2,32		10,40(3,40-14,20)	4,77	4,40 A+	2,18 (0,36 - 3,74)	1073	10,30
20+25+25+50	1,49	1,88	1,88	3,75	9,00 (2,90 - 10,60)	4,00	8,00 A++	2,25 (0,41 - 3,04)	1125	10,80	1,73	2,17	2,17	4,33	10,40(3,40-14,20)	4,86	4,40 A+	2,14(0,42-3,60)	1070	10,10
20+25+25+60	1,38	1,73		4,16	9,00 (2,90 - 10,80)	4,00	8,00 A++	2,25 (0,41 - 3,18)	1125	10,80	1,60	2,00	2,00	4,80	10,40(3,40-14,40)	4,86	4,40 A+	2,14 (0,42 - 3,66)	1070	10,10
20+25+25+71	1,27	1,60	1,60 2,74	4,53 2,74	9,00 (2,90 - 10,80) 9,00 (2,90 - 10,60)	4,09 3,90	8,00 A++ 8,00 A++	2,20 (0,44 - 3,11) 2,31 (0,37 - 3,25)	1100	10,50	1,48	1,84 2,26	1,84 3,17	5,24 3,17	10,40(3,40-14,40)	4,88	4,40 A+ 4,40 A+	2,13 (0,42 - 3,64) 2,17 (0,37 - 3,66)	1065	10,00
20+25+35+35	1,48	1,84	2,74	3,10	9,00 (2,90 - 10,80)	3,90	8,00 A++	2,31 (0,37 - 3,23)	1155	11,10	1,70	2,13	2,98	3,17	10,40(3,40-14,20)	4,77	4,40 A+	2,16 (0,37 - 3,65)	1080	10,20
20+25+35+50	1,38	1,73			9,00 (2,90 - 10,80)	3,98	8,00 A++	2,26 (0,44 - 3,11)	1130	10,80	1,60	2,00	2,80		10,40(3,40-14,40)	4,91	4,40 A+	2,12 (0,42 - 3,63)	1060	10,00
20+25+35+60	1,28	1,61	2,25		9,00 (2,90 - 10,80)	3,98	8,00 A++	2,26 (0,44 - 3,11)	1130	10,80	1,49	1,86	2,60		10,40(3,40-14,40)	4,91	4,40 A+	2,12 (0,42 - 3,63)	1060	10,00
20+25+35+71	1,19	1,49	2,09	4,23	9,00(3,00-11,00)	4,09	8,00 A++	2,20 (0,44 - 3,19)	1100	10,50	1,38	1,72	2,41	4,89	10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,43 - 3,61)	1080	10,20
20+25+42+42	1,40	1,74	2,93	2,93 3,29	9,00 (2,90 - 10,80) 9,00 (2,90 - 10,80)	3,90 4,09	8,00 A++ 8,00 A++	2,31 (0,37 - 3,40) 2,20 (0,44 - 3,11)	1155	11,10	1,60	1,90	3,39	3,39	10,40(3,40-14,40)	4,75 4,81	4,40 A+ 4,40 A+	2,19 (0,37 - 3,76) 2,16 (0,43 - 3,62)	1095	10,30
20+25+42+60	1,22	1,53		3,68	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,11)	1100	10,50	1,52	1,77	2,97		10,40(3,40-14,40)	4,81	4,40 A+	2,16(0,43-3,62)	1080	10,20
20+25+42+71	1,14	1,42	2,39	4,05	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,45 - 3,33)	1100	10,50	1,32	1,65	2,76	4,67	10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,44 - 3,66)	1075	10,10
20+25+50+50	1,24	1,55			9,00 (3,00 - 11,00)	4,07	8,00 A++	2,21 (0,49 - 3,12)	1105	10,60	1,43	1,79	3,59		10,40(3,40-14,40)	4,84	4,40 A+	2,15(0,51-3,60)	1075	10,10
20+25+50+60	1,16	1,45		3,49	9,00 (3,00 - 11,00) 9,00 (3,00 - 11,20)	4,07	8,00 A++ 8,00 A++	2,21 (0,49 - 3,12) 2,15 (0,52 - 3,20)	1105	10,60	1,34	1,68	3,35	4,03	10,40(3,40-14,40)	4,84	4,40 A+ 4,40 A+	2,15(0,51 - 3,60) 2,18(0,52 - 3,59)	1075	10,10
20+25+60+60	1,00	1,37	3,27	3,27	9,00 (3,00 - 11,20)	4,17	8,00 A++	2,15(0,52-3,20)	1105	10,60	1,26	1,58	3,78	3,78	10,40(3,40-14,40)	4,84	4,40 A+	2,15(0,51-3,60)	1075	10,10
20+25+60+71	1,02	1,28			9,00 (3,00 - 11,20)	4,19	8,00 A++	2,15 (0,52 - 3,20)	1075	10,30	1,18	1,48		4,19	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,52 - 3,59)	1090	10,20





Free Mult	i 5x1 CU-	5Z90T	BE. Minimum	cap	acity c	onnected:	4,5	kW. M	axi	mui	n c	apac	ity connected	: 18	,3 kW	· R32		
Indoor unit capacity		Coolin	g capacity(kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current				•	g capacity (kW). Rooms	COP	SCOP 1)	Input power rating	A.E.C.	Current
20+35+35+35	A B	C D 52 2,52	F Total (Min - Max) 9,00 (2,90 - 10,80)	W/W 3,90	8,00 A++	2,31 (0,40 - 3,33)	kWh 1155	230V 11,10	1,67	2,91	2,91	D 2,91	E Total (Min - Max) 10,40(3,40 - 14,20)	W/W 4,75	4,40 A+	2,19 (0,37 - 3,63)	kWh 1095	230V 10,30
20+35+35+42		39 2,86	9,00 (2,90 - 10,80)	3,90	8,00 A++	2,31 (0,40 - 3,33)	1155	11,10	1,58	2,76	2,76	3,30	10,40(3,40 - 14,40)	4,77	4,40 A+	2,18(0,37-3,73)	1090	10,20
20+35+35+50	1,29 2,25 2	25 3,21	9,00 (2,90 - 10,80)	4,09	8,00 A++	2,20 (0,44 - 3,11)	1100	10,50	1,49	2,60	2,60	3,71	10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,45 - 3,65)	1075	10,10
20+35+35+60		10 3,60	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 [0,44 - 3,26]	1100	10,50	1,39	2,43	2,43	4,15	10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,45 - 3,65)	1075	10,10
20+35+35+71		96 3,97	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,47 - 3,33)	1100	10,50	1,29	2,26	2,26	4,59	10,40(3,40-14,40)	4,86	4,40 A+	2,14(0,45-3,64)	1070	10,10
20+35+42+42		72 2,72 57 3,07	9,00 (2,90 - 10,80) 9,00 (3,00 - 11,00)	3,90 4,09	8,00 A++ 8,00 A++	2,31 (0,40 - 3,33)	1155	11,10	1,50	2,62	3,14 2,97	3,14	10,40(3,40-14,40)	4,79	4,40 A+	2,17(0,39-3,72) 2,15(0,45-3,64)	1085	10,20
20+35+42+60		41 3,44	9,00 (3,00 - 11,00)	4,07	8,00 A++	2,20 (0,44 - 3,17)	1100	10,50	1,32	2,32	2,77	3,98	10,40(3,40-14,40)	4,84	4,40 A+	2,15(0,45-3,64)	1075	10,10
20+35+42+71		25 3,80	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,48 - 3,34)	1100	10,50	1,24	2,17	2,60	4,39	10,40(3,40-14,40)	4,86	4,40 A+	2,14(0,46-3,63)	1070	10,10
20+35+50+50	1,16 2,04 2	90 2,90	9,00 (3,00 - 11,00)	4,07	8,00 A++	2,21 (0,52 - 3,05)	1105	10,60	1,34	2,36	3,35	3,35	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,53 - 3,58)	1090	10,20
20+35+50+60	1,09 1,91 2	73 3,27	9,00 (3,00 - 11,20)	4,07	8,00 A++	2,21 (0,52 - 3,20)	1105	10,60	1,26	2,21	3,15	3,78	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,53 - 3,58)	1090	10,20
20+35+50+71		56 3,63	9,00 (3,00 - 11,20)	4,17	8,00 A++	2,16 (0,53 - 3,20)	1080	10,30	1,18	2,07	2,95	4,20	10,40(3,40-14,40)	4,79	4,40 A+	2,17(0,54-3,56)	1085	10,20
20+35+60+60		09 3,09	9,00 (3,00 - 11,20)	4,07	8,00 A++	2,21 (0,52 - 3,20)	1105	10,60	1,19	2,07	3,57	3,57	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,53 - 3,58)	1090	10,20
20+42+42+42		59 2,59 45 2,93	9,00 (3,00 - 11,00) 9,00 (3,00 - 11,00)	3,90 4,09	8,00 A++ 8,00 A++	2,31 (0,40 - 3,40) 2,20 (0,45 - 3,19)	1155	11,10	1,43	2,99	2,99	2,99	10,40(3,40 - 14,40) 10,40(3,40 - 14,40)	4,79	4,40 A+	2,17(0,39 - 3,71) 2,14(0,45 - 3,63)	1085	10,20
20+42+42+60		30 3,30	9,00 (3,00 - 11,20)	4,07	8,00 A++	2,20 (0,45 - 3,17)	1100	10,50	1,27	2,66	2,66	3,81	10,40(3,40-14,40)	4,86	4,40 A+	2,14(0,45-3,63)	1070	10,10
20+42+42+71		16 3,65	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,48 - 3,26)	1100	10,50	1,19	2,50	2,50	4,21	10,40(3,40-14,40)	4,88	4,40 A+	2,13(0,46-3,61)	1065	10,00
20+42+50+50		78 2,78	9,00 (3,00 - 11,20)	4,19	8,00 A++	2,15 (0,52 - 3,20)	1075	10,30	1,28	2,70	3,21	3,21	10,40(3,40-14,40)	4,79	4,40 A+	2,17 (0,54 - 3,57)	1085	10,20
20+42+50+60	1,04 2,20 2	62 3,14	9,00 (3,00 - 11,20)	4,19	8,00 A++	2,15 (0,52 - 3,20)	1075	10,30	1,21	2,54	3,02	3,63	10,40(3,40-14,40)	4,79	4,40 A+	2,17 (0,54 - 3,57)	1085	10,20
20+42+50+71		46 3,49	9,00 (3,00 - 11,20)	4,17	8,00 A++	2,16 (0,53 - 3,13)	1080	10,30	1,14	2,39	2,84	4,03	10,40(3,40-14,40)	4,79	4,40 A+	2,17 (0,55 - 3,55)	1085	10,20
20+42+60+60		97 2,97	9,00 (3,00 - 11,20)	4,19	8,00 A++	2,15 (0,52 - 3,20)	1075	10,30	1,14	2,40	3,43	3,43	10,40(3,40-14,40)	4,79	4,40 A+	2,17 (0,54 - 3,57)	1085	10,20
20+50+50+50		65 2,65	9,00 (3,00 - 11,20)	4,15	8,00 A++	2,17 (0,58 - 3,14)	1085	10,40	1,22	3,06	3,06	3,06	10,40(3,40-14,40)	4,60	4,40 A+	2,26 (0,63 - 3,57)	1130	10,60
20+50+50+60		50 3,00 25 2,25	9,00 (3,00 - 11,20)	4,15	8,00 A++ 8,00 A++	2,17 (0,58 - 3,14) 2,38 (0,37 - 3,40)	1085	10,40	1,16	2,89	2,89	3,46 2,60	10,40(3,40-14,40)	4,60	4,40 A+	2,26 [0,63 - 3,57]	1130	10,60
25+25+25+25 25+25+25+35		05 2,85	9,00 (2,90 - 10,60) 9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,40)	1190	11,40	2,60	2,36	2,36	3,32	10,40(3,40-14,20)	4,71	4,40 A+	2,21 (0,34 - 3,79) 2,19 (0,35 - 3,76)	1095	10,40
25+25+25+42		92 3,24	9,00 (2,90 - 10,60)	3,78	8,00 A++	2,38 (0,37 - 3,33)	1190	11,40	2,22	2,22	2,22	3,74	10,40(3,40-14,20)	4,77	4,40 A+	2,18 (0,36 - 3,74)	1090	10,20
25+25+25+50		80 3,60	9,00 (2,90 - 10,80)	4,00	8,00 A++	2,25 (0,41 - 3,18)	1125	10,80	2,08	2,08	2,08	4,16	10,40(3,40-14,20)	4,86	4,40 A+	2,14(0,42-3,60)	1070	10,10
25+25+25+60	1,67 1,67 1	67 3,99	9,00 (2,90 - 10,80)	4,00	8,00 A++	2,25 (0,41 - 3,18)	1125	10,80	1,93	1,93	1,93	4,61	10,40(3,40-14,40)	4,86	4,40 A+	2,14 (0,42 - 3,66)	1070	10,10
25 + 25 + 25 + 71	1,54 1,54 1	54 4,38	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,26)	1100	10,50	1,78	1,78	1,78	5,06	10,40(3,40-14,40)	4,88	4,40 A+	2,13 (0,42 - 3,64)	1065	10,00
25+25+35+35		63 2,63	9,00 (2,90 - 10,60)	3,90	8,00 A++	2,31 (0,37 - 3,25)	1155	11,10	2,17	2,17	3,03	3,03	10,40(3,40-14,20)	4,79	4,40 A+	2,17 (0,37 - 3,66)	1085	10,20
25+25+35+42		48 2,98	9,00 (2,90 - 10,80)	3,90	8,00 A++	2,31 (0,37 - 3,40)	1155	11,10	2,05	2,05	2,87	3,43	10,40(3,40-14,20)	4,81	4,40 A+	2,16 (0,37 - 3,65)	1080	10,20
25+25+35+50 25+25+35+60		33 3,33 17 3,73	9,00 (2,90 - 10,80) 9,00 (3,00 - 11,00)	3,98	8,00 A++	2,26 (0,44 - 3,11)	1130	10,80	1,93	1,93	2,70	3,84 4,31	10,40(3,40-14,40)	4,91	4,40 A+	2,12(0,42-3,63)	1060	10,00
25+25+35+60		02 4,10	9,00 (3,00 - 11,00)	4,09	8,00 A++ 8,00 A++	2,20 (0,44 - 3,19)	1100	10,50	1,67	1,67	2,33	4,73	10,40(3,40-14,40)	4,81	4,40 A+	2,16(0,42-3,63)	1080	10,00
25+25+42+42		82 2,82	9,00 (2,90 - 10,80)	3,90	8,00 A++	2,31 (0,37 - 3,40)	1155	11,10	1,94	1,94	3,26	3,26	10,40(3,40 - 14,40)	4,75	4,40 A+	2,19 (0,37 - 3,76)	1095	10,30
25+25+42+50		66 3,18	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,26)	1100	10,50	1,83	1,83	3,08	3,66	10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,43 - 3,62)	1080	10,20
25 + 25 + 42 + 60	1,48 1,48 2	49 3,55	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,26)	1100	10,50	1,71	1,71	2,87	4,11	10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,43 - 3,62)	1080	10,20
25+25+42+71		32 3,92	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,45 - 3,33)	1100	10,50	1,60	1,60	2,68	4,52	10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,44 - 3,66)	1075	10,10
25+25+50+50		00 3,00	9,00 (3,00 - 11,00)	4,07	8,00 A++	2,21 (0,49 - 3,12)	1105	10,60	1,73	1,73	3,47	3,47	10,40(3,40-14,40)	4,84	4,40 A+	2,15(0,51-3,60)	1075	10,10
25+25+50+60		80 3,38	9,00 (3,00 - 11,20)	4,07	8,00 A++	2,21 (0,49 - 3,19)	1105	10,60	1,63	1,63	3,25	3,89	10,40(3,40-14,40)	4,84	4,40 A+	2,15(0,51-3,60)	1075	10,10
25+25+50+71 25+25+60+60		62 3,74 18 3,18	9,00 (3,00 - 11,20) 9,00 (3,00 - 11,20)	4,19	8,00 A++ 8,00 A++	2,15 (0,52 - 3,20) 2,21 (0,49 - 3,19)	1075	10,30	1,52	1,52	3,04	4,32 3,67	10,40(3,40-14,40)	4,77	4,40 A+	2,18(0,52-3,59) 2,15(0,51-3,60)	1090	10,20
25+25+60+71		98 3,54	9,00 (3,00 - 11,20)	4,19	8,00 A++	2,15 (0,52 - 3,20)	1075	10,30	1,44	1,44	3,45	4,07	10,40(3,40-14,40)	4,77	4,40 A+	2,18(0,52-3,59)	1075	10,10
25+35+35+35		42 2,42	9,00 (2,90 - 10,80)	3,90	8,00 A++	2,31 (0,40 - 3,33)	1155	11,10	2,00	2,80	2,80	2,80	10,40(3,40-14,40)	4,75	4,40 A+	2,19 (0,37 - 3,75)	1095	10,30
25+35+35+42		30 2,76	9,00 (2,90 - 10,80)	3,90	8,00 A++	2,31 (0,40 - 3,33)	1155	11,10	1,90	2,66	2,66	3,18	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,37 - 3,73)	1090	10,20
25+35+35+50	1,55 2,17 2	17 3,11	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,26)	1100	10,50	1,79	2,51	2,51	3,59	10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,45 - 3,65)	1075	10,10
25+35+35+60	1,45 2,03 2	03 3,49	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,26)	1100	10,50	1,68	2,35	2,35	4,02	10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,45 - 3,65)	1075	10,10
25+35+35+71		90 3,85	9,00 (3,00 - 11,20)		8,00 A++	2,20 (0,47 - 3,33)	1100	10,50	1,57	2,19	2,19	4,45	10,40(3,40-14,40)	4,86	4,40 A+	2,14(0,45-3,64)	1070	10,10
25+35+42+42		63 2,63	9,00 (3,00 - 11,00)	3,90	8,00 A++	2,31 (0,40 - 3,48)	1155	11,10	1,81	2,53	3,03	3,03	10,40(3,40-14,40)	4,79	4,40 A+	2,17(0,39-3,72)	1085	10,20
25+35+42+50 25+35+42+60		49 2,96 33 3,33	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,44 - 3,19)	1100	10,50	1,71	2,39	2,87	3,43	10,40(3,40-14,40)	4,84	4,40 A+	2,15(0,45-3,64)	1075	10,10
25+35+42+60		18 3,70	9,00 (3,00 - 11,20) 9,00 (3,00 - 11,20)	4,09	8,00 A++ 8,00 A++	2,20 (0,44 - 3,33)	1100	10,50	1,60	2,25	2,70	4,28	10,40(3,40-14,40)	4,84	4,40 A+	2,15(0,45-3,64) 2,14(0,46-3,63)	1075	10,10
25+35+50+50		81 2,81	9,00 (3,00 - 11,20)	4,07	8,00 A++	2,21 (0,52 - 3,20)	1105	10,60	1,62	2,10	3,25	3,25	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,53 - 3,58)	1090	10,20
25+35+50+60		65 3,18	9,00 (3,00 - 11,20)	4,07	8,00 A++	2,21 (0,52 - 3,20)	1105	10,60	1,53	2,14	3,06	3,67	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,53 - 3,58)	1090	10,20
25+35+50+71	1,24 1,74 2	49 3,53	9,00 (3,00 - 11,20)	4,17	8,00 A++	2,16 (0,53 - 3,20)	1080	10,30	1,44	2,01	2,87	4,08	10,40(3,40-14,40)	4,79	4,40 A+	2,17 (0,54 - 3,56)	1085	10,20
25+35+60+60		00, 3,00	9,00 (3,00 - 11,20)	4,07	8,00 A++	2,21 (0,52 - 3,20)	1105	10,60	1,44	2,02	3,47	3,47	10,40(3,40-14,40)	4,77	4,40 A+	2,18 (0,53 - 3,58)	1090	10,20
25+42+42+42		50 2,50	9,00 (3,00 - 11,00)	3,90	8,00 A++	2,31 (0,40 - 3,40)	1155	11,10	1,73	2,89	2,89	2,89	10,40(3,40 - 14,40)	4,79	4,40 A+	2,17 (0,39 - 3,71)	1085	10,20
25+42+42+50		38 2,83	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,45 - 3,33)	1100	10,50	1,64	2,75	2,75	3,26	10,40(3,40-14,40)	4,86	4,40 A+	2,14(0,45-3,63)	1070	10,10
25+42+42+60 25+42+42+71		24 3,20 10 3,55	9,00(3,00 - 11,20) 9,00(3,00 - 11,20)	4,09	8,00 A++ 8,00 A++	2,20 (0,45 - 3,33)	1100	10,50	1,54	2,58	2,58	3,70 4,10	10,40(3,40-14,40)	4,86	4,40 A+ 4,40 A+	2,14(0,45-3,63) 2,13(0,46-3,61)	1070	10,10
25+42+42+71		69 2,69	9,00 (3,00 - 11,20)	4,19	8,00 A++	2,15 (0,52 - 3,20)	1075	10,30	1,56	2,43	3,11	3,11	10,40(3,40-14,40)	4,79	4,40 A+	2,17 (0,54 - 3,57)	1085	10,00
25+42+50+60		54 3,05	9,00 (3,00 - 11,20)	4,19	8,00 A++	2,15 (0,52 - 3,20)	1075	10,30	1,47	2,47	2,94	3,52	10,40(3,40-14,40)	4,79	4,40 A+	2,17 (0,54 - 3,57)	1085	10,20
25+50+50+50		57 2,57	9,00 (3,00 - 11,20)	4,15	8,00 A++	2,17 (0,58 - 3,14)	1085	10,40	1,49	2,97	2,97	2,97	10,40(3,40-14,40)	4,60	4,40 A+	2,26 (0,63 - 3,57)	1130	10,60
35+35+35+35		25 2,25	9,00 (2,90 - 10,80)	4,00	8,00 A++	2,25 (0,40 - 3,25)	1125	10,80	2,60	2,60	2,60	2,60	10,40(3,40-14,40)	4,79	4,40 A+	2,17 (0,39 - 3,71)	1085	10,20
35+35+35+42		14 2,58	9,00 (3,00 - 11,00)	4,00	8,00 A++	2,25 (0,41 - 3,40)	1125	10,80	2,48	2,48	2,48	2,96	10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,39 - 3,70)	1080	10,20
35+35+35+50		03 2,91	9,00 (3,00 - 11,00)	4,09	8,00 A++	2,20 (0,47 - 3,19)	1100	10,50	2,35	2,35	2,35	3,35	10,40(3,40-14,40)	4,86	4,40 A+	2,14 (0,46 - 3,62)	1070	10,10
35+35+35+60		91 3,27	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,47 - 3,33)	1100	10,50	2,21	2,21	2,21	3,77	10,40(3,40 - 14,40)	4,86	4,40 A+	2,14(0,46-3,62)	1070	10,10
35+35+35+71		79 3,63	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,48 - 3,26)	1100	10,50	2,07	2,07	2,07	4,19	10,40(3,40-14,40)	4,88	4,40 A+	2,13(0,47-3,61)	1065	10,00
35+35+42+42 35+35+42+50		45 2,45 33 2,79	9,00 (3,00 - 11,00)	4,00	8,00 A++ 8,00 A++	2,25 (0,41 - 3,40)	1125	10,80	2,36	2,36	2,84	3,20	10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,40 - 3,69)	1080	10,20
35+35+42+60		20 3,14	9,00 (3,00 - 11,20) 9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,47 - 3,33) 2,20 (0,47 - 3,33)	1100	10,50	2,25	2,25	2,70	3,20	10,40(3,40 - 14,40) 10,40(3,40 - 14,40)	4,88	4,40 A+	2,13(0,47 - 3,61) 2,13(0,47 - 3,61)	1065	10,00
35+35+42+60		07 3,49	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,47 - 3,33)	1100	10,50	1,99	1,99	2,34	4,03	10,40(3,40-14,40)	4,88	4,40 A+	2,17(0,48-3,60)	1085	10,00
35+35+50+50		65 2,65	9,00 (3,00 - 11,20)	4,17	8,00 A++	2,16 (0,52 - 3,20)	1080	10,30	2,14	2,14	3,06	3,06	10,40(3,40 - 14,40)	4,79	4,40 A+	2,17 (0,55 - 3,55)	1085	10,20
35+35+50+60		50 3,00	9,00 (3,00 - 11,20)	4,17	8,00 A++	2,16 (0,52 - 3,20)	1080	10,30	2,02	2,02	2,89	3,47	10,40(3,40-14,40)	4,79	4,40 A+	2,17 (0,55 - 3,55)	1085	10,20
35+42+42+42		35 2,35	9,00 (3,00 - 11,20)	4,00	8,00 A++	2,25 (0,41 - 3,56)	1125	10,80	2,27	2,71	2,71	2,71	10,40(3,40-14,40)	4,84	4,40 A+	2,15 (0,40 - 3,67)	1075	10,10
35+42+42+50	1,86 2,24 2	24 2,66	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,48 - 3,34)	1100	10,50	2,15	2,58	2,58	3,09	10,40 (3,40 - 14,40)	4,79	4,40 A+	2,17 (0,48 - 3,60)	1085	10,20
35+42+42+60		11 3,02	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,48 - 3,34)	1100	10,50	2,03	2,44	2,44	3,49	10,40(3,40-14,40)	4,79	4,40 A+	2,17 (0,48 - 3,60)	1085	10,20
35+42+50+50		54 2,54	9,00 (3,00 - 11,20)	4,17	8,00 A++	2,16 [0,53 - 3,20]	1080	10,30	2,05	2,47	2,94	2,94	10,40[3,40-14,40]	4,73	4,40 A+	2,20 (0,56 - 3,54)	1100	10,30
42+42+42+42		25 2,25	9,00 (3,00 - 11,20)	4,00	8,00 A++	2,25 (0,43 - 3,48)	1125	10,80	2,60	2,60	2,60	2,60	10,40(3,40-14,40)	4,86	4,40 A+	2,14(0,40-3,66)	1070	10,10
42+42+42+50	2,15 2,15 2	15 755	9,00 (3,00 - 11,20)	4,09	8,00 A++	2,20 (0,48 - 3,26)	1100	10,50	7 / 9	7 / 9	7/18	2,96	10,40(3,40-14,40)	4,81	4,40 A+	2,16 (0,48 - 3,59)	1080	10,20

10,40(3,40-14,40) 4,81 **4,40 A+** 2,16(0,48-3,59) 1080 10,20

Free Multi R32 combinations table

Free Multi	5x′	1 Cl	J-52	<u> </u>	ГВЕ	. Minimum	cap	acity o	onnected:	4,5 k	w. M	laxi	mur	n ca	ара	city	connected	l: 18	,3 kW	R32		
Indoor unit capacity				Cooli	ng cap	acity(kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current				Heati	ng cap	acity (kW). Rooms	СОР	SCOP 13	Input power rating	A.E.C.	Current
	A	В	С	D	E	Total (Min - Max)	W/W		kW	kWh	230V	A	В	С	D	E	Total (Min - Max)	W/W		kW	kWh	230V
5 Rooms	1.10	1.10	1.10	1 10	4 10	0.00/0.00 44.50\			1 25/2 /5 2 5/1								10 (0/0 (0 1 (50)			0.44/0.40.0.45		10.00
16+16+16+16+16	1,60	1,60	1,60	1,60	1,60 2,00	8,00 (2,90 - 11,50) 8,40 (2,90 - 11,50)	4,28	8,50 A+++	1,87 (0,45 - 3,56) 1,98 (0,45 - 3,56)	935 990	9,00	2,08	1,98	2,08 1,98	2,08 1,98	2,08	10,40(3,40-14,50)	4,81	4,40 A+ 4,50 A+	2,16 (0,43 - 3,67)	1080	10,20
16+16+16+16+25	1,62	1,62	1,62	1,62	2,52	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,45 - 3,56)	1100	10,50	1,87	1,87	1,87	1,87	2,92	10,40(3,40-14,50)	4,84	4,68 A++	2,15(0,44 - 3,66)	1075	10,10
16+16+16+16+35	1,45	1,45	1,45	1,45	3,20	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,45 - 3,49)	1100	10,50	1,68	1,68	1,68	1,68	3,68	10,40(3,40-14,50)	4,86	4,68 A++	2,14 (0,45 - 3,63)	1070	10,10
16+16+16+16+42	1,36	1,36	1,36	1,36	3,56	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,45 - 3,49)	1100	10,50	1,57	1,57	1,57	1,57	4,12	10,40(3,40-14,50)	4,86	4,68 A++	2,14 (0,46 - 3,67)	1070	10,10
16+16+16+16+50	1,26	1,26	1,26	1,26	3,96	9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,53 - 3,35)	1080	10,30	1,46	1,46	1,46	1,46	4,56	10,40(3,40-14,50)	4,79	4,68 A++	2,17(0,54-3,61)	1085	10,20
16+16+16+16+60	1,16	1,16	1,16	1,16	4,36	9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,17	8,50 A+++ 8,50 A+++	2,16 (0,53 - 3,35) 2,16 (0,54 - 3,28)	1080	10,30	1,34	1,34	1,34	1,34	5,04	10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,54 - 3,61) 2,21 (0,56 - 3,60)	1085	10,20
16+16+16+20+20	1,60	1,60	1,60	2,00	2.00	8,80 (2,90 - 11,50)	4,17	8,50 A+++	2,14 (0,45 - 3,48)	1070	10,30	1,89	1,89	1,89	2,36	2,36	10,39(3,40-14,50)	4,83	4,60 A++	2,15 (0,45 - 3,65)	1075	10,10
16+16+16+20+25	1,55	1,55	1,55	1,94	2,41	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,45 - 3,48)	1100	10,50	1,79	1,79	1,79	2,24	2,79	10,40(3,40-14,50)	4,84	4,68 A++	2,15(0,45-3,65)	1075	10,10
16+16+16+20+35	1,40	1,40	1,40	1,75	3,05	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,45 - 3,49)	1100	10,50	1,62	1,62	1,62	2,02	3,52	10,40(3,40-14,50)	4,86	4,68 A++	2,14 (0,46 - 3,67)	1070	10,10
16+16+16+20+42	1,31	1,31	1,31	1,64	3,43	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,49)	1100	10,50	1,51	1,51	1,51	1,89	3,98	10,40(3,40-14,50)	4,88	4,68 A++	2,13(0,47-3,66)	1065	10,00
16+16+16+20+50	1,22	1,22	1,22	1,53	3,81	9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,53 - 3,35)	1080	10,30	1,41	1,41	1,41	1,76	4,41	10,40(3,40-14,50)	4,79	4,68 A++	2,17(0,56-3,60)	1085	10,20
16+16+16+20+60 16+16+16+20+71	1,13	1,13	1,13	1,41	4,20	9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,17	8,50 A+++ 8.50 A+++	2,16 (0,53 - 3,35) 2,17 (0,54 - 3,28)	1080	10,30	1,30	1,30	1,30	1,63	4,87 5,30	10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,56 - 3,60) 2,20 (0,57 - 3,59)	1085	10,20
16+16+16+25+25	1,47	1,47	1,47	2,29	2,29	8,99 (2,90 - 11,50)	4,13	8,50 A+++	2,20 (0,45 - 3,48)	1100	10,50	1,70	1,70	1,70	2,65	2,65	10,40(3,40-14,50)	4,73	4,68 A++	2,15 (0,45 - 3,65)	1075	10,10
16+16+16+25+35	1,33	1,33	1,33	2,08	2,93	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,45 - 3,49)	1100	10,50	1,54	1,54	1,54	2,41	3,37	10,40(3,40-14,50)	4,86	4,68 A++	2,14(0,46-3,67)	1070	10,10
16+16+16+25+42	1,25	1,25	1,25	1,96	3,29	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,49)	1100	10,50	1,45	1,45	1,45	2,26	3,79	10,40(3,40-14,50)	4,88	4,68 A++	2,13 (0,47 - 3,66)	1065	10,00
16+16+16+25+50	1,17	1,17	1,17	1,83	3,66	9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,53 - 3,35)	1080	10,30	1,35	1,35	1,35	2,11	4,24	10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,56 - 3,60)	1085	10,20
16+16+16+25+60	1,08	1,08	1,08	1,69	4,07	9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,53 - 3,35)	1080	10,30	1,25	1,25	1,25	1,95	4,70	10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,56 - 3,60)	1085	10,20
16+16+16+25+71 16+16+16+35+35	1,00	1,00	1,00	1,56 2,67	2,67	9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,54-3,28) 2,21(0,48-3,41)	1085	10,40	1,16	1,16	1,16	1,81 3,08	5,11	10,40(3,40-14,50)	4,73	4,68 A++ 4,68 A++	2,20 (0,57 - 3,59) 2,16 (0,48 - 3,64)	1100	10,30
16+16+16+35+42	1,15	1,15	1,15	2,52	3,03	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,48 - 3,41)	1105	10,60	1,33	1,33	1,33	2,91	3,50	10,40(3,40-14,50)	4,81	4,68 A++	2,16 (0,49 - 3,63)	1080	10,20
16+16+16+35+50	1,08	1,08	1,08	2,37	3,39	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,54 - 3,28)	1085	10,40	1,25	1,25	1,25	2,74	3,91	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,57 - 3,63)	1100	10,30
16+16+16+35+60	1,01	1,01	1,01	2,20	3,77	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,54 - 3,28)	1085	10,40	1,16	1,16	1,16	2,55	4,37	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,57 - 3,63)	1100	10,30
16+16+16+35+71	0,94	0,94	0,94	2,05	4,13	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,08	1,08	1,08	2,36	4,80	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,59 - 3,62)	1100	10,30
16+16+16+42+42	1,09	1,09	1,09	2,86	2,86	8,99 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,41)	1105	10,60	1,26	1,26	1,26	3,31	3,31	10,40(3,40-14,50)	4,84	4,68 A++	2,15(0,50-3,62)	1075	10,10
16+16+16+42+50	1,03	1,03	1,03	2,70	3,21	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,54 - 3,28)	1085	10,40	1,19	1,19	1,19	3,12	3,71	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,59 - 3,62)	1100	10,30
16+16+16+42+60	0,96	0,96	0,96	2,52	3,60	9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,54-3,28) 2,17(0,57-3,29)	1085	10,40	1,11	1,11	1,11	2,91	4,16	10,40(3,40-14,50)	4,73	4,68 A++ 4,68 A++	2,20 (0,59 - 3,62) 2,23 (0,60 - 3,61)	1100	10,30
16+16+16+50+50	0,97	0,97	0,97	3,04	3,05	9,00 (2,90 - 11,50)	4,11	8,50 A+++	2,19 (0,62 - 3,23)	1095	10,50	1,12	1,12	1,12	3,52	3,52	10,40(3,40-14,50)	4,54	4,68 A++	2,29 (0,69 - 3,63)	1145	10,80
16+16+16+50+60	0,91	0,91	0,91	2,85	3,42	9,00 (2,90 - 11,50)	4,11	8,50 A+++	2,19 (0,62 - 3,23)	1095	10,50	1,05	1,05	1,05	3,29	3,96	10,40(3,40-14,50)	4,54	4,68 A++	2,29 (0,69 - 3,63)	1145	10,80
16+16+16+50+71	0,85	0,85	0,85	2,66	3,79	9,00 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,66 - 3,24)	1130	10,80	0,98	0,98	0,98	3,08	4,38	10,40(3,40-14,50)	4,54	4,68 A++	2,29 (0,71 - 3,62)	1145	10,80
16+16+16+60+60	0,86	0,86	0,86	3,21	3,21	9,00 (2,90 - 11,50)	4,11	8,50 A+++	2,19 (0,62 - 3,23)	1095	10,50	0,99	0,99	0,99	3,71	3,71	10,39(3,40-14,50)	4,54	4,68 A++	2,29 (0,69 - 3,63)	1145	10,80
16+16+16+60+71	0,80	0,80	0,80	3,02 1,96	3,58 1,96	9,00 (2,90 - 11,50)	3,98	8,50 A+++ 8.50 A+++	2,26 (0,66 - 3,24)	1130	10,80	0,93	0,93	0,93	3,49 2,26	4,12	10,40(3,40-14,50)	4,54	4,68 A++	2,29 (0,71 - 3,62)	1145	10,80
16+16+20+20+20 16+16+20+20+25	1,56	1,48	1,96	1,86	2,32	9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,45 - 3,49)	1100	10,50	1,72	1,81	2,26	2,14	2,26	10,40(3,40-14,50)	4,86	4,68 A++	2,14(0,45-3,64) 2,14(0,45-3,64)	1070	10,10
16+16+20+20+35	1,35	1,35	1,68	1,68	2,94	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,49)	1100	10,50	1,56	1,56	1,94	1,94	3,40	10,40(3,40-14,50)	4,88	4,68 A++	2,13(0,47 - 3,66)	1065	10,00
16+16+20+20+42	1,26	1,26	1,58	1,58	3,32	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,41)	1100	10,50	1,46	1,46	1,82	1,82	3,84	10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,48 - 3,65)	1085	10,20
16+16+20+20+50	1,18	1,18	1,48	1,48	3,68	9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,53 - 3,28)	1080	10,30	1,36	1,36	1,70	1,70	4,28	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,56 - 3,59)	1100	10,30
16+16+20+20+60	1,09	1,09	1,36	1,36	4,10	9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,53 - 3,28)	1080	10,30	1,26	1,26	1,58	1,58	4,72	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,56 - 3,59)	1100	10,30
16+16+20+20+71 16+16+20+25+25	1,01	1,01	1,26	1,26	2,21	9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,57-3,28) 2,20(0,45-3,49)	1085	10,40	1,16	1,16	1,45	1,45 2,55	5,18	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,57 - 3,58) 2,14 (0,45 - 3,64)	1100	10,30
16+16+20+25+35	1,29	1,29	1,61	2,01	2,80	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,49)	1100	10,50	1,49	1,49	1,86	2,32	3,24	10,40(3,40-14,50)	4,88	4,68 A++	2,13(0,47 - 3,66)	1065	10,00
16+16+20+25+42	1,21	1,21	1,51	1,89	3,18	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,41)	1100	10,50	1,40	1,40	1,75	2,18	3,67	10,40(3,40-14,50)	4,79	4,68 A++	2,17(0,48-3,65)	1085	10,20
16+16+20+25+50	1,13	1,13	1,42	1,77	3,55	9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,53 - 3,28)	1080	10,30	1,31	1,31	1,64	2,05	4,09	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,56 - 3,59)	1100	10,30
16+16+20+25+60	1,05	1,05	1,31	1,64	3,95	9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,53 - 3,28)	1080	10,30	1,21	1,21	1,52	1,90	4,56	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,56 - 3,59)	1100	10,30
16+16+20+25+71	0,97	0,97	1,22	1,52	4,32	9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,57 - 3,28) 2,21(0,49 - 3,41)	1085	10,40	1,12	1,12	1,41	1,76 2,98	4,99 2,98	10,40(3,40-14,50)	4,73	4,68 A++ 4,68 A++	2,20 (0,57 - 3,58) 2,16 (0,49 - 3,63)	1100	10,30
16+16+20+35+35 16+16+20+35+42	1,18	1,18	1,48	2,58	2,58	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,41)	1105	10,60	1,36	1,36	1,72	2,70	3,39	10,40(3,40-14,50)	4,84	4,68 A++	2,15 (0,50 - 3,62)	1075	10,20
16+16+20+35+50	1,05	1,05	1,31	2,30	3,29	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,54 - 3,28)	1085	10,40	1,21	1,21	1,52	2,66	3,80	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,59 - 3,62)	1100	10,30
16+16+20+35+60	0,98	0,98	1,22	2,14	3,68	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,54 - 3,28)	1085	10,40	1,13	1,13	1,41	2,48	4,25	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,59 - 3,62)	1100	10,30
16+16+20+35+71	0,91	0,91	1,14	1,99	4,05	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,29)	1085	10,40	1,05	1,05	1,32	2,30	4,68	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,60 - 3,61)	1115	10,50
16+16+20+42+42	1,06	1,06	1,32	2,78	2,78	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,22	1,22	1,54	3,21	3,21	10,40(3,40-14,50)	4,84	4,68 A++	2,15(0,51-3,61)	1075	10,10
16+16+20+42+50 16+16+20+42+60	1,00	1,00	1,25	2,63	3,12	9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,57-3,28) 2,17(0,57-3,28)	1085	10,40	1,16	1,16	1,44	3,03	3,61 4,05	10,40(3,40-14,50)	4,75	4,68 A++	2,19(0,60-3,61)	1095	10,30
16+16+20+42+71	0,74	0,74	1,09	2,43	3,88	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,00	1,00	1,26	2,65	4,47	10,40(3,40-14,50)	4,75	4,68 A++	2,23 (0,60 - 3,60)	1115	10,50
16+16+20+50+50	0,95	0,95	1,18	2,96	2,96	9,00 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,63 - 3,23)	1130	10,80	1,09	1,09	1,38	3,42	3,42	10,40(3,40-14,50)	4,54	4,68 A++	2,29 (0,70 - 3,62)	1145	10,80
16+16+20+50+60	0,89	0,89	1,11	2,78	3,33	9,00 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,63 - 3,23)	1130	10,80	1,03	1,03	1,28	3,21	3,85	10,40(3,40-14,50)	4,54	4,68 A++	2,29 (0,70 - 3,62)	1145	10,80
16+16+20+50+71	0,83	0,83	1,04	2,60	3,70	9,00 (2,90 - 11,50)	3,96	8,50 A+++	2,27 (0,66 - 3,24)	1135	10,90	0,96	0,96	1,20	3,01	4,27	10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,71 - 3,66)	1165	10,90
16+16+20+60+60	0,84	0,84	1,04	3,14	3,14	9,00 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,63 - 3,23)	1130	10,80	0,97	0,97	1,20	3,63	3,63	10,40(3,40-14,50)	4,54	4,68 A++	2,29 (0,70 - 3,62)	1145	10,80
16+16+20+60+71 16+16+25+25+25	1,35	1,35	0,98 2,10	2,95	3,49 2,10	9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	3,96 4,09	8,50 A+++ 8,50 A+++	2,27 (0,66 - 3,24)	1135	10,90	0,91 1,55	0,91 1,55	2,43	3,41 2,43	4,03 2,43	10,40(3,40-14,50)	4,46	4,68 A++ 4,68 A++	2,33 (0,71 - 3,66) 2,14 (0,45 - 3,64)	1165	10,90
16+16+25+25+35	1,23	1,23	1,92	1,92	2,70	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,49)	1100	10,50	1,42	1,42	2,22	2,22	3,12	10,40(3,40-14,50)	4,88	4,68 A++	2,13(0,47 - 3,66)	1065	10,00
16+16+25+25+42	1,16	1,16	1,81	1,81	3,06	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,41)	1100	10,50	1,34	1,34	2,10	2,10	3,52	10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,48 - 3,65)	1085	10,20
16+16+25+25+50	1,09	1,09	1,70	1,70	3,42	9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,53 - 3,28)	1080	10,30	1,26	1,26	1,97	1,97	3,94	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,56 - 3,59)	1100	10,30
16+16+25+25+60	1,01	1,01	1,58	1,58	3,82	9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,53 - 3,28)	1080	10,30	1,17	1,17	1,83	1,83	4,40	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,56 - 3,59)	1100	10,30
16+16+25+25+71 16+16+25+35+35	1,13	1,13	1,47	1,47 2,48	4,18 2,48	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,57-3,28)	1085	10,40	1,09	1,09	2,04	1,70 2,87	4,82 2,87	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,57 - 3,58)	1100	10,30
16+16+25+35+35	1,13	1,13	1,78	2,48	2,48	9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,41) 2,21 (0,49 - 3,41)	1105	10,60	1,31	1,31	1,94	2,72	3,26	10,40(3,40-14,50)	4,81	4,68 A++	2,16 (0,49 - 3,63) 2,15 (0,50 - 3,62)	1080	10,20
16+16+25+35+50	1,01	1,01	1,58	2,22	3,18	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,54 - 3,28)	1085	10,40	1,17	1,17	1,83	2,56	3,67	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,59 - 3,62)	1100	10,30
16+16+25+35+60	0,95	0,95	1,48	2,07	3,55	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,54 - 3,28)	1085	10,40	1,09	1,09	1,71	2,39	4,12	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,59 - 3,62)	1100	10,30
16+16+25+35+71	0,88	0,88	1,38	1,93	3,93	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,29)	1085	10,40	1,02	1,02	1,60	2,23	4,53	10,40 (3,40 - 14,50)	4,66	4,68 A++	2,23 (0,60 - 3,61)	1115	10,50
16+16+25+42+42	1,02	1,02	1,60	2,68	2,68	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,18	1,18	1,84	3,10	3,10	10,40(3,40-14,50)	4,84	4,68 A++	2,15 (0,51 - 3,61)	1075	10,10
16+16+25+42+50	0,97	0,97	1,51	2,54	3,01	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,57 - 3,28)	1085	10,40	1,12	1,12	1,74	2,93	3,49	10,40(3,40-14,50)	4,75	4,68 A++	2,19(0,60-3,61)	1095	10,30
	0,91	0,91	1,42	2,38	3,38	9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,15 4,15	8,50 A+++ 8,50 A+++	2,17(0,57-3,28) 2,17(0,58-3,29)	1085	10,40	1,05 0,98	1,05 0,98	1,64	2,75	3,91 4,34	10,40(3,40-14,50)	4,75	4,68 A++ 4,68 A++	2,19 (0,60 - 3,61) 2,23 (0,60 - 3,60)	1095	10,30
16+16+25+42+60	η <u>95</u>	U be														4,04						10,00
16+16+25+42+71 16+16+25+50+50	0,85	0,85	1,32	2,22	2,87	9,00 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,63 - 3,23)	1130	10,40	1,06	1,06	1,66	3,31	3,31	10,40(3,40-14,50)	4,54	4,68 A++	2,29 (0,70 - 3,62)	1145	10,80





Indoor unit				Cool	ing cap	acity(kW). Rooms	EER	SEER 1)	Input power	A.E.C.	Current				Heati	ing cap	acity (kW). Rooms	COP	SCOP 1)	Input power	A.E.C.	Current
capacity	A	В	C	D	E	Total (Min - Max)	W/W		rating	kWh	230V	Α		С.	D	E	Total (Min - Max)	W/W		rating	kWh	230V
16+16+25+50+71	0,81	0,81	1,26			9,00 (2,90 - 11,50)	3,96	8,50 A+++	2,27 (0,66 - 3,24)	1135	10,90	0,93	0,93	1,46	2,92	4,16	10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,71 - 3,66)	1165	10,90
16+16+25+60+60	0,81	0,81	1,28	3,05	3,05	9,00 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,63 - 3,23)	1130	10,80	0,94	0,94	1,46	3,53	3,53	10,40(3,40-14,50)	4,54	4,68 A++	2,29 (0,70 - 3,62)	1145	10,80
16+16+35+35+35	1,05	1,05				9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,21	1,21	2,66	2,66	2,66	10,40(3,40-14,50)	4,84	4,68 A++	2,15(0,51-3,60)	1075	10,10
16+16+35+35+42 16+16+35+35+50	1,00	1,00				9,00(2,90 - 11,50) 9,00(2,90 - 11,50)	4,07	8,50 A+++ 8,50 A+++	2,21 (0,49 - 3,42) 2,17 (0,57 - 3,28)	1105	10,60	1,16	1,16	2,53	2,53	3,02	10,40(3,40-14,50)	4,77	4,68 A++ 4.68 A++	2,18(0,51-3,59) 2,23(0,61-3,59)	1090	10,20
16+16+35+35+60	0,73	0,73	1,94	1,94		9,00(2,70-11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,07	1,03	2,25	2,25		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,61 - 3,59)	1115	10,50
16+16+35+35+71	0,83	0,83	1,82			9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	0,96	0,96	2,10	2,10		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,62 - 3,58)	1115	10,50
16+16+35+42+42	0,95	0,95	2,10	2,50	2,50	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,34)	1105	10,60	1,10	1,10	2,42	2,89	2,89	10,40(3,40-14,50)	4,77	4,68 A++	2,18 (0,52 - 3,64)	1090	10,20
16+16+35+42+50	0,91	0,91	1,98			9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,29)	1085	10,40	1,05	1,05	2,29	2,75		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,62 - 3,59)	1115	10,50
16+16+35+42+60	0,85	0,85	1,86			9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,29) 2,18 (0,58 - 3,29)	1085	10,40	0,98	0,98	2,15	2,58		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,62 - 3,59) 2,22 (0,63 - 3,63)	1115	10,50
16+16+35+42+71	0,86	0,86	1,73		2,69	9,00(2,70-11,50)	4,13 3,98	8,50 A+++ 8,50 A+++	2,26 (0,66 - 3,24)	1130	10,40	1,00	1,00	2,18	3,11	3,11	10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,72 - 3,65)	1165	10,40
16+16+35+50+60	0,81	0,81	1,78			9,00 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,66 - 3,24)	1130	10,80	0,94	0,94	2,06	2,94		10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,72 - 3,65)	1165	10,90
16+16+42+42+42	0,91	0,91	2,39	2,39	2,39	8,99 (2,90 - 11,50)	4,18	8,50 A+++	2,15 (0,49 - 3,34)	1075	10,30	1,06	1,06	2,76	2,76	2,76	10,40(3,40-14,50)	4,77	4,68 A++	2,18 (0,53 - 3,63)	1090	10,20
16+16+42+42+50	0,87	0,87	2,28			9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,29)	1085	10,40	1,00	1,00	2,63	2,63		10,40(3,40-14,50)	4,66	4,68 A++	2,23 [0,63 - 3,63]	1115	10,50
16+16+42+42+60	0,82	0,82	2,15			9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,57-3,29)	1085	10,40	0,95	0,95	2,48	2,48		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,63 - 3,63)	1115	10,50
16+16+42+50+50	0,83	0,83	2,16	2,59		9,00 (2,90 - 11,50) 8,99 (2,90 - 11,50)	3,96	8,50 A+++ 8,50 A+++	2,27 (0,66 - 3,24) 2,30 (0,76 - 3,27)	1135	10,90	0,96	0,96	2,50	2,99	2,99	10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,74 - 3,65) 2,48 (0,86 - 3,73)	1165	10,90
16+20+20+20+20	1,48	1,88	1,88			9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,45 - 3,49)	1100	10,50	1,72	2,17	2,17	2,17		10,40(3,40-14,50)	4,86	4,68 A++	2,14(0,46-3,68)	1070	10,10
16+20+20+20+25	1,43	1,78	1,78	1,78	2,23	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,45 - 3,49)	1100	10,50	1,65	2,06	2,06	2,06	2,57	10,40(3,40-14,50)	4,86	4,68 A++	2,14[0,46-3,68]	1070	10,10
16+20+20+20+35	1,30	1,62	1,62			9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,41)	1100	10,50	1,50	1,87	1,87	1,87		10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,48 - 3,65)	1085	10,20
16+20+20+20+42	1,22	1,53	1,53			9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,48 - 3,41)	1105	10,60	1,41	1,76	1,76	1,76		10,40(3,40-14,50)	4,81	4,68 A++	2,16 (0,48 - 3,64)	1080	10,20
16+20+20+20+50	1,14	1,43				9,00(2,90 - 11,50) 9,00(2,90 - 11,50)	4,17	8,50 A+++ 8,50 A+++	2,16 (0,54 - 3,28) 2,16 (0,54 - 3,28)	1080	10,30	1,32	1,65	1,65	1,65		10,40(3,40-14,50)	4,73	4,68 A++ 4.68 A++	2,20 (0,57 - 3,58) 2,20 (0,57 - 3,58)	1100	10,30
16+20+20+20+71	0,98	1,22	1,22			9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,13	1,41	1,41	1,41	5,04	10,40(3,40 - 14,50)	4,73	4,68 A++	2,20 (0,58 - 3,62)	1100	10,30
16+20+20+25+25	1,36	1,70	1,70			9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,45 - 3,49)	1100	10,50	1,58	1,96	1,96	2,45	2,45	10,40(3,40-14,50)	4,86	4,68 A++	2,14 (0,46 - 3,68)	1070	10,10
16+20+20+25+35	1,24	1,55	1,55	1,94	2,72	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,41)	1100	10,50	1,43	1,79	1,79	2,24	3,15	10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,48 - 3,65)	1085	10,20
16+20+20+25+42	1,17	1,46	1,46			9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,48 - 3,41)	1105	10,60	1,35	1,69	1,69	2,11	3,56	10,40(3,40-14,50)	4,81	4,68 A++	2,16 (0,48 - 3,64)	1080	10,20
16+20+20+25+50	1,10	1,37	1,37	1,72		9,00(2,90 - 11,50) 9,00(2,90 - 11,50)	4,17	8,50 A+++ 8,50 A+++	2,16 (0,54 - 3,28) 2,16 (0,54 - 3,28)	1080	10,30	1,27	1,59	1,59	1,98	3,97	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,57 - 3,58) 2,20 (0,57 - 3,58)	1100	10,30
16+20+20+25+71	0,95	1,18				9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,09	1,37	1,37	1,71	4,86	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,57 - 3,56)	1100	10,30
16+20+20+35+35	1,14	1,43	1,43	2,50	2,50	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,41)	1105	10,60	1,32	1,65	1,65	2,89	2,89	10,40(3,40-14,50)	4,84	4,68 A++	2,15(0,50-3,62)	1075	10,10
16+20+20+35+42	1,08	1,35	1,35		2,85	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,25	1,56	1,56	2,74	3,29	10,40(3,40-14,50)	4,84	4,68 A++	2,15(0,51-3,61)	1075	10,10
16+20+20+35+50	1,02	1,28	1,28			9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,57-3,28)	1085	10,40	1,18	1,48	1,48	2,58		10,40(3,40-14,50)	4,75	4,68 A++	2,19(0,60-3,61)	1095	10,30
16+20+20+35+60 16+20+20+35+71	0,95	1,19	1,19	2,09		9,00(2,90 - 11,50) 9,00(2,90 - 11,50)	4,15	8,50 A+++ 8,50 A+++	2,17 (0,57 - 3,28) 2,18 (0,58 - 3,29)	1085	10,40	1,10	1,38	1,38	2,41	4,13	10,40(3,40-14,50)	4,75	4,68 A++	2,19 (0,60 - 3,61)	1095	10,30
16+20+20+42+42	1,02	1,29	1,11	2,70		9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,10(0,38-3,27)	1105	10,40	1,18	1,49	1,49	3,12		10,40(3,40-14,50)	4,84	4,68 A++	2,15 (0,51 - 3,60)	1075	10,10
16+20+20+42+50	0,97	1,22	1,22	2,55	3,04	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,12	1,41	1,41	2,95	3,51	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,60 - 3,60)	1115	10,50
16+20+20+42+60	0,91	1,14	1,14	2,39	3,42	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,05	1,32	1,32	2,76		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,60 - 3,60)	1115	10,50
16+20+20+42+71	0,85	1,07	1,07		_	9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	0,98	1,23	1,23	2,58		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,62 - 3,59)	1115	10,50
16+20+20+50+50 16+20+20+50+60	0,94	1,15	1,15		2,88 3,26	9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	3,98	8,50 A+++ 8,50 A+++	2,26 (0,63 - 3,23)	1130	10,80	1,08	1,33	1,33	3,33	3,33	10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,71 - 3,61) 2,33 (0,71 - 3,61)	1165	10,90
16+20+20+50+71	0,81	1,00	1,00			9,00(2,70-11,50)	3,76	8,50 A+++	2,27 (0,67 - 3,24)	1135	10,90	0,94	1,18	1,18	2,94		10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,71 - 3,61)	1165	10,70
16+20+20+60+60	0,82	1,02	1,02		3,07	9,00 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,63 - 3,23)	1130	10,80	0,94	1,18	1,18	3,55	3,55	10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,71 - 3,61)	1165	10,90
16+20+25+25+25	1,29	1,62	2,03	2,03	2,03	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,45 - 3,49)	1100	10,50	1,50	1,88	2,34	2,34	2,34	10,40(3,40-14,50)	4,86	4,68 A++	2,14 (0,46 - 3,68)	1070	10,10
16+20+25+25+35	1,19	1,49	1,86	1,86		9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,41)	1100	10,50	1,38	1,72	2,15	2,15		10,40(3,40-14,50)	4,79	4,68 A++	2,17(0,48-3,65)	1085	10,20
16+20+25+25+42 16+20+25+25+50	1,13	1,41	1,76			9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,48 - 3,41) 2,16 (0,54 - 3,28)	1105	10,60	1,30	1,63	2,03 1,91	2,03 1,91	3,41	10,40(3,40-14,50)	4,81	4,68 A++	2,16 (0,48 - 3,64) 2,20 (0,57 - 3,58)	1080	10,20
16+20+25+25+60	0,99	1,23	1,54	1,54		9,00 (2,70 - 11,50)	4,17	8,50 A+++ 8,50 A+++	2,16 (0,54 - 3,28)	1080	10,30	1,14	1,42	1,71	1,78		10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,57 - 3,58)	1100	10,30
16+20+25+25+71	0,92	1,15				9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,06	1,32	1,66	1,66		10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,58 - 3,62)	1100	10,30
16+20+25+35+35	1,10	1,37	1,73	2,40	2,40	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,41)	1105	10,60	1,27	1,59	1,98	2,78	2,78	10,40(3,40-14,50)	4,84	4,68 A++	2,15 (0,50 - 3,62)	1075	10,10
16+20+25+35+42	1,04	1,30	1,63		_	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,21	1,51	1,88	2,64		10,40(3,40-14,50)	4,84	4,68 A++	2,15(0,51-3,61)	1075	10,10
16+20+25+35+50	0,99	1,23				9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28) 2,17 (0,57 - 3,28)	1085	10,40	1,14	1,42	1,78	2,49		10,40(3,40-14,50)	4,75	4,68 A++	2,19 (0,60 - 3,61)	1095	10,30
16+20+25+35+60 16+20+25+35+71	0,92	1,15	1,44			9,00 (2,90 - 11,50)	4,13	8,50 A+++ 8,50 A+++	2,17(0,57-3,28)	1085	10,40	1,07	1,33	1,67	2,33		10,40(3,40-14,50)	4,75	4,68 A++ 4,68 A++	2,19 (0,60 - 3,61) 2,23 (0,60 - 3,60)	1115	10,30
16+20+25+42+42	0,99	1,24	1,55		2,61	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,15	1,43	1,80	3,01	3,01	10,40(3,40-14,50)	4,84	4,68 A++	2,15(0,51 - 3,60)	1075	10,10
16+20+25+42+50	0,94	1,18	1,47	2,47	2,94	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,09	1,36	1,70	2,85	3,40	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,60 - 3,60)	1115	10,50
16+20+25+42+60	0,88	1,10				9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,02	1,28	1,60	2,68		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,60 - 3,60)	1115	10,50
16+20+25+42+71	0,83	1,03				9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	0,96	1,20	1,49	2,51	4,24	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,62 - 3,59)	1115	10,50
16+20+25+50+50	0,89	1,12		2,80		9,00 (2,90 - 11,50)	3,98	8,50 A+++ 8,50 A+++	2,26 (0,63 - 3,23)	1130	10,80	1,03 0,97	1,29	1,62	3,23		10,40(3,40-14,50)	4,46	4,68 A++ 4,68 A++	2,33 (0,71 - 3,61) 2,33 (0,71 - 3,61)	1165	10,90
16+20+25+50+71	0,79	0,99	1,24			9,00 (2,90 - 11,50)	3,96	8,50 A+++	2,27 (0,67 - 3,24)	1135	10,90	0,77	1,14	1,43	2,86		10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,71 - 3,61)	1165	10,70
16+20+25+60+60	0,80	0,99	1,25			9,00 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,63 - 3,23)	1130	10,80	0,91	1,15	1,44	3,45		10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,71 - 3,61)	1165	10,90
16+20+35+35+35	1,02	1,29	2,23	2,23	2,23	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,34)	1105	10,60	1,18	1,48	2,58	2,58	2,58	10,40(3,40-14,50)	4,77	4,68 A++	2,18 (0,51 - 3,59)	1090	10,20
16+20+35+35+42	0,97	1,22				9,00 (2,90 - 11,50)	4,19	8,50 A+++	2,15 (0,49 - 3,34)	1075	10,30	1,12	1,41	2,46	2,46		10,40(3,40-14,50)	4,77	4,68 A++	2,18(0,52-3,64)	1090	10,20
16+20+35+35+50	0,92	1,15				9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,57-3,29)	1085	10,40	1,07	1,33	2,33	2,33		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,62 - 3,59)	1115	10,50
16+20+35+35+60 16+20+35+35+71	0,87	1,08	1,78			9,00 (2,90 - 11,50) 9,00 (2,90 - 11,50)	4,15	8,50 A+++ 8,50 A+++	2,17 (0,57 - 3,29) 2,18 (0,58 - 3,29)	1085	10,40	1,00 0,94	1,25	2,19	2,19	3,77 4,16	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,62 - 3,59) 2,22 (0,63 - 3,63)	1115	10,50
16+20+35+35+71	0,93	1,16				9,00 (2,70 - 11,50)	4,13	8,50 A+++	2,15 (0,49 - 3,34)	1075	10,30	1,07	1,34	2,35	2,82		10,40(3,40-14,50)	4,77	4,68 A++	2,18 (0,53 - 3,63)	1090	10,20
16+20+35+42+50	0,88	1,10				9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,02	1,28	2,23	2,68		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,63 - 3,63)	1115	10,50
16+20+35+42+60	0,83	1,04	1,82			9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	0,96	1,20	2,10	2,52		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,63 - 3,63)	1115	10,50
16+20+35+50+50	0,84	1,05	1,85			9,00 (2,90 - 11,50)	3,96	8,50 A+++	2,27 (0,66 - 3,24)	1135	10,90	0,97	1,22	2,13	3,04		10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,74 - 3,65)	1165	10,90
16+20+35+50+60	0,80	0,99	1,74			9,00 (2,90 - 11,50)	3,96	8,50 A+++	2,27 (0,66 - 3,24)	1135	10,90	0,92	1,15	2,01	2,87		10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,74 - 3,65)	1165	10,90
16+20+42+42+42	0,89	1,12				9,00(2,90 - 11,50) 9,00(2,90 - 11,50)	4,19	8,50 A+++ 8,50 A+++	2,15(0,52-3,34) 2,18(0,58-3,29)	1075	10,30	1,02 0,98	1,28	2,70	2,70		10,40(3,40-14,50)	4,79	4,68 A++ 4,68 A++	2,17(0,54 - 3,62) 2,26(0,63 - 3,62)	1085	10,20
16+20+42+42+60	0,80	1,00	2,10			9,00 (2,70 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	0,78	1,16	2,43	2,43		10,40(3,40-14,50)	4,60	4,68 A++	2,26 (0,63 - 3,62)	1130	10,60
16+20+42+50+50	0,81	1,01	2,12			9,00 (2,90 - 11,50)	3,96	8,50 A+++	2,27 (0,67 - 3,24)	1135	10,90	0,93	1,17	2,46	2,92		10,40(3,40-14,50)	4,41	4,68 A++	2,36 (0,75 - 3,64)	1180	11,10
16+25+25+25+25	1,24	1,94	1,94			9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,45 - 3,49)	1100	10,50	1,44	2,24	2,24	2,24		10,40(3,40-14,50)	4,86	4,68 A++	2,14 (0,46 - 3,68)	1070	10,10
16+25+25+25+35	1,14	1,79	1,79			9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,41)	1100	10,50	1,32	2,06	2,06	2,06		10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,48 - 3,65)	1085	10,20
16+25+25+25+42	1,08	1,69	1,69	1,69	2,85	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,48 - 3,41)	1105	10,60	1,25	1,95	1,95	1,95	3,30	10,40(3,40-14,50)	4,81	4,68 A++	2,16 (0,48 - 3,64)	1080	10,20

16+25+25+25+42 1,08 1,69 1,69 1,69 2,85 9,00[2,90-11,50] 4,07 **8,50 A+++** 2,21[0,48-3,41] 1105 11,060 12,5 1,95 1,95 1,95 3,30 10,40[3,40-14,50] 4,81 4,68 A++ 2,16[0,48-3,64] 1080

Free Multi R32 combinations table

The column	Free Multi	5x′	ı Cı	J-52	Z90	ГВЕ	. Minimum	cap	acity o	onnected:	4,5 k	W. M	axi	mui	n ca	apaci	ty	connected	: 18	,3 kW ·	R32		
1.	Indoor unit capacity				Cooli	ng cap	acity(kW). Rooms	EER	SEER 1)		A.E.C.	Current				Heating	сара	acity (kW). Rooms	COP	SCOP 1)		A.E.C.	Current
Martin M		Α	В	С	D	E	Total (Min - Max)	W/W		kW	kWh	230V	Α	В	С	D	E	Total (Min - Max)	W/W		kW	kWh	230V
	16+25+25+25+50								-														10,30
No. Proceedings 1968 1969 1									-														
1.66			_														_						
14. 14. 15.	16+25+25+35+42								· ·														10,10
New Property New 19	16+25+25+35+50	0,95	1,49	1,49	2,09	2,98	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,10	1,72	1,72	2,41 3	3,45	10,40(3,40-14,50)	4,75	4,68 A++	2,19 (0,60 - 3,61)	1095	10,30
14. 14.	16+25+25+35+60	0,89	1,40	1,40	1,96	3,35	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,03	1,61	1,61	2,26 3	3,89	10,40(3,40-14,50)	4,75	4,68 A++	2,19 (0,60 - 3,61)	1095	10,30
1.00	16+25+25+35+71	0,84					9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)			0,97	1,51	1,51		_	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,60 - 3,60)		10,50
1.1. 1.1. 1.1. 1.1. 1.1. 1.1. 1.1. 1.1			_														_						10,10
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1.			_																				
1.04. 1.04.	16+25+25+50+60																_						
1.2	16+25+35+35+35	0,99	1,53	2,16	2,16	2,16		4,07	8,50 A+++	2,21 (0,49 - 3,34)	1105	10,60	1,14	1,79	2,49	2,49 2	,49	10,40(3,40-14,50)	4,77	4,68 A++		1090	10,20
1.2	16+25+35+35+42	0,94	1,47	2,06	2,06	2,47	9,00 (2,90 - 11,50)	4,19	8,50 A+++	2,15 (0,49 - 3,34)	1075	10,30	1,09	1,70	2,38	2,38 2	2,85	10,40(3,40-14,50)	4,77	4,68 A++	2,18 (0,52 - 3,64)	1090	10,20
1.42-1.57-1.67-1.67-1.67-1.67-1.67-1.67-1.67-1.6	16+25+35+35+50	0,89	1,40	1,96	1,96	2,79	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,29)	1085	10,40	1,03	1,61	2,26	2,26 3	3,24	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,62 - 3,59)	1115	10,50
1.1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	16+25+35+35+60								8,50 A+++								_			4,68 A++			10,50
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19-25-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-																	_						
1.65-1.65-1.65-1.65-1.65-1.65-1.65-1.65-																							
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1.65 1.65			_														_						10,60
14.5 14.5		0,79	1,23	2,06	2,46	2,46		3,96	8,50 A+++		1135	10,90	0,91		2,39	2,84 2	,84		4,41		2,36 (0,75 - 3,64)	1180	11,10
1.45 1.57 1.57 1.59 1.58 1.58 1.58 1.58 1.58 1.58 1.58 1.58	16+35+35+35+35	0,92	2,02	2,02	2,02	2,02	9,00 (2,90 - 11,50)	4,19	8,50 A+++	2,15 (0,52 - 3,35)	1075	10,30	1,08	2,33	2,33	2,33 2	2,33	10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,54 - 3,62)	1085	10,20
19-93-95-94-90 08	16+35+35+35+42	0,88	1,93	1,93	1,93	2,33	9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,52 - 3,35)	1080	10,30	1,02	2,23	2,23	2,23 2	2,69	10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,54 - 3,61)	1085	10,20
19-35-35-35-42-2	16+35+35+35+50	0,84					9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)				2,13	2,13		_	10,40(3,40-14,50)			2,26 (0,65 - 3,62)		10,60
19-55-95-42-96 2-90 19 19 19 29 20 23 5 8000-91-19 30 29 20 20 20 20 20 20 20 20 20 20 20 20 20	16+35+35+35+60		_														_						10,60
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2-9-2-9-2-9-2-9-2-9-2-9-3-9-3-9-3-9-3-9-																	_						
20-22-22-22-22-22-22-22-22-22-22-22-22-2		_	_														_						
20. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19			_														_						
22-22-22-22-24 18-1	20+20+20+20+35																_						10,20
22-22-22-22-24-26	20+20+20+20+42	1,48	1,48	1,48	1,48	3,08	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,41)	1105	10,60	1,70	1,70	1,70	1,70 3	3,60	10,40(3,40-14,50)	4,81	4,68 A++	2,16 (0,49 - 3,63)	1080	10,20
22-22-22-22-25-76 159 159 159 159 159 242 249 9012-29-11591 479 854	20+20+20+20+50	1,38	1,38	1,38	1,38	3,48	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,54 - 3,28)	1085	10,40	1,60	1,60	1,60	1,60 4	,00	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,58 - 3,63)	1100	10,30
22-22-22-22-23-23-24	20+20+20+20+60	1,29	1,29	1,29	1,29	3,84	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,54 - 3,28)	1085	10,40	1,49	1,49	1,49	1,49 4	,44	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,58 - 3,63)	1100	10,30
22-22-22-22-23-6	20+20+20+20+71																_						10,30
22-22-23-25-25-24 1,2 1,42 1,42 1,47 1,77 2,79 20012-91-150 1,47 8,09.0+*** 22-22-23-23-25-25-25 1,38 1,38 1,38 1,38 1,38 1,38 3,38 1,39 1,39 1,39 1,39 1,39 1,39 1,39 1,39		.,		,													<u> </u>						
22-22-22-25-50 133 133 133 133 134 147 134 9012-90-1150 145 8504************************************																	_						
22-22-22-25-57																	_						
22-22-22-25-57																	_						
22-22-23-23-54-56	20+20+20+25+71		_						-								_						10,30
22-23-23-25-25-25-24-24-24-24-35-34-34-34-34-34-34-34-34-34-34-34-34-34-	20+20+20+35+35	1,38	1,38	1,38	2,43	2,43	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,60	1,60	1,60	2,80 2	2,80	10,40(3,40-14,50)	4,84	4,68 A++	2,15(0,51-3,61)	1075	10,10
20-20-20-35-40	20+20+20+35+42	1,31	1,31	1,31	2,30	2,77	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,52	1,52	1,52	2,66 3	3,18	10,40(3,40-14,50)	4,84	4,68 A++	2,15 (0,51 - 3,60)	1075	10,10
20-20-20-35-71	20+20+20+35+50	1,24	1,24	1,24	2,17		9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,43	1,43	1,43	2,51 3	3,60	10,40(3,40-14,50)	4,66	4,68 A++		1115	10,50
20-20-20-42-42 1,25 1,25 1,25 1,25 1,26 2,26 2,28 2,879(2,90-11,50) 4,18 8,50 4++ 2,1710,57-3,28 1085 10,40 1,37 1,37 2,87 3,28 10,4013,40 1,45 0,46 4,68 4+ 2,210,61-3,59 1115 10,55 10,20 1,20 1,20 1,20 1,20 1,20 1,20 1,2																							10,50
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$ 20 + 20 + 20 + 50 + 71 \\ 20 + 20 + 20 + 60 + 70 \\ 20 + 20 + 20 + 8 \\ 20 + 20 + 20 + 60 + 60 \\ 100 \\$	20+20+20+50+50																_						10,90
$ 20+20+20+60+60+60 \\ 1,00 \\ $	20+20+20+50+60	1,06	1,06	1,06	2,65	3,17	9,00 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,66 - 3,23)	1130	10,80	1,22	1,22	1,22	3,06 3	3,68	10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,72 - 3,66)	1165	10,90
$ 20+20+25+25+25 \\ 1.56 \\ 1.5$	20+20+20+50+71	0,99	0,99	0,99	2,49	3,54	9,00 (2,90 - 11,50)	3,96	8,50 A+++	2,27 (0,67 - 3,24)	1135	10,90	1,15	1,15	1,15	2,87 4	,08	10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,74 - 3,65)	1165	10,90
	20+20+20+60+60	1,00	1,00						8,50 A+++		1130						_					1165	10,90
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	20+20+25+25+25																						10,00
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20+20+25+35+36 = 1, 3																	_						
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$20+20+25+35+60 \\ 1,05$	20+20+25+35+42										1105												10,10
$ 20 + 20 + 25 + 35 + 71 \\ 20 + 20 + 20 + 25 + 35 + 71 \\ 20 + 20 + 20 + 25 + 35 + 71 \\ 20 + 20 + 20 + 25 + 35 + 35 \\ 20 + 20 + 20 + 25 + 35 + 35 \\ 20 + 20 + 20 + 25 + 35 + 35 \\ 20 + 20 + 20 + 20 + 35 + 35 + 35 \\ 20 + 20 + 20 + 35 + 35 + 35 \\ 20 + 20 + 20 + 35 + 35 + 35 \\ 20 + 20 + 20 + 35 + 35 + 35 \\ 20 + 20 + 20 + 35 + 35 + 35 \\ 20 + 20 + 20 + 35 + 35 + 35 \\ 20 + 20 + 20 + 35 + 35 + 35 \\ 20 + 20 + 20 + 35 + 35 + 35 \\ 20 + 20 + 20 + 35 + 35 + 35 \\ 20 + 20 + 20 + 35 + 35 + 35 \\ 20 + 20 + 20 + 30 + 30 + 30 + 30 \\ 20 + 20 + 20 + 30 + 30 + 30 \\ 20 + 20 + 20 + 30 + 30 + 30 \\ 20 + 20 + 20 + 30 + 30 \\ 20 + 30 + 30 \\ 20 $	20+20+25+35+50										1085											1115	10,50
20 + 20 + 25 + 42 + 42 + 42 + 42 + 42 + 42 + 42	20+20+25+35+60	1,13	1,13	1,41	1,97	3,36	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,30	1,30	1,63	2,28 3	3,89	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,60 - 3,60)	1115	10,50
$20+20+25+42+50 \\ 1,08$	20+20+25+35+71																						10,50
$20+20+25+42+00 \\ 1,08 \\ 1,08 \\ 1,08 \\ 1,08 \\ 1,08 \\ 1,08 \\ 2,08 \\ 2,09$																	_						10,20
$ 20+20+25+42+71 \\ 20+20+25+50+50 \\ 20+20+20+35+50+50 \\ 20+20+20+35+35+50 \\ 20+20+20+35+35+50 \\ 20+20+20+35+35+50 \\ 20+20+35$	20+20+25+42+50																						10,50
$ 20 + 20 + 20 + 25 + 50 + 50 \\ 20 + 20 + 20 + 25 + 50 + 50 \\ 20 + 20 + 20 + 25 + 50 + 50 \\ 20 + 20 + 20 + 25 + 50 + 50 \\ 20 + 20 + 20 + 25 + 50 + 50 \\ 20 + 20 + 20 + 25 + 50 + 50 \\ 20 + 20 + 20 + 20 + 50 + 50 \\ 20 + 20 + 20 + 20 + 50 \\ 20 + 20 + 20 + 20 + 50 \\ 20 + 20 + 20 + 20 + 20 \\ 20 + 20 + 2$	20+20+25+42+60																_						
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$ 20 + 20 + 35 + 35 + 35 + 36 \\ 20 + 20 + 20 + 35 + 35 + 36 \\ 20 + 20 + 20 + 35 + 35 + 36 \\ 20 + 20 + 20 + 35 + 35 + 36 \\ 20 + 20 + 36 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 20 + 36 + 36 \\ 20 + 36 + 36 + 36 \\ 20 $				-																			
20+20+35+35+36+2 $1,18$ $1,18$ $2,07$ $2,07$ $2,07$ $2,09$ $9,00[2,90+11,50]$ $4,19$ $8,50$ $8++++++++++++++++++++++++++++++++++++$																	_						
20+20+35+35+50 1,13 1,7 1,97 2,80 9,00[2,90-11,50] 4,13 8,50 A+++ 2,18[0,58-3,29] 1090 10,40 1,30 1,30 2,28 2,28 3,24 10,40[3,40-14,50] 4,66 4,68 A++ 2,23[0,63-3,63] 1115 10,50	20+20+35+35+42																						10,20
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10,30 1,56 2,21 2,21 2,21 2,21 10,40(3,40-14,50) 4,79 **4,68** A++ 2,17(0,54-3,61) 1085

10,30 1,51 2,12 2,12 2,12 2,53 10,40(3,40-14,50) 4,79 **4,68 A++** 2,17(0,55-3,60) 1085

10,30 1,46 2,03 2,03 2,44 2,44 10,40(3,40-14,50) 4,73 **4,68 A++** 2,20(0,56-3,59) 1100

10.30 2.08 2.08 2.08 2.08 2.08 10.40(3.40-14.50) 4.73 4.68 A++ 2.20(0.57-3.58) 1100

10,30 2,00 2,00 2,00 2,00 2,40 10,40(3,40-14,50) 4,73 **4,68 A++** 2,20(0,57-3,63) 1100

10,40 1,44 2,02 2,02 2,02 2,90 10,40(3,40-14,50) 4,60 4,68 A++ 2,26(0,65-3,61)



Indoor unit capacity				Cool	ing cap	acity(kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current				Heati	ing cap	acity (kW). Rooms	COP	SCOP 1)	Input power rating	A.E.C.	Current
	A	В	С	D	Е	Total (Min - Max)	W/W		kW	kWh	230V	A	В	С	D	Е	Total (Min - Max)	W/W		kW	kWh	230V
20+20+35+35+71	0,99	0,99	1,74	1,74	3,54	9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 [0,61 - 3,29]	1090	10,40	1,15	1,15	2,01	2,01	4,08	10,40(3,40-14,50)	4,60	4,68 A++	2,26 (0,64 - 3,62)	1130	10,60
20+20+35+42+42	1,13	1,13	1,98	2,38	2,38	9,00 (2,90 - 11,50)	4,19	8,50 A+++	2,15 (0,52 - 3,35)	1075	10,30	1,31	1,31	2,28	2,75	2,75	10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,54 - 3,62)	1085	10,20
20+20+35+42+50	1,08	1,08	1,89	2,26	2,69	9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,25	1,25	2,18	2,62	3,10	10,40(3,40-14,50)	4,60	4,68 A++	2,26 (0,63 - 3,62)	1130	10,60
20+20+35+42+60	1,02	1,02	1,78	2,14	3,04	9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,18	1,18	2,06	2,47	3,51	10,40(3,40-14,50)	4,60	4,68 A++	2,26 (0,63 - 3,62)	1130	10,60
20+20+35+50+50	1,03	1,03	1,80	2,57		9,00 (2,90 - 11,50)	3,96	8,50 A+++	2,27 (0,67 - 3,24)	1135	10,90	1,19	1,19	2,08	2,97	2,97	10,40(3,40-14,50)	4,41	4,68 A++	2,36 (0,75 - 3,64)	1180	11,10
20+20+42+42+42	1,08	1,08	2,28	2,28		9,00 (2,90 - 11,50)	4,19	8,50 A+++	2,15 (0,52 - 3,35)	1075	10,30	1,25	1,25	2,63	2,63		10,39(3,40-14,50)	4,79	4,68 A++	2,17(0,54-3,61)	1085	10,20
20+20+42+42+50	1,03	1,03	2,17	2,17	2,60	9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,20	1,20	2,51	2,51	2,98	10,40(3,40-14,50)	4,60	4,68 A++	2,26 (0,65 - 3,61)	1130	10,60
20+20+42+50+50	0,99	0,99	2,08	2,47		9,00 (2,90 - 11,50)	3,96	8,50 A+++	2,27 (0,67 - 3,24)	1135	10,90	1,14	1,14	2,40	2,86	2,86	10,40(3,40-14,50)	4,39	4,68 A++	2,37 (0,75 - 3,69)	1185	11,10
20+25+25+25+25	1,48	1,88	1,88	1,88		9,00 (2,90 - 11,50)	4,09	8,50 A+++ 8.50 A+++	2,20 (0,48 - 3,49)	1100	10,50	1,72	2,17	2,17	2,17	2,17	10,40(3,40-14,50)	4,88	4,68 A++	2,13(0,46-3,67)	1065	10,00
20+25+25+25+35	1,38	1,73	1,73	1,73		9,00 (2,90 - 11,50)	4,07	-,	2,21 (0,48 - 3,41)	1105	10,60	1,60	2,00	2,00	2,00	2,80	10,40(3,40-14,50)	4,81	4,68 A++	2,16 (0,48 - 3,64)	1080	10,20
20+25+25+25+42	1,31	1,64	1,64	1,64		9,00 (2,90 - 11,50)	4,07	8,50 A+++ 8,50 A+++	2,21 (0,49 - 3,41)	1105	10,60	1,52	1,90	1,90	1,90	3,18	10,40(3,40-14,50)	4,81	4,68 A++	2,16 (0,49 - 3,63) 2,20 (0,58 - 3,63)	1080	10,20
20+25+25+25+50	1,16	1,45	1,45	1,45		9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,54-3,28)	1085	10,40	1,34	1,68	1,68	1,68	4,02	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,58 - 3,63)	1100	10,30
20+25+25+25+71	1,08	1,36	1,36	1,36		9,00 (2,90 - 11,50)	4,15	8.50 A+++	2,17(0,54-3,28)	1085	10,40	1,25	1,57	1,57	1,57	4,44	10,40(3,40-14,50)	4,75	4,68 A++	2,19 (0,59 - 3,61)	1095	10,30
20+25+25+35+35	1,28	1,61	1,61	2,25		9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,40	1,48	1,86	1,86	2,60	2,60	10,40(3,40-14,50)	4,73	4,68 A++	2,15(0,51-3,61)	1075	10,10
20+25+25+35+42	1,22	1,53	1,53	2,14		9,00 (2,90 - 11,50)	4,07	8.50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,41	1,77	1,77	2,48	2,97	10,40(3,40-14,50)	4,84	4,68 A++	2,15(0,51-3,60)	1075	10,10
20+25+25+35+50	1,16	1,45	1,45	2,03		9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,34	1,68	1,68	2,35	3,35	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,60 - 3,60)	1115	10,50
20+25+25+35+60	1,09	1,36	1,36	1,91	3,28	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,26	1,58	1,58	2,21	3,77	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,60 - 3,60)	1115	10,50
20+25+25+35+71	1,02	1,28	1,28	1,79		9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,18	1,48	1,48	2,07	4,19	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,62 - 3,59)	1115	10,50
20+25+25+42+42	1,18	1,46	1,46	2,45	2,45	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,34	1,69	1,69	2,84	2,84	10,40(3,40-14,50)	4,77	4,68 A++	2,18 (0,52 - 3,59)	1090	10,20
20+25+25+42+50	1,11	1,39	1,39	2,33	2,78	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,28	1,60	1,60	2,70	3,22	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,61 - 3,59)	1115	10,50
20+25+25+42+60	1,05	1,31	1,31	2,20	3,13	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,21	1,51	1,51	2,54	3,63	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,61 - 3,59)	1115	10,50
20+25+25+42+71	0,98	1,23	1,23	2,07	3,49	9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,14	1,42	1,42	2,39	4,03	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,63 - 3,63)	1115	10,50
20+25+25+50+50	1,06	1,32	1,32	2,65	2,65	9,00 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,66 - 3,23)	1130	10,80	1,22	1,53	1,53	3,06	3,06	10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,72 - 3,66)	1165	10,90
20+25+25+50+60	1,00	1,25	1,25	2,50	3,00	9,00 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,66 - 3,23)	1130	10,80	1,16	1,44	1,44	2,89	3,47	10,40(3,40-14,50)	4,46	4,68 A++	2,33 (0,72 - 3,66)	1165	10,90
20+25+35+35+35	1,20	1,50	2,10	2,10	2,10	9,00 (2,90 - 11,50)	4,19	8,50 A+++	2,15 (0,49 - 3,34)	1075	10,30	1,38	1,73	2,43	2,43	2,43	10,40(3,40-14,50)	4,77	4,68 A++	2,18 (0,52 - 3,64)	1090	10,20
20+25+35+35+42	1,15	1,43	2,01	2,01	2,40	9,00 (2,90 - 11,50)	4,19	8,50 A+++	2,15 (0,50 - 3,34)	1075	10,30	1,32	1,66	2,32	2,32	2,78	10,40(3,40-14,50)	4,77	4,68 A++	2,18 (0,53 - 3,63)	1090	10,20
20+25+35+35+50	1,09	1,36	1,91	1,91	2,73	9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,26	1,58	2,21	2,21	3,14	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,63 - 3,63)	1115	10,50
20+25+35+35+60	1,03	1,29	1,80	1,80		9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,19	1,49	2,08	2,08	3,56	10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,63 - 3,63)	1115	10,50
20+25+35+42+42	1,10	1,37	1,93	2,30		9,00 (2,90 - 11,50)	4,19	8,50 A+++	2,15 (0,52 - 3,35)	1075	10,30	1,27	1,59	2,22	2,66	2,66	10,40(3,40-14,50)	4,79	4,68 A++	2,17(0,54 - 3,62)	1085	10,20
20+25+35+42+50	1,05	1,31	1,83	2,20	2,61	9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,21	1,51	2,12	2,54	3,02	10,40(3,40-14,50)	4,60	4,68 A++	2,26 (0,63 - 3,62)	1130	10,60
20+25+35+42+60	0,99	1,24	1,73	2,08		9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,14	1,43	2,00	2,40	3,43	10,40(3,40-14,50)	4,60	4,68 A++	2,26 (0,63 - 3,62)	1130	10,60
20+25+35+50+50	1,00	1,25	1,75	2,50		9,00 (2,90 - 11,50)	3,96	8,50 A+++	2,27(0,67-3,24)	1135	10,90	1,16	1,44	2,02	2,89	2,89	10,40(3,40-14,50)	4,41	4,68 A++	2,36 (0,75 - 3,64)	1180	11,10
20+25+42+42+42	1,05	1,32	2,21	2,21	2,21	9,00 (2,90 - 11,50)	4,19	8,50 A+++ 8,50 A+++	2,15 (0,52 - 3,35) 2,18 (0,58 - 3,29)	1075	10,30	1,23	1,52	2,55	2,55	2,55	10,40(3,40-14,50)	4,79	4,68 A++	2,17(0,54-3,61)	1085	10,20
20+35+35+35+35	1,12	1,20	1,97	1,97	1,97	9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,16 (0,58 - 3,27)	1080	10,40	1,18	2,28	2,28	2,44	2,71	10,40(3,40-14,50)	4,79	4,68 A++	2,26 (0,65 - 3,61) 2,17 (0,54 - 3,61)	1085	10,80
20+35+35+35+35	1,08	1,89	1,89	1,89		9,00 (2,90 - 11,50)	4,17	8.50 A+++	2,16 (0,53 - 3,35)	1080	10,30	1,25	2,18	2,18	2,18		10,40(3,40-14,50)	4,77	4,68 A++	2,17(0,54-3,61)	1085	10,20
20+35+35+35+50	1,03	1,80	1,80	1,80		9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,19	2,08	2,08	2,08	2,97	10,40(3,40 - 14,50)	4,60	4,68 A++	2,26 (0,65 - 3,61)	1130	10,60
20+35+35+42+42	1,04	1,81	1,81	2,17		9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,53 - 3,35)	1080	10,30	1,20	2,09	2,09	2,51	2,51	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,56 - 3,59)	1100	10,30
20+35+35+42+50	0,99	1,73	1,73	2,08		9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,14	2,00	2,00	2,40	2,86	10,40(3,40-14,50)	4,60	4,68 A++	2,26 (0,66 - 3,60)	1130	10,60
20+35+42+42+42	0,99	1,74	2,09	2,09		9,00 (2,90 - 11,50)	4,17	8,50 A+++	2,16 (0,53 - 3,35)	1080	10,30	1,15	2,02	2,41	2,41	2,41	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,57 - 3,58)	1100	10,30
25+25+25+25+25	1,80	1,80	1,80	1,80	1,80	9,00 (2,90 - 11,50)	4,09	8,50 A+++	2,20 (0,48 - 3,49)	1100	10,50	2,08	2,08	2,08	2,08	2,08	10,40(3,40-14,50)	4,88	4,68 A++	2,13(0,46-3,67)	1065	10,00
25+25+25+25+35	1,67	1,67	1,67	1,67	2,32	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,48 - 3,41)	1105	10,60	1,93	1,93	1,93	1,93	2,68	10,40(3,40-14,50)	4,81	4,68 A++	2,16 (0,48 - 3,64)	1080	10,20
25+25+25+25+42	1,58	1,58	1,58	1,58	2,68	9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,41)	1105	10,60	1,83	1,83	1,83	1,83	3,08	10,40(3,40-14,50)	4,81	4,68 A++	2,16 (0,49 - 3,63)	1080	10,20
25+25+25+25+50	1,50	1,50	1,50	1,50	3,00	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,54 - 3,28)	1085	10,40	1,73	1,73	1,73	1,73	3,48	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,58 - 3,63)	1100	10,30
25+25+25+25+60	1,41	1,41	1,41	1,41	3,36	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,54 - 3,28)	1085	10,40	1,63	1,63	1,63	1,63	3,88	10,40(3,40-14,50)	4,73	4,68 A++	2,20 (0,58 - 3,63)	1100	10,30
25+25+25+25+71	1,32	1,32	1,32	1,32	3,72	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,52	1,52	1,52	1,52	4,32	10,40(3,40-14,50)	4,75	4,68 A++	2,19 (0,59 - 3,61)	1095	10,30
25+25+25+35+35	1,55	1,55	1,55	2,17	2,17	8,99 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,79	1,79	1,79	2,51	2,51	10,39(3,40-14,50)	4,83	4,68 A++	2,15(0,51-3,61)	1075	10,10
25+25+25+35+42	1,48	1,48	1,48	2,07		9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,71	1,71	1,71	2,39	2,88	10,40(3,40-14,50)	4,84	4,68 A++	2,15 (0,51 - 3,60)	1075	10,10
25+25+25+35+50	1,41	1,41	1,41	1,97	_	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,63	1,63	1,63	2,28		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,60 - 3,60)	1115	10,50
25+25+25+35+60	1,32	1,32	1,32	1,85	_	9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,53	1,53	1,53	2,14		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,60 - 3,60)	1115	10,50
25+25+25+35+71	1,24	1,24	1,24	1,74		9,00 (2,90 - 11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,44	1,44	1,44	2,01		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,62 - 3,59)	1115	10,50
25+25+25+42+42	1,42	1,42				9,00 (2,90 - 11,50)	4,07	8,50 A+++	2,21 (0,49 - 3,42)	1105	10,60	1,64	1,64	1,64	2,74		10,40(3,40-14,50)	4,77	4,68 A++	2,18 (0,52 - 3,59)	1090	10,20
25+25+25+42+50	1,35	1,35	1,35	2,26		9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17 (0,57 - 3,28)	1085	10,40	1,56	1,56	1,56	2,62		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,61 - 3,59)	1115	10,50
25+25+25+42+60	1,27	1,27	1,27	2,14		9,00 (2,90 - 11,50)	4,15	8,50 A+++	2,17(0,57-3,28)	1085	10,40	1,47	1,47	1,47	2,47		10,40(3,40-14,50)	4,66	4,68 A++	2,23 (0,61 - 3,59)	1115	10,50
25+25+25+50+50	1,29	1,29	1,29	2,56		8,99 (2,90 - 11,50)	3,98	8,50 A+++	2,26 (0,66 - 3,23)	1130	10,80	1,49	1,49	1,49	2,96		10,39(3,40-14,50)	4,46	4,68 A++	2,33 (0,72 - 3,66)	1165	10,90
25+25+35+35+35	1,45	1,45				8,99 (2,90 - 11,50)	4,18	8,50 A+++	2,15(0,49-3,34)	1075	10,30	1,67	1,67		2,35		10,39(3,40-14,50)	4,77	4,68 A++	2,18(0,52-3,64)	1090	10,20
25+25+35+35+42	1,39	1,39	1,94	1,94		9,00(2,90-11,50)	4,19	8,50 A+++	2,15(0,50-3,34)	1075	10,30	1,60	1,60	2,25	2,25		10,40(3,40-14,50)	4,77	4,68 A++	2,18(0,53-3,63)	1090	10,20
25+25+35+35+50 25+25+35+35+60	1,32	1,32	1,85	1,85		9,00 (2,90 - 11,50)	4,13	8,50 A+++ 8,50 A+++	2,18 (0,58 - 3,29)	1090	10,40	1,53	1,53	2,14	2,14		10,40(3,40-14,50)	4,66	4,68 A++ 4,68 A++	2,23 (0,63 - 3,63)	1115	10,50
25+25+35+35+60	1,33	1,25				9,00(2,90-11,50)	4,13	8,50 A+++	2,18 (0,58 - 3,29) 2,15 (0,52 - 3,35)	1075	10,40	1,54	1,54	2,02	2,02		10,40(3,40-14,50)	4,66	4,68 A++	2,23(0,63-3,63)	1115	10,50
25+25+35+42+42	1,27	1,27	1,78			9,00(2,70-11,50)	4,17	8,50 A+++	2,18 (0,58 - 3,29)	1073	10,40	1,47	1,47	2,16	2,47		10,40(3,40-14,50)	4,60	4,68 A++	2,26 (0,63 - 3,62)	1130	10,60
25+25+42+42+42		1,27				8,99 (2,90 - 11,50)	4,18	8,50 A+++	2,15 (0,52 - 3,35)	1075	10,30	1,48	1,48	2,48	2,48		10,40(3,40-14,50)	4,79	4,68 A++	2,17 (0,54 - 3,61)	1085	10,20
25+35+35+35+35						9.00(2.90 - 11.50)		8.50 A+++	2.16 (0.53 - 3.35)	1080						2,40			4,68 A++	2.17(0.54 - 3.61)		10,20

35+35+35+35+42 1,73 1,73 1,73 1,73 2,08 9,00 (2,90-11,50) 4,17 **8,50 A+++** 2,16 (0,53-3,35) 1080 11 Energy Label Scale from A+++ to D.

2.18(0.58 - 3.29) 1090

25+35+35+35 1,36 1,91 1,91 1,91 1,91 9,00(2,90-11,50) 4,17 **8,50 A+++** 2,16(0,53-3,35) 1080

25+35+35+35+42 1,31 1,83 1,83 1,83 2,20 9,00(2,90-11,50) 4,17 **8,50 A+++** 2,16(0,53-3,35) 1080

25+35+35+42+42 1,26 1,76 1,76 2,11 2,11 9,00(2,90-11,50) 4,17 **8,50 A+++** 2,16(0,53-3,35) 1080

35+35+35+35+35 1.80 1.80 1.80 1.80 1.80 9.00[2,90-11,50] 4.17 8.50 A+++ 2.16[0.53-3.35] 1080

25+35+35+35+50 1,25 1,75 1,75 1,75 2,50 9,00(2,90-11,50) 4,13 **8,50 A+++**

10.30

Multi TZ combinations table

Indoor unit capacity	С	ooling ca	pacity (kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current	H	eating ca	pacity(kW). Rooms	COP	SCOP 11	Input power rating	A.E.C.	Current
	Α	В	Total (Min - Max)	W/W		kW	kWh	230V	Α	В	Total (Min - Max)	W/W		kW	kWh	230V
1 Room																
16	1,60		1,60 (1,10 - 2,30)	3,56		0,45 (0,24 - 0,65)	225	2,15	2,60		2,60 (0,70 - 3,80)	3,42		0,76 (0,18 - 1,24)	380	3,50
20	2,00		2,00 (1,10 - 2,90)	3,51		0,57 (0,24 - 0,83)	285	2,70	3,20		3,20 (0,70 - 4,80)	3,44		0,93 (0,18 - 1,57)	465	4,30
25	2,50		2,50 (1,10 - 3,50)	3,47		0,72 (0,24 - 1,07)	360	3,40	3,60		3,60 (0,70 - 5,50)	3,24		1,11 (0,18 - 1,88)	555	5,15
35	3,50		3,50 (1,10 - 4,00)	3,24		1,08 (0,24 - 1,30)	540	5,05	4,30		4,30 (0,70 - 6,20)	3,41		1,26 (0,18 - 2,00)	630	5,85
2 Rooms																
16+16	1,60	1,60	3,20 (1,50 - 4,00)	4,21	7,10 A++	0,76 (0,27 - 1,08)	380	3,50	2,20	2,20	4,40 (1,10 - 6,30)	4,27	4,30 A+	1,03 (0,22 - 1,80)	515	4,75
16+20	1,60	2,00	3,60 (1,50 - 4,50)	4,19	7,10 A++	0,86 (0,27 - 1,25)	430	4,00	1,95	2,45	4,40 (1,10 - 6,30)	4,44	4,30 A+	0,99 (0,22 - 1,78)	495	4,60
16+25	1,60	2,50	4,10 (1,50 - 4,70)	4,14	7,10 A++	0,99 (0,27 - 1,38)	495	4,60	1,70	2,70	4,40 (1,10 - 6,30)	4,44	4,30 A+	0,99 (0,22 - 1,78)	495	4,60
16+35	1,30	2,80	4,10 (1,50 - 4,70)	4,14	7,10 A++	0,99 (0,27 - 1,38)	495	4,60	1,40	3,00	4,40 (1,10 - 6,30)	4,44	4,30 A+	0,99 (0,22 - 1,78)	495	4,60
20+20	2,00	2,00	4,00 (1,50 - 4,70)	4,08	7,10 A++	0,98 (0,27 - 1,38)	490	4,55	2,20	2,20	4,40 (1,10 - 6,30)	4,49	4,30 A+	0,98 (0,22 - 1,76)	490	4,55
20+25	1,80	2,30	4,10 (1,50 - 4,70)	4,14	7,10 A++	0,99 (0,27 - 1,38)	495	4,60	1,95	2,45	4,40 (1,10 - 6,30)	4,49	4,30 A+	0,98 (0,22 - 1,76)	490	4,55
20+35	1,50	2,60	4,10 (1,50 - 4,70)	4,14	7,10 A++	0,99 (0,27 - 1,38)	495	4,60	1,60	2,80	4,40 (1,10 - 6,30)	4,49	4,30 A+	0,98 (0,22 - 1,76)	490	4,55
25+25	2,05	2,05	4,10 (1,50 - 4,70)	4,14	7,10 A++	0,99 (0,27 - 1,38)	495	4,60	2,20	2,20	4,40 (1,10 - 6,30)	4,49	4,30 A+	0,98 (0,22 - 1,76)	490	4,55
25.25	1 70	2 / 0	/ 10 (1 E0 / 70)	/ 1/	7 10 4	0.00(0.27 1.20)	/05	/ (0	1 05	2 55	/ /0[1 10 / 20]	/ /0	/ 20 A .	0.00(0.22 1.74)	/00	/ 55

Indoor unit capacity	С	ooling ca	pacity (kW). Rooms	EER	SEER 1)	Input power rating	A.E.C.	Current	Н	eating ca	pacity (kW). Rooms	COP	SCOP 11	Input power rating	A.E.C.	Current
	Α	В	Total (Min - Max)	W/W		kW	kWh	230V	Α	В	Total (Min - Max)	W/W		kW	kWh	230V
1 Room																
16	1,60		1,60 (1,10 - 2,30)	3,56		0,45 (0,24 - 0,65)	225	2,15	2,60		2,60 (0,70 - 3,80)	3,42		0,76 (0,18 - 1,24)	380	3,50
20	2,00		2,00 (1,10 - 2,90)	3,51		0,57 (0,24 - 0,83)	285	2,70	3,20		3,20 (0,70 - 4,80)	3,44		0,93 (0,18 - 1,57)	465	4,30
25	2,50		2,50 (1,10 - 3,50)	3,47		0,72 (0,24 - 1,07)	360	3,40	3,60		3,60 (0,70 - 5,50)	3,24		1,11 (0,18 - 1,88)	555	5,15
35	3,50		3,50 (1,10 - 4,00)	3,24		1,08 (0,24 - 1,30)	540	5,05	4,50		4,50 (0,70 - 6,20)	3,36		1,34 (0,18 - 2,00)	670	6,20
42	4,20		4,20 (1,10 - 4,50)	2,90		1,45 (0,24 - 1,60)	725	6,80	5,00		5,00 (1,10 - 6,30)	2,91		1,72(0,22-2,35)	860	7,95
50	5,00		5,00 (1,20 - 5,10)	2,78		1,80 (0,25 - 1,90)	900	8,30	5,30		5,30 (1,10 - 6,30)	2,93		1,81 (0,22 - 2,33)	905	8,35
2 Rooms																
16+16	1,60	1,60	3,20 (1,50 - 4,00)	4,21	7,00 A++	0,76 (0,27 - 1,08)	380	3,50	2,65	2,65	5,30 (1,10 - 6,30)	4,31	4,20 A+	1,23 (0,22 - 1,80)	615	5,65
16+20	1,60	2,00	3,60 (1,50 - 4,50)	4,19	7,00 A++	0,86 (0,27 - 1,25)	430	4,00	2,45	3,05	5,50 (1,10 - 6,30)	4,30	4,20 A+	1,28 (0,22 - 1,78)	640	5,85
16+25	1,60	2,50	4,10 (1,50 - 5,20)	4,14	7,00 A++	0,99 (0,27 - 1,48)	495	4,60	2,15	3,35	5,50 (1,10 - 6,30)	4,30	4,20 A+	1,28 (0,22 - 1,78)	640	5,85
16+35	1,55	3,45	5,00 (1,50 - 5,20)	3,85	7,00 A++	1,30 (0,27 - 1,48)	650	6,00	1,75	3,75	5,50 (1,10 - 6,30)	4,30	4,20 A+	1,28 (0,22 - 1,78)	640	5,85
16+42	1,40	3,60	5,00 (1,50 - 5,40)	3,85	7,00 A++	1,30 (0,27 - 1,62)	650	6,00	1,55	4,15	5,70 (1,10 - 6,40)	4,35	4,20 A+	1,31 (0,22 - 1,77)	655	6,00
16+50	1,20	3,80	5,00 (1,50 - 5,40)	3,85	7,00 A++	1,30 (0,27 - 1,62)	650	6,00	1,40	4,30	5,70 (1,10 - 6,40)	4,35	4,20 A+	1,31 (0,22 - 1,77)	655	6,00
20 + 20	2,00	2,00	4,00 (1,50 - 5,00)	4,08	7,00 A++	0,98 (0,27 - 1,42)	490	4,55	2,75	2,75	5,50 (1,10 - 6,30)	4,33	4,20 A+	1,27 (0,22 - 1,76)	635	5,80
20 + 25	2,00	2,50	4,50 (1,50 - 5,20)	3,95	7,00 A++	1,14 (0,27 - 1,48)	570	5,25	2,45	3,05	5,50 (1,10 - 6,30)	4,33	4,20 A+	1,27 (0,22 - 1,76)	635	5,80
20+35	1,80	3,20	5,00 (1,50 - 5,40)	3,85	7,00 A++	1,30 (0,27 - 1,62)	650	6,00	2,05	3,65	5,70 (1,10 - 6,40)	4,35	4,20 A+	1,31 (0,22 - 1,77)	655	6,00
20 + 42	1,60	3,40	5,00 (1,50 - 5,40)	3,85	7,00 A++	1,30 (0,27 - 1,62)	650	6,00	1,85	3,85	5,70 (1,10 - 6,40)	4,35	4,20 A+	1,31 (0,22 - 1,77)	655	6,00
20 + 50	1,45	3,55	5,00 (1,50 - 5,40)	3,85	7,00 A++	1,30 (0,27 - 1,62)	650	6,00	1,65	4,05	5,70 (1,10 - 6,40)	4,35	4,20 A+	1,31 (0,22 - 1,77)	655	6,00
25 + 25	2,50	2,50	5,00 (1,50 - 5,40)	3,85	7,00 A++	1,30 (0,27 - 1,62)	650	6,00	2,85	2,85	5,70 (1,10 - 6,40)	4,35	4,20 A+	1,31 (0,22 - 1,77)	655	6,00
25+35	2,10	2,90	5,00 (1,50 - 5,40)	3,85	7,00 A++	1,30 (0,27 - 1,62)	650	6,00	2,35	3,35	5,70 (1,10 - 6,40)	4,35	4,20 A+	1,31 (0,22 - 1,77)	655	6,00
25+42	1,85	3,15	5,00 (1,50 - 5,40)	3,85	7,00 A++	1,30 (0,27 - 1,62)	650	6,00	2,15	3,55	5,70 (1,10 - 6,40)	4,35	4,20 A+	1,31 (0,22 - 1,77)	655	6,00
25+50	1,65	3,35	5,00 (1,50 - 5,40)	3,85	7,00 A++	1,30 (0,27 - 1,62)	650	6,00	1,90	3,80	5,70 (1,10 - 6,40)	4,35	4,20 A+	1,31 (0,22 - 1,77)	655	6,00
35+35	2,50	2,50	5,00 (1,50 - 5,40)	3,85	7,00 A++	1,30 (0,27 - 1,62)	650	6,00	2,85	2,85	5,70 (1,10 - 6,40)	4,35	4,20 A+	1,31 (0,22 - 1,77)	655	6,00
35+42	2,25	2,75	5,00 (1,50 - 5,40)	3,85	7,00 A++	1,30 (0,27 - 1,62)	650	6,00	2,60	3,10	5,70 (1,10 - 6,40)	4,35	4,20 A+	1,31 (0,22 - 1,77)	655	6,00



DOMESTIC INDEX

Configure in a few steps your multi split system with our online tool.





Indoor unit capacity		Coo	ling cap	acity (kW). Rooms	EER	SEER 13	Input power rating	A.E.C.	Current		Hea	ting ca	pacity (kW). Rooms	COP	SCOP 1)	Input power rating	A.E.C.	Curren
	Α	В	С	Total (Min - Max)	W/W		kW	kWh	230V	A	В	С	Total (Min - Max)	W/W		kW	kWh	230\
1 Room																		
16	1,60			1,60 (1,30 - 2,30)	3,81		0,42 (0,25 - 0,66)	210	2,10	2,60			2,60 (1,20 - 3,20)	4,06		0,64(0,30 - 1,00)	320	3,10
20	2,00			2,00 (1,80 - 2,90)	3,85		0,52(0,34-0,83)	260	2,60	3,20			3,20 (1,20 - 4,10)	4,10		0,78 (0,30 - 1,27)	390	3,80
25	2,50			2,50(1,80-2,90)	3,85		0,65(0,34-0,83)	325	3,10	3,60			3,60 (1,20 - 4,30)	3,67		0,98 (0,30 - 1,27)	490	4,70
35	3,50			3,50 (1,80 - 3,80)	3,65		0,96 (0,34 - 1,38)	480	4,30	4,50			4,50 (1,20 - 5,80)	3,54		1,27 (0,30 - 2,14)	635	6,00
42	4,20			4,20 (1,80 - 4,30)	3,02		1,39 (0,34 - 2,01)	695	6,20	5,60			5,60 (1,20 - 6,80)	3,18		1,76 (0,30 - 2,97)	880	7,80
50	5,00			5,00 (1,90 - 5,40)	3,07		1,63 (0,34 - 2,15)	815	7,60	6,80			6,80 (1,20 - 6,90)	2,89		2,35 (0,30 - 2,84)	1175	10,80
2 Rooms	1.10	1.10		0.00(4.00, 7.00)	5.00		0.4040.00.0.40	045	0.40	0.70	0.70		F 00 (4 (0 F 00)	0.00	0.00.4	40/(00/ 007)	/50	/ 10
16+16	1,60	1,60		3,20 (1,80 - 6,20) 3,60 (1,80 - 6,20)	5,08 4,68	6,10 A+	0,63 (0,33 - 2,13)	315 385	3,10 3,70	2,60	2,60 3,22		5,20 (1,40 - 7,00) 5,80 (1,40 - 7,00)	3,88	3,80 A 3,80 A	1,34 (0,34 - 2,07) 1,52 (0,33 - 2,03)	760	6,10
16+20 16+25	1,60	2,50		4,10 (1,80 - 6,20)	4,46	6,10 A+	0,77 (0,33 - 2,07)	460	4,30	2,42	3,78		6,20 (1,40 - 7,00)	3,76	3,80 A	1,65 (0,33 - 2,03)	825	7,50
16+35	1,60	3,50		5,10(1,80-6,30)	3,78	6,10 A+	1,35 (0,33 - 2,10)	675	6,20	2,13	4,67		6,80 (1,40 - 7,30)	3,70	3,80 A	1,83 (0,29 - 2,13)	915	8,30
16+42	1,43	3,77		5,20 (1,90 - 6,40)	3,74	6,10 A+	1,39 (0,35 - 2,14)	695	6,40	1,88	4,92		6,80 (1,40 - 7,30)	3,80	3,80 A	1,79 (0,31 - 2,12)	895	8,10
16+50	1,26	3,94		5,20 (1,90 - 6,40)	4,30	6,50 A+	1,21 (0,34 - 1,82)	605	5,60	1,65	5,15		6,80 (1,40 - 7,50)	4,15	4,00 A++	1,64 (0,27 - 2,00)	820	7,50
20+20	2,00	2,00		4,00 (1,80 - 6,20)	4,49	6,10 A+	0,89 (0,33 - 2,05)	445	4,20	3,20	3,20		6,40 (1,40 - 7,00)	3,74	3,80 A	1,71 (0,32 - 2,03)	855	7,80
20 + 25	2,00	2,50		4,50 (1,80 - 6,20)	4,17	6,10 A+	1,08 (0,33 - 2,05)	540	5,00	3,02	3,78		6,80 (1,40 - 7,00)	3,70	3,80 A	1,84 (0,29 - 2,03)	920	8,30
20+35	1,89	3,31		5,20 (1,80 - 6,30)	3,74	6,10 A+	1,39 (0,33 - 2,06)	695	6,40	2,47	4,33		6,80 (1,40 - 7,30)	3,80	3,80 A	1,79 (0,28 - 2,12)	895	8,10
20+42	1,68	3,52		5,20 (1,90 - 6,40)	3,82	6,10 A+	1,36 (0,35 - 2,10)	680	6,20	2,19	4,61		6,80 (1,40 - 7,30)	3,82	3,80 A	1,78 (0,30 - 2,08)	890	8,10
20 + 50	1,49	3,71		5,20 (1,90 - 6,40)	4,30	6,50 A+	1,21 (0,34 - 1,82)	605	5,60	1,94	4,86		6,80 (1,40 - 7,50)	4,15	4,00 A++	1,64 (0,27 - 2,00)	820	7,50
25 + 25	2,50	2,50		5,00 (1,80 - 6,20)	3,79	6,10 A+	1,32 (0,33 - 2,05)	660	6,00	3,40	3,40		6,80 (1,40 - 7,00)	3,70	3,80 A	1,84 (0,29 - 2,03)	920	8,30
25+35	2,17	3,03		5,20 (1,90 - 6,30)	3,74	6,10 A+	1,39 (0,35 - 2,06)	695	6,40	2,83	3,97		6,80 (1,40 - 7,30)	3,80	3,80 A	1,79 (0,28 - 2,12)	895	8,10
25+42	1,94	3,26		5,20 (1,90 - 6,40)	3,82	6,10 A+	1,36 (0,35 - 2,10)	680	6,20	2,54	4,26		6,80 (1,40 - 7,30)	3,82	3,80 A	1,78 (0,28 - 2,08)	890	8,10
25+50	1,73	3,47		5,20 (1,90 - 6,40)	4,30	6,50 A+	1,21 (0,34 - 1,82)	605	5,60	2,27	4,53		6,80 (1,40 - 7,50)	4,15	4,00 A++	1,64 (0,24 - 2,00)	820	7,50
35+35	2,60	2,60		5,20 (1,90 - 6,40)	3,94	6,10 A+	1,32 (0,35 - 2,06)	660	6,00	3,40	3,40		6,80 (1,40 - 7,50)	3,84	3,80 A	1,77 (0,27 - 2,14)	885	8,00
35 + 42	2,36	2,84		5,20 (1,90 - 6,40)	3,94	6,10 A+	1,32 (0,35 - 2,06)	660	6,00	3,09	3,71		6,80 (1,40 - 7,50)	3,84	3,80 A	1,77 (0,26 - 2,14)	885	8,00
35 + 50	2,14	3,06		5,20 (1,90 - 6,40)	4,44	6,50 A+	1,17 (0,36 - 1,73)	585	5,40	2,80	4,00		6,80 (1,40 - 7,50)	4,20	4,00 A++	1,62 (0,24 - 1,97)	810	7,40
42+42	2,60	2,60		5,20 (1,90 - 6,40)	3,94	6,10 A+	1,32 (0,35 - 2,02)	660	6,00	3,40	3,40		6,80 (1,40 - 7,50)	3,93	3,80 A	1,73 (0,26 - 2,13)	865	7,90
42+50	2,37	2,83		5,20 (1,90 - 6,40)	4,44	6,50 A+	1,17 (0,36 - 1,73)	585	5,40	3,10	3,70		6,80 (1,40 - 7,50)	4,22	4,00 A++	1,61 (0,24 - 1,97)	805	7,40
3 Rooms																		
16+16+16	1,60	1,60	1,60	4,80 (1,80 - 6,60)	4,75	7,60 A+	1,01 (0,36 - 1,79)	505	4,70	2,26	2,26	2,26	6,78 (1,50 - 7,50)	4,24	4,20 A++	1,60 (0,29 - 1,95)	800	7,30
16+16+20	1,60	1,60	2,00	5,20 (1,80 - 6,60)	4,52	7,60 A+	1,15 (0,36 - 1,80)	575	5,30	2,09	2,09	2,62	6,80 (1,60 - 7,50)	4,28	4,20 A++	1,59 (0,32 - 1,94)	795	7,30
16+16+25	1,46	1,46	2,28	5,20 (1,90 - 6,60)	4,52	7,60 A+	1,15 (0,39 - 1,80)	575	5,30	1,91	1,91	2,98	6,80 (1,60 - 7,50)	4,28	4,20 A++	1,59 (0,32 - 1,94)	795	7,30
16+16+35	1,24	1,24	2,72	5,20 (1,90 - 6,60)	4,52	7,60 A+	1,15 (0,39 - 1,75)	575	5,30	1,62	1,62	3,56	6,80 (1,60 - 7,50)	4,33	4,20 A++	1,57 (0,34 - 1,92)	785	7,20
16+16+42 16+16+50	1,12	1,12	2,96	5,20 (1,80 - 6,60) 5,20 (1,80 - 6,60)	4,52 4,86	7,60 A+	1,15(0,39 - 1,71) 1,07(0,42 - 1,59)	575 535	5,30 4,90	1,47	1,47	3,86 4,14	6,80 (1,60 - 7,50) 6,80 (1,60 - 7,50)	4,33	4,20 A++	1,57 (0,31 - 1,91) 1,46 (0,33 - 1,79)	785 730	7,20 6,70
16+10+30	1,48	1,86	1,86	5,20 (1,90 - 6,60)	4,52	7,60 A+ 7,60 A+	1,15 (0,39 - 1,75)	575	5,30	1,94	2,43	2,43	6,80 (1,60 - 7,50)	4,30	4,20 A++ 4,20 A++	1,58 (0,31 - 1,93)	790	7,20
16+20+25	1,36	1,70	2,14	5,20 (1,90 - 6,60)	4,52	7,60 A+	1,15 (0,39 - 1,75)	575	5,30	1,78	2,23	2,79	6,80 (1,60 - 7,50)	4,30	4,20 A++	1,58 (0,31 - 1,93)	770	7,20
16+20+35	1,17	1,46	2,57	5,20 (1,90 - 6,60)	4,52	7,60 A+	1,15(0,39 - 1,71)	575	5,30	1,53	1,92	3,35	6,80 (1,60 - 7,50)	4,33	4,20 A++	1,57 (0,34 - 1,91)	785	7,20
16+20+42	1,07	1,33	2,80	5,20 (1,80 - 6,60)	4,52	7,60 A+	1,15 (0,39 - 1,71)	575	5,30	1,39	1,74	3,67	6,80 (1,60 - 7,50)	4,36	4,20 A++	1,56 (0,31 - 1,90)	780	7,10
16+20+50	0,97	1,21	3,02	5,20 (1,80 - 6,60)	4,86	7,60 A+	1,07 (0,42 - 1,59)	535	4,90	1,27	1,58	3,95	6,80 (1,60 - 7,50)	4,69	4,20 A++	1,45 (0,34 - 1,78)	725	6,60
16+25+25	1,26	1,97	1,97	5,20 (1,90 - 6,60)	4,52	7,60 A+	1,15 (0,39 - 1,75)	575	5,30	1,64	2,58	2,58	6,80 (1,60 - 7,50)	4,30	4,20 A++	1,58 (0,31 - 1,93)	790	7,20
16+25+35	1,09	1,71	2,40	5,20 (1,80 - 6,60)	4,52	7,60 A+	1,15 (0,39 - 1,71)	575	5,30	1,43	2,24	3,13	6,80 (1,60 - 7,50)	4,33	4,20 A++	1,57 (0,34 - 1,91)	785	7,20
16+25+42	1,00	1,57	2,63	5,20 (1,80 - 6,60)	4,52	7,60 A+	1,15 (0,39 - 1,71)	575	5,30	1,31	2,05	3,44	6,80 (1,60 - 7,50)	4,36	4,20 A++	1,56 (0,31 - 1,90)	780	7,10
16+25+50	0,91	1,43	2,86	5,20 (1,80 - 6,60)	4,86	7,60 A+	1,07 (0,42 - 1,59)	535	4,90	1,19	1,87	3,74	6,80 (1,60 - 7,50)	4,69	4,20 A++	1,45 (0,34 - 1,78)	725	6,60
16+35+35	0,96	2,12	2,12	5,20 (1,80 - 6,60)	4,68	7,60 A+	1,11 (0,39 - 1,71)	555	5,10	1,26	2,77	2,77	6,80 (1,60 - 7,50)	4,39	4,20 A++	1,55 (0,32 - 1,89)	775	7,10
16+35+42	0,89	1,96	2,35	5,20 (1,80 - 6,60)	4,68	7,60 A+	1,11 (0,39 - 1,67)	555	5,10	1,17	2,56	3,07	6,80 (1,60 - 7,50)	4,42	4,20 A++	1,54 (0,32 - 1,88)	770	7,00
20 + 20 + 20	1,73	1,73	1,73	5,19 (1,90 - 6,60)	4,51	7,60 A+	1,15 (0,39 - 1,75)	575	5,30	2,26	2,26	2,26	6,78 (1,60 - 7,50)	4,29	4,20 A++	1,58 (0,31 - 1,93)	790	7,20
20+20+25	1,60	1,60	2,00	5,20 (1,90 - 6,60)	4,52	7,60 A+	1,15 (0,39 - 1,75)	575	5,30	2,09	2,09	2,62	6,80 (1,60 - 7,50)	4,30	4,20 A++	1,58 (0,31 - 1,93)	790	7,20
20 + 20 + 35	1,39	1,39	2,42	5,20 (1,90 - 6,60)	4,68	7,60 A+	1,11 (0,39 - 1,71)	555	5,10	1,81	1,81	3,18	6,80 (1,60 - 7,50)	4,36	4,20 A++	1,56 (0,34 - 1,90)	780	7,10
20 + 20 + 42	1,27	1,27	2,66	5,20 (1,80 - 6,60)	4,68	7,60 A+	1,11 (0,39 - 1,71)	555	5,10	1,66	1,66	3,48	6,80 (1,60 - 7,50)	4,39	4,20 A++	1,55 (0,32 - 1,90)	775	7,10
20+20+50	1,16	1,16	2,88	5,20 (1,80 - 6,60)	4,86	7,60 A+	1,07 (0,42 - 1,59)	535	4,90	1,51	1,51	3,78	6,80 (1,60 - 7,50)	4,69	4,20 A++	1,45 (0,34 - 1,77)	725	6,60
20+25+25	1,48	1,86	1,86	5,20 (1,90 - 6,60)	4,52	7,60 A+	1,15 (0,39 - 1,75)	575	5,30	1,94	2,43	2,43	6,80 (1,60 - 7,50)	4,30	4,20 A++	1,58 (0,31 - 1,93)	790	7,20
20+25+35	1,29	1,63	2,28	5,20 (1,90 - 6,60)	4,68	7,60 A+	1,11 (0,39 - 1,71)	555	5,10	1,69	2,13	2,98	6,80 (1,60 - 7,50)	4,36	4,20 A++	1,56 (0,34 - 1,90)	780	7,10
20+25+42	1,20	1,49	2,51	5,20 (1,80 - 6,60)	4,68	7,60 A+	1,11(0,39 - 1,71)	555	5,10	1,56	1,95	3,29	6,80 (1,60 - 7,50)	4,39	4,20 A++	1,55 (0,32 - 1,90)	775	7,10
20+25+50	1,09	1,37	2,74	5,20 (1,80 - 6,60)	4,86	7,60 A+	1,07 (0,42 - 1,59)	535	4,90	1,43	1,79	3,58	6,80 (1,60 - 7,50)	4,69	4,20 A++	1,45 (0,34 - 1,77)	725	6,60
20+35+35	1,16	2,02	2,02	5,20 (1,80 - 6,60)	4,68	7,60 A+	1,11(0,39 - 1,67)	555	5,10	1,52	2,64	2,64	6,80 (1,60 - 7,50)	4,42	4,20 A++	1,54 (0,32 - 1,88)	770	7,00
25 + 25 + 25	1,73	1,73	1,73	5,19 (1,90 - 6,60)	4,51	7,60 A+	1,15 (0,39 - 1,75)	575	5,30	2,26	2,26	2,26	6,78 (1,60 - 7,50)	4,29	4,20 A++	1,58 (0,31 - 1,93)	790	7,20
25+25+35 25+25+42	1,53	1,53	2,14	5,20 (1,90 - 6,60) 5,20 (1,80 - 6,60)	4,68	7,60 A+	1,11 (0,39 - 1,71) 1,11 (0,39 - 1,71)	555 555	5,10 5,10	1,85	2,00 1,85	2,80 3,10	6,80 (1,60 - 7,50) 6,80 (1,60 - 7,50)	4,36	4,20 A++ 4,20 A++	1,56 (0,31 - 1,90) 1,55 (0,68 - 1,90)	780	7,10
														4,39			775	7,10

1) Energy Label Scale from A+++ to D.

PACI





Panasonic Commercial air to air

Panasonic has developed an impressive range of highly efficient Commercial Air Conditioners. This range confirms our commitment to the environment, with our highly efficient inverter compressor technology to optimise performance.

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Highlighted features

PACi: Commercial air to air. The compact and high efficiency solution for shops, restaurants, offices or residential applications.



Great savings and improved comfort. Panasonic has developed an impressive range of highly efficient Commercial air conditioners, with our highly efficient inverter compressor technology to optimise performance.

PACI

A wide range for industry, office or residential application. With configuration from 1:1 to 4:1, Panasonic can offer the most comfortable climate with solutions designed for every environment. The diverse array of connectivity and control systems allows you to manage your units from various locations. Receive real-time status updates and maintenance alerts, while optimising costs and energy usage.

Energy saving



R32 refrigerant.

Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP). An important step to reduce greenhouse gases. R32 is also a component refrigerant, making it easy to recycle.



Econavi.

Intelligent Human Activity Sensor and Sunlight Sensor technologies that can detect and reduce waste energy, by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.



Exceptional seasonal cooling efficiency based on the ErP regulation.

Higher SEER ratings mean greater efficiency - year-round cooling savings!



Exceptional seasonal heating efficiency based on the ErP regulation.

Higher SCOP ratings mean greater efficiency - year-round heating savings!



Inverter Plus System.

Inverter Plus System classification highlights Panasonic's highest performing systems.



Inverter.

The Inverter range provides greater efficiency and comfort. Provides more precise temperature control, without highs and lows, and keeps the ambient temperature constant with lower energy consumption and a significant reduction in noise and withstipp levels.



High efficiency compressor.

Compressors that operate with a wider Hz range realize a more efficient operation throughout the year. For Big PACi Series.



Panasonic R2 rotary compressor.

Designed to withstand extreme conditions, it delivers high performance and efficiency.



Better efficiency and value for domestic hot water.

Energy efficiency class up to A+ in a scale from A+ to F. For PRO-HT tank.



Better efficiency and value for low temperature applications.

On an energy efficiency scale from D to A+++, both the PACi Water Heat Exchanger and the PRO-HT provide A++ rated heating.

High performance



Down to -15 °C in

cooling mode.
The air conditioner works in cooling mode when the outdoor temperature

of -15 °C.



Down to -20 °C in

heating mode. All our commercial

systems operate in heating to -15 °C, with models capable of up to -20 °C.



Up to 46 °C in cooling nan-

e. mode.
ercial System works in
ate in cooling mode at
5 °C, outdoor temperature
apable up to 46 °C. For PACi
C. with Water Heat



nanoe™ X.

Technology with the benefits of hydroxyl radicals has the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise.



Bluefin.

Panasonic has extended the life of its condensers with an original anti-rust coating. For Big PACi Series.



Large fan.

Large fan provides larger air flow rate and very quiet operation at low speed. For Big PACi Series.



DC fan.

Safe and precise.



Filter included.Adaptive ducted with filter included.



Super Quiet. With Super Quiet

technology our devices are quieter than a library (30 dB(A)).



Exchanger

More comfort with

Aerowings.
Direct air flow to the ceiling, creating a shower cooling effect with built-in twin flap.



DHW.

With PRO-HT Tank you can also heat your domestic hot water at a very low cost with the optional hot water cylinder.



High temperature. With PRO-HT Tank, maximum water outlet temperature up

to 65 °C

TEMPERATURE

gh temperature.
th PRO-HT Tank,



R410A / R22 renewal.

The Panasonic renewal system allows good quality existing R410A or R22 pipe work to be re-used whilst installing new high efficiency R32 systems.



5 Years compressor warranty.

We guarantee the outdoor unit compressors in the entire range for five years.

High connectivity



Panasonic AC Smart Cloud.

The AC Smart Cloud from Panasonic allows you to have complete control of all your installations. In a simple click, receive status updates from all your units in real-time, preventing breakdowns and optimising costs.



Internet control.

A next generation system providing user-friendly remote control of air conditioning or heat pump units from everywhere, using a simple Android^M or iOS smartphone, tablet or PC via the internet.



BMS connectivity.

The communication port can be integrated into the indoor unit and provides easy connection to, building management system, providing control of your Panasonic heat pump.



Domestic integration to P-Link - CZ-CAPRA1.

Can connect RAC range to P-Link Full control is now possible.



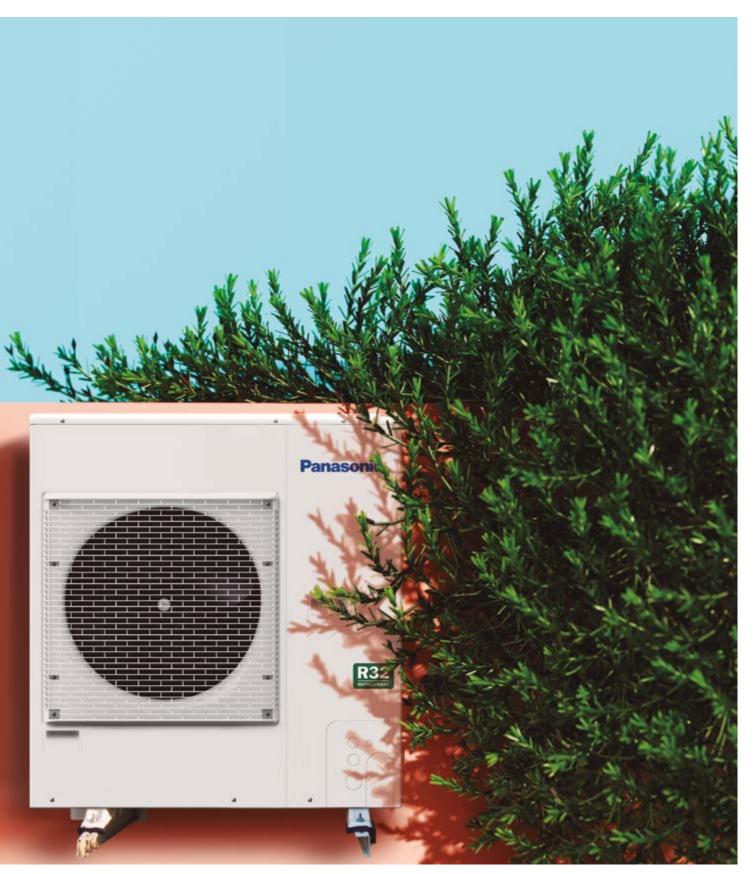
Advanced control.

A touch screen remote controller is included as a standard. Clean design, easy operation and quick access to all menus.

Product quality and safety

All Panasonic air conditioners undergo strict quality and safety tests before sale. This rigorous process includes obtaining all necessary safety approvals, to ensure that all air conditioners we sell are not only built to the highest market standards, but are also completely safe.





Professional air conditioners with R32 refrigerant

Panasonic recommends R32, with lower Global Warming Potential (GWP). Compared to R22 and R410A, R32 has a low potential impact on global warming.

Panasonic takes action in helping to protect the environment. In line with the European countries participating in the Montreal Protocol, protecting the ozone layer and preventing global warming, Panasonic is leading the switch to R32.

1

Installation innovation

- \cdot Extremely easy to install, practically the same as R41NA
- · Single substance refrigerant, which makes it easier to recycle and reuse

2

Environmental innovation

- · Zero impact on the ozone layer
- · 75 % less impact on global warming

3

Economic and energy consumption innovation

- · Lower cost and greater savings
- · Higher energy efficiency than R410A



PACi NX Elite: Top-tier commercial air conditioning

Outstanding performance at extreme ambient temperatures with very high energy efficiency both in heating and cooling. Fans, fan motors, compressors and heat exchangers engineered for maximum savings result in higher seasonal efficiencies, which ranks as one of the best in the industry, ensuring reduced ${\rm CO_2}$ emissions, energy consumption and operating costs.

From 3,6 to 14,0 kW.

- \cdot Meeting all necessary approvals to ensure quality and safety
- · Top class SEER: A+++ / SCOP: A+++ at 3,6 kW (in 90x90 cassette)

- Cooling operation is possible with outdoor temperature as high as 48 °C (for 7.1 kW and higher capacities)
- Precise control with DC inverter technology for even more energy saving
- Cooling operation at -20 °C (10,0 kW to 14,0 kW with 30 m maximum pipe length)
- Heating operation at ambient temperature as low as -20 °C
- · Compact outdoor units
- · Auto restart after power outage
- \cdot Twin, triple and double-twin connections

PACi NX Standard: For economy and value

With high quality design and engineering, the PACi NX Standard are the perfect solutions for projects which demand quality on a limited budget. In addition, compact and lightweight design makes them ideal for installations with limited space including small commercial and residential applications. The slim and lightweight outdoor unit design enables installation even in very challenging locations.

From 2,5 to 14,0 kW.

 \cdot Extended range of outdoor units starting from 2,5 kW

- · Great balance of system cost and performance
- Top class SEER / SCOP in the standard inverter category SEER: A++ / SCOP: A++ up to 7,1 kW (in 90x90 cassette)
- · Variety of individual and central controllers which provides full flexibility
- · Compact outdoor units, small footprint and lightweight
- · Twin connection possible
- \cdot Cooling operation down to -10 °C and heating operation down to -15 °C

Big PACi Elite R32

20,0 – 25,0 kW is ideally suited for small and mid retail applications.

In addition to its lightweight, split-able, compact body, the newly designed hide-away unit enables easy installation and pipe work within a narrow void.

Panasonic Big PACi : Environmental friendly, strong and flexible.

 High efficiency with Panasonic compressor as the driving force

- · Compact and light indoor body
- · Easy pipe work with split-able hide-away indoor design
- · Separable indoor unit allows for flexible installation to fit in narrow void
- · Water heat exchanger and AHU connection compatibility
- · Bluefin anti-corrosion coating of the heat exchanger as standard
- · Wide range of controls including Cloud Control compatibility

PACi NX Series. The next generation is here

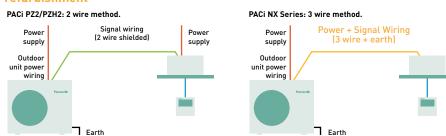
NX Series with R32 refrigerant has been developed to meet the demand of easy refurbishment with 3 wired method.

Integrated with IoT solutions and includes nanoe™ X function as standard.



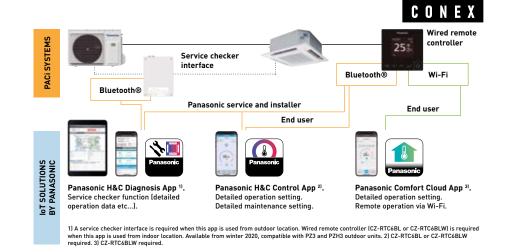
PACi NX Series for absolute ease of refurbishment

This series have been developed with 3 wired power and communication. It makes it simple and easy to replace old systems with 3 wire connections, which is prevalent in many systems.



CONEX with IoT integration
The wired remote controller series is fully integrated with IoT solutions developed by Panasonic.
Detailed operation, maintenance setting and service operation are all possible with smartphone or tablet.



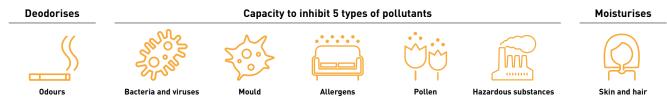


Let Panasonic take care of indoor air quality



Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances. This unique technology is equipped to provide better air quality whether residential or commercial.

7 effects of nanoe™ X - Panasonic unique technology.



The nanoe $^{\text{TM}}$ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe $^{\text{TM}}$ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

REFER TO PAGE 10 FOR MORE DETAILS AND VALIDATION DATA



Increasing the efficiency

The PACi NX Series have improved seasonal efficiencies in both heating and cooling versus the previous generation.

	-						1	•			1		(1		0	V	De	
	W	all-mou	nted - P	КЗ	4 1	way cass	sette - P	Y3	4	way cas	ette - PU	3		Ceiling	g - PT3		А	daptive d	ucted - Pl	F3
	El	ite	Stan	dard	El	ite	Stan	dard	El	ite	Stan	dard	El	ite	Stan	dard	El	ite	Stan	dard
kW	SEER /η _{s,c}	SCOP / η _{s,h}	SEER / η _{s,c}	SCOP / $\eta_{s,h}$	$_{\eta_{s,c}}^{\text{SEER}/}$	SCOP / $\eta_{s,h}$	SEER / η _{s,c}	SCOP / $\eta_{s,h}$	SEER / $\eta_{s,c}$	$\begin{array}{c} \text{SCOP} / \\ \eta_{\text{s,h}} \end{array}$	SEER / η _{s,c}	$\begin{array}{c} \text{SCOP /} \\ \eta_{\text{s,h}} \end{array}$	SEER / η _{s,c}	SCOP / $\eta_{s,h}$						
2,5							A++	A++												
3,6	A++	A++	A++	A+	A++	A++	A++	A+	A+++	A+++	A++	A++	A++	A++	A++	A+	A++	A+	A+	A+
5,0	A++	A++	A++	A+	A++	A++	A++	A+	A++	A++	A++	A++	A++	A++	A++	A+	A++	A+	A++	A+
6,0	A++	A++	A++	A++	A++	A+	A++	A+	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
7,1	A++	A++	A+	A+					A++	A++	A++	A++	A++	A++	A+	A+	A++	A++	A++	A+
10,0	A++	A+	A++	Α					A++	A++	A++	A+	A++	A++	A++	A+	A++	A+	A++	Α
12,5									304,3 %	186,0 %	267,0 %	157,0 %	278,4 %	181,0 %	241,7 %	147,4 %	281,7 %	170,0 %	257,4 %	142,6 %
14,0									286,6 %	181,2 %	257,0 %	152,2 %	263,3 %	178,0 %	228,8 %	145,3 %	275,9 %	171,0 %	252,2 %	140,6 %

^{*} Energy label scale from A+++ to D for models below 12,0 kW (EU regulation 626/2011).

^{*} $\eta_{s,c}$ / $\eta_{s,h}$ values for models above 12,0 kW (EN 14825).

CONEX. Devices and apps

CONEX provides comfort and control for varying user needs. Accessible, flexible and scalable with different controllers and apps. Perfectly meeting requirements of modern controls for end user, installer and service. With nanoe $^{\text{TM}}$ X function, technology with the benefits of hydroxyl radicals.











Intuitive control with stylish design

- Simple operation at a glance
- Clean face with full flat and black LCD display
- Compact body, only 86x86 mm

Control comfort with your smartphone

- · Flexible control options with IoT integration
- Panasonic H&C Control App for daily remote control operation
- Panasonic Comfort Cloud App for remote operation 24/7/365

Easy maintenance with service support app

- Quick and easy app set-up for system setting
- Panasonic H&C Diagnosis App enables the user to obtain detailed system operation data
- * The use of apps depends on the remote controller model.

CONEX with IoT integration

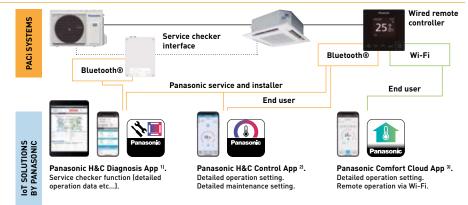
CONEX

The wired remote controller series is fully integrated with IoT solutions developed by Panasonic.

Detailed operation, maintenance setting and service operation are all possible with smartphone or tablet.



https://youtu.be/_USzG_9f6bk



1) A service checker interface is required when this app is used from outdoor location. Wired remote controller (CZ-RTC6BL or CZ-RTC6BLW) is required when this app is used from indoor location. Available from winter 2020, compatible with PZ3 and PZH3 outdoor units. 2) CZ-RTC6BL or CZ-RTC6BLW required.

Model	CZ-RTC6	CZ-RTC6BL	CZ-RTC6BLW
Wired connection compatible with	PACi, PACi NX, ECOi, GHP	PACi, PACi NX, ECOi, GHP	PACi NX only
Wireless functions	No wireless capability	Bluetooth®	Bluetooth® + Wi-Fi
App compatibility			
Panasonic Comfort Cloud App	-	_	✓
Panasonic H&C Control App	-	✔ PACi, PACi NX, ECOi, GHP	✔ PACi NX only
Panasonic H&C Diagnosis App 1)	_	✔ PACi NX only ²	✔ PACi NX only ²
Outdoor unit settings (remote controller connected to indoor unit)	✔ PACi NX only ²	✔ PACi NX only ²	✔ PACi NX only ²⁾

Commercial Wi-Fi Adaptor

Panasonic CZ-CAPWFC1 interface adaptor, allows connection of one or a group of indoor units to Panasonic Comfort Cloud App, which provides control, monitoring, scheduling and error alerts.







Advanced smartphone control

Control PACi, ECOi and ECO G indoor units with your smartphone from wherever and whenever you are, by using Panasonic Comfort Cloud App and Commercial Wi-Fi Adaptor. This scalable solution is ideal for one system, one site or multiple locations. Coupling the adapter with the already feature rich systems, makes it an ideal solution for residential and commercial applications.

From 1 to 200 units

User can control up to 10 different sites, with up to 20 units / groups per site. Additionally, one adaptor can be connected to 1 indoor or to a group of up to 8 indoors.

Voice control compatible

When registering the unit to Panasonic Comfort Cloud App it makes compatible with most popular voice assistants. Multi user

The Panasonic Comfort Cloud App allows multi-user access control. Restrict user access to specific units.

Easy scheduling

Complex weekly scheduling made simple. Not only for one unit, but across multiple sites and from a smartphone.

Energy monitor

See the estimated power consumption and compare with other periods, to see how energy consumption can be reduced even more. Check list of units that provides consumption*.

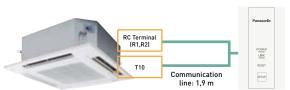
* Function available depending on the model.

Error codes

Error code notification through the App, provides early notification and allows for faster repair.

Connection Diagram

Commercial Wi-Fi Adaptor wiring length is 1,9 m and connects to indoor unit thru T10 connector and R1/R2 terminal connectors.



Wireless LAN

Download free app: Panasonic Comfort Cloud App.

Other hardware requirements: Router and Internet (purchase and subscribe separately).

Panasonic Cloud Server is designed, operated and managed by Panasonic







Input Voltage	DC 12 V (supplied from T10 connector)
Power Consumption	Maximum 2,4 W
Size (HxWxD)	120 x 70 x 25 mm
Weight	190 g (including communications lines)
Interface	1 x Wireless LAN
Wireless LAN Standard	IEEE 802,11 b/g/n
Frequency Range	2,4 GHz band
Operating range	0 ~ 55 °C, 20 ~ 80 RH%
Connectable indoor unit	1 unit
Length of communication	1,9 m (included in the shipment)

Bringing nature's balance indoors



nanoe™ X, technology with the benefits of hydroxyl radicals.

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe $^{\text{TM}}$ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be, whether at home, work, or visiting hotels, shops and restaurants etc.

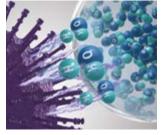


Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent – hydroxyl radicals – indoors to help create an ideal environment

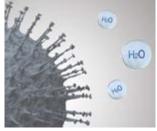
Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



1 | nanoe™ X reliably reaches pollutants.



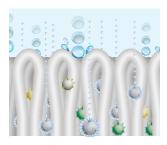
2 | Hydroxyl radicals denature pollutants



3 | Pollutants activity is inhibited.

What is unique about nanoe™ X?

Effective on fabrics and surfaces.



1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

Longer lifespan.



2 | Contained in tiny water particles, nanoe™ X has a longer lifespan to spread easily around the room.

Huge quantity.



3 | nanoe X Generator Mark 2 produces 9,6 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

Maintenance-free.



The image shows nanoe X Generator Mark 2.

No maintenance. no

4 No maintenance, no replacement required. nance™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titatium.

7 effects of nanoe™ X - Panasonic unique technology

Deodorises

Capacity to inhibit 5 types of pollutants

















Refer to https://aircon.panasonic.eu for more details and validation data.

nanoe™ X, internationally-validated technology in testing facilities

The effectiveness of nanoe™ X technology has been tested by 3rd party laboratories in Germany, France, Denmark, Malaysia and Japan.

The nanoe $^{\text{TM}}$ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

Test results conducted under controlled laboratory conditions. Performance of nanoe $^{\text{TM}}$ X might differ in real life environment.

	Tes	ted contents	Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Bacteriophage ФX174	99,7 % inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
Airb	Bacteria	Staphylococcus aureus	99,9 % inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	2016_0279
		SARS-CoV-2	91,4 % inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	99,9 % inhibited	45 L	2 h	Texcell (France)	1140-01 A1
	Virus	Xenotropic murine leukemia virus	99,999 % inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	_
bere		Influenza (H1N1 subtype)	99,9 % inhibited	1 m³	2 h	Kitasato Research Center for Environmental Science	21_0084_1
Adhered		Bacteriophage ФX174	99,80% inhibited	25 m³	8 h	Japan Food Research Laboratories	13001265005-01
	Bacteria	Staphylococcus aureus	99,9 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Ambrosia pollen	99,4 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Odours	Cigarette smoke odour	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04

First nanoe™ device was developed by Panasonic in 2003

Generator

nanoe™

Mark 1 - 2016

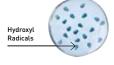
Mark 2 - 2019

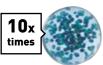
2003 480 billion hydroxyl radicals/sec

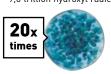
4,8 trillion hydroxyl radicals/sec

9,6 trillion hydroxyl radicals/sec

Ion particle structure







nanoe™ X

nanoe™ X: improving protection 24/7



Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long, nanoe TM X works together with heating or cooling function when the during the day and can work independently when the area is not occupied.

Give the air conditioning the strength to increase the protection of your indoor spaces with nanoe™ X technology and convenient control via the Panasonic Comfort Cloud App.



Cleans the air when you are away.

Leave the nanoe™ mode ON to inhibit certain pollutants and deodorise before you return home.

Improves your environment when you are at home.

Enjoy a cleaner, comfortable space with loved ones.

Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment



Wall-mounted. Built-in nanoe X Generator Mark 2.



Ceiling. Built-in nanoe X Generator Mark 2.



4 Way 90x90 cassette. Built-in nanoe X Generator Mark 1.



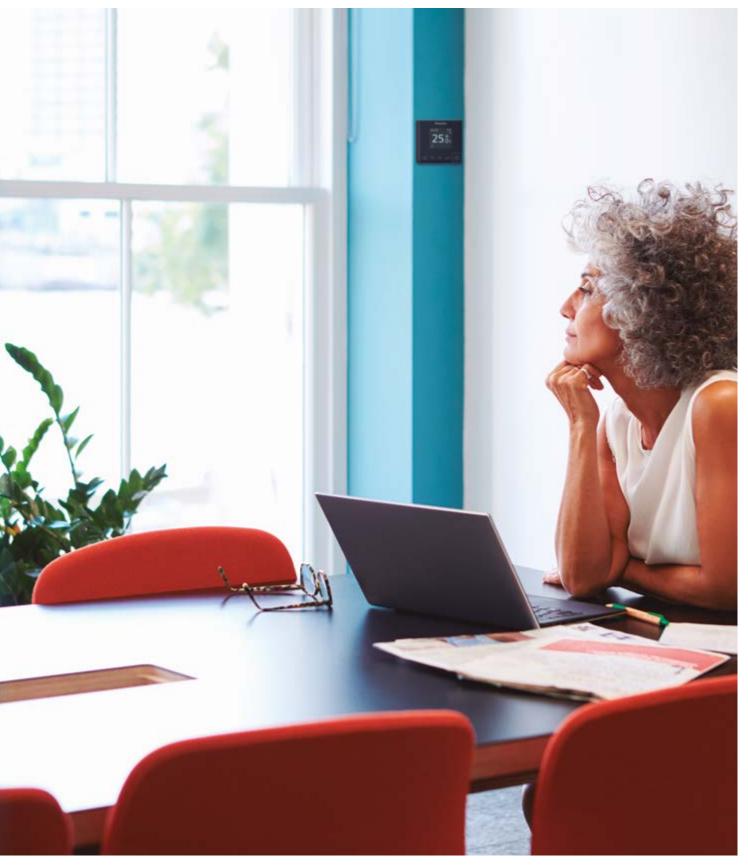
Adaptive ducted unit. Built-in nanoe X Generator Mark 2.



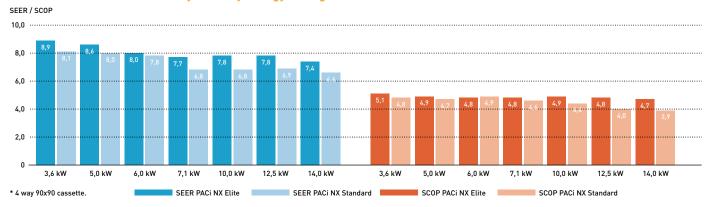
4 Way 60x60 cassette. Built-in nanoe X Generator Mark 2.

PACi NX: Excellent SEER and SCOP values

High operating efficiency using DC inverter compressor, DC motor and a heat exchanger design.

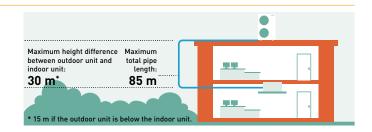


PACi NX R32 seasonal efficiency for daily energy saving



Increased piping length for greater design flexibility

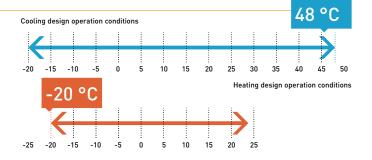
Adaptable to various building types and sizes. Maximum piping length: 85 m (10,0, 12,5, 14,0 kW). 50 m (7,1 kW).



PACi NX Elite design operation conditions

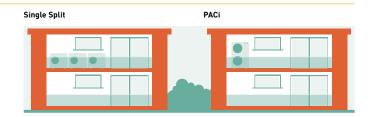
PACi NX elite series are capable of working even in the most difficult ambient conditions. Cooling operation is possible when outdoor temperature is as low as -20 $^{\circ}$ C¹ or as high as 48 $^{\circ}$ C². Heating operation can also be utilized at outdoor temperatures down to -20 $^{\circ}$ C when outdoor temperature is as low as -20 $^{\circ}$ C.

1) It is possible to operate at -20 $^{\circ}$ C only computer rooms with the piping length of 30 m or less. 2) Please check technical tables for further details on operating temperature.

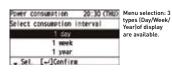


Compact and flexible-design

The slim and lightweight design means the PACi outdoor unit can be installed in a number of compact situations. As the unit only weighs 99kg, it is easy to carry and easy to install.

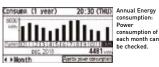


Energy consumption monitoring display with the CZ-RTC5B









Datanavi, a new way to connect.

Simple and easy support tool with your smartphone.

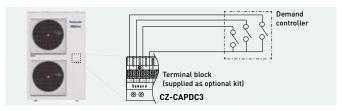


Demand response compliant (CZ-CAPDC3) as a standard function for 20,0 - 25,0 kW outdoor units

This terminal allows demand control of the outdoor unit. Several setting levels are available:

- · Level-1, 2, 3: 75 / 50 / 0 %
- Level-1, 2 can be set in 40 100 % (40, 45, 50...95, 100: each 5 %)

CZ-CAPDC3 also allows for forced stop which can be used for fire-alarm connection on LV3.

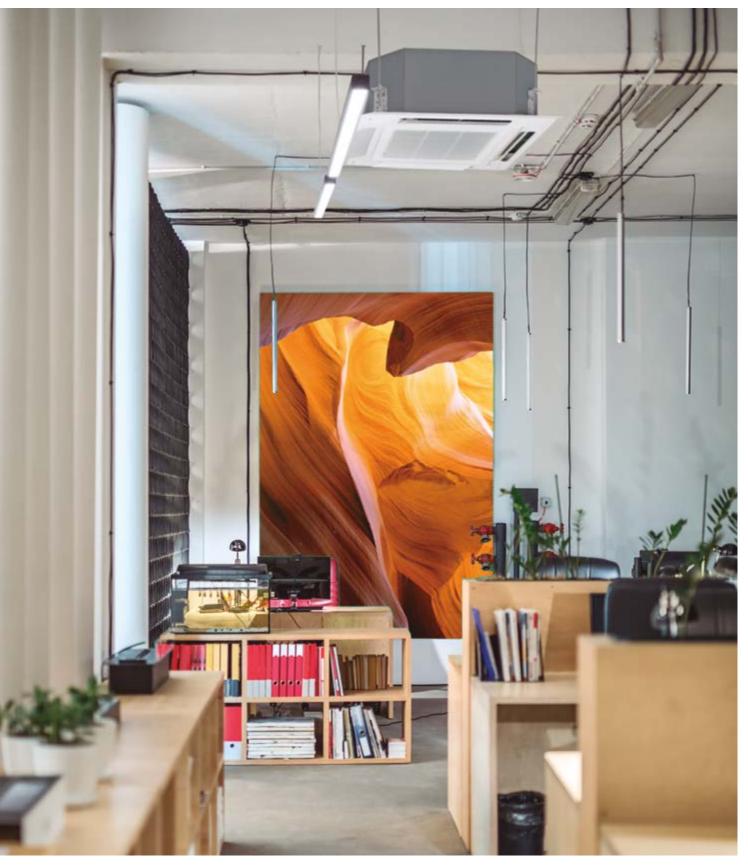


S datanavi

PACi NX 4 way 90x90 cassette - PU3



These cassettes offer upgraded nanoe $^{\text{TM}}$ X and Econavi technologies to make the room air more comfortable and healthy and to increase the energy efficiency.





Improved indoor air quality with nanoe™ X and fresh air intake

- nanoe™ X technology equipped as standard for improved indoor air quality
- · Internal cleaning function for the unit with $nanoe^{TM} X$
- · High external fresh air intake volume with optional kit (CZ-FDU3 + CZ-ATU2)

Superior energy efficiency and comfort

- · High seasonal efficiency both in heating and cooling, maximum SEER / SCOP = A+++ / A+++
- · Econavi: Intelligent sensors to increase energy savings and comfort
- · Super quiet operation down to 27 dB(A)

Easy installation

- · Light weight, easy piping and integrated drain pump for quick installation
- · Wired remote controller CZ-RTC6BL allows easy system setting via Bluetooth®

Always fresh and clean air with nanoe™ X

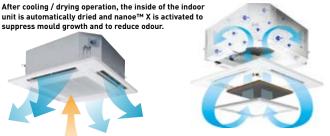
The 4 way 90x90 cassette with nanoe™ X, when tested, has shown to inhibit hazardous substances by 92 %, when compared to natural reduction*.

In addition to the 7 effects of nanoe™ X, the indoor unit can also be cleaned with a short operation of nanoe™ X + dry mode.

* Controllers (CZ-RTC5B or CZ-RTC6/BL/BLW) are required.



Operates the fan to discharge internal humidity.



Operate the fan to circulate nanoe™ X internally.

nanoe™ X effect against odour proven in large space

92 % of hexadecane²¹ is inhibited after 8-hours exposure in room side 267 m².

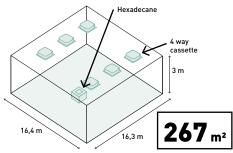
8 hours later

Hexadecane inhabitation ratio. 14 % 8N **92** % 60 inhibited With Initial Natural Initial reduction

Test ambient.

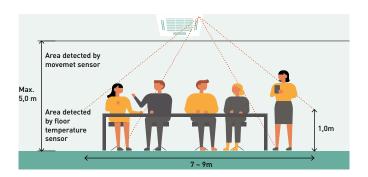
3rd party certification organization SIRIM³ conducted the performance experiment of 4 way cassette equipped with nanoe X Generator Mark 1 device in inhibiting hexadecane, a chemical contaminant.

2) Hexadecane is a hazardous substance contained in gasoline and diesel exhaust gas, and considered to be one cause of oil odour. 3| SIRIM Berhad [SIRIM], a premier industrial research and technology organization in Malaysia, wholly-owned by the Ministry of Finance Incorporated.



Optional Econavi intelligent sensor

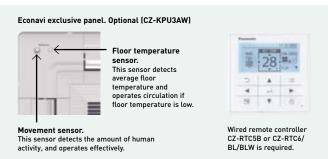
Human activity sensor and floor temperature sensor can reduce waste energy, by optimising air conditioner operation.



Advanced Econavi functions.

ECONAVI 2 sensors (movement and floor

temperature) can provide a reduction in wasted energy by means of effective control. The floor temperature can be detected with a ceiling height of 5 m.



PACi NX adaptive ducted unit - PF3



Adaptive ducted - PF3 has been completely re-designed to provide better flexibility. The vertical installation is newly available with powerful external static pressure (maximum 150 Pa).







https://youtu.be/LBiRrsOaqXo

Highly flexible installation 2 installation possibilities (horizontal / vertical).

High seasonal performance with slim body

Maximum SEER / SCOP: A++ / A++.

Comfort operation Super quiet operation, minimum 22 dB(A)*.

* 3,6 kW model and when operating with external

2 installation possibilities (horizontal / vertical)

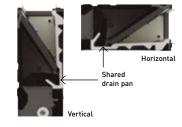
Vertical installation is newly available.

External static pressure 150 Pa, sufficient for remotely installing units away from the rooms.



Improved drain pan design

Just one drain pan for both horizontal and vertical installations. No need to modify the unit.



Selectable inlet air position

Inlet air position may be adjusted by means of a removable panel, to allow rear or bottom entry, depending on the duct installation.





Maximum efficiency

	kW	3,6	5,0	6,0	7,1	10,0
	SEER	A++	A++	A++	A++	A++
Elite	SCOP A+	A+	A+	A++	A++	A+
Standard	SEER	_	_	A++	A++	A++
	SCOP	_	_	A++	A+	Α

	12,5	14,0
$\eta_{s,c}$	281,7%	275,9%
$\eta_{s,h}$	170,0%	171,0%
$\eta_{s,c}$	257,4%	252,2%
η _{s,h}	142,6%	140,6%

Compact body

- · Only 250 mm high
- · Light units from 25 to 39 kg

Conventional model	Adaptive ducted
33 kg	30 kg
290 mm	250 mm



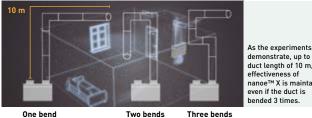
Better indoor air quality with nanoe™ X

even with 10 m long ducts*.

R•nanoe[™]X The performance of nanoe™ X technology is maintained,

The effect of improved air quality is sufficient to allow for numerous duct shapes to fit the application.

* Panasonic internal survey.



demonstrate, up to a duct length of 10 m, effectiveness of hended 3 times

nanoe™ X effect against odour proven in large space

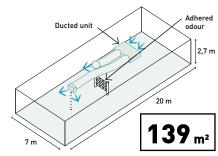
In a room of 139 m², tobacco odour is reduced by a factor of 0,7 when compared to natural reduction over a period of 2 hours.

Tobacco deodorisation ratio. Natural reduction nanoe™ X reduced by 0,7 rank Time (hour)

Test ambient.

3rd party international testing institute $\mathsf{KAKEN^{11}}$ conducted the performance experiment of Adaptive ducted equipped with nanoe X Generator Mark 2 device removing tobacco odour.

1) KAKEN TEST CENTER General Incorporated Foundation in Japan, international testing institute.



PACi NX wall-mounted, 4 way 60x60 cassette and ceiling

C•nanoe[™]X

A new era of air conditioning solutions are here, with built-in $nanoe^{TM}$ X technology.



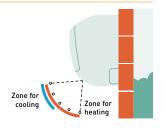
PACi NX wall-mounted - PK3.

Providing a small, lightweight and low noise level design, it is ideal for small offices and other commercial applications. It also has a stylish smooth design with a washable front panel.



Air distribution is automatically altered depending on the operational mode of the unit

Air outlet angle is automatically adjusted for cooling and heating operation.



Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making installation flexible.



PACi NX 4 way 60x60 cassette - PY3.

The PY3 not only perfectly matches with 600 x 600 mm ceiling grids but also provides an additional benefit for better indoor quality, with nanoeTM X built-in.

Industry-leading energy efficiency

- · SEER / SCOP class A++* with Elite outdoor range
- SEER / SCOP class A++ with Standard outdoor range 2,5 kW model
- * Except for 6,0 kW.

Compact and stylish design

- · Ceiling depth is only 250 mm
- · Exposed area is only 30 mm

Internal cleaning function

When cooling or dry operation stopped, internal drying and nanoe $^{\text{TM}}$ X circulation airflow is activated in order to suppress the mould proliferation inside the unit (airflow passage, fan, heat exchanger)*.

* Depending on the installation environment or operating hours, mould proliferation or inhabitation of mould growth will be changed.

Individual flap control

Better control of the air flow with 4 motors, providing individual flap control. Perfect air distribution without direct airflow, to reduce the feeling of cold drafts.



PACi NX ceiling - PT3.

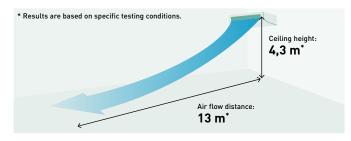
Providing outstanding energy-saving performance, comfort and longdistance airflow distribution, these units are perfect for retail stores and schools.



Comfortable, long-distance airflow distribution

The shape of the outlet has been optimised to provide long-distance air flow distribution.

Even in long rooms, air flow reaches every corner for exceptionally comfortable air conditioning.



Compact looking, stylish, one-motion design

With its streamlined, one-motion form, the unit looks thin and compact when installed for a neat appearance in any room. When not operating, the louver closes to provide an elegant look while also keeping the unit clean.

Energy-saving technology delivering top-class efficiency

Optimisation of the shape of the casing and fan assures bigger air flow and higher efficiency. Energy-saving performance is top class in the industry. Thanks to new DC fan motor and large diagonal air flow fan.

Solutions for 24/7/365 applications

High efficiency products for 24/7 applications. Panasonic has developed a complete range of solutions for server rooms which efficiently protect your servers, keeping them at an appropriate temperature even when the outdoor temperature is below -25 $^{\circ}$ C.

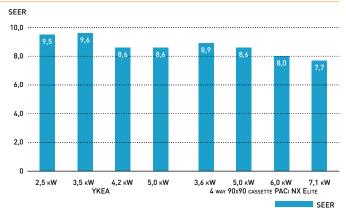




High efficiency all year

Key points:

- · From 2,5 to 7,1 kW with YKEA units A+++ in cooling
- · PACi NX units from 2,5 to 14,0 kW
- · Back-up function
- · Duty rotation mode
- · Error information by dry contact
- · Operation even at -25 °C outdoor temperature*
- · High seasonal performance
- · Designed for 24h/7d a week operation
- * For YKEA units.



Control solutions for PACi

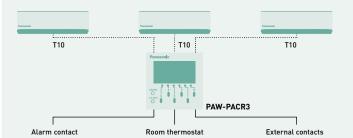
Interface to run 2 or 3 PACi and VRF indoor units. PAW-PACR3.

In combination with one PAW-T10 on each indoor unit, allows the redundant operation of 2 (or 3) PACi or VRF indoor units.

All units will be operated sequentially in order to achieve the same operating time (example turn every 8 hours within a 24 hour period).

If the room temperature exceeds a freely set value, the 2nd (or 3rd) unit will be switched ON and an alarm will be activated.





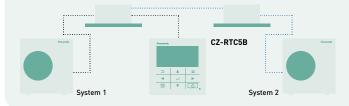
Display and Settings:

- · Possible to select next unit manually
- \cdot Possible to reset operation
- · LED display shows operation status of the 2 or 3 units
- · Operation status output
- · Alarm LED and alarm output
- $\cdot \ \text{Temperature limit can be set}$
- · Temperature hysteresis can be set
- · Room temperature is displayed
- · Time counter displayed

Back-up control by using CZ-RTC5B.

Group wiring of 2 systems of PACi can do auto individual control.

- · Rotation operation
- · Back-up operation
- · Support operation



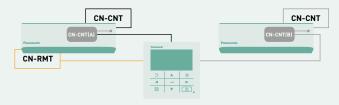


Control solutions with wall-mounted YKEA

YKEA Duty rotation mode (requires optional CZ-RCC5).

Two indoor units operate alternately to maintain the room temperature, reducing the load on the air conditioners and providing stable operation.

Even if one of the units breaks down, the other unit supports stable operation.



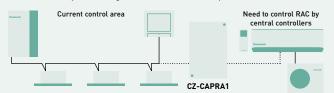
Domestic integration to P-Link - CZ-CAPRA1.

Can connect RAC range to P-Link. Full control is now possible.

Integrates any unit in big system control.

- · YKEA server room integration 11
- · Small offices with domestic indoors
- · Tender for refurbishment (old system Domestic and VRF in one installation)

1) When redundancy control using the remote controller is set up, CZ-CAPRA1 cannot be connected



- Current system for PACi / VRF. Central controller can connect to P-Link line to control units directly
- RAC units cannot connect directly to P-Link to be
- managed by Central Controllers
 It's necessary to have interface between P-Link and
- RAC protocol to cover basic operating items



Commercial units range

Page	Indoor units	2,5 kW	3,6 kW	4,5 kW ¹⁾	5,0 kW	6,0 kW
P. 186	NEW wall- mounted Professional Inverter · R32 ²⁾	CS-Z25YKEA	CS-Z35YKEA	CS-Z42YKEA	CS-Z50YKEA	
P. 188	PACi NX wall- mounted Inverter+ · R32			_		_
P. 192	PACi NX 4 way 60x60 cassette Inverter+ · R32	S-25PY3E	S-3650PK3E S-36PY3E	S-3650PK3E	S-3650PK3E S-50PY3E	S-6010PK3E S-60PY3E
P. 194	PACi NX 4 way 90x90 cassette Inverter+ · R32		S-3650PU3E	S-3650PU3E	S-3650PU3E	S-6071PU3E
P. 198	PACi NX ceiling Inverter+ · R32		S-3650PT3E	S-3650PT3E	S-3650PT3E	S-6071PT3E
P. 202	PACi NX adaptive ducted Inverter+ · R32		S-3650PF3E	S-3650PF3E	S-3650PF3E	S-6071PF3E
P. 206	High static pressure hide- away 20-25 kW Inverter+ · R32					
P. 208	4 Way 60x60 cassette Inverter+ · R32		S-36PY2E5B	S-45PY2E5B	S-50PY2E5B	

PACi NX Elite · R32

Outdoor units



3,6 kW

U-50PZH3F5 / U-50PZH2F5

5,0 kW



6,0 kW

PACi NX Standard · R32



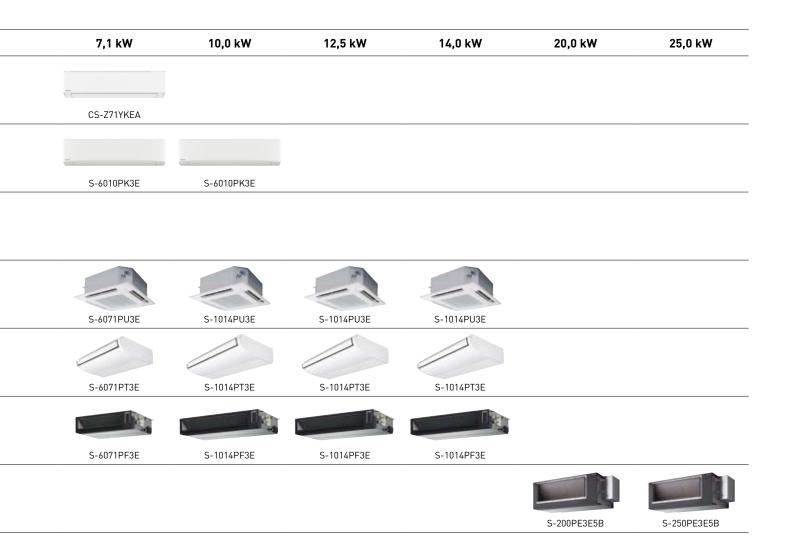
2,5 kW

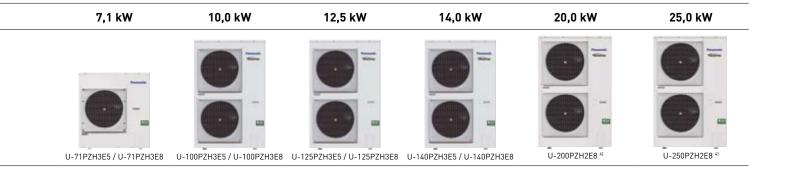






1) The 4,5 kW indoor capacity options are only available only for twin, triple and double-twin combinations. 2) Not compatible with PACi NX outdoors and accessories. Domestic range sales conditions may apply. Check with your sales representative. 3) PZH2 models only for PY2 models. 4) These two units are not in PACi NX range but part of Big PACi range. * U-_E5 Single phase / U-_E8 Three phase.











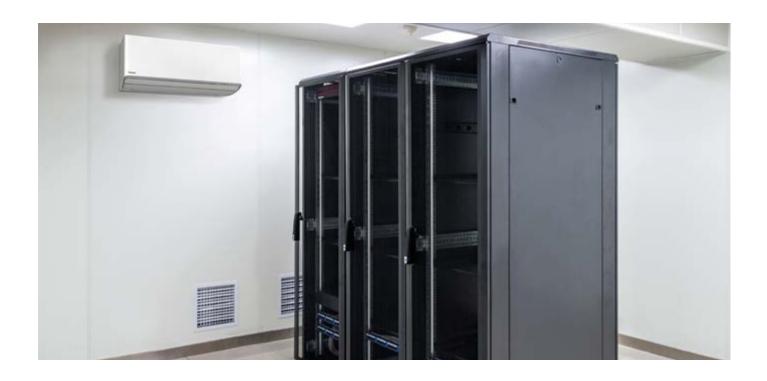


Solutions for server rooms

High efficiency products for 24/7 applications. Panasonic has developed a complete range of solutions for server rooms which efficiently protect your servers, keeping them at an appropriate temperature even when the outdoor temperature is below -25 $^{\circ}$ C.



Not compatible with PACi NX outdoors and accessories. Domestic range sales conditions may apply. Check with your sales representative.

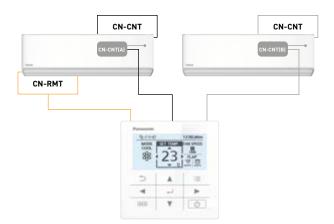


Designed for 24h/7d a week operation

High efficiency all year round. This wall-mounted air conditioner is designed for professional, critical applications such as computer rooms where reliable cooling inside the room is necessary even with extreme ambient conditions.

New remote controller for better usability

New wired remote controller, which can assure the operation 24/7 of two server room units, thanks to the integrated duty rotation mode. This function manages rotation and back-up of two units and it is available when connecting an optional CN-CNT cable (CZ-RCC5) between the controller and each of the two indoor units.



Highest energy rating in cooling
The SEER and SCOP of the Server room unit has

been further improved to achieve top class energy efficiency. The 3,5 kW unit reaches now the SEER value of 9,6 (A+++).

Built-in Wi-Fi and compatible with Voice Assistant

The unit is ready to connect to the internet and to be controlled by smartphone with Panasonic Comfort Cloud App. Control, monitor energy consumption statistics and easily identify errors in case of failure.











- · Designed for 24h/7d a week operation
- New wired remote controller, with optional duty rotation mode
- · Improved SEER / SCOP to achieve top class energy efficiency
- · Aerowings 2.0, for a better control of the airflow
- · Built-in Wi-Fi for instant connectivity via Panasonic Comfort Cloud App
- · Compatible with Google Assistant and Amazon Alexa
- \cdot Chassis and parts designed for easier installation

Cooling capacity Nominal Mini-Maxi WW 4,5010,85-3,500 3,5010,85-4,201 4,0010,85-2,501 5,000,98-6,001 7,100,98-8,501 SER** Image: Minial Mini-Maxi WW 4,901,87-2,380 3,500,85-4,201 4,66.4+++ 6,5 A++ Pleesign Image: Minial Mini-Maxi WW 2,50 3,50 4,00 1,01 1,01 2,02 2,02 2,02 2,02 2,00 7,10 1,00 2,00 7,10 1,00 7,10 1,00 7,10 1,00 7,10 1,00 7,10 1,00 2,00 7,10 1,00 3,00 4,00 5,00 5,00 8,00 9,00 9,00 3,00 4,00 3,00 8,00 9,00 9,00 3,00 4,00 4,00 3,00 3,00 4,00 4,00 3,00 4,00 4,00 3,00 4,00 4,00 4,00 3,00 4,00 4,00 4,00 3,00 4,00 4,00 4,00 3,00 4,00 4,00 4,00 4,00	Kit			KIT-Z25-YKEA	KIT-Z35-YKEA	KIT-Z42-YKEA	KIT-Z50-YKEA	KIT-Z71-YKEA
Peesign	Cooling capacity	Nominal (Min - Max)	kW	2,50 (0,85 - 3,50)	3,50 (0,85 - 4,20)	4,20 (0,85 - 5,00)	5,00 (0,98 - 6,00)	7,10 (0,98 - 8,50)
Pedesign	EER 1)	Nominal (Min - Max)	W/W	4,90 (4,72 - 3,98)	4,12(4,72-3,68)	3,82 (4,72 - 3,25)	3,68 (3,92 - 3,16)	3,23 (2,33 - 2,83)
	SEER 2)			9,5 A+++	9,6 A+++	8,6 A+++	8,6 A+++	6,5 A++
Manual energy consumption May	Pdesign		kW	2,50	3,50	4,20	5,00	7,10
Heating capacity	Input power	Nominal (Min - Max)	kW	0,51 (0,18 - 0,88)	0,85 (0,18 - 1,14)	1,10 (0,18 - 1,54)	1,36 (0,25 - 1,90)	2,20 (0,42 - 3,00)
Heating capacity at -7 °C KW 3,05 3,40 4,11 4,80 6,31	Annual energy consumption 33		kWh/a	92	128	171	203	382
Nominal (Min - Max) W/W	Heating capacity	Nominal (Min - Max)	kW	3,40 (0,85 - 5,00)	4,00 (0,85 - 5,80)	5,30 (0,85 - 6,80)	5,80 (0,98 - 8,00)	8,20 (0,98 - 10,20)
Nominal Min-Max Nominal Min	Heating capacity at -7 °C		kW	3,05	3,40	4,11	4,80	6,31
Pessign at -10 °C	COP 1)	Nominal (Min - Max)	W/W	4,86 (4,72 - 3,97)	4,44 (4,72 - 3,87)	3,93 (4,72 - 3,66)	4,08 (4,26 - 3,35)	3,71 (2,45 - 3,29)
Input power Nominal (Min-Max) Nominal (M	SCOP 2)			4,6 A++	4,6 A++	4,5 A+	4,6 A++	4,1 A+
Annual energy consumption	Pdesign at -10 °C		kW	2,70	3,20	3,60	4,20	5,50
Name	Input power	Nominal (Min - Max)	kW	0,70 (0,18 - 1,26)	0,90 (0,18 - 1,50)	1,35 (0,18 - 1,86)	1,42(0,23-2,39)	2,21 (0,40 - 3,10)
Power supply	Annual energy consumption 3]		kWh/a	822	974	1120	1278	1878
Recommended fuse	Indoor unit			CS-Z25YKEA	CS-Z35YKEA	CS-Z42YKEA	CS-Z50YKEA	CS-Z71YKEA
Connection indoor / outdoor	Power supply		V	230	230	230	230	230
Air flow	Recommended fuse		Α	16	16	16	16	20
Moisture removal volume	Connection indoor / outdoor		mm²	4 x 1,5	4 x 1,5	4 x 1,5	4 x 2,5	4 x 2,5
Sound pressure 41 Coot (Hi / Lo / O-Lo) dB(A) 39/25/21 42/28/21 43/32/29 44/37/30 47/38/35 Sound power Cool / Heat (Hi) dB(A) 41/27/22 43/30/22 44/35/29 44/37/30 47/38/35 Sound power Cool / Heat (Hi) dB(A) 55/57 58/59 59/60 60/60 63/63 Dimension HxWxD mm 295x870x229 295x870x229 295x1040x244 295x1040x	Air flow	Cool / Heat	m³/min	11,4/13,8	12,7/14,8	13,2/15,2	17,4/19,1	19,0/19,9
Heat (Hi / Lo / Q-Lo) dB(A) 41/27/22 43/30/22 44/35/29 44/37/30 47/38/35	Moisture removal volume		L/h	1,5	2,0	2,4	2,8	4,1
Heat Hir Lo O-Lo dB A 4 1/27 22 43 30 22 44 35 729 44 737 30 47 738 35	Cound proceure 4	Cool (Hi / Lo / Q-Lo)	dB(A)	39/25/21	42/28/21	43/32/29	44/37/30	47/38/35
Dimension			dB(A)	41/27/22	43/30/22	44/35/29	44/37/30	47/38/35
Net weight kg 11 11 11 12 13 Outdoor unit CU-Z25YKEA CU-Z35YKEA CU-Z42YKEA CU-Z59YKEA CU-Z42YKEA CU-Z59YKEA CU-Z49YKEA CU-Z49YKEA CU-Z49YKEA CU-Z49YKEA CU-Z59YKEA CU-Z59XKEA CU-Z5	Sound power	Cool / Heat (Hi)	dB(A)	55/57	58/59	59/60	60/60	63/63
Outdoor unit CU-Z25YKEA CU-Z35YKEA CU-Z42YKEA CU-Z50YKEA 29,8/21,8/21 29,8/21,8/21 29,8/21,8/21 29,8/21,8/21 44,6/50 39,8/36,9 44,7/45,8 46,6/68 66/68 66/68 66/68 66/68 66/68 66/68 66/68 66/68 66/68 66/68 66/68 66/68 66/68 66/68 67/65 695x875x320 695x875x320 695x875x320 695x875x320	Dimension	HxWxD	mm	295 x 870 x 229	295 x 870 x 229	295 x 870 x 229	295 x 1040 x 244	295 x 1040 x 244
Air flow Cool / Heat m³/min 27,6/27,6 29,8/29,8 29,8/31,0 39,8/36,9 44,7/45,8 Sound pressure 41 Cool / Heat (Hi) dB(A) 46/48 48/50 48/51 48/50 52/54 Sound power Cool / Heat (Hi) dB(A) 61/63 63/65 63/66 63/65 66/68 Dimension 51 HxWxD mm 542x780x289 542x780x289 695x875x320 695x875x320 Net weight kg 30 30 30 40 45 Piping diameter Liquid pipe Inch (mm) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/2 (12,70) 5/8 (15,88) Pipe length range m 3 - 20 3 - 20 3 - 30 3 - 30 3 - 30 Elevation difference (in / out) m 15 15 15 15 20 Pipe length for additional gas m 7,5 7,5 7,5 7,5 7,5 1,35/0,91 Additiona	Net weight		kg	11	11	11	12	13
Sound pressure 41 Cool / Heat [Hi] dB(A) 46/48 48/50 48/51 48/50 52/54 Sound power Cool / Heat [Hi] dB(A) 61/63 63/65 63/66 63/65 66/68 Dimension 51 HxWxD mm 542x780x289 542x780x289 542x780x289 695x875x320 695x875x320 Net weight kg 30 30 30 40 45 Piping diameter Liquid pipe Inch (mm) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/2 (12,70) 5/8 (15,88) 1/2 (12,70) 5/8 (15,88) 1/2 (12,70) 5/8 (15,88) 1/2 (12,70) 1/2 (12,70) 5/8 (15,88) 1/2 (12,70) 1/2 (12,70) 5/8 (15,88) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) 5/8 (15,88) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70)	Outdoor unit			CU-Z25YKEA	CU-Z35YKEA	CU-Z42YKEA	CU-Z50YKEA	CU-Z71YKEA
Sound power Cool / Heat (Hi) dB(A) 61/63 63/65 63/66 63/65 66/68 Dimension 51 HxWxD mm 542x780x289 542x780x289 542x780x289 695x875x320 695x875x320 Net weight kg 30 30 30 40 45 Piping diameter Liquid pipe Inch (mm) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) Pipe length range m 3/20 3/20 3/20 3/20 3/20 Elevation difference (in / out) m 15 15 15 15 20 Pipe length for additional gas m 7,5 7,5 7,5 7,5 10 Additional gas amount g/m 10 10 10 15 25 Refrigerant (R32) / CO ₂ Eq. kg / T 0,89/0,60 0,89/0,60 0,97/0,65 1,13/0,76 1,35/0,91 Operation range Cool Min ~ Max °C -25~+43 -25~+43 -25~+43 -25~+43 -25~+43 -25~+43 <	Air flow	Cool / Heat	m³/min	27,6/27,6	29,8/29,8	29,8/31,0	39,8/36,9	44,7/45,8
Dimension Dime	Sound pressure 4)	Cool / Heat (Hi)	dB(A)	46/48	48/50	48/51	48/50	52/54
Net weight kg 30 30 30 40 45 Piping diameter Liquid pipe Gas pipe Inch (mm) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/2 (12,70) 5/8 (15,88) 5/8 (15,88) 1/2 (12,70) 1/2 (12,70) 5/8 (15,88) 1/2 (12,70) 1/2 (12,70) 5/8 (15,88) 3-30 3-50 3-50 3-50 3-75 7,5 7,5 7,5 7,5 7,5 10 3-30 3-30 3-30 3-30 3-30 3-30 3-30 3-30 3-30 3-30 3-30	Sound power	Cool / Heat (Hi)	dB(A)	61/63	63/65	63/66	63/65	66/68
Piping diameter Liquid pipe Inch (mm) 1/4 (6,35) 1/	Dimension 5)	HxWxD	mm	542 x 780 x 289	542 x 780 x 289	542 x 780 x 289	695 x 875 x 320	695 x 875 x 320
Pripring diameter Gas pipe Inch (mm) 3/8 (9,52) 3/8 (9,52) 1/2 (12,70) 1/2 (12,70) 5/8 (15,88) Pipe length range m 3~20 3~20 3~20 3~30 3~30 Elevation difference (in / out) m 15 15 15 15 20 Pipe length for additional gas m 7,5 7,5 7,5 7,5 10 Additional gas amount g/m 10 10 10 15 25 Refrigerant (R32) / CO ₂ Eq. kg / T 0,89/0,60 0,89/0,60 0,97/0,65 1,13/0,76 1,35/0,91 Operating range Cool Min ~ Max °C -25~+43 -25~+43 -25~+43 -25~+43 -25~+43	Net weight		kg		30	30	40	45
Fipe length range Inch (mm) 3/8 (9,52) 3/8 (9,52) 1/2 (12,70) 1/2 (12,70) 5/8 (15,88) Pipe length range m 3 - 20 3 - 20 3 - 20 3 - 30 3 - 30 Elevation difference (in / out) m 15 15 15 15 15 20 Pipe length for additional gas m 7,5 7,5 7,5 7,5 7,5 10 Additional gas amount g/m 10 10 10 15 25 Refrigerant (R32) / CO ₂ Eq. kg / T 0,89 / 0,60 0,89 / 0,60 0,97 / 0,65 1,13 / 0,76 1,35 / 0,91 Operating range Cool Min - Max °C -25 - +43 -25 - +43 -25 - +43 -25 - +43 -25 - +43	Pining diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	
Elevation difference (in / out) m 15 15 15 15 20		Gas pipe	Inch (mm)	3/8 (9,52)	3/8(9,52)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)
Pipe length for additional gas m 7,5 7,5 7,5 7,5 7,5 10 Additional gas amount g/m 10 10 10 15 25 Refrigerant (R32) / CO ₂ Eq. kg / T 0,89/0,60 0,89/0,60 0,97/0,65 1,13/0,76 1,35/0,91 Operation range Cool Min ~ Max °C -25~+43 -25~+43 -25~+43 -25~+43	Pipe length range		m	3~20				3~30
Additional gas amount g/m 10 10 10 15 25 Refrigerant [R32] / CO ₂ Eq. kg / T 0,89/0,60 0,89/0,60 0,97/0,65 1,13/0,76 1,35/0,91 Operating range Cool Min ~ Max °C -25~+43 -25~+43 -25~+43 -25~+43	Elevation difference (in / out)		m	15	15	15	15	20
Refrigerant (R32) / CO ₂ Eq. kg / T 0,89/0,60 0,89/0,60 0,97/0,65 1,13/0,76 1,35/0,91 Operating range Cool Min ~ Max °C -25~+43 -25~+43 -25~+43 -25~+43 -25~+43	Pipe length for additional gas		m	7,5	7,5	7,5		
Cool Min ~ Max °C -25~+43 -25~+43 -25~+43 -25~+43 -25~+43	Additional gas amount		g/m	10	10	10	15	25
Operating range ————————————————————————————————————	Refrigerant (R32) / CO ₂ Eq.		kg / T	0,89/0,60	0,89/0,60	0,97/0,65	1,13/0,76	1,35/0,91
Heat Min ~ Max °C -15~+24 -15~+24 -15~+24 -15~+24 -15~+24	Operating range	Cool Min ~ Max			-25~+43		-25~+43	
	operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the indoor unit shows the value measured of a position 1 m in front of the main body and 0,8 m below the unit. For outdoor unit 1 m in front and 1 m in rear side of main body. The sound pressure is measured in accordance with JIS C 9612. Q-Lo: Quiet mode. Lo: The lowest set fan speed. 5) Add 70 mm for piping port. * Available in February 2022. ** Not compatible with PACi NX outdoors and accessories. Domestic range sales conditions may apply. Check with your sales representative.

Accessories	
CZ-RCC5	CN-CNT cables $x2$ for server room application, control of 2 units, rotation, back-up, etc.
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform

Accessories	
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm





















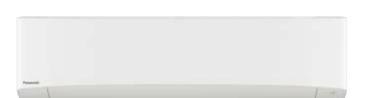








nanoe™ X as a standard.



PACi NX Series Elite wall-mounted Inverter+ · R32

The wall-mounted units with stylish matt color can be offered for many applications such as studios, gyms, high ceiling areas and even computer server rooms.

The compact design and flat face ensure discreet installation, even in a small space.

CZ-RTC5B						Single phase		
Permit controller				3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW
Cooling capacity	Kit			KIT-36PK3ZH5	KIT-50PK3ZH5	KIT-60PK3ZH5	KIT-71PK3ZH5	KIT-100PK3ZH5
EER ® 1 Nominal (Min–Max) W/W 4,93 (4,49-5,45) 4,24 (3,61-5,45) 3,86 (3,02-5,45) 3,50 (2,69-5,79) 3,26 (3,09-5,34) SEER® 1 8,4 A++ 8,0 A++ 7,2 A++ 6,8 A++ 6,4 A++ Pleasign KW 3,4 5,0 6,1 7,1 9,5 Input power Nominal (Min–Max) kW 0,73 (0,22-0,89) 1,181 (0,22-1,55) 1,581 (0,22-2,35) 2,03 (0,38-3,35) 2,91 (3,8-3,40) Heating capacity Nominal (Min–Max) kW 4,01(2-5,01) 5,61(2-6,5) 7,01(2-8,01) 8,0 (2,0-9,0) 9,53,1-11,51 5,00 7,01(2-8,01) 8,0 (2,0-9,0) 9,53,1-11,51 5,00 7,01(2-8,01) 8,0 (2,0-9,0) 9,53,1-11,51 3,00 7,01(2-8,01) 4,0 (3,02-5,64) 4,0 (4,4-4) 4,4	Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
SEER® LW 8,6 A++ 8,0 A++ 7,2 A++ 6,8 A+- 6,4 A+- Poesign Nominal (Min-Max) kW 3,6 5,0 6,1 7,1 9,5 Annual energy consumption® kWM /a 150 219 297 365 520 Heating capacity Nominal (Min-Max) kW 4,011,2-5,01 5,611,2-6,51 7,011,2-8,00 9,012,0-9,0 9,513,1-1,51 COP® Nominal (Min-Max) kW 4,812,17-5,45 4,1513,55-5,45 4,101,2-0,0 9,012,0-9,0 9,513,1-1,51 COP® Nominal (Min-Max) kW 4,812,17-5,45 4,1513,55-5,45 4,103,40-5,45 4,012,4-7,4 4,14	Cooling capacity	Nominal (Min - Max)	kW	3,6 (1,2 - 4,0)	5,0(1,2-5,6)	6,1(1,2-7,1)	7,1 (2,2 - 9,0)	9,5 (3,1 - 10,5)
Pdesign	EER 1)	Nominal (Min - Max)	W/W	4,93 (4,49 - 5,45)	4,24 (3,61 - 5,45)	3,86 (3,02 - 5,45)	3,50 (2,69 - 5,79)	3,26 (3,09 - 5,34)
Input power Nominal (Min-Max) Nominal (M	SEER 2)			8,4 A++	8,0 A++	7,2 A++	6,8 A++	6,4 A++
Annual energy consumption III kWh/a 150 2.9 2.97 3.65 5.20 Heating capacity Nominal [Min-Max] kW 4,011,2-5,01 5,61,2-6,51 7,011,2-8,01 8,012,0-7,90 9,513,1-11,51 COP II Nominal [Min-Max] WW 4,874,17-5,651 4,115,155,5-5,55 4,191,40-5,551 4,013,16-5,561 3,731,3-3-5,541 SCOP II L KW 3,6 4,5 4,6 5.2 8,0 Input power Nominal [Min-Max] kW 3,6 4,5 4,6 5.2 8,0 Input power Nominal [Min-Max] kWh 3,6 4,5 4,6 5.2 8,0 Input power Nominal [Min-Max] kWh 10,29 13.31 1,67(0,22-25) 2,001,03-6-2,851 2,00 1,05 2,00 2,05 2,00 1,05 2,00 2,00 2,00 2,00 3,0 4,8 2,00 3,0 4,8 4,00 4,00 1,8 2,0 3,0 4,8 4,00 4,00 1,8 <td>Pdesign</td> <td></td> <td>kW</td> <td>3,6</td> <td>5,0</td> <td>6,1</td> <td>7,1</td> <td>9,5</td>	Pdesign		kW	3,6	5,0	6,1	7,1	9,5
Nominal (Min-Max)	Input power	Nominal (Min - Max)	kW	0,73 (0,22 - 0,89)	1,18 (0,22 - 1,55)	1,58 (0,22 - 2,35)	2,03 (0,38 - 3,35)	2,91 (0,58 - 3,40)
COP ¹ Nominal (Min - Max) W/W 4,82 (4,17 - 5,45) 4,15 (3,55 - 5,45) 4,19 (3,40 - 5,45) 4,00 (3,16 - 5,56) 3,97 (3,43 - 5,54) SCOP ² KW 3,6 4,5 4,6 5,2 8,0 Pdesign at -10 °C kW 3,6 4,5 4,6 5,2 8,0 Input power Nominal (Min - Max) kW 0,830 (22 - 1,20) 1,35 (0,22 - 1,20) 1,67 (0,22 - 2,35) 2,010,36 - 2,85) 2,39 (0,56 - 3,35) Annual energy consumption ²⁰ kWh/a 1029 1341 1342 1549 2732 Annual energy consumption ²⁰ H/Med / Lo m³/min 13,0/11,0/9,0 16,0/13,5/11,0 20,0/17,5/14,5 20,0/17,5/14,5 20,0/17,5/14,5 20,0/17,5/14,5 20,0/18,5/15,0 4,0/18,4 4,0 4,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 2,0 1,0 2,0 3,0 4,8 4,0 2,0 3,0 4,8 4,0 2,0 2,0 3,0 4,8 4,0	Annual energy consumption 33		kWh/a	150	219	297	365	520
SCOP ³ 4,9 A++ 4,7 A++ 4,8 A++ 4,7 A++ 4,1 A+ Pdesign at -10 °C kW 3,6 4,5 4,6 5,2 8,0 Input power Nominal (Min-Max) kW 0,80 (0,2-1-20) 1,35(0,2-1-20) 1,67(0,22-2,3) 2,00(3,6-2,85) 2,39(0,56-3,35) Annual energy consumption ³* kWh/a 1029 1341 1342 1549 2732 Indoor unit kWh/a 1029 1341 1342 564010PK3E 5-6010PK3E Air flow Hi / Med / Lo m³/min 13,0111,079 16,013,5711,0 20,017,5714,5 20,017,5714,5 22,0118,5715,0 Moisture removal volume L/h 0,9 1,8 2,0 3,0 4,8 Sound power Hi / Med / Lo dBIAl 35/17/4 56/52/48 63/60/56 63/60/56 56/115/51 Dimension Hx Wx D mm 302x1120x236 302x1120x236 302x1120x236 302x1120x236 302x1120x236 302x1120x236 302x1120x236 476/41 14 14 14	Heating capacity	Nominal (Min - Max)	kW	4,0 (1,2 - 5,0)	5,6 (1,2 - 6,5)	7,0(1,2-8,0)	8,0 (2,0 - 9,0)	9,5 (3,1 - 11,5)
Pdesign at -10 °C	COP 1)	Nominal (Min - Max)	W/W	4,82 (4,17 - 5,45)	4,15 (3,55 - 5,45)	4,19 (3,40 - 5,45)	4,00 (3,16 - 5,56)	3,97 (3,43 - 5,54)
Nominal (Min-Max)	SCOP 2)			4,9 A++	4,7 A++	4,8 A++	4,7 A++	4,1 A+
Annual energy consumption Mark 1029 1341 1342 1549 2732 Indoor unit S-3650PK3E S-3650PK	Pdesign at -10 °C		kW	3,6	4,5	4,6	5,2	8,0
Indoor unit S-3650PK3E S-3650PK3E S-6010PK3E S-601	Input power	Nominal (Min - Max)	kW	0,83 (0,22 - 1,20)	1,35 (0,22 - 1,83)	1,67 (0,22 - 2,35)	2,00 (0,36 - 2,85)	2,39 (0,56 - 3,35)
Air flow Hi / Med / Lo m³/min 13,0/11,0/9,0 16,0/13,5/11,0 20,0/17,5/14,5 20,0/17,5/14,5 22,0/18,5/15,0 Moisture removal volume L/h 0,9 1,8 2,0 3,0 4,8 Sound pressure ⁴ Hi / Med / Lo dB(A) 35/31/27 40/36/32 47/44/40 47/44/40 49/45/41 Sound power Hi / Med / Lo dB(A) 51/47/43 56/52/48 63/60/56 63/60/56 65/61/57 Dimension HxWxD mm 302x1120x236 402x120x120x120x120x120x120x120x120x120x1	Annual energy consumption 3		kWh/a	1029	1341	1342	1549	2732
Moisture removal volume	Indoor unit			S-3650PK3E	S-3650PK3E	S-6010PK3E	S-6010PK3E	S-6010PK3E
Sound pressure Hi / Med / Lo dB A 35/31/27 40/36/32 47/44/40 47/44/40 49/45/41	Air flow	Hi / Med / Lo	m³/min	13,0/11,0/9,0	16,0/13,5/11,0	20,0/17,5/14,5	20,0/17,5/14,5	22,0/18,5/15,0
Sound power	Moisture removal volume		L/h	0,9	1,8	2,0	3,0	4,8
Dimension HxWxD mm 302x1120x236 302x1120x	Sound pressure 4)	Hi / Med / Lo	dB(A)	35/31/27	40/36/32	47/44/40	47/44/40	49/45/41
Net weight name X Generator kg 13 13 14 14 14 Outdor unit U-3APZH3ES Mark 2 Mark	Sound power	Hi / Med / Lo	dB(A)	51/47/43	56/52/48	63/60/56	63/60/56	65/61/57
nanoe X Generator Mark 2 Description (and passed p	Dimension	HxWxD	mm	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236	302 x 1120 x 236
Outdoor unit U-36PZH3E5 U-50PZH3E5 U-60PZH3E5 U-71PZH3E5 U-100PZH3E5 Power supply V 220-230-240 200-240 200-240	Net weight		kg	13	13	14	14	14
Power supply	nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Current Cool A 3,60 - 3,45 - 3,30 5,60 - 5,35 - 5,10 7,40 - 7,10 - 6,80 10,0 - 9,60 - 9,20 14,40 - 13,80 - 13,2 Air flow Cool / Heat M 4,05 - 3,90 - 3,70 6,40 - 6,10 - 5,85 7,75 - 7,40 - 7,10 9,65 - 9,35 - 8,75 11,70 - 11,30 - 10,8 Sound pressure Cool / Heat (Hi) dB(A) 43/44 46/48 47/50 48/50 52/52 Sound power Cool / Heat (Hi) dB(A) 62/64 64/67 65/69 65/67 69/69 Dimension HxWxD mm 695x875x320 695x875x320 695x875x320 996x940x340 1416x940x340 Net weight kg 42 42 43 65 98 Piping diameter Liquid pipe Inch (mm) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) §1 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) </td <td>Outdoor unit</td> <td></td> <td></td> <td>U-36PZH3E5</td> <td>U-50PZH3E5</td> <td>U-60PZH3E5</td> <td>U-71PZH3E5</td> <td>U-100PZH3E5</td>	Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5	U-100PZH3E5
Current Heat A 4,05-3,90-3,70 6,40-6,10-5,85 7,75-7,40-7,10 9,65-9,35-8,95 11,70-11,30-10,8 Air flow Cool / Heat m³/min 34,1/36,4 42,0/42,0 42,0/42,0 61,0/60,0 118,0/108,0 Sound pressure Cool / Heat (Hi) dB(A) 43/44 46/48 47/50 48/50 52/52 Sound power Cool / Heat (Hi) dB(A) 62/64 64/67 65/69 65/67 69/69 Dimension HxWxD mm 695x875x320 695x875x320 695x875x320 996x940x340 1416x940x340 Net weight kg 42 42 43 65 98 Piping diameter Liquid pipe Inch (mm) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) s1 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52) 3/8 (9,52)	Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Heat A 4,05-3,90-3,70 6,40-6,10-5,85 7,75-7,40-7,10 9,65-9,35-8,95 11,70-11,30-10,8	2	Cool	A	3,60 - 3,45 - 3,30	5,60 - 5,35 - 5,10	7,40 - 7,10 - 6,80	10,0-9,60-9,20	14,40 - 13,80 - 13,20
Sound pressure Cool / Heat (Hi) dB(A) 43/44 46/48 47/50 48/50 52/52 Sound power Cool / Heat (Hi) dB(A) 62/64 64/67 65/69 65/67 69/69 Dimension HxWxD mm 695x875x320 695x875x320 996x940x340 1416x940x340 Net weight kg 42 42 43 65 98 Piping diameter Liquid pipe Inch (mm) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 3/8 (9,52) <t< td=""><td>Current</td><td>Heat</td><td>A</td><td>4,05 - 3,90 - ,3,70</td><td>6,40 - 6,10 - 5,85</td><td>7,75 - 7,40 - 7,10</td><td>9,65-9,35-8,95</td><td>11,70 - 11,30 - 10,80</td></t<>	Current	Heat	A	4,05 - 3,90 - ,3,70	6,40 - 6,10 - 5,85	7,75 - 7,40 - 7,10	9,65-9,35-8,95	11,70 - 11,30 - 10,80
Sound power Cool / Heat (Hi) dB(A) 62/64 64/67 65/69 65/67 69/69 Dimension HxWxD mm 695x875x320 695x875x320 695x875x320 996x940x340 1416x940x340 Net weight kg 42 42 43 65 98 Piping diameter Liquid pipe Inch (mm) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 3/8 (9,52)	Air flow	Cool / Heat	m³/min	34,1/36,4	42,0/42,0	42,0/42,0	61,0/60,0	118,0/108,0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sound pressure	Cool / Heat (Hi)	dB(A)	43/44	46/48	47/50	48/50	52/52
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Sound power	Cool / Heat (Hi)	dB(A)	62/64	64/67	65/69	65/67	69/69
Liquid pipe Inch (mm) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 3/8 (9,52) 3/8	Dimension	HxWxD	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 940 x 340	1416 x 940 x 340
Piping diameter Gas pipe Inch (mm) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) dl 5/8 (15,88) 5/8 (15,88) Pipe length range m 3 - 40 3 - 40 3 - 40 5 - 50 5 - 85 Elevation difference (in / out) 71 m 15/30 15/30 15/30 15/30 15/30 Pipe length for additional gas m 30 30 30 30 30 Additional gas amount g/m 15 15 15 45 45 Refrigerant (R32) / CO ₂ Eq. kg / T 1,13/0,76 1,13/0,76 1,15/0,78 1,95/1,32 3,05/2,06 Operating range Cool Min ~ Max °C -15 ~ +46 -15 ~ +46 -15 ~ +46 -15 ~ +48 -20 ~ +48 dl	Net weight		kg	42	42	43	65	98
Figure F	D: : : :	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) 5)	3/8 (9,52)	3/8 (9,52)
Elevation difference (in / out) 7 m 15/30 15/30 15/30 15/30 15/30 15/30 15/30 15/30 15/30 15/30 15/30 15/30 30 30 30 30 30 30 30 30 30 45 <	Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) 6	5/8 (15,88)	5/8 (15,88)
Pipe length for additional gas m 30 30 30 30 30 30 30 45	Pipe length range		m	3~40	3~40	3~40	5~50	5~85
Additional gas amount g/m 15 15 15 45 45 45 Refrigerant [R32] / CO ₂ Eq. kg / T 1,13/0,76 1,13/0,76 1,15/0,78 1,95/1,32 3,05/2,06 One rating range Cool Min ~ Max °C -15~+46 -15~+46 -15~+46 -15~+48 -20~+48	Elevation difference (in / out) 7)		m	15/30	15/30	15/30	15/30	15/30
Refrigerant [R32] / CO ₂ Eq. kg / T 1,13/0,76 1,13/0,76 1,15/0,78 1,95/1,32 3,05/2,06 Operating range Cool Min ~ Max °C -15~+46 -15~+46 -15~+46 -15~+48 -20~+48	Pipe length for additional gas		m	30	30	30	30	30
Cool Min ~ Max °C -15~+46 -15~+46 -15~+46 -15~+48 -20~+48 8	Additional gas amount		g/m	15	15	15	45	45
Operating range	Refrigerant (R32) / CO, Eq.		kg / T	1,13/0,76	1,13/0,76	1,15/0,78	1,95/1,32	3,05/2,06
Uperating range Heat Min ~ Max	Oti	Cool Min ~ Max	°C	-15~+46	-15~+46	-15~+46	-15~+48	-20~+48 ⁸⁾
	Operating range	Heat Min ~ Max	°C	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24

Technical focus

- \cdot Modern design with flat face and compact size
- · DC fan for better efficiency and control
- · Six directional piping outlet
- nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- \cdot Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

Quiet operation

These units are among the quietest in the industry, making them ideal for hotels and hospitals.

Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making installation flexible.







COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION





Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW



Optional controller. Infrared remote controller. CZ-RWS3



Optional Econavi sensor. CZ-CENSC1

			Three phase		
			7,1 kW	10,0 kW	
Kit			KIT-71PK3ZH8	KIT-100PK3ZH8	
Remote controller			CZ-RTC5B	CZ-RTC5B	
Cooling capacity	Nominal (Min - Max)	kW	7,1 (2,2 - 9,0)	9,5 (3,1 - 10,5)	
EER 1)	Nominal (Min - Max)	W/W	3,50(2,69 - 5,79)	3,26 (3,09 - 5,34)	
SEER 2)			6,7 A++	6,3 A++	
Pdesign		kW	7,1	9,5	
Input power	Nominal (Min - Max)	kW	2,03 (0,38 - 3,35)	2,91 (0,58 - 3,40)	
Annual energy consumption 3		kWh/a	370	526	
Heating capacity	Nominal (Min - Max)	kW	8,0 (2,0 - 9,0)	9,5 (3,1 - 11,5)	
COP 1)	Nominal (Min - Max)	W/W	4,00 (3,16 - 5,56)	3,97 (3,43 - 5,54)	
SCOP 2)			4,7 A++	4,1 A+	
Pdesign at -10 °C		kW	5,2	8,0	
Input power	Nominal (Min - Max)	kW	2,00 (0,36 - 2,85)	2,39 (0,56 - 3,35)	
Annual energy consumption 3		kWh/a	1549	2732	
ndoor unit			S-6010PK3E	S-6010PK3E	
Air flow	Hi / Med / Lo	m³/min	20,0/17,5/14,5	22,0/18,5/15,0	
Moisture removal volume		L/h	3,0	4,8	
Sound pressure 4]	Hi / Med / Lo	dB(A)	47/44/40	49/45/41	
Sound power	Hi / Med / Lo	dB(A)	63/60/56	65/61/57	
Dimension	HxWxD	mm	302 x 1120 x 236	302 x 1120 x 236	
let weight		kg	14	14	
anoe X Generator			Mark 2	Mark 2	
Outdoor unit			U-71PZH3E8	U-100PZH3E8	
Power supply		V	380 - 400 - 415	380 - 400 - 415	
	Cool	A	3,40 - 3,25 - 3,15	4,85 - 4,60 - 4,40	
Current	Heat	A	3,30 - 3,15 - 3,05	4,00 - 3,80 - 3,60	
Air flow	Cool / Heat	m³/min	61,0/60,0	118,0/108,0	
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	
Sound power	Cool / Heat (Hi)	dB(A)	65/67	69/69	
Dimension	HxWxD	mm	996 x 940 x 340	1416×940×340	
Net weight		kg	65	98	
Dining diagrams	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	
Pipe length range		m	5~50	5~85	
Elevation difference (in / out) 7)		m	15/30	15/30	
Pipe length for additional gas		m	30	30	
Additional gas amount		g/m	45	45	
Refrigerant (R32) / CO ₂ Eq.		kg / T	1,95/1,32	3,05/2,06	
•	Cool Min ~ Max	°C	-15~+48	-20~+48 ⁸⁾	
Operating range	Heat Min ~ Max	°C	-20~+24	-20~+24	

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the η_{sc}/η_{ch} values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1 m in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube (θ_{cd} , 35- θ_{cd} , 20) to the liquid tubing side indoor unit. 6) Connect the gas socket tube (θ_{cd} , 37- θ_{cd} , 38) to the gas tubing side indoor unit. 7) Outdoor unit located lower / outdoor unit located tower / outdoor / out

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Interfaces to run 3 units on back-up and alternative run
Tray for condenser water compatible with outdoor elevation platform
Outdoor base ground support for noise and vibration absorption
Outdoor elevation platform 400 x 900 x 400 mm
Econavi energy savings sensor



























PACi NX Series Standard wall-mounted Inverter+ · R32

The wall-mounted units with stylish matt color can be offered for many applications such as studios, gyms, high ceiling areas and even computer server rooms.

The compact design and flat face ensure discreet installation, even in a small space.



					Single phase		
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW
Kit			KIT-36PK3Z5	KIT-50PK3Z5	KIT-60PK3Z5	KIT-71PK3Z5	KIT-100PK3Z5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,6(1,5-4,0)	5,0(1,5-5,6)	6,1 (2,0 - 7,1)	7,1 (2,6 - 7,7)	9,0 (3,0 - 9,7)
EER 1)	Nominal (Min - Max)	W/W	4,14 (3,74 - 5,88)	3,52 (3,03 - 6,25)	3,67 (3,01 - 6,90)	3,16 (2,77 - 5,00)	3,47 (3,13 - 5,36)
SEER 2)			7,6 A++	7,4 A++	7,0 A++	5,8 A+	6,5 A++
Pdesign		kW	3,6	5,0	6,1	7,1	9,0
Input power	Nominal (Min - Max)	kW	0,87 (0,26 - 1,07)	1,42 (0,24 - 1,85)	1,66 (0,29 - 2,36)	2,25 (0,52 - 2,78)	2,59 (0,56 - 3,10)
Annual energy consumption 3		kWh/a	166	237	3,05	429	485
Heating capacity	Nominal (Min - Max)	kW	3,6 (1,5 - 4,6)	5,0 (1,5 - 6,4)	6,1 (1,8 - 7,0)	7,1 (2,1 - 8,1)	9,0 (3,0 - 10,5)
COP 1)	Nominal (Min - Max)	W/W	4,62 (4,11 - 6,52)	4,20 (3,17 - 7,50)	4,39 (3,18 - 7,50)	4,23 (3,38 - 6,36)	3,93 (3,56 - 5,36)
SCOP 2)			4,5 A+	4,4 A+	4,7 A++	4,4 A+	3,9 A
Pdesign at -10 °C		kW	2,8	4,0	4,6	5,2	9,0
Input power	Nominal (Min - Max)	kW	0,78 (0,23 - 1,12)	1,19 (0,20 - 2,02)	1,39 (0,24 - 2,20)	1,68 (0,33 - 2,40)	2,29 (0,56 - 2,95)
Annual energy consumption 3		kWh/a	872	1273	1370	1653	3231
Indoor unit			S-3650PK3E	S-3650PK3E	S-6010PK3E	S-6010PK3E	S-6010PK3E
Air flow	Hi / Med / Lo	m³/min	13,0/11,0/9,0	16,0/13,5/11,0	20,0/17,5/14,5	20,0/17,5/14,5	22,0/18,5/15,0
Moisture removal volume		L/h	0,9	1,8	2,0	3,0	4,3
Sound pressure 4)	Hi / Med / Lo	dB(A)	35/31/27	40/36/32	47/44/40	47/44/40	49/45/41
Sound power	Hi / Med / Lo	dB(A)	51/47/43	56/52/48	63/60/56	63/60/56	65/61/57
Dimension	HxWxD	mm	302 x 1120 x 236	302 x 1120 x 236			
Net weight		kg	13	13	14	14	14
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5
Power supply		V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	Α	4,05 - 3,85 - 3,70	6,60 - 6,30 - 6,05	7,70 - 7,35 - 7,05	10,4 - 10,00 - 9,55	12,9 - 12,4 - 11,9
Current	Heat	Α	3,65 - 3,50 - 3,35	5,60 - 5,35 - 5,10	6,45 - 6,15 - 5,90	7,80 - 7,45 - 7,15	11,4 - 10,9 - 10,5
Air flow	Cool / Heat	m³/min	33,6/34,0	32,7/31,9	42,6/41,5	44,7/45,9	73,0/73,0
Sound pressure	Cool / Heat (Hi)	dB(A)	46/47	46/46	47/48	48/49	52/52
Sound power	Cool / Heat (Hi)	dB(A)	64/66	64/64	64/65	66/68	70/70
Dimension	HxWxD	mm	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370
Net weight		kg	32	35	42	50	83
Dining diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) 5)	1/4 (6,35) 5)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) 6	5/8 (15,88) 6	5/8 (15,88)
Pipe length range		m	3~15	3~20	3~40	3~40	5~50
Elevation difference (in / out) 7]		m	15/15	15/15	15/30	20/30	15/30
Pipe length for additional gas		m	7,5	7,5	30	30	30
Additional gas amount		g/m	10	15	15	17	45
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,87/0,59	1,14/0,77	1,15/0,78	1,32/0,89	2,4/1,62
Operating range	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43
operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24

Technical focus

- · Modern design with flat face and compact size
- · DC fan for better efficiency and control
- · Six directional piping outlet
- · nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- · Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- · Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

Quiet operation

These units are among the quietest in the industry, making them ideal for hotels and hospitals.

Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making installation flexible.



CZ-RTC5B











Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW



Optional controller. Infrared remote controller. CZ-RWS3



Optional Econavi sensor. CZ-CENSC1

			Three phase	
			10,0 kW	
Cit			KIT-100PK3Z8	
Remote controller			CZ-RTC5B	
Cooling capacity	Nominal (Min - Max)	kW	9,0 (3,0 - 9,7)	
EER 1)	Nominal (Min - Max)	W/W	3,47 (5,36 - 3,13)	
SEER 2)			6,5 A++	
Pdesign		kW	9,0	
Input power	Nominal (Min - Max)	kW	2,59 (0,56 - 3,10)	
Annual energy consumption 3]		kWh/a	485	
Heating capacity	Nominal (Min - Max)	kW	9,0 (3,0 - 10,5)	
COP 1)	Nominal (Min - Max)	W/W	3,93 (5,36 - 3,56)	
SCOP 21			3,9 A	
Pdesign at -10 °C		kW	9,0	
Input power	Nominal (Min - Max)	kW	2,29 (0,56 - 2,95)	
Annual energy consumption 3		kWh/a	3231	
Indoor unit			S-6010PK3E	
Air flow	Hi / Med / Lo	m³/min	22,0/18,5/15,0	
Moisture removal volume		L/h	4,3	
Sound pressure 4]	Hi / Med / Lo	dB(A)	49/45/41	
Sound power	Hi / Med / Lo	dB(A)	65/61/57	
Dimension	HxWxD	mm	302×1120×236	
Net weight		kg	14	
nanoe X Generator			Mark 2	
Outdoor unit			U-100PZ3E8	
Power supply		V	380 - 400 - 415	
	Cool	A	4,30 - 4,10 - 3,95	
Current	Heat	A	3,80 - 3,65 - 3,50	
Air flow	Cool / Heat	m³/min	73,0/73,0	
Sound pressure	Cool / Heat (Hi)	dB(A)	52/52	
Sound power	Cool / Heat (Hi)	dB(A)	70/70	
Dimension	HxWxD	mm	996 x 980 x 370	
Net weight		kg	83	
	Liquid pipe	Inch (mm)	3/8 (9,52)	
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	
Pipe length range	T. I	m	5~50	
Elevation difference (in / out) 7		m	15/30	
Pipe length for additional gas		m	30	
Additional gas amount		g/m	45	
Refrigerant (R32) / CO, Eq.		kg / T	2,4/1,62	
	Cool Min ~ Max	°C	-10~+43	
Operating range	Heat Min ~ Max	°C	-15~+24	

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}/\eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1 m in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube [\emptyset 6,35- \emptyset 9,52] to the liquid tubing side indoor unit. 6) Connect the gas socket tube [\emptyset 12,70- \emptyset 15,88] to the gas tubing side indoor unit. 7) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoeTM X OFF.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

PAW-PACR3 Interfaces to run 3 units on back-up and alternative run PAW-WTRAY Tray for condenser water compatible with outdoor elevation platform PAW-GRDBSE20 Outdoor base ground support for noise and vibration absorption PAW-GRDSTD40 Outdoor elevation platform 400 x 900 x 400 mm	Accessories	
PAW-GRDBSE20 Outdoor base ground support for noise and vibration absorption PAW-GRDSTD40 Outdoor elevation platform 400x900x400 mm	PAW-PACR3	Interfaces to run 3 units on back-up and alternative run
PAW-GRDSTD40 Outdoor elevation platform 400x900x400 mm	PAW-WTRAY	,
Catalon Station Plane III	PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
	PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1 Econavi energy savings sensor	CZ-CENSC1	Econavi energy savings sensor

























PACi NX Series Elite and Standard 4 way 60x60 cassette Inverter+ · R32

4 way 60x60 cassette - PY3.

- · From 2,5 to 6,0 kW (4 capacity sizes)
- · SEER / SCOP class A++*
- · Built-in drain pump
- \cdot DC drain pump and float switch to reduce the noise
- nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality

^{*} SCOP class A+ in case of 2,5 / 6,0 kW.

Elite				Single phase	
			3,6 kW	5,0 kW	6,0 kW
Kit			KIT-36PY3ZH5	KIT-50PY3ZH5	KIT-60PY3ZH5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,6 (1,2 - 4,0)	5,0 (1,2 - 5,6)	6,0(1,2-6,5)
EER 1)	Nominal (Min - Max)	W/W	4,50 (4,04 - 5,45)	3,76 (3,41 - 5,45)	3,43 (2,77 - 5,45)
SEER 2)			7,3 A++	7,0 A++	6,7 A++
Pdesign		kW	3,6	5,0	6,0
Input power	Nominal (Min - Max)	kW	0,80(0,22-0,99)	1,33 (0,22 - 1,64)	1,75 (0,20 - 2,35)
Annual energy consumption 3		kWh/a	400	685	875
Heating capacity	Nominal (Min - Max)	kW	4,0 (1,2 - 5,0)	5,6 (1,2 - 6,5)	7,0(1,2-7,5)
COP 1)	Nominal (Min - Max)	W/W	4,12(3,45 - 5,45)	3,37 (2,95 - 5,45)	3,35 (3,38 - 5,45)
SCOP 2)			4,7 A++	4,6 A++	4,3 A+
Pdesign at -10 °C		kW	3,6	4,5	4,6
Input power	Nominal (Min - Max)	kW	0,97 (0,22 - 1,45)	1,66 (0,22 - 2,20)	2,09 (0,22 - 2,22)
Annual energy consumption 3		kWh/a	1073	1370	1495
Indoor unit			S-36PY3E	S-50PY3E	S-60PY3E
Air flow	Hi / Med / Lo	m³/min	9,5/7,5/6,0	12,0/9,5/6,5	14,0/10,5/8,0
Moisture removal volume		L/h	1,5	2,5	2,8
Sound pressure 4)	Hi / Med / Lo	dB(A)	34/30/25	39/34/27	43/37/31
Sound power	Hi / Med / Lo	dB(A)	49/45/40	54/49/42	58/52/46
	Indoor (HxWxD)	mm	243×575×575	243 x 575 x 575	243 x 575 x 575
Dimension	Panel (HxWxD)	mm	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625
Net weight	Indoor / Panel	kg	15/2,8	15/2,8	15/2,8
nanoe X Generator			Mark 2	Mark 2	Mark 2
Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5
Power supply		٧	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
	Cool	Α	3,95-3,60-3,60	5,30 - 5,00 - 5,75	8,20 - 7,85 - 7,60
Current	Heat	A	4,75 - 4,55 - 4,35	7,85 - 7,50 - 7,20	9,70 - 9,25 - 8,90
Air flow	Cool / Heat	m³/min	34,1/36,4	42,0/42,0	42,0/42,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43/44	46/48	47/50
Sound power	Cool / Heat (Hi)	dB(A)	62/64	64/67	65/69
Dimension	HxWxD	mm	695×875×320	695×875×320	695 x 875 x 320
Net weight		kg	42	42	43
-	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) 5)
Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) 6)
Pipe length range		m	3~40	3~40	3~40
Elevation difference (in / out) 7)		m	15/30	15/30	15/30
Pipe length for additional gas		m	30	30	30
Additional gas amount		g/m	15	15	15
Refrigerant (R32) / CO ₂ Eq.		kg / T	1,13/0,76	1,13/0,76	1,15/0,78
	Cool Min ~ Max	°C	-15~+46	-15~+46	-15~+46
Operating range	Heat Min ~ Max	°C	-20~+24	-20~+24	-20~+24

Compact and stylish design

- · Ceiling depth is only 250 mm
- · Exposed area is only 30 mm

Industry-leading energy efficiency

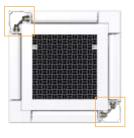
Achieved SEER / SCOP class A++*.

* SCOP class A+ in case of 2,5 / 6,0 kW.

Individual flap control

Better control of the air flow with 4 motors, providing individual flap control.

Perfect air distribution without direct airflow, to reduce the feeling of cold drafts.

































COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION











Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW



Optional controller. Infrared remote controller. CZ-RWS3 + CZ-RWRY3



Optional Econavi sensor. CZ-CENSC1

Standard			Single phase						
			2,5 kW	3,6 kW	5,0 kW	6,0 kW			
Kit			KIT-25PY3Z5	KIT-35PY3Z5	KIT-50PY3Z5	KIT-60PY3Z5			
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B			
Cooling capacity	Nominal (Min - Max)	kW	2,5 (1,5 - 3,9)	3,6 (1,5 - 4,0)	5,0 (1,5 - 5,6)	6,0 (2,0 - 7,0)			
EER 1)	Nominal (Min - Max)	W/W	4,46 (3,55 - 5,88)	3,96 (3,57 - 5,88)	3,50 (3,03 - 6,25)	3,39 (2,77 - 6,90			
SEER 2)			6,5 A++	6,7 A++	7,3 A++	6,8 A++			
Pdesign		kW	2,5	3,6	5,0	6,0			
Input power	Nominal (Min - Max)	kW	0,56 (0,26 - 1,10)	0,91 (0,26 - 1,12)	1,43 (0,24 - 1,85)	1,77 (0,29 - 2,53			
Annual energy consumption 33		kWh/a	134	188	238	3,05			
Heating capacity	Nominal (Min - Max)	kW	3,2 (1,5 - 4,6)	3,6 (1,5 - 4,6)	5,0 (1,5 - 6,4)	6,0 (1,8 - 7,0)			
COP 1)	Nominal (Min - Max)	W/W	4,44 (3,41 - 6,52)	4,29 (3,38 - 6,52)	3,94 (2,91 - 7,50)	3,61 (2,86 - 7,60			
SCOP 21			4,6 A++	4,3 A+	4,4 A+	4,2 A+			
Pdesign at -10 °C		kW	2,8	2,8	4,0	4,6			
Input power	Nominal (Min - Max)	kW	0,72 (0,23 - 1,35)	0,84 (0,23 - 1,36)	1,27 (0,20 - 2,20)	1,66 (0,24 - 2,45			
Annual energy consumption 33		kWh/a	850	912	1264	1500			
Indoor unit			S-25PY3E	S-36PY3E	S-50PY3E	S-60PY3E			
Air flow	Hi / Med / Lo	m³/min	8,5/7,0/6,0	9,5/7,0/6,0	12,0/9,5/6,5	14,0/10,5/8,0			
Moisture removal volume		L/h	0,7	1,5	2,3	2,8			
Sound pressure 4)	Hi / Med / Lo	dB(A)	31/28/25	34/30/25	39/34/27	43/37/31			
Sound power	Hi / Med / Lo	dB(A)	46/43/40	49/45/40	54/49/42	58/52/46			
D: :	Indoor (HxWxD)	mm	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575	243 x 575 x 575			
Dimension	Panel (HxWxD)	mm	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625	30 x 625 x 625			
Net weight	Indoor / Panel	kg	15/2,8	15/2,8	15/2,8	15/2,8			
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2			
Outdoor unit			U-25PZ3E5	U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A			
Power supply		٧	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240			
0 .	Cool	A	2,65 - 2,55 - 2,45	4,20 - 4,05 - 3,85	6,65 - 6,35 - 6,10	8,20 - 7,85 - 7,5			
Current	Heat	A	3,40 - 3,25 - 3,10	3,95 - 3,75 - 3,60	5,695 - 5,70 - 5,45	7,70 - 7,35 - 7,0			
Air flow	Cool / Heat	m³/min	33,6/34,0	32,6/34,0	32,7/31,9	42,6/41,5			
Sound pressure	Cool / Heat (Hi)	dB(A)	46/47	46/47	46/48	47/48			
Sound power	Cool / Heat (Hi)	dB(A)	64/66	64/66	64/64	64/65			
Dimension	HxWxD	mm	619 x 824 x 299	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320			
Net weight		kg	32	32	35	46			
D	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) 5)			
Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) 6			
Pipe length range		m	3~15	3~15	3~20	3~40			
Elevation difference (in / out) 7)		m	15/15	15/15	15/15	15/30			
Pipe length for additional gas		m	7,5	7,5	7,5	30			
Additional gas amount		g/m	10	10	15	15			
Refrigerant (R32) / CO, Eq.		kg / T	0,87/0,59	0,87/0,59	1,14/0,77	1,15/0,78			
0 1:	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43	-10~+43			
Operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24	-15~+24			

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{sc} / \eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube [06,35-09,52] to the liquid tubing side indoor unit. 6) Connect the gas socket tube [012,70-015,88] to the gas tubing side indoor unit. 7) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoeTM X OFF.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRY3	Infrared remote controller and receiver
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
PAW-PACR3	Interfaces to run 3 units on back-up and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor

























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PACi NX Series Elite 4 way 90x90 cassette Inverter+ · R32

4 way 90x90 cassette - PU3.

Powerful turbo fan and intelligent Econavi sensor ensure high energy efficiency, and nanoeTM X, which is equipped as standard, provides an exceptional level of indoor air quality.

No. No							Single phase			
Perfect control Perfect Perf				3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Cooling capacity Nominal (Min-Max) MV S,61(4,-0) S,01(1,-2,5) S,01(2,-5,6) A,01(1,-2,7) T,1(1,2,-9,0) 1,0(1,3,-1,2,5) 1,2(5),2,-1,4,0) 1,4(1,3,-1,6,3) 2,8(1,3,-1,6,3,3) 2,8(1,3,-1,6,3,3) 2,8(1,3,-1,6,3,3) 2,8(1,3,-1,6,3,3) 2,8(1,3,-1,6,3,3) 2,8(1,3,-1,6,3,3) 2,8(1,3,-1,6,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,3,	Kit			KIT-36PU3ZH5	KIT-50PU3ZH5	KIT-60PU3ZH5	KIT-71PU3ZH5	KIT-100PU3ZH5	KIT-125PU3ZH5	KIT-140PU3ZH5
EER Nominal (Min - Max) Nominal (Min	Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Self Placing	Cooling capacity	Nominal (Min - Max)	kW	3,6 (1,2-4,0)	5,0 (1,2 - 5,6)	6,0 (1,2 - 7,1)	7,1 (2,2 - 9,0)	10,0 (3,1 - 12,5)	12,5 (3,2 - 14,0)	14,0 (3,3 - 16,0)
Potesign Nominal (Min-Max	EER 1)	Nominal (Min - Max)	W/W	5,45 (4,60 - 5,45)	4,31 (3,86 - 5,45)	4,05 (3,02 - 5,45)	4,06(2,69-5,79)	4,41 (3,42 - 5,34)	3,80(3,08-5,33)	3,41(2,74-5,32)
Input power Nominal Min-Max Nominal Min-Ma	SEER / $\eta_{s,c}^{2)}$			8,9 A+++	8,6 A+++	8,0 A++	7,7 A++	7,8 A++	304,3 %	286,6 %
Annual energy consumption	Pdesign		kW	3,6	5,0	6,0	7,1	10,0	12,5	14,0
Heating capacity	Input power	Nominal (Min - Max)	kW	0,66(0,22-0,87)	1,16 (0,22 - 1,45)	1,48 (0,22 - 2,35)	1,75(0,38-3,35)	2,27(0,58-3,66)	3,29 (6,00 - 4,55)	4,11 (0,62 - 5,85)
COP 10 Nominal (Min - Max) W/W 5,14(+55-5,65) 4,24(4)-9-5,45) 4,02(3,40-5,45) 4,30(3,16-5,56) 5,00(3,64-5,54) 4,61(3,37-5,52) 4,30(3,27-5,50) SCOP / N _{th} 20 Pdesign at -10 °C kW 3,6 4,5 4,7 5,2 8,0 9,5 10.6 10,12 10,2 2,2 4,8 4,9 4,9 4,9 4,9 4,9 4,9 4,9 4,9 4,9 4,9 4,9 4,9 4,9 4,9 4,9	Annual energy consu	umption ^{3]}	kWh/a	142	203	263	323	449	_	_
SCOP / No.	Heating capacity	Nominal (Min - Max)	kW	4,0 (1,2 - 5,0)	5,6 (1,2 - 6,5)	7,0(1,2-8,0)	8,0(2,0-9,0)	11,2(3,1-14,0)	14,0 (3,2 - 16,0)	16,0 (3,3 - 18,0)
Podesign at -10 °C	COP 1)	Nominal (Min - Max)	W/W	5,41 (4,55 - 5,45)	4,24 (4,19 - 5,45)	4,02 (3,40 - 5,45)	4,30(3,16-5,56)	5,00 (3,64 - 5,54)	4,61 (3,37 - 5,52)	4,30(3,27-5,50)
Podesign at -10 °C	SCOP / $\eta_{s,h}^{2}$			5,1 A+++	4,9 A++	4,8 A++	4,8 A++	4,9 A++	186,0 %	181,2 %
Annual energy consumption Name	Pdesign at -10 °C		kW	3,6	4,5	4,7	5,2	8,0	9,5	10,6
National Hard Hard Hard Hard Hard Hard Hard Hard	Input power	Nominal (Min - Max)	kW	0,74(0,22-1,10)	1,32(0,22-1,55)	1,74(0,22-2,35)	1,86(0,36-2,85)	2,24(0,56-3,85)	3,04(0,58-4,75)	3,72(0,60-5,50)
Air flow	Annual energy consu	umption 3]	kWh/a	988	1286	1371	1517	2286	_	_
Moisture removal volume	Indoor unit			S-3650PU3E	S-3650PU3E	S-6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E
Sound pressure Hi / Med / Lo dB(A) 30/28/27 32/29/27 36/31/28 37/31/28 45/38/32 46/39/33 47/40/34	Air flow	Hi / Med / Lo	m³/min	14,5/13,0/11,5	16,5/13,5/11,5	21,0/16,0/13,0	22,0/16,0/13,0	36,0/26,0/18,0	37,0/27,0/19,0	38,0/29,0/20,0
Sound power Hi / Med / Lo dB(A) 45/43/42 47/44/42 51/46/43 52/46/43 60/53/47 61/54/48 62/55/49 Dimension Indoor (HxWxD) mm 256x840x840 256x840x840 256x840x840 317x840x840 31	Moisture removal vo	lume	L/h	0,7	1,6	1,7	2,5	2,7	4,8	6,0
Dimension Indoor [HxWxD] mm 256 x840 x840 256 x840 x840 256 x840 x840 256 x840 x840 319 x840 x	Sound pressure 4)	Hi / Med / Lo	dB(A)	30/28/27	32/29/27	36/31/28	37/31/28	45/38/32	46/39/33	47/40/34
Panel (HxWxD) mm 33,5x950x950 32,5x950x950 33,5x950x950 30,5x950x950 33,5x950x950 33,5x950x950 33,5x950x950 33,5x950x950 33,5x950x950 33,5x950x950 33,5x950x950 33,5x950x950 32,5x950x950 33,5x950x950 33,5x950x950 33,5x950x950 33,5x950x950 33,5x950x950 33,5x950x950 33,5x950x950 33,5x950x950 34,500x950 32,000x950 32,000x	Sound power	Hi / Med / Lo	dB(A)	45/43/42	47/44/42	51/46/43	52/46/43	60/53/47	61/54/48	62/55/49
Panel HxWxD mm 33,5xy50xy50 40,5xy50 40	D	Indoor (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
nanoe X Generator Mark 1 40 40 48 40 20 - 230 - 240 220 - 230 - 240 220 - 230 - 240 220 - 230 - 240 220 - 230 - 240 220 - 230 - 240 220 - 230 - 240 220 - 230 - 240 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200	Dimension	Panel (HxWxD)	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950
Outdoor unit U-36PZH3ES U-50PZH3ES U-60PZH3ES U-71PZH3ES U-100PZH3ES U-125PZH3ES U-140PZH3ES U-140PZH3ES U-125PZH3ES U-125PZH3ES U-140PZH3ES U-125PZH3ES U-125PZH3ES U-140PZH3ES U-125PZH3ES	Net weight	Indoor / Panel	kg	19/5	19/5	20/5	20/5	25/5	25/5	25/5
Power supply	nanoe X Generator			Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1
Courrent Cool	Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5	U-100PZH3E5	U-125PZH3E5	U-140PZH3E5
Heat A 3,60-3,45-3,30 6,25-6,00-5,75 8,05-7,70-7,40 9,00-8,70-8,35 10,90-10,60-10,10 14,90-14,20-13,60 18,20-17,40-16,70	Power supply		٧	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Heat A 3,60-3,45-3,30 6,25-6,00-5,75 8,05-7,70-7,40 9,00-8,70-8,35 10,90-10,60-10,10 14,90-14,20-13,60 18,20-17,40-16,70 Air flow Cool / Heat m³/min 34,1/36,4 42,0/42,0 42,0/42,0 61,0/60,0 118,0/108,0 125,0/112,0 129,0/116,0 Sound pressure Cool / Heat (Hi) dB[A] 43/44 46/48 47/50 48/50 52/52 53/53 54/54 Sound power Cool / Heat (Hi) dB[A] 62/64 64/67 65/69 65/67 69/69 70/70 71/71 Dimension HxWxD mm 695x875x320 695x875x320 695x875x320 695x875x320 695x875x320 70/6x940x340 1416x940x340 <		Cool	Α	3,25-3,10-3,00	5,50 - 5,25 - 5,05	6,95-6,65-6,35	8,65-8,25-7,95	11,20-10,70-10,30	16,10-15,40-14,70	20,10-19,20-18,40
Sound pressure Cool / Heat (Hi) dB(A) 43/44 46/48 47/50 48/50 52/52 53/53 54/54 Sound power Cool / Heat (Hi) dB(A) 62/64 64/67 65/69 65/67 69/69 70/70 71/71 Dimension HxWxD mm 695x875x320 695x875x320 695x875x320 996x940x340 1416x940x340	Current	Heat	Α	3,60-3,45-3,30	6,25-6,00-5,75	8,05 - 7,70 - 7,40	9,00-8,70-8,35	10,90-10,60-10,10	14,90-14,20-13,60	18,20-17,40-16,70
Sound power Cool / Heat (Hi) dB(A) 62/64 64/67 65/69 65/67 69/69 70/70 71/71 Dimension HxWxD mm 695x875x320 695x875x320 695x875x320 996x940x340 1416x940x340 1416x940x34	Air flow	Cool / Heat	m³/min	34,1/36,4	42,0/42,0	42,0/42,0	61,0/60,0	118,0/108,0	125,0/112,0	129,0/116,0
Dimension HxWxD mm 695x875x320 695x875x320 695x875x320 695x875x320 996x940x340 1416x940x340	Sound pressure	Cool / Heat (Hi)	dB(A)	43/44	46/48	47/50	48/50	52/52	53/53	54/54
Net weight kg 42 42 42 43 65 98 98 98 Piping diameter Liquid pipe Gas pipe Inch (mm) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 3/8 (9,52) 3/8 (Sound power	Cool / Heat (Hi)	dB(A)	62/64	64/67	65/69	65/67	69/69	70/70	71/71
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Dimension	HxWxD	mm	695×875×320	695 x 875 x 320	695 x 875 x 320	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Piping diameter Gas pipe Inch (mm) 1/2 (12,70) 1/2 (12,70) 1/2 (12,70) sign of sig	Net weight		kg	42	42	43	65	98	98	98
Pipe length range m 3 ~ 40 3 ~ 40 5 ~ 50 5 ~ 85 5 ~ 85 5 ~ 85 Elevation difference (in / out) 7 m 15/30 15/3	Dining diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) 5)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Elevation difference (in / out) 71 m 15/30	Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) 6)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length for additional gas m 30 45	Pipe length range		m	3~40	3~40	3~40	5~50	5~85	5~85	5~85
Additional gas amount g/m 15 15 15 45 45 45 45 45 A5 Refrigerant (R32) / CO ₂ Eq. kg / T 1,13/0,76 1,13/0,76 1,15/0,78 1,95/1,32 3,05/2,06 3,05/2,06 3,05/2,06 Operating range Cool Min ~ Max °C -15~+46 -15~+46 -15~+46 -15~+48 -20~+48 8	Elevation difference (in / out) 7 m		m	15/30	15/30	15/30	15/30	15/30	15/30	15/30
Refrigerant (R32) / CO ₂ Eq. kg / T 1,13/0,76 1,13/0,76 1,15/0,78 1,95/1,32 3,05/2,06 3,05/2,06 3,05/2,06 Operating range Cool Min ~ Max °C -15~+46 -15~+46 -15~+46 -15~+48 -20~+48 8 -20~+48 8 -20~+48 8	Pipe length for additional gas m		m	30	30	30	30	30	30	30
Operating range Cool Min ~ Max °C -15~+46 -15~+46 -15~+46 -20~+48 8 -20~+48 8 -20~+48 8 -20~+48 8	Additional gas amount g/m		15	15	15	45	45	45	45	
Operating range	Refrigerant (R32) / C	0, Eq.	kg / T	1,13/0,76	1,13/0,76	1,15/0,78	1,95/1,32	3,05/2,06	3,05/2,06	3,05/2,06
Uperating range Heat Min ~ Max °C -20~+24 -20~+24 -20~+24 -20~+24 -20~+24 -20~+24 -20~+24 -20~+24	0 ':	Cool Min ~ Max	°C	-15~+46	-15~+46	-15~+46	-15~+48	-20~+48 ^{8]}	-20~+48 ⁸⁾	-20~+48 ^{8]}
	Operating range	Heat Min ~ Max	°C	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24

Technical focus

- $\cdot \ \mathsf{High} \ \mathsf{performance} \ \mathsf{turbo} \ \mathsf{fan}$
- \cdot Econavi: An optional intelligent sensor to reduce waste of energy
- · nanoeTM X (Generator Mark 1= 4,8 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoeTM X and dry operation
- \cdot Lower noise in slow fan operation
- · Light weight, easy piping and integrated drain pump for quick installation
- · Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- · High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)





CZ-KPU3W

















Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW



Optional controller. Infrared remote controller. CZ-RWS3 +

CZ-RWRU3W

				Three	phase	
			7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-71PU3ZH8	KIT-100PU3ZH8	KIT-125PU3ZH8	KIT-140PU3ZH
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	7,1 (2,2 - 9,0)	10,0 (3,1 - 12,5)	12,5 (3,2 - 14,0)	14,0 (3,3 - 16,0)
EER 1)	Nominal (Min - Max)	W/W	4,06 (2,69 - 5,79)	4,41 (3,42 - 5,34)	3,80 (3,08 - 5,33)	3,41 (2,74 - 5,82
SEER / $\eta_{s,c}^{2)}$			7,6 A++	7,7 A++	303,3 %	285,6 %
Pdesign		kW	7,1	10,0	12,5	14,0
Input power	Nominal (Min - Max)	kW	1,75 (0,38 - 3,35)	2,27 (0,58 - 3,65)	3,29 (0,60 - 4,55)	4,11 (0,62 - 5,85
Annual energy consumption 3]		kWh/a	327	455	_	_
Heating capacity	Nominal (Min - Max)	kW	8,0 (2,0 - 9,0)	11,2 (3,1 - 14,0)	14,0 (3,2 - 16,0)	16,0 (3,3 - 18,0)
COP 1]	Nominal (Min - Max)	W/W	4,30 (3,16 - 5,56)	5,00 (3,64 - 5,54)	4,61 (3,37 - 5,52)	4,30 (3,27 - 5,50
SCOP / $\eta_{s,h}^{2)}$			4,8 A++	4,9 A++	186,0 %	181,1 %
Pdesign at -10 °C		kW	5,2	8,0	9,5	10,6
Input power	Nominal (Min - Max)	kW	1,86 (0,36 - 2,85)	2,24(0,56-3,85)	3,04 (0,58 - 4,75)	3,72 (0,60 - 5,50
Annual energy consumption 3		kWh/a	1517	2286	_	_
Indoor unit			S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E
Air flow	Hi / Med / Lo	m³/min	22,0/16,0/13,0	36,0/26,0/18,0	37,0/27,0/19,0	38,0/29,0/20,0
Moisture removal volume		L/h	2,5	2,7	4,8	6,0
Sound pressure 4]	Hi / Med / Lo	dB(A)	37/31/28	45/38/32	46/39/33	47/40/34
Sound power	Hi / Med / Lo	dB(A)	52/46/43	60/53/47	61/54/48	62/55/49
	Indoor (HxWxD)	mm	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Dimension	Panel (HxWxD)	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 950
Net weight	Indoor / Panel	kg	20/5	25/5	25/5	25/5
nanoe X Generator			Mark 1	Mark 1	Mark 1	Mark 1
Outdoor unit			U-71PZH3E8	U-100PZH3E8	U-125PZH3E8	U-140PZH3E8
Power supply		٧	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Cool	Α	2,90 - 2,80 - 2,70	3,80 - 3,60 - 3,45	5,45 - 5,15 - 5,00	6,80 - 6,45 - 6,20
Current	Heat	Α	3,05 - 2,95 - 2,85	3,75 - 3,55 - 3,40	5,10 - 4,80 - 4,65	6,20 - 5,90 - 5,65
Air flow	Cool / Heat	m³/min	61,0/60,0	118,0/108,0	125,0/112,0	129,0/116,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	53/53	54/54
Sound power	Cool / Heat (Hi)	dB(A)	65/67	69/69	70/70	71/71
Dimension	HxWxD	mm	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Net weight		kg	65	98	98	98
D: : :: :	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5~50	5~85	5~85	5~85
Elevation difference (in / out) 7)		m	15/30	15/30	15/30	15/30
Pipe length for additional gas		m	30	30	30	30
Additional gas amount		g/m	45	45	45	45
Refrigerant (R32) / CO, Eq.		kg / T	1,95/1,32	3,05/2,06	3,05/2,06	3,05/2,06
, .	Cool Min ~ Max	°C	-15~+48	-20~+48 ⁸	-20~+48 ^{8]}	-20~+48 ⁸⁾
Operating range	Heat Min ~ Max	°C	-20~+24	-20~+24	-20~+24	-20~+24

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the η_{n_e} / η_{n_e} values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube [06,35-09,52] to the liquid tubing side indoor unit. 6) Connect the gas socket tube [012,70-015,88] to the gas tubing side indoor unit located lower / outdoor unit located higher. 8) For models 100 – 140PZH3E5(8), it is possible to operate the lowest -20 °C in the computer rooms with the piping length of 30 m or less. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoeTM X OFF.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRU3W	Infrared remote controller and receiver
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
CZ-KPU3AW	Econavi exclusive panel
PAW-PACR3	Interfaces to run 3 units on back-up and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-FDU3+CZ-ATU2	Fresh air-intake kit

























PACi NX Series Standard 4 way 90x90 cassette Inverter+ . R32

4 way 90x90 cassette - PU3.

Powerful turbo fan and intelligent Econavi sensor ensure high energy efficiency, and nanoeTM X, which is equipped as standard, provides an exceptional level of indoor air quality.

						Single phase			
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-36PU3Z5	KIT-50PU3Z5	KIT-60PU3Z5	KIT-71PU3Z5	KIT-100PU3Z5	KIT-125PU3Z5	KIT-140PU3Z5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,6(1,5-4,0)	5,0 (1,5 - 5,6)	6,0 (2,0 - 7,1)	7,1 (2,6 - 7,7)	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
EER 1)	Nominal (Min - Max)	W/W	4,34 (5,88-3,81)	3,91 (6,25-3,20)	3,73 (6,90-3,01)	3,27 (5,00-2,77)	3,82 (2,88 - 5,36)	3,58 (2,81 - 5,33)	3,23(2,73-5,32)
SEER / $\eta_{s,c}^{2)}$			8,1 A++	8,0 A++	7,8 A++	6,8 A++	6,8 A++	267,0 %	257,0 %
Pdesign		kW	3,6	5,0	6,0	7,1	10,0	12,5	14,0
Input power	Nominal (Min - Max)	kW	0,83 (0,25-1,05)	1,28 (0,24-1,75)	1,61 (0,29-2,36)	2,17 (0,52-2,78)	2,62(0,56-4,00)	3,49 (0,60 - 4,80)	4,34(0,62-5,50)
Annual energy cons	umption 3)	kWh/a	156	219	269	365	515	_	_
Heating capacity	Nominal (Min - Max)	kW	3,6(1,5-4,6)	5,0 (1,5 - 6,4)	6,0 (1,8 - 7,0)	7,1(2,1-8,1)	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
COP 1)	Nominal (Min - Max)	W/W	5,07 (4,32 - 6,52)	4,63 (3,48 - 7,50)	4,48 (3,18 - 7,50)	4,23 (3,38 - 6,36)	4,93 (3,59 - 5,36)	4,43 (3,57 - 5,50)	4,18(3,33-5,48)
SCOP / 1 ,,h 2)			4,8 A++	4,7 A++	4,9 A++	4,6 A++	4,4 A+	157,0 %	152,2 %
Pdesign at -10 °C		kW	2,8	4,0	4,6	5,2	10,0	12,5	14,0 (at -7 °C)
Input power	Nominal (Min - Max)	kW	0,71 (0,23-1,06)	1,08 (0,20-1,84)	1,34 (0,24-2,20)	1,68 (0,33-2,40)	2,03 (0,56 - 3,90)	2,82(0,60-4,20)	3,35(0,62-4,80)
Annual energy cons	umption ³⁾	kWh/a	817	1191	1314	1583	3182	_	_
Indoor unit			S-3650PU3E	S-3650PU3E	S-6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E
Air flow	Hi / Med / Lo	m³/min	14,5/13,0/11,5	16,5/13,5/11,5	21,0/16,0/13,0	22,0/16,0/13,0	36,0/26,0/18,0	37,0/27,0/19,0	38,0/29,0/20,0
Moisture removal volume		L/h	0,7	1,6	1,7	2,5	2,7	4,8	6,0
Sound pressure 4)	Hi / Med / Lo	dB(A)	30/28/27	32/29/27	36/31/28	37/31/28	45/38/32	46/39/33	47/40/34
Sound power	Hi / Med / Lo	dB(A)	45/43/42	47/44/42	51/46/43	52/46/43	60/53/47	61/54/48	62/55/49
Dimension	Indoor (HxWxD)	mm	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840			
Dimension	Panel (HxWxD)	mm	33,5 x 950 x 950	33,5 x 950 x 950					
Net weight	Indoor / Panel	kg	19/5	19/5	20/5	20/5	25/5	25/5	25/5
nanoe X Generator			Mark 1	Mark 1					
Outdoor unit			U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5	U-125PZ3E5	U-140PZ3E5
Power supply		٧	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
0	Cool	Α	3,85-3,70-3,55	5,95-5,70-5,45	7,45 - 7,15 - 6,85	10,00-9,65-9,25	13,10-12,50-12,00	16,90-16,10-15,40	21,00-20,00-19,20
Current	Heat	Α	3,35-3,20-3,05	5,05-4,85-4,65	6,20 - 5,95 - 5,70	7,80 - 7,45 - 7,15	10,10-9,70-9,30	13,60-13,00-12,50	16,20-15,50-14,80
Air flow	Cool / Heat	m³/min	33,6/34,0	32,7/31,9	42,6/41,5	44,7/45,9	73,0/73,0	82,0/80,0	84,0/82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	46/47	46/46	47/48	48/49	52/52	55/55	56/56
Sound power	Cool / Heat (Hi)	dB(A)	64/66	64/64	64/65	66/68	70/70	73/73	74/74
Dimension	HxWxD	mm	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	32	35	42	50	83	87	87
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) 5)	1/4 (6,35) 5)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) 6)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range m		m	3~15	3~20	3~40	3~40	5~50	5~50	5~50
Elevation difference (in / out) 71 m		m	15/15	15/15	15/30	20/30	15/30	15/30	15/30
Pipe length for addit	tional gas	m	7,5	7,5	30	30	30	30	30
Additional gas amount g/m		g/m	10	15	15	17	45	45	45
Refrigerant (R32) / 0	CO ₂ Eq.	kg / T	0,87/0,59	1,14/0,77	1,15/0,78	1,32/0,89	2,40/1,62	2,80/1,89	2,80/1,89
On anoting page	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43
Operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24

Technical focus

- $\cdot \ \mathsf{High} \ \mathsf{performance} \ \mathsf{turbo} \ \mathsf{fan}$
- \cdot Econavi: An optional intelligent sensor to reduce waste of energy
- · nanoeTM X (Generator Mark 1= 4,8 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoeTM X and dry operation
- · Lower noise in slow fan operation
- · Light weight, easy piping and integrated drain pump for quick installation
- · Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)





Standard panel. CZ-KPU3W

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

CZ-RTC5B









Optional Econavi panel (CZ-RTC5B is required). CZ-KPU3AW

CONEX



Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW





controller. CZ-RWS3 + CZ-RWRU3W

				Three phase	
			10,0 kW	12,5 kW	14,0 kW
Kit			KIT-100PU3Z8	KIT-125PU3Z8	KIT-140PU3Z8
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
EER 1)	Nominal (Min - Max)	W/W	3,82(2,88 - 5,36)	3,58 (2,81 - 5,33)	3,23 (2,73 - 5,32)
SEER / $\eta_{s,c}^{2)}$			6,7 A++	265,8 %	256,2 %
Pdesign		kW	10,0	12,5	14,0
Input power	Nominal (Min - Max)	kW	2,62(0,56 - 4,00)	3,49 (0,60 - 4,80)	4,34 (0,62 - 5,50
Annual energy consumption 33		kWh/a	521	_	_
Heating capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
COP 1)	Nominal (Min - Max)	W/W	4,93 (3,59 - 5,36)	4,43 (3,57 - 5,50)	4,18 (3,33 - 5,48
SCOP / η _{s,h} ²⁾			4,4 A+	157,0 %	152,2 %
Pdesign at -10 °C		kW	10,0	12,5	14,0 (at -7 °C)
Input power	Nominal (Min - Max)	kW	2,03 (0,56 - 3,90)	2,82 (0,60 - 4,20)	3,35 (0,62 - 4,80)
Annual energy consumption 33		kWh/a	3182	_	_
Indoor unit			S-1014PU3E	S-1014PU3E	S-1014PU3E
Air flow	Hi / Med / Lo	m³/min	36,0/26,0/18,0	37,0/27,0/19,0	38,0/29,0/20,0
Moisture removal volume		L/h	2,7	4,8	6,0
Sound pressure 4]	Hi / Med / Lo	dB(A)	45/38/32	46/39/33	47/40/34
Sound power	Hi / Med / Lo	dB(A)	60/53/47	61/54/48	62/55/49
	Indoor (HxWxD)	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Dimension	Panel (HxWxD)	mm	33,5 x 950 x 950	33,5 x 950 x 950	33,5 x 950 x 95
Net weight	Indoor / Panel	kg	25/5	25/5	25/5
nanoe X Generator			Mark 1	Mark 1	Mark 1
Outdoor unit	7		U-100PZ3E8	U-125PZ3E8	U-140PZ3E8
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Cool	A	4,35 - 4,15 - 4,00	5,65 - 5,35 - 5,15	7,00 - 6,65 - 6,40
Current	Heat	A	3,40 - 3,20 - 3,10	4,55 - 4,35 - 4,15	5,40 - 5,15 - 4,95
Air flow	Cool / Heat	m³/min	73,0/73,0	82,0/80,0	84,0/82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52/52	55/55	56/56
Sound power	Cool / Heat (Hi)	dB(A)	70/70	73/73	74/74
Dimension	HxWxD	mm	996 x 980 x 370	996×980×370	996 x 980 x 370
Net weight		kg	83	87	87
D: : 1: .	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8(9,52)
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5~50	5~50	5~50
Elevation difference (in / out) 7)		m	15/30	15/30	15/30
Pipe length for additional gas	7	m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO, Eq.		kg / T	2,40/1,62	2,80/1,89	2,80/1,89
, .	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43
Operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the η_{s,c} / η_{s,h} values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube [Ø6,35-Ø9,52] to the liquid tubing side indoor unit. 6) Connect the gas socket tube [Ø12,70-Ø15,88] to the gas tubing side indoor unit. 7) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoe™ X OFF.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRU3W	Infrared remote controller and receiver
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
CZ-KPU3AW	Econavi exclusive panel
PAW-PACR3	Interfaces to run 3 units on back-up and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-FDU3+CZ-ATU2	Fresh air-intake kit

























PACi NX Series Elite ceiling Inverter+ · R32

Ceiling mounted units provide large and wide air distribution which is good for big rooms.

The height and depth of all capacities are the same for unified appearance in mixed installations.

						Single phase			
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-36PT3ZH5	KIT-50PT3ZH5	KIT-60PT3ZH5	KIT-71PT3ZH5	KIT-100PT3ZH5	KIT-125PT3ZH5	KIT-140PT3ZH5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,5(1,2-4,0)	5,0 (1,2 - 5,6)	6,0 (1,2 - 7,1)	6,8(2,2-9,0)	9,5 (3,1 - 12,5)	12,1(3,2-14,0)	13,4 (3,3 - 16,0)
EER 1)	Nominal (Min - Max)	W/W	4,86 (4,55 - 5,45)	4,03(3,57 - 5,45)	3,82(3,02 - 5,45)	3,91 (2,69 - 5,79)	4,15(3,29 - 5,54)	3,51 (3,01 - 5,33)	3,21(2,67-5,32)
SEER / $\eta_{s,c}^{2)}$			7,7 A++	7,4 A++	7,5 A++	7,3 A++	7,3 A++	278,4 %	263,3 %
Pdesign		kW	3,5	5,0	6,0	6,8	9,5	12,1	13,4
Input power	Nominal (Min - Max)	kW	0,72(0,22-0,88)	1,24 (0,22 - 1,57)	1,57 (0,22 - 2,35)	1,74(0,38-3,35)	2,29 (0,58 - 3,80)	3,45 (0,60 - 4,65)	4,17(0,62-6,00)
Annual energy consu	ımption ³⁾	kWh/a	160	237	280	326	456	_	_
Heating capacity	Nominal (Min - Max)	kW	4,0(1,2-5,0)	5,6 (1,2 - 6,5)	7,0 (1,2 - 8,0)	8,0(2,0-9,0)	11,2(3,1-14,0)	14,0(3,2-16,0)	16,0 (3,3 - 18,0)
COP 1)	Nominal (Min - Max)	W/W	5,00 (4,17 - 5,45)	4,03 (3,94 - 5,45)	4,14 (3,40 - 5,45)	3,96(3,16-5,56)	4,09 (3,54 - 5,54)	3,78 (3,20 - 5,52)	3,48(3,10-5,50)
SCOP / N _{s,h} 2)			4,9 A++	4,8 A++	4,8 A++	4,7 A++	4,7 A++	181,0 %	178,0 %
Pdesign at -10 °C		kW	3,1	4,0	4,6	4,7	7,8	9,5	10,2
Input power	Nominal (Min - Max)	kW	0,80 (0,22 - 1,20)	1,39 (0,22 - 1,65)	1,69 (0,22 - 2,35)	2,02(0,36-2,85)	2,74(0,56-3,95)	3,70 (0,58 - 5,00)	4,60(0,60-5,80)
Annual energy consu	ımption ^{3]}	kWh/a	886	1167	1342	1400	2323	_	_
Indoor unit			S-3650PT3E	S-3650PT3E	S-6071PT3E	S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E
Air flow	Hi / Med / Lo	m³/min	14,0/12,0/10,5	15,0/12,5/10,5	20,0/17,0/14,5	21,0/18,0/15,5	30,0/25,0/23,0	34,0/28,0/24,0	35,0/29,0/25,0
Moisture removal vo	lume	L/h	0,8	2,0	2,1	2,7	3,6	5,4	6,4
Sound pressure 4)	Hi / Med / Lo	dB(A)	36/32/28	37/33/28	38/34/29	39/35/30	42/37/34	46/40/35	47/41/36
Sound power	Hi / Med / Lo	dB(A)	54/50/46	55/51/46	56/52/47	57/53/48	60/55/52	64/58/53	65/59/54
Dimension	HxWxD	mm	235 x 960 x 690	235 x 960 x 690	235 x 1275 x 690	235 x 1275 x 690	235 x 1590 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	26	26	34	34	40	40	40
nanoe X Generator			Mark 2	Mark 2	Mark 2				
Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5	U-100PZH3E5	U-125PZH3E5	U-140PZH3E5
Power supply		٧	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
C	Cool	Α	3,55 - 3,40 - 3,25	5,85-5,60-5,40	7,35 - 7,05 - 6,75	8,60-8,20-7,90	11,30-10,80-10,40	16,90-16,10-15,50	20,40-19,50-18,70
Current	Heat	Α	3,90-3,75-,3,60	6,60-6,30-6,05	7,85 - 7,50 - 7,20	9,75-9,45-9,05	13,40-12,90-12,40	18,10-17,30-16,60	22,50-21,50-20,60
Air flow	Cool / Heat	m³/min	34,1/36,4	42,0/42,0	42,0/42,0	61,0/60,0	118,0/108,0	125,0/112,0	129,0/116,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43/44	46/48	47/50	48/50	52/52	53/53	54/54
Sound power	Cool / Heat (Hi)	dB(A)	62/64	64/67	65/69	65/67	69/69	70/70	71/71
Dimension	HxWxD	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Net weight		kg	42	42	43	65	98	98	98
Dining diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) 5)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) 6)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3~40	3~40	3~40	5~50	5~85	5~85	5~85
Elevation difference (in / out) 71 m		m	15/30	15/30	15/30	15/30	15/30	15/30	15/30
Pipe length for addit	ional gas	m	30	30	30	30	30	30	30
Additional gas amou	nt	g/m	15	15	15	45	45	45	45
Refrigerant (R32) / C	O ₂ Eq.	kg / T	1,13/0,76	1,13/0,76	1,15/0,78	1,95/1,32	3,05/2,06	3,05/2,06	3,05/2,06
On anoting name:	Cool Min ~ Max	°C	-15~+46	-15~+46	-15~+46	-15~+48	-20~+48 ⁸⁾	-20~+48 ^{8]}	-20~+48 ^{8]}
Operating range	Heat Min ~ Max	°C	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24

Technical focus

- · Wide air distribution for large rooms
- · Horizontal air flow reaches maximum 9,5 m
- · Fresh air connection available on the unit
- · Slim design with 235 mm height fits narrow space
- · Silent operation
- · nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- · Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- \cdot Twin, Triple and Double-twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Further comfort improvement with air flow distribution

Horizontal air flow reaches maximum 9,5 m. This is ideal for wide rooms.

The wide air discharge opening expands the air flow to the left and right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.















Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW



Optional controller. Infrared remote controller. CZ-RWS3 +

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CZ-RWRT3



CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Optional Econavi sensor. CZ-CENSC1

				Three	phase			
			7,1 kW	10,0 kW	12,5 kW	14,0 kW		
Kit			KIT-71PT3ZH8	KIT-100PT3ZH8	KIT-125PT3ZH8	KIT-140PT3ZH		
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B		
Cooling capacity	Nominal (Min - Max)	kW	6,8 (2,2 - 9,0)	9,5 (3,1 - 12,5)	12,1 (3,2 - 14,0)	13,4 (3,3 - 16,0)		
EER 1)	Nominal (Min - Max)	W/W	3,91 (2,69 - 5,79)	4,15(3,29 - 5,34)	3,51 (3,01 - 5,33)	3,21 (2,67 - 5,32		
SEER / $\eta_{s,c}$ 2)			7,2 A++	7,2 A++	277,3 %	262,4 %		
Pdesign		kW	6,8	9,5	12,1	13,4		
Input power	Nominal (Min - Max)	kW	1,74 (0,38 - 3,35)	2,29 (0,58 - 3,80)	3,45 (0,60 - 4,65)	4,17(0,62-6,00		
Annual energy consumption 33		kWh/a	331	462	_	_		
Heating capacity	Nominal (Min - Max)	kW	8,0 (2,0 - 9,0)	11,2(3,1-14,0)	14,0 (3,2 - 16,0)	16,0 (3,3 - 18,0)		
COP 1)	Nominal (Min - Max)	W/W	3,96 (3,16 - 5,56)	4,09 (3,54 - 5,54)	3,78 (3,20 - 5,52)	3,48 (3,10 - 5,50		
SCOP / $\eta_{s,h}^{-2}$			4,7 A++	4,7 A++	180,9 %	178,0 %		
Pdesign at -10 °C		kW	4,7	7,8	9,5	10,2		
Input power	Nominal (Min - Max)	kW	2,02(0,36 - 2,85)	2,74(0,56-3,95)	3,70 (0,58 - 5,00)	4,60 (0,60 - 5,80		
Annual energy consumption 3	· · · · · · · · · · · · · · · · · · ·	kWh/a	1400	2324	_	_		
Indoor unit		<u> </u>	S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E		
Air flow	Hi / Med / Lo	m³/min	21,0/18,0/15,5	30,0/25,0/23,0	34,0/28,0/24,0	35,0/29,0/25,0		
Moisture removal volume		L/h	2.7	3.6	5.4	6.4		
Sound pressure 4)	Hi / Med / Lo	dB(A)	39/35/30	42/37/34	46/40/35	47/41/36		
Sound power	Hi / Med / Lo	dB(A)	57/53/48	60/55/52	64/58/53	65/59/54		
Dimension	HxWxD	mm	235 x 1275 x 690	235 x 1590 x 690	235 x 1590 x 690	235 x 1590 x 690		
Net weight		kg	34	40	40	40		
nanoe X Generator		9	Mark 2	Mark 2	Mark 2	Mark 2		
Outdoor unit		-	U-71PZH3E8	U-100PZH3E8	U-125PZH3E8	U-140PZH3E8		
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415		
,	Cool	Α	2,90 - 2,80 - 2,70	3,80 - 3,65 - 3,45	5,70 - 5,40 - 5,20	6,90 - 6,55 - 6,30		
Current	Heat	A	3,35-3,20-3,10	4,55 - 4,35 - 4,15	6,20 - 5,85 - 5,65	7,70 - 7,30 - 6,9		
Air flow	Cool / Heat	m³/min	61,0/60,0	118,0/108,0	125,0/112,0	129,0/116,0		
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	53/53	54/54		
Sound power	Cool / Heat (Hi)	dB(A)	65/67	69/69	70/70	71/71		
Dimension	HxWxD	mm	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416x940x340		
Net weight		kg	65	98	98	98		
	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)		
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)		
Pipe length range	ous pipe	m	5~50	5~85	5~85	5~85		
Elevation difference (in / out) 7]		m	15/30 ⁸⁾	15/30	15/30	15/30		
Pipe length for additional gas			30	30	30	30		
Additional gas amount		g/m	45	45	45	45		
Refrigerant (R32) / CO, Eq.		kg / T	1.95/1.32	3.05/2.06	3.05/2.06	3.05/2.06		
	Cool Min ~ Max	°C	-15~+48	-20~+48 ⁸⁾	-20~+48 ⁸⁾	-20~+48 ⁸		
Operating range	Heat Min ~ Max	°C	-13~+48 -20~+24	-20~+48	-20~+48	-20~+24		

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the η_{sc}/η_{ch} values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1 m in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube (θ_{cd} , 35- θ_{cd} , 20) to the liquid tubing side indoor unit. 6) Connect the gas socket tube (θ_{cd} , 37- θ_{cd} , 38) to the gas tubing side indoor unit. 7) Outdoor unit located lower / outdoor unit located tower / outdoor / o

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRT3	Infrared remote controller and receiver
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
PAW-PACR3	Interfaces to run 3 units on back-up and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor























PACi NX Series Standard ceiling Inverter+ · R32

Ceiling mounted units provide large and wide air distribution which is good for big rooms.

The height and depth of all capacities are the same for unified appearance in mixed installations.

						Single phase			
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-36PT3Z5	KIT-50PT3Z5	KIT-60PT3Z5	KIT-71PT3Z5	KIT-100PT3Z5	KIT-125PT3Z5	KIT-140PT3Z5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,5(1,5-4,0)	5,0 (1,5 - 5,2)	6,0 (2,0 - 7,1)	6,8(2,6-7,7)	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
EER 1)	Nominal (Min - Max)	W/W	4,14 (3,69 - 5,17)	3,03(2,86-5,00)	3,59 (2,90 - 6,90)	3,24(2,75-4,91)	3,64 (2,80 - 5,36)	3,32 (2,77 - 5,33)	2,98(2,73-5,32)
SEER / $\eta_{s,c}^{2)}$			7,2 A++	6,7 A++	7,3 A++	5,9 A+	6,6 A++	241,7 %	228,8 %
Pdesign		kW	3,5	5,0	6,0	6,8	10,0	12,5	14,0
Input power	Nominal (Min - Max)	kW	0,85 (0,29 - 1,10)	1,65(0,30-1,82)	1,67 (0,29 - 2,45)	2,10(0,53-2,80)	2,75 (0,56 - 4,10)	3,76 (0,60 - 4,88)	4,70(0,62-5,50)
Annual energy consu	umption ^{3]}	kWh/a	171	262	288	404	531	_	_
Heating capacity	Nominal (Min - Max)	kW	3,5(1,5-4,6)	5,0 (1,5 - 6,4)	6,0 (1,8 - 7,0)	6,8(2,1-8,1)	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)
COP 1)	Nominal (Min - Max)	W/W	4,61 (3,51 - 5,70)	3,73 (3,12 - 6,25)	4,11 (2,92 - 6,67)	4,20 (3,06 - 5,68)	4,24 (3,30 - 5,36)	3,89 (3,41 - 4,52)	3,70(3,08-5,48)
SCOP / N _{s,h} 2)			4,4 A+	4,1 A+	4,6 A++	4,3 A+	4,2 A+	147,4 %	145,3 %
Pdesign at -10 °C		kW	2,8	4,0	4,6	4,7	10,0	12,5	13,6
Input power	Nominal (Min - Max)	kW	0,76 (0,26 - 1,31)	1,34(0,24-2,05)	1,46 (0,27 - 2,40)	1,62(0,37-2,65)	2,36 (0,56 - 4,00)	3,21 (0,73 - 4,40)	3,78(0,62-5,20)
Annual energy consu	umption 3]	kWh/a	891	1365	1399	1529	3331	_	_
Indoor unit			S-3650PT3E	S-3650PT3E	S-6071PT3E	S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E
Air flow	Hi / Med / Lo	m³/min	14,0/12,0/10,5	15,0/12,5/10,5	20,0/17,0/14,5	21,0/18,0/15,5	30,0/25,0/23,0	34,0/28,0/24,0	35,0/29,0/25,0
Moisture removal vo	lume	L/h	0,8	2,0	2,1	2,7	4,1	5,7	6,9
Sound pressure 4)	Hi / Med / Lo	dB(A)	36/32/28	37/33/28	38/34/29	39/35/30	42/37/34	46/40/35	47/41/36
Sound power	Hi / Med / Lo	dB(A)	54/50/46	55/51/46	56/52/47	57/53/48	60/55/52	64/58/53	65/59/54
Dimension	HxWxD	mm	235 x 960 x 690	235 x 960 x 690	235 x 1275 x 690	235 x 1275 x 690	235 x 1590 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	26	26	34	34	40	40	40
nanoe X Generator			Mark 2	Mark 2					
Outdoor unit			U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5	U-125PZ3E5	U-140PZ3E5
Power supply		٧	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
	Cool	Α	3,90-3,75-3,60	7,65 - 7,30 - 7,00	7,75 - 7,40 - 7,10	9,75-9,30-8,95	13,70-13,10-12,60	18,20-17,40-16,70	22,70-21,70-20,80
Current	Heat	Α	3,55 - 3,40 - 3,25	6,30 - 6,00 - 5,75	6,75 - 6,50 - 6,20	7,50 - 7,20 - 6,90	11,80-11,30-10,80	15,50-14,80-14,20	18,30-17,50-16,80
Air flow	Cool / Heat	m³/min	33,6/34,0	32,7/31,9	42,6/41,5	44,7/45,9	73,0/73,0	82,0/80,0	84,0/82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	46/47	46/46	47/48	48/49	52/52	55/55	56/56
Sound power	Cool / Heat (Hi)	dB(A)	64/66	64/64	64/65	66/68	70/70	73/73	74/74
Dimension	HxWxD	mm	619 x 824 x 299	619 x 824 x 299	695 x 875 x 320	695 x 875 x 320	996×980×370	996 x 980 x 370	996×980×370
Net weight		kg	32	35	42	50	83	87	87
Distant discussion	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) 5)	1/4 (6,35) 5)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) 6)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3~15	3~20	3~40	3~40	5~50	5~50	5~50
Elevation difference (in / out) 7) m		m	15/15	15/15	15/30	20/30	15/30	15/30	15/30
Pipe length for addit	ional gas	m	7,5	7,5	30	30	30	30	30
Additional gas amou	nt	g/m	10	15	15	17	45	45	45
Refrigerant (R32) / C	0 ₂ Eq.	kg / T	0,87/0,59	1,14/0,77	1,15/0,78	1,32/0,89	2,40/1,62	2,80/1,89	2,80/1,89
0	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43
Operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24

Technical focus

- · Wide air distribution for large rooms
- · Horizontal air flow reaches maximum 9,5 m
- · Fresh air connection available on the unit
- · Slim design with 235 mm height fits narrow space
- · Silent operation
- · nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- \cdot Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- \cdot Single and twin options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Further comfort improvement with air flow distribution

Horizontal air flow reaches maximum 9,5 m. This is ideal for wide rooms.

The wide air discharge opening expands the air flow to the left and right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.



CZ-RTC5B













Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW



Optional controller. Infrared remote controller.

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CZ-RWS3 + CZ-RWRT3



Optional Econavi sensor. CZ-CENSC1

				Three phase	
			10,0 kW	12,5 kW	14,0 kW
Kit			KIT-100PT3Z8	KIT-125PT3Z8	KIT-140PT3Z8
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)
EER ¹⁾	Nominal (Min - Max)	W/W	3,64 (3,50 - 5,36)	3,32 (2,77 - 5,33)	2,98 (2,73 - 5,32
SEER / $\eta_{s,c}^{2)}$			6,5 A++	241,7 %	228,8 %
Pdesign		kW	10,0	12,5	14,0
Input power	Nominal (Min - Max)	kW	2,75 (0,56 - 4,10)	3,76 (0,60 - 4,88)	4,70 (0,62 - 5,50
Annual energy consumption 3		kWh/a	537	_	_
Heating capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0(3,4-16,0)
COP 1)	Nominal (Min - Max)	W/W	4,24(3,50 - 5,36)	3,89 (3,41 - 4,52)	3,70 (3,08 - 5,48
SCOP / $\eta_{s,h}^{2J}$			4,2 A+	147,4 %	145,3 %
Pdesign at -10 °C		kW	10,0	12,5	13,6
Input power	Nominal (Min - Max)	kW	2,36 (0,56 - 4,00)	3,21 (0,73 - 4,40)	3,78 (0,62 - 5,20
Annual energy consumption 3		kWh/a	3331	_	_
Indoor unit			S-1014PT3E	S-1014PT3E	S-1014PT3E
Air flow	Hi / Med / Lo	m³/min	30,0/25,0/23,0	34,0/28,0/24,0	35,0/29,0/25,0
Moisture removal volume		L/h	4,1	5,7	6,9
Sound pressure 4]	Hi / Med / Lo	dB(A)	42/37/34	46/40/35	47/41/36
Sound power	Hi / Med / Lo	dB(A)	60/55/52	64/58/53	65/59/54
Dimension	HxWxD	mm	235 x 1590 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	40	40	40
nanoe X Generator			Mark 2	Mark 2	Mark 2
Outdoor unit			U-100PZ3E8	U-125PZ3E8	U-140PZ3E8
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Cool	A	4,60 - 4,35 - 4,20	6,10 - 5,75 - 5,55	7,60 - 7,20 - 6,95
Current	Heat	Α	3,95-3,75-3,60	5,20 - 4,95 - 4,75	6,10 - 5,80 - 5,60
Air flow	Cool / Heat	m³/min	73,0/73,0	82,0/80,0	84,0/82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52/52	55/55	56/56
Sound power	Cool / Heat (Hi)	dB(A)	70/70	73/73	74/74
Dimension	HxWxD	mm	996×980×370	996×980×370	996 x 980 x 370
Net weight		kg	83	87	87
Diri ii	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5~50	5~50	5~50
Elevation difference (in / out) 7)		m	15/30	15/30	15/30
Pipe length for additional gas		m	30	30	30
Additional gas amount	,	g/m	45	45	45
Refrigerant (R32) / CO, Eq.		kg / T	2,40/1,62	2,8/1,89	2,8/1,89
	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43
Operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c}/\eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1 m in front of the main body and 1 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Connect the liquid socket tube [\emptyset 6,35- \emptyset 9,52] to the liquid tubing side indoor unit. 6) Connect the gas socket tube [\emptyset 12,70- \emptyset 15,88] to the gas tubing side indoor unit. 7) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A. ** Above values are in the case of nanoeTM X OFF.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRT3	Infrared remote controller and receiver
CZ-CAPWFC1	Commercial Wi-Fi Adaptor

Accessories	
PAW-PACR3	Interfaces to run 3 units on back-up and alternative run
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor





















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PACi NX Series Elite adaptive ducted unit Inverter+ · R32

Adaptive ducted unit - PF3.

2 installation possibilities (horizontal / vertical) with high ESP 150Pa allows flexible installation.

						Single phase			
			3,6 kW	5,0 kW	6,0 kW	7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-36PFH3Z5	KIT-50PFH3Z5	KIT-60PFH3Z5	KIT-71PFH3Z5	KIT-100PFH3Z5	KIT-125PFH3Z5	KIT-140PFH3Z5
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,6[1,2-4,0]	5,0(1,2-5,6)	5,7(1,2-6,3)	6,8 (2,2 - 7,8)	9,5(3,1-11,4)	12,1 (3,2 - 13,6)	13,4 (3,3 - 15,3)
EER 1)	Nominal (Min - Max)	W/W	4,24 (3,57 - 5,45)	3,42(3,11-5,45)	3,68 (3,15 - 5,45)	3,74(2,41-5,64)	4,17 (2,82 - 5,08)	3,58 (3,00 - 5,00)	3,38(2,59-4,18)
SEER / N _{s,c} 2)			6,8 A++	6,1 A++	7,1 A++	7,1 A++	7,4 A++	281,7 %	275,9 %
Pdesign		kW	3,6	5,0	5,7	6,8	9,5	12,1	13,4
Input power	Nominal (Min - Max)	kW	0,85 (0,22 - 1,12)	1,46(0,22-1,80)	1,55 (0,22 - 2,00)	1,82(0,39-3,24)	2,28 (0,61 - 4,04)	3,38 (0,64 - 4,54)	3,96(0,79-5,90)
Annual energy consu	mption 3]	kWh/a	185	287	281	332	447	_	_
Heating capacity	Nominal (Min - Max)	kW	4,0(1,2-5,0)	5,6 (1,2 - 6,5)	7,0 (1,2 - 8,0)	7,5(2,0-9,0)	10,8 (3,1 - 13,5)	13,5(3,2-15,4)	15,5 (3,3 - 17,4)
COP 1)	Nominal (Min - Max)	W/W	4,17 (3,23 - 5,45)	3,61(2,97-5,45)	3,74 (3,33 - 5,45)	4,03(3,16-5,41)	3,97 (3,07 - 5,25)	3,46 (3,06 - 5,16)	3,44(3,14-4,29)
SCOP / n _{s,h} 2)			4,5 A+	4,2 A+	4,4 A+	4,7 A++	4,5 A+	170,0 %	171,0 %
Pdesign at -10 °C		kW	3,6	4,0	4,7	4,7	7,8	9,3	9,5
Input power	Nominal (Min - Max)	kW	0,96 (0,22 - 1,55)	1,55(0,22-2,19)	1,87 (0,22 - 2,40)	1,86 (0,37 - 2,85)	2,72 (0,59 - 4,40)	3,90 (0,62 - 5,04)	4,51(0,77-5,55)
Annual energy consu	mption 3]	kWh/a	1120	1333	1495	1393	2424	_	_
Indoor unit			S-3650PF3E	S-3650PF3E	S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
External static pressure 4)	Nominal (Min - Max)	Pa	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Air flow	Hi / Med / Lo	m³/min	14,0/13,0/10,0	16,0/15,0/12,0	21,0/19,0/15,0	21,0/19,0/15,0	32,0/26,0/21,0	34,0/29,0/23,0	36,0/32,0/25,0
Moisture removal vol	ume	L/h	0,9	1,9	1,7	2,7	3,2	4,1	4,9
Sound pressure 5)	Hi / Med / Lo	dB(A)	30/27/22	34/30/25	30/26/23	30/26/23	33/29/25	35/31/27	39/35/29
Sound power	Hi / Med / Lo	dB(A)	53/50/45	57/53/48	53/49/46	53/49/46	56/52/48	58/54/50	62/58/52
Dimension	HxWxD	mm	250 x 800 x 730	250 x 800 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	25	25	30	30	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2				
Outdoor unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5	U-100PZH3E5	U-125PZH3E5	U-140PZH3E5
Power supply		٧	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Current	Cool	Α	4,20 - 4,00 - 3,85	6,90-6,60-6,35	7,25 - 6,95 - 6,65	9,00-8,60-8,25	11,10-10,80-10,30	16,50-15,80-15,10	19,60-18,70-17,90
Current	Heat	Α	4,70 - 4,50 - 4,30	7,35 - 7,00 - 6,75	8,65-8,30-7,95	9,00-8,60-8,35	13,30-12,70-12,20	19,10-18,20-17,50	22,00-21,10-20,20
Air flow	Cool / Heat	m³/min	34,1/36,4	42,0/42,0	42,0/42,0	61,0/60,0	118,0/108,0	125,0/112,0	129,0/116,0
Sound pressure	Cool / Heat (Hi)	dB(A)	43/44	46/48	47/50	48/50	52/52	53/53	54/54
Sound power	Cool / Heat (Hi)	dB(A)	62/64	64/67	65/69	65/67	69/69	70/70	71/71
Dimension	HxWxD	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Net weight		kg	42	42	43	65	98	98	98
Dining diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35) 6]	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70) 7]	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3~40	3~40	3~40	5~50	5~85	5~85	5~85
Elevation difference (in / out) 8) m		m	15/30	15/30	15/30	15/30	15/30	15/30	15/30
Pipe length for additi	onal gas	m	30	30	30	30	30	30	30
Additional gas amou	nt	g/m	15	15	15	45	45	45	45
Refrigerant (R32) / C	0 ₂ Eq.	kg / T	1,13/0,76	1,13/0,76	1,15/0,78	1,95/1,32	3,05/2,06	3,05/2,06	3,05/2,06
Onenating	Cool Min ~ Max	°C	-15~+46	-15~+46	-15~+46	-15~+48	-20~+48 ^{9]}	-20~+48 ^{9]}	-20~+48 ^{9]}
Operating range	Heat Min ~ Max	°C	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24

Technical focus

- $\cdot \ 2 \ installation \ possibilities \ (horizontal \ / \ vertical)$
- · Maximum external static pressure: 150 Pa
- $\cdot \, \mathsf{Selectable} \,\, \mathsf{inlet} \,\, \mathsf{air} \,\, \mathsf{position} \,\, \mathsf{(rear} \, \mathsf{/} \,\, \mathsf{bottom} \,\, \mathsf{entry)}$
- · Improved drain pan suitable for both horizontal / vertical installation
- · Drain pump included
- · nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for the long duct piping case*
- Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- * The performance of nanoe™ X air can be expected even by 10 m long duct by Panasonic internal survey.

2 installation possibilities (horizontal / vertical)

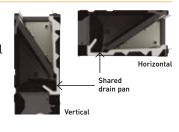
Vertical installation is newly available. ESP 150Pa, sufficient for remotely installing units away from the rooms.



Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation.

No need to modify the unit.





CZ-RTC5B









Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW

Optional controller. Infrared remote controller. CZ-RWS3 + CZ-RWRC3



CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Optional Econavi sensor. CZ-CENSC1

					Three phase	
			7,1 kW	10,0 kW	12,5 kW	14,0 kW
Kit			KIT-71PFH3Z8	KIT-100PFH3Z8	KIT-125PFH3Z8	KIT-140PFH3Z
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	6,8 (2,2 - 7,8)	9,5 (3,1 - 11,4)	12,1 (3,2 - 13,6)	13,4(3,3-15,3)
EER ¹⁾	Nominal (Min - Max)	W/W	3,74(5,64-2,41)	4,17 (5,08 - 2,82)	3,58 (5,00 - 3,00)	3,38 (4,18 - 2,59
SEER / Ŋ _{s.c} 2)			7,0 A++	7,3 A++	281,0 %	275,2 %
Pdesign		kW	6,8	9,5	12,1	13,4
Input power	Nominal (Min - Max)	kW	1,82(0,39 - 3,24)	2,28(0,61-4,04)	3,38 (0,64 - 4,54)	3,96 (0,79 - 5,90
Annual energy consumption 3		kWh/a	338	451	_	_
Heating capacity	Nominal (Min - Max)	kW	7,5 (2,0 - 9,0)	10,8 (3,1 - 13,5)	13,5 (3,2 - 15,4)	15,5 (3,3 - 17,4)
COP 1)	Nominal (Min - Max)	W/W	4,03 (5,41 - 3,16)	3,97 (5,25 - 3,07)	3,46 (5,16 - 3,06)	3,44 (4,29 - 3,14
SCOP / $\eta_{s,h}^{-2l}$			4,7 A++	4,5 A+	170,0 %	171,0 %
Pdesign at -10 °C		kW	4,7	7,8	9,3	9,5
Input power	Nominal (Min - Max)	kW	1,86 (0,37 - 2,85)	2,72(0,59 - 4,40)	3,9 (0,62 - 5,04)	4,51 (0,77 - 5,55
Annual energy consumption 33		kWh/a	1394	2424	_	_
Indoor unit			S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
External static pressure 4]	Nominal (Min - Max)	Pa	30 (10 - 150)	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Air flow	Hi / Med / Lo	m³/min	21,0/19,0/15,0	32,0/26,0/21,0	34,0/29,0/23,0	36,0/32,0/25,0
Moisture removal volume		L/h	2,7	3,2	4,1	4,9
Sound pressure 5)	Hi / Med / Lo	dB(A)	30/26/23	33/29/25	35/31/27	39/35/29
Sound power	Hi / Med / Lo	dB(A)	53/49/46	56/52/48	58/54/50	62/58/52
Dimension	HxWxD	mm	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	30	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			U-71PZH3E8	U-100PZH3E8	U-125PZH3E8	U-140PZH3E8
Power supply		V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
	Cool	Α	3,00 - 2,90 - 2,80	3,80 - 3,60 - 3,50	5,60 - 5,30 - 5,15	6,60 - 6,30 - 6,05
Current	Heat	A	3,05 - 2,95 - 2,85	4,50 - 4,30 - 4,15	6,45 - 6,10 - 5,90	7,55 - 7,15 - 6,90
Air flow	Cool / Heat	m³/min	61,0/60,0	118,0/108,0	125,0/112,0	129,0/116,0
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	53/53	54/54
Sound power	Cool / Heat (Hi)	dB(A)	65/67	69/69	70/70	71/71
Dimension	HxWxD	mm	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340
Net weight		kg	65	98	98	98
Dining diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5~50	5~85	5~85	5~85
Elevation difference (in / out) 8		m	15/30	15/30	15/30	15/30
Pipe length for additional gas		m	30	30	30	30
Additional gas amount		g/m	45	45	45	45
Refrigerant (R32) / CO, Eq.		kg / T	1,95/1,32	3,05/2,06	3,05/2,06	3,05/2,06
	Cool Min ~ Max	°C	-15~+48	-20~+48 ^{10]}	-20~+48 ^{9]}	-20~+48 ^{9]}
Operating range	Heat Min ~ Max	°C	-20~+24	-20~+24	-20~+24	-20~+24

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c} / \eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) Medium external static pressure setting from factory. 5) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent $\delta/C/006-97$ specification. 6) Connect the liquid socket tube (06.35-09.52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube (012.70-015.88) to the gas tubing side indoor unit. 8) Outdoor unit located higher. 9) For models 100 - 140.97+135.88), it is possible to operate the lowest -20°C in the computer rooms with the piping length of 30 m or less. * Recommended fuse for the indoor 3 A. ** Above values are in the case of standard installation(horizontal installation in the celling, rear side air intake) and nanoeTM X OFF.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR3	Interfaces to run 3 units on back-up and alternative run

Accessories	
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor
CZ-56DAF2	Air outlet plenum for S-3650PF3E
CZ-90DAF2	Air outlet plenum for S-6071PF3E
CZ-160DAF2	Air outlet plenum for S-1014PF3E



























PACi NX Series Standard adaptive ducted unit Inverter+ . R32

Adaptive ducted unit - PF3.

2 installation possibilities (horizontal / vertical) with high ESP 150Pa allows flexible installation.

EER 11 N SEER / $\eta_{a,c}$ 21 Pdesign Input power N Annual energy consump Heating capacity N COP 11 N SCOP / $\eta_{a,b}$ 21 Pdesign at -10 °C	Nominal (Min - Max) Nominal (Min - Max) Nominal (Min - Max)	kW W/W kW kWh/a kW W/W	3,6 kW KIT-36PF3Z5 CZ-RTC5B 3,4(1,5-4,0) 3,78(3,51-5,00) 6,0 A+ 3,4 0,90(0,30-1,14) 198 3,4(1,5-4,6) 4,15(3,51-5,36) 4,0 A+ 2,4	5,0 kW KIT-50PF3Z5 CZ-RTC5B 5,0 (1,5-5,3) 2,78 (2,76-4,63) 6,5 A++ 5,0 1,80 (0,32-1,92) 267 5,0 (1,5-5,9) 3,62 (3,06-5,36) 4,0 A+	6,0 kW KIT-60PF3Z5 CZ-RTC5B 5,7 (2,0 - 6,3) 3,54 (2,63 - 5,88) 6,4 A++ 5,7 1,61 (0,34 - 2,40) 310 5,7 (1,8 - 7,0) 4,04 (2,82 - 6,21) 4,4 A+	6,8 4+ 6,8 2,14(0,57 - 2,86) 391 6,8(2,1 - 8,1) 4,00(3,03 - 5,68)	6,6 A++ 9,5 2,66 (0,59 - 4,84) 502 9,5 (3,0 - 13,5) 4,09 (3,00 - 5,08)	12,5 kW KIT-125PF3Z5 CZ-RTC5B 12,1 (3,2-13,5) 3,40 (2,76-5,08) 257,4 % 12,1 3,56 (0,63-4,90) — 12,1 (3,3-15,0) 3,56 (3,16-5,24)	14,0 kW KIT-140PF3Z5 CZ-RTC5B 13,4 (3,3 - 15,0) 3,16 (2,56 - 5,08) 252,2 % 13,4 4,24 (0,65 - 5,86) — 13,4 (3,4 - 16,0) 3,76 (3,03 - 5,23)
Remote controller Cooling capacity N EER 11 N SEER / $\Pi_{a,c}$ 21 Pdesign Input power N Annual energy consumptheating capacity N COP 11 N SCOP / $\Pi_{a,b}$ 21 Pdesign at -10 °C Input power N	Nominal (Min - Max) Nominal (Min - Max) ption ³¹ Nominal (Min - Max) Nominal (Min - Max)	kW kW kWh/a kW W/W	CZ-RTC5B 3,4(1,5-4,0) 3,78(3,51-5,00) 6,0 A+ 3,4 0,90(0,30-1,14) 198 3,4(1,5-4,6) 4,15(3,51-5,36) 4,0 A+ 2,4	CZ-RTC5B 5,0 (1,5 - 5,3) 2,78 (2,76 - 4,63) 6,5 A++ 5,0 1,80 (0,32 - 1,92) 267 5,0 (1,5 - 5,9) 3,62 (3,06 - 5,36) 4,0 A+	CZ-RTC5B 5,7 (2,0 - 6,3) 3,54 (2,63 - 5,88) 6,4 A++ 5,7 1,61 (0,34 - 2,40) 310 5,7 (1,8 - 7,0) 4,04 (2,82 - 6,21)	CZ-RTC5B 6,8 [2,6-7,7] 3,18 [2,69-4,56] 6,0 A+ 6,8 2,14 [0,57-2,86] 391 6,8 [2,1-8,1] 4,00 [3,03-5,68]	CZ-RTC5B 9,5 (3,0 - 11,4) 3,57 (2,36 - 5,08) 6,6 A++ 9,5 2,66 (0,59 - 4,84) 502 9,5 (3,0 - 13,5) 4,09 (3,00 - 5,08)	CZ-RTC5B 12,1 (3,2 - 13,5) 3,40 (2,76 - 5,08) 257,4 % 12,1 3,56 (0,63 - 4,90) 12,1 (3,3 - 15,0)	CZ-RTC5B 13,4 (3,3 - 15,0) 3,16 (2,56 - 5,08) 252,2 % 13,4 4,24 (0,65 - 5,86) - 13,4 (3,4 - 16,0)
Cooling capacity N EER 11 N SEER / $\eta_{a,c}$ 21 Pdesign Input power N Annual energy consump Heating capacity N COP 11 N SCOP / $\eta_{a,b}$ 21 Pdesign at -10 °C Input power N	Nominal (Min - Max) Nominal (Min - Max) ption ³¹ Nominal (Min - Max) Nominal (Min - Max)	kW kW kWh/a kW W/W	3,4(1,5-4,0) 3,78(3,51-5,00) 6,0 A+ 3,4 0,90(0,30-1,14) 198 3,4(1,5-4,6) 4,15(3,51-5,36) 4,0 A+ 2,4	5,0 (1,5 - 5,3) 2,78 (2,76 - 4,63) 6,5 A++ 5,0 1,80 (0,32 - 1,92) 267 5,0 (1,5 - 5,9) 3,62 (3,06 - 5,36) 4,0 A+	5,7 (2,0 - 6,3) 3,54 (2,63 - 5,88) 6,4 A++ 5,7 1,61 (0,34 - 2,40) 310 5,7 (1,8 - 7,0) 4,04 (2,82 - 6,21)	6,8[2,6-7,7] 3,18[2,69-4,56] 6,0 A+ 6,8 2,14[0,57-2,86] 391 6,8[2,1-8,1] 4,00[3,03-5,68]	9,5 (3,0 - 11,4) 3,57 (2,36 - 5,08) 6,6 A++ 9,5 2,66 (0,59 - 4,84) 502 9,5 (3,0 - 13,5) 4,09 (3,00 - 5,08)	12,1 (3,2 - 13,5) 3,40 (2,76 - 5,08) 257,4 % 12,1 3,56 (0,63 - 4,90) — 12,1 (3,3 - 15,0)	13,4 (3,3 - 15,0) 3,16 (2,56 - 5,08) 252,2 % 13,4 4,24 (0,65 - 5,86) — 13,4 (3,4 - 16,0)
EER 11 N SEER / N _{s,c} 21 Pdesign Input power N Annual energy consump Heating capacity N COP 11 N SCOP / N _{s,h} 21 Pdesign at -10 °C Input power N	Nominal (Min - Max) Nominal (Min - Max) ption ³¹ Nominal (Min - Max) Nominal (Min - Max)	kW kW kWh/a kW W/W	3,78 (3,51 - 5,00) 6,0 A+ 3,4 0,90 (0,30 - 1,14) 198 3,4 (1,5 - 4,6) 4,15 (3,51 - 5,36) 4,0 A+ 2,4	2,78(2,76-4,63) 6,5 A++ 5,0 1,80(0,32-1,92) 267 5,0(1,5-5,9) 3,62(3,06-5,36) 4,0 A+	3,54 (2,63 - 5,88) 6,4 A++ 5,7 1,61 (0,34 - 2,40) 310 5,7 (1,8 - 7,0) 4,04 (2,82 - 6,21)	3,18[2,69-4,56] 6,0 A+ 6,8 2,14[0,57-2,86] 391 6,8[2,1-8,1] 4,00[3,03-5,68]	3,57 (2,36-5,08) 6,6 A++ 9,5 2,66 (0,59-4,84) 502 9,5 (3,0-13,5) 4,09 (3,00-5,08)	3,40 (2,76 - 5,08) 257,4 % 12,1 3,56 (0,63 - 4,90) — 12,1 (3,3 - 15,0)	3,16(2,56-5,08) 252,2 % 13,4 4,24(0,65-5,86) — 13,4(3,4-16,0)
SEER / n _{s,c} ²¹ Pdesign Input power N Annual energy consumption N Heating capacity N COP ¹¹ N SCOP / n _{s,h} ²¹ Pdesign at -10 °C Input power N	Nominal (Min - Max) ption ³⁾ Nominal (Min - Max) Nominal (Min - Max)	kW kWh/a kWh/a kW W/W	6,0 A+ 3,4 0,90 [0,30 - 1,14] 198 3,4 [1,5 - 4,6] 4,15 (3,51 - 5,36) 4,0 A+ 2,4	6,5 A++ 5,0 1,80 (0,32 - 1,92) 267 5,0 (1,5 - 5,9) 3,62 (3,06 - 5,36) 4,0 A+	5,7 1,61 (0,34 - 2,40) 310 5,7 (1,8 - 7,0) 4,04 (2,82 - 6,21)	6,8 4+ 6,8 2,14(0,57 - 2,86) 391 6,8(2,1 - 8,1) 4,00(3,03 - 5,68)	6,6 A++ 9,5 2,66 (0,59 - 4,84) 502 9,5 (3,0 - 13,5) 4,09 (3,00 - 5,08)	257,4 % 12,1 3,56 (0,63 - 4,90) — 12,1 (3,3 - 15,0)	252,2 % 13,4 4,24(0,65-5,86) — 13,4(3,4-16,0)
Pdesign	ption ³⁾ Nominal (Min - Max) Nominal (Min - Max) Nominal (Min - Max)	kW kWh/a kW W/W	3,4 0,90 (0,30 - 1,14) 198 3,4 (1,5 - 4,6) 4,15 (3,51 - 5,36) 4,0 A+ 2,4	5,0 1,80 (0,32 - 1,92) 267 5,0 (1,5 - 5,9) 3,62 (3,06 - 5,36) 4,0 A+	5,7 1,61(0,34-2,40) 310 5,7(1,8-7,0) 4,04(2,82-6,21)	6,8 2,14(0,57-2,86) 391 6,8(2,1-8,1) 4,00(3,03-5,68)	9,5 2,66 (0,59 - 4,84) 502 9,5 (3,0 - 13,5) 4,09 (3,00 - 5,08)	12,1 3,56(0,63-4,90) — 12,1(3,3-15,0)	13,4 4,24(0,65-5,86) — 13,4(3,4-16,0)
Input power	ption ³⁾ Nominal (Min - Max) Nominal (Min - Max) Nominal (Min - Max)	kW kWh/a kW W/W	0,90 (0,30 - 1,14) 198 3,4 (1,5 - 4,6) 4,15 (3,51 - 5,36) 4,0 A+ 2,4	1,80 (0,32 - 1,92) 267 5,0 (1,5 - 5,9) 3,62 (3,06 - 5,36) 4,0 A+	1,61 (0,34 - 2,40) 310 5,7 (1,8 - 7,0) 4,04 (2,82 - 6,21)	2,14(0,57-2,86) 391 6,8(2,1-8,1) 4,00(3,03-5,68)	2,66 (0,59 - 4,84) 502 9,5 (3,0 - 13,5) 4,09 (3,00 - 5,08)	3,56 (0,63 - 4,90) — 12,1 (3,3 - 15,0)	4,24(0,65-5,86) — 13,4(3,4-16,0)
Annual energy consumptions and the strength of the strength o	ption ³⁾ Nominal (Min - Max) Nominal (Min - Max) Nominal (Min - Max)	kWh/a kW W/W kW	198 3,4(1,5-4,6) 4,15(3,51-5,36) 4,0 A+ 2,4	267 5,0 (1,5 - 5,9) 3,62 (3,06 - 5,36) 4,0 A+	310 5,7(1,8-7,0) 4,04(2,82-6,21)	391 6,8[2,1-8,1] 4,00[3,03-5,68]	502 9,5 (3,0 - 13,5) 4,09 (3,00 - 5,08)	- 12,1(3,3 - 15,0)	13,4(3,4-16,0)
Heating capacity	Nominal (Min - Max) Nominal (Min - Max) Nominal (Min - Max)	kW W/W kW	3,4(1,5-4,6) 4,15(3,51-5,36) 4,0 A+ 2,4	5,0 (1,5 - 5,9) 3,62 (3,06 - 5,36) 4,0 A+	5,7 (1,8 - 7,0) 4,04 (2,82 - 6,21)	6,8(2,1-8,1) 4,00(3,03-5,68)	9,5(3,0-13,5) 4,09(3,00-5,08)		
COP 11 N SCOP / 11 SCOP / 12 Pdesign at -10 °C Input power N	Nominal (Min - Max) Nominal (Min - Max)	W/W kW kW	4,15(3,51-5,36) 4,0 A+ 2,4	3,62(3,06-5,36) 4,0 A+	4,04(2,82-6,21)	4,00 (3,03 - 5,68)	4,09 (3,00 - 5,08)		
SCOP / $\eta_{s,h}^{2l}$ Pdesign at -10 °C Input power	Nominal (Min - Max)	kW kW	4,0 A+ 2,4	4,0 A+				3,56 (3,16 - 5,24)	3.76[3.03-5.23]
Pdesign at -10 °C Input power		kW	2,4	· · ·	4.4 A+				
Pdesign at -10 °C Input power		kW	· · · · · · · · · · · · · · · · · · ·			4,1 A+	3,9 A	142,6 %	140,6 %
				3,8	4,4	4,7	7,8	9,3	9,5
Annual energy consumr	ption ^{3]}	LAMb /c	0,82 (0,28 - 1,31)	1,38(0,28-1,73)	1,41 (0,29 - 2,48)	1,70(0,37-2,67)	2,32 (0,59 - 4,50)	3,40 (0,63 - 4,74)	3,56(0,65-5,28)
		kWh/a	839	1303	1376	1591	2795		
Indoor unit			S-3650PF3E	S-3650PF3E	S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
External static pressure 4 N	Nominal (Min - Max)	Pa	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	30 (10 - 150)	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Air flow H	Hi / Med / Lo	m³/min	14,0/13,0/10,0	16,0/15,0/12,0	21,0/19,0/15,0	21,0/19,0/15,0	32,0/26,0/21,0	34,0/29,0/23,0	36,0/32,0/25,0
Moisture removal volum	ne	L/h	0,9	1,9	1,7	2,7	3,2	4,1	4,9
Sound pressure 5)	Hi / Med / Lo	dB(A)	30/27/22	34/30/25	30/26/23	30/26/23	33/29/25	35/31/27	39/35/29
Sound power H	Hi / Med / Lo	dB(A)	53/50/45	57/53/48	53/49/46	53/49/46	56/52/48	58/54/50	62/58/52
Dimension H	HxWxD	mm	250 x 800 x 730	250 x 800 x 730	250 x 1000 x 730	250 x 1000 x 730	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	25	25	30	30	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2	Mark 2
Outdoor unit			U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5	U-125PZ3E5	U-140PZ3E5
Power supply		٧	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
	Cool	A	4,15-4,00-3,85	8,35-8,00-7,65	7,45-7,15-6,85	9,95-9,50-9,10	13,30-12,70-12,20	17,20-16,40-15,80	20,50-19,60-18,8
Current –	Heat	A	3,85-3,70-3,50	6,45-6,20-5,95	6,55-6,25-6,00	7,90-7,55-7,25	11,60-11,10-10,60	16,40-15,70-15,00	17,20-16,40-15,80
Air flow C	Cool / Heat	m³/min	33,6/34,0	32,7/31,9	42,6/41,5	44,7/45,9	73,0/73,0	82,0/80,0	84,0/82,0
Sound pressure C	Cool / Heat (Hi)	dB(A)	46/47	46/46	47/48	48/49	52/52	55/55	56/56
Sound power C	Cool / Heat (Hi)	dB(A)	64/66	64/64	64/65	66/68	70/70	73/73	74/74
<u> </u>	HxWxD	mm	619 x 824 x 299	619 x 824 x 299	695×875×320	695 x 875 x 320	996×980×370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	32	35	42	50	83	87	87
	Liquid pipe	Inch (mm)	1/4 (Ø6,35)	1/4 (Ø6,35)	1/4 (Ø6,35) ⁶⁾	1/4 (Ø6,35) ⁶⁾	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter —	Gas pipe	Inch (mm)	1/2 (Ø12,7)	1/2 (Ø12,7)	1/2 (Ø12,7) ⁷⁾	5/8 (Ø15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	3 - 15	3-20	3-40	3-40	5~50	5~50	5~50
Elevation difference (in ,	/ out) 8)	m	15/15	15/15	15/30	20/30	15/30	15/30	15/30
Pipe length for additions		m	7,5	7,5	30	30	30	30	30
Additional gas amount	J	g/m	10	15	15	17	45	45	45
Refrigerant (R32) / CO ₂	Εα.	kg / T	0,87/0,59	1,14/0,77	1,15/0,78	1,32/0,89	2,40/1,62	2,80/1,89	2,80/1,89
	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43
Operating range —	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24

Technical focus

- $\cdot \ 2 \ installation \ possibilities \ (horizontal \ / \ vertical)$
- · Maximum external static pressure: 150 Pa
- · Selectable inlet air position (rear / bottom entry)
- \cdot Improved drain pan suitable for both horizontal / vertical installation
- · Drain pump included
- · nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for the long duct piping case*
- · Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- * The performance of nanoe™ X air can be expected even by 10 m long duct by Panasonic internal survey.

2 installation possibilities (horizontal / vertical)

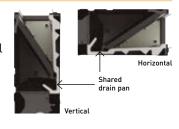
Vertical installation is newly available. ESP 150Pa, sufficient for remotely installing units away from the rooms.



Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation.

No need to modify the unit.





CZ-RTC5B













Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW



Optional controller. Infrared remote controller. CZ-RWS3 + CZ-RWRC3



Optional Econavi sensor. CZ-CENSC1

				Three phase	
			10,0 kW	12,5 kW	14,0 kW
Kit			KIT-100PF3Z8	KIT-125PF3Z8	KIT-140PF3Z8
Remote controller			CZ-RTC5B	CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	9,5 (3,0 - 11,4)	12,1 (3,2 - 13,5)	13,4(3,3-15,0)
EER 1)	Nominal (Min - Max)	W/W	3,57 (2,36 - 5,08)	3,40 (2,76 - 5,08)	3,16 (2,56 - 5,08)
SEER / $\eta_{s,c}^{2)}$			6,5 A++	256,2 %	251,4 %
Pdesign		kW	9,5	12,1	13,4
Input power	Nominal (Min - Max)	kW	2,66 (0,59 - 4,84)	3,56 (0,63 - 4,90)	4,24 (0,65 - 5,86)
Annual energy consumption 33		kWh/a	508	_	_
Heating capacity	Nominal (Min - Max)	kW	9,5 (3,0 - 13,5)	12,1 (3,3 - 15,0)	13,4(3,4-16,0)
COP 1J	Nominal (Min - Max)	W/W	4,09 (3,00 - 5,08)	3,56 (3,16 - 5,24)	3,76 (3,03 - 5,23)
SCOP / $\eta_{s,h}^{(2)}$			3,9 A	142,6 %	140,6 %
Pdesign at -10 °C		kW	7,8	9,3	9,5
Input power	Nominal (Min - Max)	kW	2,32 (0,59 - 4,50)	3,40 (0,63 - 4,74)	3,56 (0,65 - 5,28)
Annual energy consumption 3		kWh/a	2795	_	_
Indoor unit			S-1014PF3E	S-1014PF3E	S-1014PF3E
External static pressure 4)	Nominal (Min - Max)	Pa	40 (10 - 150)	50 (10 - 150)	50 (10 - 150)
Air flow	Hi / Med / Lo	m³/min	32,0/26,0/21,0	34,0/29,0/23,0	36,0/32,0/25,0
Moisture removal volume		L/h	3,2	4,1	4,9
Sound pressure 5)	Hi / Med / Lo	dB(A)	33/29/25	35/31/27	39/35/29
Sound power	Hi / Med / Lo	dB(A)	56/52/48	58/54/50	62/58/52
Dimension	HxWxD	mm	250 x 1400 x 730	250 x 1400 x 730	250 x 1400 x 730
Net weight		kg	39	39	39
nanoe X Generator			Mark 2	Mark 2	Mark 2
Outdoor unit			U-100PZ3E8	U-125PZ3E8	U-140PZ3E8
Power supply		٧	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Current	Cool	Α	4,45 - 4,20 - 4,05	5,75 - 5,45 - 5,25	6,85 - 6,50 - 6,30
Current	Heat	Α	3,85 - 3,70 - 3,55	5,50 - 5,20 - 5,05	5,75 - 5,45 - 5,25
Air flow	Cool / Heat	m³/min	73,0/73,0	82,0/80,0	84,0/82,0
Sound pressure	Cool / Heat (Hi)	dB(A)	52/52	55/55	56/56
Sound power	Cool / Heat (Hi)	dB(A)	70/70	73/73	74/74
Dimension	HxWxD	mm	996 x 980 x 370	996×980×370	996 x 980 x 370
Net weight		kg	83	87	87
Pining diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range		m	5~50	5~50	5~50
Elevation difference (in / out) 8)		m	15/30	15/30	15/30
Pipe length for additional gas		m	30	30	30
Additional gas amount		g/m	45	45	45
Refrigerant (R32) / CO ₂ Eq.		kg / T	2,40/1,62	2,80/1,89	2,80/1,89
Operating range	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43
Operating range	Heat Min ~ Max	°C	-15~+24	-15~+24	-15~+24

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{x,c}/\eta_{x,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) Medium external static pressure setting from factory. 5) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 6) Connect the liquid socket tube [Ø6,35-09,52) to the liquid tubing side indoor unit. 7) Connect the gas socket tube [Ø12,70-015,88] to the gas tubing side indoor unit. 8) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A. ** Above values are in the case of standard installation[horizontal installation in the celling, rear side air intake] and nanoeTM X OFF.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR3	Interfaces to run 3 units on back-up and alternative run

Accessories	
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor
CZ-56DAF2	Air outlet plenum for S-3650PF3E
CZ-90DAF2	Air outlet plenum for S-6071PF3E
CZ-160DAF2	Air outlet plenum for S-1014PF3E





























205



Panasonic Big PACi high static pressure hide-away 20,0-25,0 kW Inverter+ · R32

Panasonic Big PACi, not only environmental friendly but also a groundbreaking product.

Big PACi with R32 has been introduced with full renewal of its indoor unit, also offering hydronic application by PACi Water heat exchanger.

Compact and light indoor body Compact and light indoor body, keeping the high efficiency, has a split-able design for easy installation within a limited narrow space. Plus ease of maintenance due to the simplified disassembly design.

Easy pipe work with split-able hide-away indoor design

Heat exchanger and fan elements (fan + casing) can be separated during installation. The hide-away indoor unit is easily reassembled and will fit through a narrow space.

High external static pressure, maximum 200 Pa* setting

A high static pressure enables the use of long ducts for installation in a wide range of spaces.

* S-250PE3E5B.



Panasonic Comfort Cloud App control

Smartphone ready to control of PACi systems with Panasonic Comfort Cloud App*.

* Panasonic Wi-Fi Adaptor CZ-CAPWFC1 is required.

Compact and light indoor body, keeping high efficiency

15 % lighter weight vs conventional model drastically improves installation work.

	Conventional model	Panasonic model
20,0 kW	100 kg	86 kg
25,0 kW	104 kg	88 kg





Maximum 200 Pa* static pressure setting

A high static pressure enables the use of long ducts for installation in a wide range of spaces.

3-step static pressure set up.

Selectable of static pressure modes can change 200 Pa / 130 Pa / 75 Pa for extra installation flexibility.

* In case of S-250PE3E5B.



Easy installation with light components

Indoor unit can easily be split into 3 components, the heaviest of which weighs only 48 kg.



Fan Casing

Dimensions of each component (lightweight design for easy disassembly).



The weight is for S-200PE3E5B model.







CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION





Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL



Optional controller. Infrared remote controller. CZ-RWS3 + CZ-RWRC3



Optional Econavi sensor. CZ-CENSC1

			Three	phase
			20,0 kW	25,0 kW
Kit			KIT-200PE3ZH8	KIT-250PE3ZH8
Remote controller			CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	19,5 (5,7 - 21,0)	23,2 (6,1 - 27,0)
EER ¹⁾	Nominal (Min - Max)	W/W	3,22 (3,09 - 4,52)	3,11(2,93-4,59)
SEER / Ŋ _{s,c} 2)			207,0 %	190,6 %
Pdesign		kW	19,5	23,2
Input power	Nominal (Min - Max)	kW	6,06(1,26-6,80)	7,46 (1,33 - 9,20)
Heating capacity	Nominal (Min - Max)	kW	22,4 (5,0 - 25,0)	28,0 (5,5 - 29,0)
COP 1)	Nominal (Min - Max)	W/W	3,61 (3,16 - 4,76)	3,41 (3,05 - 5,00)
SCOP / n _{s,h} 2)			141,3 %	142,7 %
Pdesign at -10 °C		kW	17,0	20,0
Input power	Nominal (Min - Max)	kW	6,21 (1,05 - 7,90)	8,21 (1,10 - 9,50)
Indoor unit			S-200PE3E5B	S-250PE3E5B
Power supply		V / ph / Hz	220 - 230 - 240/1/50	220 - 230 - 240 / 1 / 50
External static pressure at ship	ment (adjustable)	Pa	75 ³⁾ - 120 - 180	75 ³⁾ - 130 - 200
Air flow	Hi / Med / Lo	m³/min	72/63/53	84/72/59
Sound pressure 4)	Hi / Med / Lo	dB(A)	46/44/41	47/45/42
Dimension	HxWxD	mm	486 x 1456 x 916	486 x 1456 x 916
Net weight		kg	86	88
Outdoor unit			U-200PZH2E8	U-250PZH2E8
Power supply		V / ph / Hz	380 - 400 - 415/3/50	380 - 400 - 415/3/50
Recommended fuse		Α	30	30
Air flow	Cool / Heat	m³/min	164/164	160/160
Sound pressure	Cool / Heat (Hi)	dB(A)	59/61	59/63
Sound power	Cool / Heat (Hi)	dB(A)	77/79	78/82
Dimension 5)	HxWxD	mm	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	117	128
Dining diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	1/2 (12,70)
Piping diameter	Gas pipe	Inch (mm)	1 (25,40)	1 (25,40)
Pipe length range		m	5~90	5~60
Elevation difference (in / out)		m	30	30
Pipe length for additional gas		m	30	30
Additional gas amount		g/m	60	80
Refrigerant (R32) / CO ₂ Eq.		kg / T	4,20/2,835	5,20/3,51
Operating range	Cool Min ~ Max	°C	-15~+46	-15~+46
Operating range	Heat Min ~ Max	°C	-20~+24	-20~+24

1) EER and COP calculation is based in accordance to EN14511. 2) For models below 12 kW, the SEER and SCOP is calculated based on values of EU/626/2011. For models above 12 kW, the $\eta_{s,c} / \eta_{s,h}$ values is calculated based on EN 14825. 3) Factory setting. 4) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Add 100 mm for indoor unit or 70 mm for outdoor unit for piping port. * No filter included.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver

Accessories	
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR3	Interfaces to run 3 units on back-up and alternative run
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor























PACi Elite 4 way 60x60 cassette Inverter+ · R32

Small and powerful, ideal for offices and restaurants.



Technical focus

- · Fresh air distribution
- · Multidirectional air flow
- · Integrated drain pump gives 850 mm lift
- · 3 speed centrifugal fan
- · DC fan for better efficiency and control
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Lighter and slimmer, easier installation

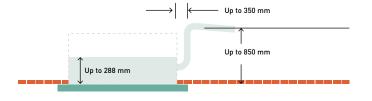
Lightweight and very slim which makes installation possible even in narrow ceilings.

Designed to fit exactly into a 600x600 mm ceiling grid without the need to alter the bar configuration.

A drain height of approximately 850 mm from the ceiling surface

The drain height can be increased by approx. 350 mm over the conventional value by using a high-lift drain pump, and long horizontal piping is possible.

Lightweight at 18kg, the unit is also very slim with a height of only 288 mm, making installation possible even in narrow ceilings.



Significant reduction of power consumption by using highly developed DC fan motors with variable speed, special heat exchangers, etc.



CZ-RTC5B

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION





Panel 700 x 700 mm. CZ-KPY3AW

Panel 625 x 625 mm. CZ-KPY3BW



Optional controller.
CONEX wired remote controller.
CZ-RTC6 - CZ-RTC6BL



Optional controller. Infrared remote controller. CZ-RWS3

			-	phase
			3,6 kW	5,0 kW
Kit			KIT-36PY2ZH5	KIT-50PY2ZH5
Remote controller			CZ-RTC5B	CZ-RTC5B
Cooling capacity	Nominal (Min - Max)	kW	3,6 (1,5 - 4,0)	5,0 (1,5 - 5,6)
EER ¹⁾		W/W	4,68	3,68
SEER / Ŋ _{s,c} 2)			6,6 A++	6,4 A++
Pdesign		kW	3,6	5,0
Input power		kW	0,77	1,36
Annual energy consumption 3]		kWh/a	191	273
Heating capacity	Nominal (Min - Max)	kW	4,0 (1,5 - 5,0)	5,6 (1,5 - 6,5)
COP 1]		W/W	4,26	3,46
SCOP / $\eta_{s,h}^{2]}$			4,6 A++	4,3 A+
Pdesign at -10 °C		kW	3,6	4,5
Input power		kW	0,94	1,62
Annual energy consumption 33		kWh/a	1096	1465
Indoor unit			S-36PY2E5B	S-50PY2E5B
Air flow	Hi / Med / Lo	m³/min	9,7/8,0/6,0	11,1/9,8/8,5
Moisture removal volume		L/h	1,5	2,4
Sound pressure 41	Hi / Med / Lo	dB(A)	36/32/26	40/37/33
Sound power	Hi / Med / Lo	dB(A)	51/47/41	55/52/48
	Indoor	mm / kg	288 x 583 x 583 / 18	288 x 583 x 583 / 18
Dimension (HxWxD) / Net weight	CZ-KPY3AW Panel	mm / kg	31 x 700 x 700 / 2,4	31 x 700 x 700 / 2,4
Net weight	CZ-KPY3BW Panel	mm / kg	31 x 625 x 625 / 2,4	31 x 625 x 625 / 2,4
Outdoor unit			U-36PZH2E5	U-50PZH2E5
Power supply		V	220 - 230 - 240	220 - 230 - 240
	Cool	А	3,65 - 3,50 - 3,35	6,35 - 6,10 - 5,85
Current	Heat	A	4,50 - 4,30 - 4,15	7,70 - 8,40 - 8,10
Air flow	Cool / Heat	m³/min	40/40	40/45
Sound pressure	Cool / Heat (Hi)	dB(A)	43/44	45/48
Sound power	Cool / Heat (Hi)	dB(A)	62/64	64/68
Dimension / Net weight	HxWxD	mm / kg	695×875×320/43	695 x 875 x 320/43
Dining diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)
Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)
Pipe length range		m	3~40	3~40
Elevation difference (in / out) 5]		m	15/30	15/30
Pipe length for additional gas		m	30	30
Additional gas amount		g/m	20	20
Refrigerant (R32) / CO, Eq.		kg / T	1,15/0,776	1,15/0,776
	Cool Min ~ Max	°C	-15~+46	-15~+46
Operating range	Heat Min ~ Max	°C	-20~+24	-20~+24

1) EER and COP calculation is based in accordance to EN14511. 2) Energy Label Scale from A+++ to D. For models with the $\eta_{\rm Lc}/\eta_{\rm Lb}$ values is calculated based on EN 14825. 3) The annual energy consumption is calculated in accordance to EU/626/2011. 4) The sound pressure of the units shows the value measured of the position 1,5 m below the unit. The sound pressure is measured in accordance with Eurovent 6/C/006-97 specification. 5) Outdoor unit located lower / outdoor unit located higher. * Recommended fuse for the indoor 3 A.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3	Infrared remote controller
CZ-CAPWFC1	Commercial Wi-Fi Adaptor
PAW-PACR3	Interfaces to run 3 units on back-up and alternative run

Accessories	
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor















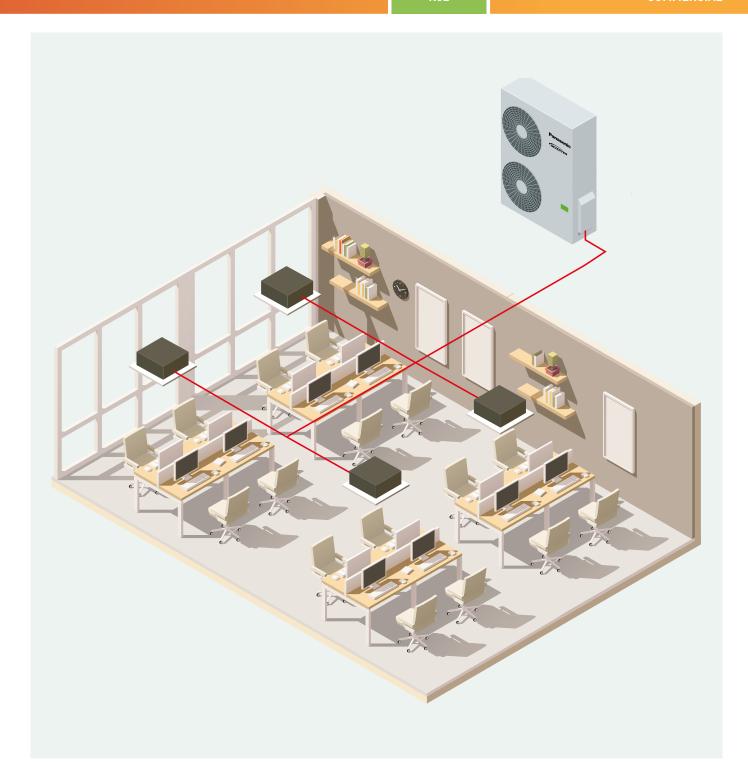




Commercial twin, triple and double-twin systems · R32

With this system, a single outdoor unit can split its capacity simultaneously across up to 4 indoor units, for better distribution within the space. This makes the system particularly apt for common areas. It reduces noise concentration and enables the same temperature to be reached around the room. A wide variety of the same type of indoor units can be connected in multi combinations (including wall-mounted, cassette, hide-away and ceiling).





PACi NX Elite from 7,1 to 14,0 kW

Up to 4 indoor units can be connected to the same outdoor unit. Panasonic's Elite units 7,1, 10,0, 12,0 and 14,0 can be installed as twin, triple and double-twin systems. The indoor units can be combined as per the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

PACi NX Standard from 10,0 to 14,0 kW

Up to 2 indoor units connectable on the same outdoor. Panasonic's Standard units can be installed as single and twin systems. The indoor units can be combined following the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

Big PACi Elite from 20,0 to 25,0 kW

Up to 4 indoor units can be connected to the same outdoor unit. Panasonic's PACi units 20,0 and 25,0 can be installed as twin, triple and double-twin systems. The indoor units can be combined as per the selection table. The operation will always be simultaneous. All the indoor units will work with the same settings.

Commercial twin, triple and double-twin systems · R32



PACi Elite Outdoor units · R32

				PAC	i NX		Big	PACi
			7,1 kW	10,0 kW	12,5 kW	14,0 kW	20,0 kW	25,0 kW
Outdoor unit single phase			U-71PZH3E5	U-100PZH3E5	U-125PZH3E5	U-140PZH3E5	_	_
Outdoor unit three phase			U-71PZH3E8	U-100PZH3E8	U-125PZH3E8	U-140PZH3E8	U-200PZH2E8	U-250PZH2E8
Cooling capacity	Nominal (Min - Max)	kW	6,8 (2,2-9,0)	9,5 (3,1 - 12,5)	12,1 (3,2 - 14,0)	13,4(3,3-16,0)	20,0(5,7-22,4)	25,0 (6,1 - 28,0)
Heating capacity	Nominal (Min - Max)	kW	8,0 (2,0 - 9,0)	11,2 (3,1 - 14,0)	14,0 (3,2 - 16,0)	16,0(3,3-18,0)	22,4(5,0-25,0)	28,0 (5,5-31,5)
Device eventy	Single phase	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	_	_
Power supply	Three phase	٧	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Connection indoor / outdoor		mm²	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5	_	_
Air flow	Cool / Heat	m³/min	61,0/60,0	118,0/108,0	125,0/112,0	129,0/116,0	164/164	160/160
Sound pressure	Cool / Heat (Hi)	dB(A)	48/50	52/52	53/53	54/54	59/61	59/63
Sound power	Cool / Heat (Hi)	dB(A)	65/67	69/69	70/70	71/71	77/79	78/82
Dimension	HxWxD	mm	996 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1416 x 940 x 340	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	65	98	98	98	117	128
Dining diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	1 (25,40)	1 (25,40)
Pipe length range	Min ~ Max	m	5~50	5~85	5~85	5~85	5~80	5~60
Elevation difference (in / out)	Max	m	15/30 ^{1]}	15/30 ¹⁾	15/30 ^{1]}	15/30 ^{1]}	30	30
Pipe length for additional gas		m	30	30	30	30	30	30
Additional gas amount		g/m	45	45	45	45	60	80
Refrigerant (R32) / CO ₂ Eq.		kg / T	1,95/1,32	3,05/2,06	3,05/2,06	3,05/2,06	4,20/2,835	5,20/3,51
Operating page	Cool Min ~ Max	°C	-15~48	-20~+48 ^{2]}	-20~+48 ^{2]}	-20~+48 ²⁾	-15~+46	-15~+46
Operating range	Heat Min ~ Max	°C	-20~24	-20~24	-20~24	-20~24	-20~+24	-20~+24

¹⁾ Outdoor unit located lower / outdoor unit located higher. 2) For models 100 - 140PZH3E5(8), it is possible to operate the lowest -20 °C in the computer rooms with the piping length of 30 m or less.





PACi NX Standard Ou	tdoor units · R32	2	10,0 kW	12,5 kW	14,0 kW	
Outdoor unit single phase			U-100PZ3E5	U-125PZ3E5	U-140PZ3E5	
Outdoor unit three phase			U-100PZ3E8	U-125PZ3E8	U-140PZ3E8	
Cooling capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 11,5)	12,5 (3,2 - 13,5)	14,0 (3,3 - 15,0)	
Heating capacity	Nominal (Min - Max)	kW	10,0 (3,0 - 14,0)	12,5 (3,3 - 15,0)	14,0 (3,4 - 16,0)	
Davis and the	Single phase	٧	220-230-240	220-230-240	220-230-240	
Power supply	Three phase	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	
Connection indoor / outdoor		mm²	2x1,5 or 2,5	2x1,5 or 2,5	2x1,5 or 2,5	
Air flow	flow Cool / Heat		73,0/73,0	82,0/80,0	84,0/82,0	
Sound pressure	nd pressure Cool / Heat (Hi) dB(,		52/52	55/55	56/56	
Sound power	Cool / Heat (Hi) dB(A)		70/70	73/73	74/74	
Dimension	HxWxD	mm	996 x 980 x 370 996 x 980 x 370		996×980×370	
Net weight		kg	83	87	87	
D	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	
Pipe length range	Min ~ Max	m	5~50	5~50	5~50	
Elevation difference (in / out) 1)	Max	m	15/30	15/30	15/30	
Pipe length for additional gas		m	30	30	30	
Additional gas amount		g/m	45	45	45	
Refrigerant (R32) / CO ₂ Eq.		kg / T	2,4/1,62	2,8/1,89	2,8/1,89	
0	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43	
Operating range	Heat Min ~ Max	°C	-15~24	-15~24	-15~24	

¹⁾ Outdoor unit located lower / outdoor unit located higher.

Compatible indoor units for multi combinations

CONEX



Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL - CZ-RTC6BLW



Optional controller. Wired remote controller. CZ-RTC5B



Optional Econavi sensor. CZ-CENSC1









Wall-mounted	Indoor unit	Cooling capacity	Heating capacity	Dimension HxWxD	Sound pressure Hi / Med / Lo	Air flow Hi / Med / Lo
		cupacity	cupacity	HXWXD	ni / Mea / Lo	ni / Med / Lo
		kW	kW	mm	dB(A)	m³/min
3,6 / 4,5 / 5,0 kW	S-3650PK3E	3,6-5,0	4,0-5,6	302 x 1120 x 236	35/31/27 11	13,0/11,0/9,0 13
6,0 / 7,1 kW	S-6010PK3E	6,1 - 10,0	7,0-8,0	302 x 1120 x 236	47/44/40 13	20,0/17,5/14,5 1)









4 way 60x60 cassette	Indoor unit (panel	Cooling	Heating	Dimension indoor	Dimension panel	Sound pressure	Air flow	
	CZ-KPY4)	capacity	capacity	HxWxD	HxWxD	Hi / Med / Lo	Hi / Med / Lo	
		kW	kW	mm	mm	dB(A)	m³/min	
3,6 kW	S-36PY3E	3,60	3,60	243 x 575 x 575	30 x 625 x 625	34/30/25	9,5/7,0/6,0	
5,0 kW	S-50PY3E	5,00	5,00	243 x 575 x 575	30 x 625 x 625	39/34/27	12,0/9,5/6,5	
6.0 kW	S-60PY3E	6.00	6.00	243 x 575 x 575	30 x 625 x 625	43/37/31	14.0/10.5/8.0	









4 way 90x90 cassette	Indoor unit (panels	Cooling	Heating	Dimension indoor	Dimension panel	Sound pressure	Air flow	
	CZ-KPU3W /	capacity	capacity	HxWxD	HxWxD	Hi / Med / Lo	Hi / Med / Lo	
	CZ-KPU3AW)	kW	kW	mm	mm	dB(A)	m³/min	
3,6 / 4,5 / 5,0 kW	S-3650PU3E	3,6-5,0	4,0-5,6	256 x 840 x 840	33,5 x 950 x 950	30/28/27 13	14,5/13,0/11,5 1)	
6,0 / 7,1 kW	S-6071PU3E	6,0 - 7,1	7,0-8,0	256 x 840 x 840	33,5 x 950 x 950	36/31/28 13	21,0/16,0/13,0 1)	
10,0 / 12,5 / 14,0 kW	S-1014PU3E	10,0 - 14,0	11,2 - 16,0	319 x 840 x 840	33,5 x 950 x 950	45/38/32 1)	36,0/26,0/18,0 1)	









Ceiling	Indoor unit	Cooling	Heating	Dimension	Sound pressure	Air flow
		capacity	capacity	HxWxD	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	dB(A)	m³/min
3,6 / 4,5 / 5,0 kW	S-3650PT3E	3,5-5,0	4,0 - 5,6	235 x 960 x 690	36/32/28 13	14,0/12,0/10,5 ¹⁾
6,0 / 7,1 kW	S-6071PT3E	6,0-6,8	7,0-8,0	235 x 1275 x 690	38/34/29 13	20,0/17,0/14,5 1)
10,0 / 12,5 / 14,0 kW	S-1014PT3E	9,5 - 13,4	11,2 - 16,0	235 x 1590 x 690	42/37/34 1	30,0/25,0/23,0 1







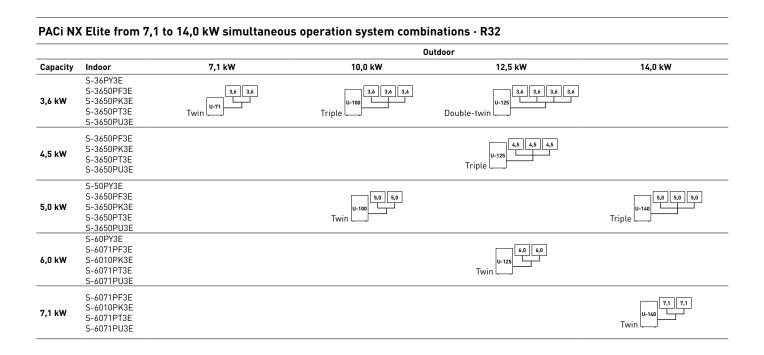




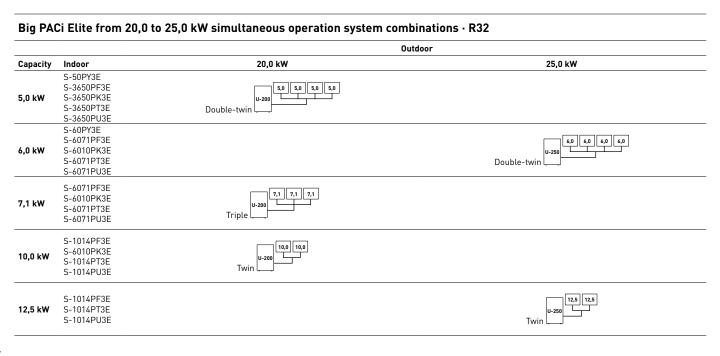
Adaptive ducted unit	Indoor unit	Cooling	Heating	Dimension	External static pressure	Sound pressure	Air flow
		capacity	capacity	HxWxD	Nominal (Min - Max)	Hi / Med / Lo	Hi / Med / Lo
		kW	kW	mm	Pa	dB(A)	m³/min
3,6 / 4,5 / 5,0 kW	S-3650PF3E	3,6-5,0	4,0-5,6	250 x 800 x 730	30 (10 - 150)	30/27/22 1)	14,0/13,0/10,0 1)
6,0 / 7,1 kW	S-6071PF3E	5,7 - 6,8	7,0 - 7,5	250 x 1000 x 730	30 (10 - 150)	30/26/23 1)	21,0/19,0/15,0 1)
10 0 / 12 5 / 14 0 kW	S-1014PE3E	9 5 - 13 4	10.8 - 13.5	250 x 1400 x 730	30(10 - 150)	33 / 29 / 25 1	32 በ/26 በ/21 በ 1

¹⁾ 36/60/10 types of indoor units value.

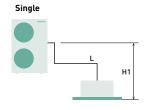
Simultaneous operation system combinations

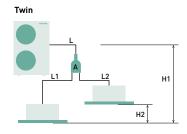


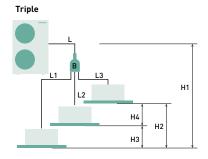
PACi NX Standard from 10,0 to 14,0 kW simultaneous operation system combinations · R32 Outdoor 10,0 kW 12,5 kW 14,0 kW Capacity Indoor S-50PY3E S-3650PF3E 5,0 5,0 Twin U-100 S-3650PK3E 5,0 kW S-3650PT3E S-3650PU3E S-60PY3E S-6071PF3E S-6010PK3E 6,0 kW S-6071PT3E S-6071PU3E 7,1 7,1 Twin U-140 S-6071PF3E S-6010PK3E 7.1 kW S-6071PT3E S-6071PU3F



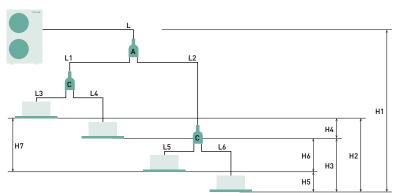
Refrigerant piping arrangements for single, twin, triple and double-twin







Double-twin



PACI NX Elite twin, triple and double-twin system from 7,1 to 14,0 kW Joint distribution (sold separately) A= CZ-P224BK2BM

B= CZ-P3 HPC2BM

PACi NX Standard twin system from 10,0 to

14,0 kW

Joint distribution (sold separately)
A= CZ-P224BK2BM

PACi Elite twin, triple and double-twin system from 20,0 to 25,0 kW

Joint distribution (sold separately) A= CZ-P680BK2BM B= CZ-P3 HPC2BM C= CZ-P224BK2BM

Twin System		Standard s to 14,0 kW	single and twin system	PACi NX Elite and PACi Elite twin, triple and double-twin system from 7,1 to 25 kW									
	Indoor unit combinations (see examples above)		Equivalent lengths and height differences (m) for outdoor unit sizes	Indoor	ınit combina	tions (see examples ab	Equivalent lengths and height differences (m) for outdoor unit sizes from 7,1 to 14,0 kW	Equivalent lengths and height differences (m) for outdoor unit sizes from 20,0 to 25,0 kW					
	Single	Twin	-	Single	Twin	Triple	Double-Twin	- ' '					
Total pipe length L		L + L1 + L2	≤ 50 m	L	L + L1 + L2			U-60/U-71: ≤ 50 m U-100/125/140: ≤ 75 m	U-200: ≤ 100 m U-250: ≤ 80 m				
Maximum pipe length from outdoor unit to most distant indoor unit	-	-	-	-	_ L+L1 or L+L1 or L+L2 or L		-	U-200: 90 m U-250: 60 m					
Maximum branch pipe length	-	L1 L2	≤ 15	-	L1 or L2	or L2 L1 or L2 or L3 L1 + L3 or L1 + L4 or L2 + L5 or L2 + L6		≤ 15 m	≤ 20 m				
Maximum branch pipe length differences	-	L1 > L2 L1 - L2	≤ 10	-	L1 > L2: L1 - L2	L1 > L2 > L3: L1 - L2 L2 - L3 L1 - L3	L2 + L6 (Max.) L1 + L3 (Min.): (L2 + L6) - (L1 + L3)	≤ 10 m	≤ 10 m				
Maximum pipe length differences after first branch (Double-Twin)	-	-	-	-	-	-	L2 > L1: L2 - L1	≤ 10 m	≤ 10 m				
Maximum pipe length differences after second branch (Double-Twin)	-	-	-	-	-	-	L4 > L3: L4 - L3 L6 > L5: L6 - L5	≤ 10 m	≤ 10 m				
Height difference (outdoor unit located higher)	H1	Н1	≤ 30	H1	11 H1 H1 H1		H1	≤ 30 m	≤ 30 m				
Height difference (outdoor unit located lower)	H1	H1	≤ 15	H1	1 H1 H1 H1		H1	≤ 15 m	≤ 15 m				
Height difference between indoor units	-	H2	≤ 0,5	-	H2	H2 or H3 or H4	H2 or H3 or H4 or H5 or H6	≤ 0,5 m	≤ 0,5 m				

Twin System				PACi NX Elite twin, triple and double-twin system from 7,1 to 14,0 kW					PACi Elite twin, triple and double-twin system from 20,0 to 25,0 kW						
	Outdoor o	unit main ameter (L)	Indoor ur connectio (L1, L2)		Outdoor unit main piping diameter (L)		Indoor unit connection piping diameter (L1, L2, L3, L4) (mm)			Outdoor unit main piping diameter (L) (mm)		Double-Twin distribution pipe (L1, L2) ¹⁾	connecti	ndoor unit onnection piping iameter ²⁾	
Unit type capacity	100	125	50	60	71 - 140	36	45	50	60	71	200	250	100 - 125	50	60 - 125
Liquid pipe (mm)	Ø 9,52	Ø 12,70	Ø 6,35	Ø 9,52	Ø 9,52	Ø 6,35	Ø 6,35	Ø 6,35	Ø 9,52	Ø 9,52	Ø 9,52	Ø 12,70	Ø 9,52	Ø 6,35	Ø 9,52
Gas pipe (mm)	Ø 15,88	Ø 15,88	Ø 12,70	Ø 15,88	Ø 15,88	Ø 12,70	Ø 12,70	Ø 12,70	Ø 15,88	Ø 15,88	Ø 25,40	Ø 25,40	Ø 15,88	Ø 12,70	Ø 15,88
Additional gas amount (g/m)	50	50	20	50	50	20	20	20	50	50	60	80	45	20	45

¹⁾ Total capacity of indoor unit connected after the branch. 2) 4 way cassette type.

Make additional charges by adding up tube length in an order of main tube (L1 \rightarrow branch tube (L1 \rightarrow L2 \rightarrow L3 wide diameter) and then selecting the amount of refrigerant corresponding to the remaining (after charge-less tube length: 30 m) liquid tube diameter and tube length from the above table.

PRO-HT TANK

PRO-HT Tank Series for PACi

Enjoy an efficient DHW / heating and cooling tank.
Panasonic commercial PRO-HT Tank solutions meet all
needs of your hot water applications providing 65 °C water.

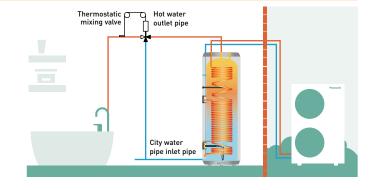


PRO-HT Tank DHW: PAW-VP750DHW and PAW-VP1000LDHW. Big volume and high temperature tank for commercial application.

- High performance and high saving
 - Energy Efficiency Class for energy label: A+ (from A+ to F)
 - High temperature hot water without booster
 - · Save installation time and cost by skipping additional accessories
- Sufficient hot water production
 - Maximum water outlet temperature up to 65 °C
 - Big volume tanks with 750 L and 1000 L capacity
 - · Heat exchanger design inhibits limescale
- Trusted quality
 - Double tube heat exchanger following drinking-water regulation
 - · Tank and heat exchanger made with stainless steel
 - · Internal and external pickling

Solution example DHW tank 1000 L + PACi

- · Ideal for small hotels and high-end residential
- · Hot water temperature up to 65 °C



One by one system compatible list with PACi Elite

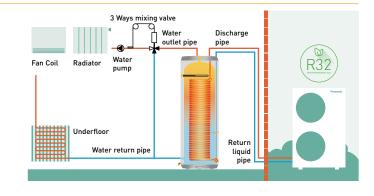
Model	Tank type	Product compatibility	Hot water outlet temperature without an electric heater
PAW-VP750LDHW-1	DHW	U-250PE2E8A	65 °C
PAW-VP1000LDHW-1	DHW	U-250PE2E8A	65 °C

PRO-HT Tank heating and cooling: PAW-VP380L. Waterborne heating and cooling for floor heating, radiators or fan coils

- High performance and high saving
 - · A7 COP 3,26, heating water temperature at 45 °C
 - Maximum 45 °C water outlet temperature
 - Energy efficiency class: A+++ (from A+++ to D)
- Simple waterborne heating and cooling solution
 - High temperature water without any boosters
 - Installation cost can be saved without additional boosters and buffer tanks
- Trusted quality
 - Tank and heat exchanger made with stainless steel
 - · Internal and external pickling

Heating and cooling tank 380L + PACi 20,0 kW

- · Ideal offer for small offices
- Cost saving solution with simple waterborne heating and cooling
- · Hot water up to 45 °C



One by one system compatible list with PACi Elite

Model	Tank type	Product compatibility	Water outlet temperature range
PAW-VP380L	Heating and cooling	U-200PZH2E8	5 °C ~ 45 °C

Panasonic R410A



PRO-HT TANK

PRO-HT Tank DHW

High temperature hot water is efficiently produced without any boosters.

Panasonic commercial PRO-HT Tank solutions can be adapted to various projects from high-end residential to gyms, and hotels.

PRO-HT Tank			PAW-VP750LDHW-1	PAW-VP1000LDHW-1
COP DHW (A +7 °C, W 10~55 °C) EN 16147 1)			4,10	3,86
COP DHW (A +15 °C, W 10~55 °C) EN 16147 ²⁾			4,79	4,79
Energy Efficiency Class (from A+ to F) 3)			A+	A+
Volume (net)		L	726	933
Reference tapping cycle			2XL	2XL
Standby heat loss according to EN16147		W/h	77	80
	Heat pump	°C	65	65
Maximum water temperature	Electrical heater	°C	85	85
Dimension	НхØ	mm	1855 x 990	2210 x 990
Net weight / with water		kg	179 / 905	191 / 1124
Stainless steel 316 L tank			Yes	Yes
Connections to the water supply network			RP 1¼	RP 11/4
Average insulation thickness		mm	100	100
Number of electrical heaters x power		W	1 x 6000	1 x 6000
Electric protection		A	16	16
Moisture protection (PAW-VP-RTC5B-PAC)			IP24	IP24
	Inlet	Inch (mm)	1/2(12,70)	1/2(12,70)
Heat exchanger connection	Outlet	Inch (mm)	3/4 (19,05)	3/4 (19,05)
Outdoor unit			U-250PE2E8A	U-250PE2E8A
Nominal electrical power - related to rated heat output		W	6670	6670
Energy consumption by chosen cycle (A +7 °C, W 10~55 °C)		kWh	6,00	6,36
Energy consumption by chosen cycle (A +15 °C, W 10~55 °C)		kWh	5,12	5,12
	Voltage	V	400	400
Power supply	Phase		Three phase	Three phase
	Frequency	Hz	50	50
	Without heater	W	12900	12900
Maximum power consumption	With heater	W	18900	18900
Dimension	HxWxD	mm	1642 x 1 095 x 529	1642×1 095×529
Net weight		kg	138	138
Sound pressure at 1 m from outdoor unit		dB(A)	57	57
Refrigerant (R410A) / CO, Eq.		kg / T	6,4/13,363	6,4/13,363
<u> </u>	Liquid pipe	Inch (mm)	1/2(12,70)	1/2(12,70)
Piping diameter	Gas pipe	Inch (mm)	1 (25,40)	1 (25,40)
Pipe length range 4)		m	30	30
Elevation difference (in/out)		m	30 (OD above) 30 (OD below)	30 (OD above) 30 (OD below)
Pipe length for nominal capacity		m	7,5	7,5
Pipe length for additional gas		m	> 7,5	> 7,5
Additional gas amount		g/m	Refer to manual	Refer to manual
Operating range - outdoor ambient	Heat Min ~ Max	°C	-20~+24	-20~+24

1) Heating of sanitary water up to 55 °C with inlet air temperature at 7 °C, humidity at 89 % and inlet water temperature at 10 °C. According to EN16147. 2) Heating of sanitary water up to 55 °C with inlet air temperature at 15 °C, humidity at 74 % and inlet water temperature at 10 °C. According to EN16147. 3) Scale from A+ to F following COMMISSION DELEGATED REGULATION (EU) No. 812/2013. 4) The pipe length range is between indoor and outdoor, but does not include additional length for coil.

This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

* When connected as pressurised, safety valve is mandatory.

Accessories

PAW-VP-RTC5B-PAC Tank controller for PACi system

Technical focus

- \cdot Water volume 750 L and 1000 L
- · Maximum hot water production 65 °C without boosters
- · Heating coil 52 m (750 L) and 63 m (1000 L)
- · Tank material 3 mm
- · ABS external case











PRO-HT TANK



PRO-HT Tank heating and cooling

High temperature hot water is efficiently produced without any boosters.

Panasonic commercial PRO-HT Tank solutions can be combined with PACi to adapt various projects from highend residentials to small offices.

PRO-HT Tank			PAW-VP380L
Cooling capacity at 35 °C, water outlet 7 °C		kW	12,8
Heating capacity		kW	25
Heating capacity at +7 °C, heating water temperature at 45 °C		kW	23
COP at +7 °C with heating water temperature at 45 °C		W/W	3,26
Heating Energy Efficiency class at 35 °C (from A+++ to D)			A+++
η _{s,h} (LOT1) ¹⁾		%	193
Dimension	ΗxØ	mm	1820×690
Volume (net)		L	380
Shipping weight		kg	99
Connections to the water supply network			RP 1¼
Heating water flow (ΔT=5 K. 35 °C)		m³/h	3,9
Water outlet	Cool Min ~ Max	°C	5~15
water outlet	Heat Min ~ Max	°C	25~50
Dining diameter	Liquid pipe	Inch (mm)	1/2(12,70)
Piping diameter	Gas pipe	Inch (mm)	3/4 (19,05)
Outdoor unit			U-200PZH2E8
Dimension	HxWxD	mm	1500 x 980 x 370
Net weight		kg	117
Sound pressure at 1 m from outdoor unit		dB(A)	57
Refrigerant (R32) / CO ₂ Eq.		kg	4,20 / 3 510
Piping diameter	Liquid pipe	Inch (mm)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	1 (25,40) + adapter
Pipe length range ²⁾		m	30
Elevation difference (in / out)		m	30 (OD above) 30 (OD below)
Pipe length for nominal capacity		m	7,5
Pipe length for additional gas		m	> 7,5
Additional gas amount		g/m	Refer to manual
Operating range - outdoor ambient	Cool Min ~ Max	°C	-15~+46
operating range - outdoor ambient	Heat Min ~ Max	°C	-20~+24

¹⁾ Seasonal space cooling / heating energy efficiency following COMMISSION REGULATION (EU) 811/2013. 2) The pipe length range is between indoor and outdoor, but does not include additional length for coil.

This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Performance calculation in agreement with Eurovent. Sound pressure measured at 1 m from the outdoor unit and at 1,5 m height.

* Flow switch and water filter are not equipped.

Accessories	
PAW-VP-RTC5B-PAC	Tank controller for PACi system
PAW-IU29	Additional heater
PAW-IU39	Additional heater

Technical focus

- · Water volume 380 L
- · Maximum hot water production 45 °C
- · Tank and heat exchanger made with stainless steel
- · Heating coil 52 m 316 L
- · Internal and external pickling
- · Foam insulation 70 mm
- · Tank material 2 mm 316 L
- · ABS external case









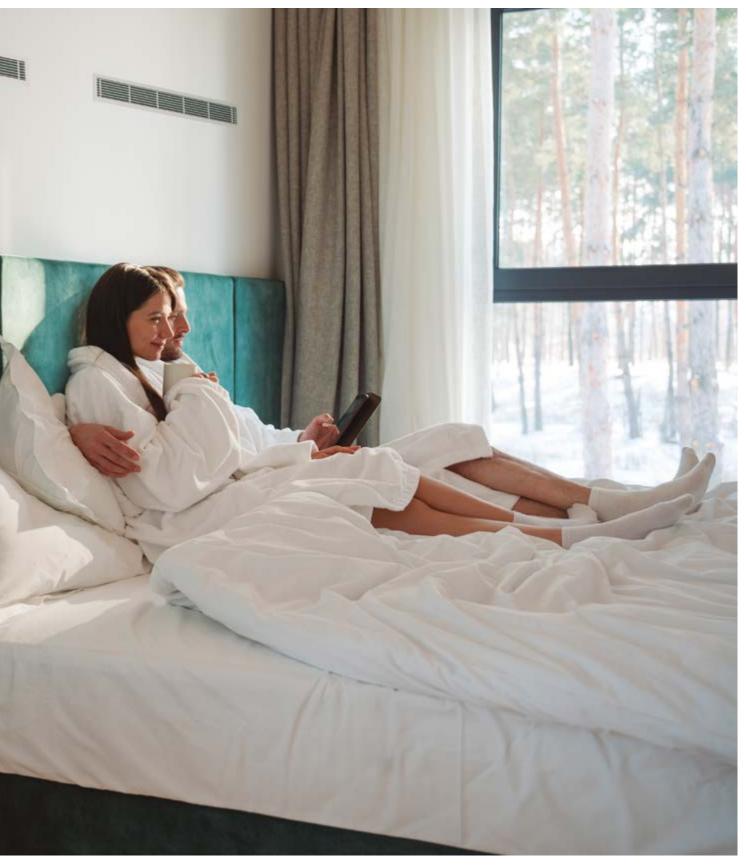


PACi with Water Heat Exchanger

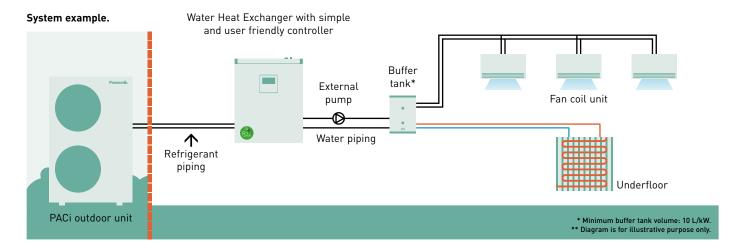
Panasonic introduces a highly-efficient Water Heat Exchanger for PACi Series. This ground-breaking product offers further possibilities of PACi solutions by adding hydronic options.

WATER OUTLET TEMPERATURE

Cooling: 5 ~ 15 °C Heating: 30 ~ 55 °C



Highly-efficient Water Heat Exchanger for PACi Series.



Cost

Cost saving solution

- · A+++ Energy efficiency class (scale from A+++ to D)
- Cost effective water projects thanks to lower cost for PACi compared to VRF
- Space saving and flexible positioning
 - 2 installation possibilities (wall-mounted / floorstanding)
 - Compact, lightweight unit design, only 27 kg

Easy installation, maintenance

- · Quick mounting process
- · Flow switch kit is included as a standard
- Direct access to electrical box

Space saving and flexible positioning

Compact and light unit.

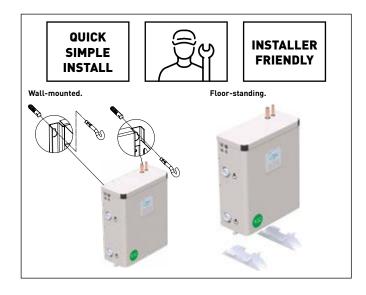
- · Only 205 mm depth fits within a limited space
- · Lightweight design at only 27 kg, makes it easy to maneuver and position
- · Maximum total refrigerant piping length: 90 m*
- * 90 m for PAW-200W5APAC.

ONLY 205 mm DEPTH LIGHT WEIGHT 27 kg PIPING LENGTH 90 m

2 installation options.

- Wall-mounted and floor-standing installation options are available. Free-up floor space by using the wall-mounted installation
- Quick mounting process with its lightweight compact design

Make fixing holes \rightarrow Fix 2 screws \rightarrow Hang the unit \rightarrow Finish



Application example

- Fulfilling R32 refrigerant needs to follow environmental perspective, Company policy
- · Water solution to substitute existing boiler system
- · Hydraulic system to reduce total amount of HFC refrigeration



Foodchain.

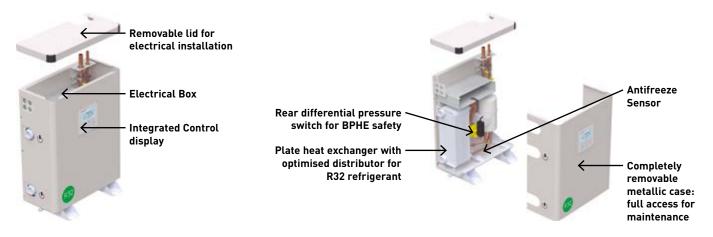


Small office.

PACi Water Heat Exchanger (WHE) is the ideal solution for small retails and offices. This is the first PACi connected WHE system.

The investment costs can be amortised in a short period.

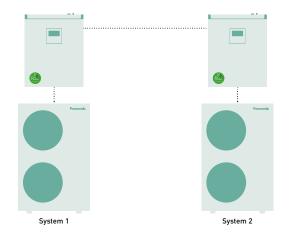
Easy maintenance operation from two points of access

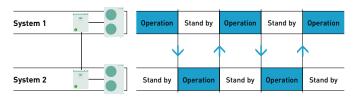


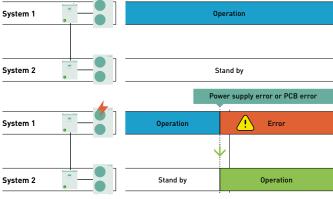
PACi Water Heat Exchanger can be connected as cascade up to 3 groups of 8 units each reaching up to 600 kW

Built-in cascade control for 2 units.

2 refrigerant systems can be connected together in a cascade. This option is included in the standard scope of delivery on the WHE. It is activated using the one of the CZ-RTC5B remote controllers on the units as master. Rotation and Back-up operation modes can be selected.





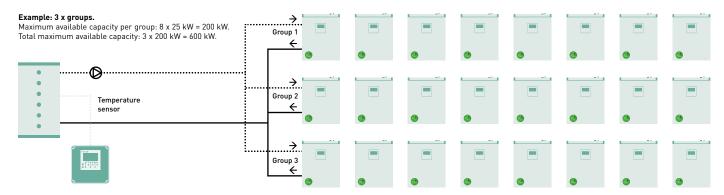


* One of built-in controllers should be deactivated.

Cascade controller PAW-PACR3 allows control from 3 units to 3 groups of 8 units each.

Up to three groups can be combined into a cascade by using optional PAW-PACR3 for failure substitution or temperature assist.

- · Maximum 3 groups (up to 8 units per group)
- · Rotation
- · Failure substitution
- · Temperature
- · Operation output signal
- · Alarm output signal





PACi with Water Heat Exchanger for chilled and hot water production

Constant 55 °C flow available.

Short-term investment recovery.

PACi Water Heat Exchanger is ideal for small offices and retails. The investment costs can be amortised within a very short period. This solution allows investors and operators to save money.

			PAW-200W5APAC	PAW-250W5APAC
Cooling capacity 1)		kW	20,00	25,00
EER 1)		W/W	3,03	2,89
Heating capacity 2]		kW	23,00	28,00
COP 2)		W/W	2,98	2,95
η _{s,h} (LOT1) ³⁾		%	178	178
Energy efficiency class (Scale A+++ to D) 4)			A+++	A+++
Dimension	HxWxD	mm	550 x 455 x 205	550 x 455 x 205
Net weight		kg	27	27
Water pipe connector		Inch	Male Thread 1 ¼	Male Thread 1 1/4
Cooling water flow (ΔT=5 K. 35 °C)		m³/h	3,45	4,30
Heating water flow (ΔT=5 K. 35 °C)		m³/h	4,15	4,85
Flow switch			Included	Included
Water filter			Included	Included
Outdoor unit			U-200PZH2E8	U-250PZH2E8
Sound pressure	Cool / Heat (Hi)	dB(A)	59/61	59/63
Dimension	HxWxD	mm	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	117	128
Dialization disposition	Liquid pipe	Inch (mm)	3/8 (9,52)	1/2 (12,70)
Piping diameter	Gas pipe	Inch (mm)	1 (25,40)	1 (25,40)
Pipe length range		m	5~90	5~60
Elevation difference (in / out)		m	30	30
Pipe length for additional gas		m	30	30
Additional gas amount		g/m	60	80
Water suitlet temperature many	Cool Min ~ Max	°C	+5~+15	+5~+15
Water outlet temperature range	Heat Min ~ Max	°C	+30~+50	+30~+50
Operating range	Cool Min ~ Max	°C	-15~+46	-15~+46
Operating range	Heat Min ~ Max	°C	-20~+24	-20~+24

¹⁾ Data refers to 7 °C leaving chilled water temperature and 35 °C ambient air temperature, according to EN14511 standard. 2) Data refers to 45 °C leaving warm water temperature and 7 °C ambient air temperature according to EN14511 standard. 3) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 4) Following COMMISSION REGULATION (EU) No 811/2013 for low-temperature heat pumps. Scale from A+++ to D.

Professional solution

Water heat exchanger is compatible with R32 PACi.

Many air conditioning manufacturers are selling R32 systems and it is becoming the standard refrigerant for split type air conditioning, because R32 has a much lower global warming potential than R410A, and can also provide higher efficiency.

Quick installation with pre-assembled flow switch

The flow switches come pre-assembled with pipe fittings for ease of installation.









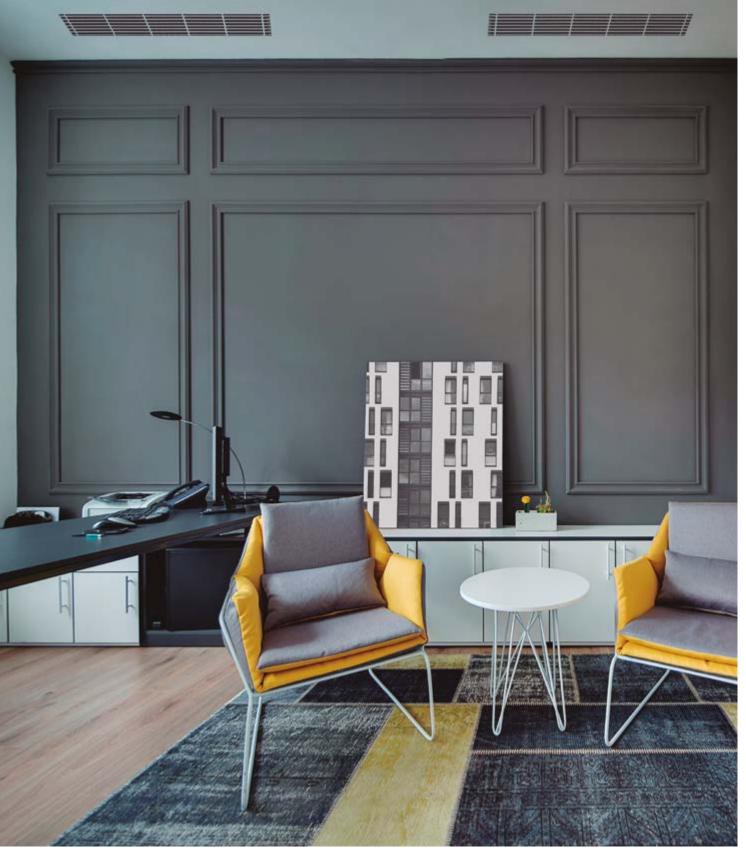






R22 Renewal. Fast, easy to install and cost effective

An important drive to further reduce the potential damage to our ozone. It is often said that legislation is ruling our lives but sometimes it is there to help save lives. R22 phase out can be described as one of these and from Jan 1st 2010 the use of Virgin (new) R22 refrigerant was banned within the European Union.



Panasonic is doing its part

We at Panasonic are also doing our part – recognising that all finances are under pressure at the moment. Panasonic has developed a clean and cost effective solution to enable this latest legislation to offer less financial impact on your business.

The Panasonic renewal system allows good quality existing R22 or R410A pipe work to be re-used whilst installing new high efficiency R32 systems.

By bringing a simple solution to the problem Panasonic can renew all Split Systems and PACi systems; and depending upon certain restrictions we don't even limit the manufacturer's equipment we are replacing.

By installing a new high efficiency Panasonic R32 system you can benefit from around 30 % running cost saving compared to the R22 system.

Yes...

- 1. Check the capacity of the system you wish to replace
- 2. Select from the Panasonic range the best system to replace it with
- 3. Follow the procedure detailed in the brochure and technical data Simple...

Why renewal?

Unique R22 Renewal from Panasonic: Fast, easy to install and cost effective.

- Panasonic refrigerant oil doesn't react to the most common oil types used in air-conditioning systems. This ensures the mix of oil does not damage the units.
 Therefore installations are easier
- All Panasonic PACi units can be installed in R22 pipings, no specific models are available
- Up to 33 Bar! When there is any doubt about the strength of the piping, the maximum working pressure can be reduced to 33 Bar with a setting in the software of the outdoor unit

Reuse of existing piping (renewal design and installation)

Notes on reuse of existing refrigerant piping.

It is possible for each series of PZH and PZ series outdoor unit to reuse the existing refrigerant piping without cleaning when obtained under certain conditions. Make sure that the requirements under the section "Notes on reuse of existing refrigerant piping", "Measurement procedure for renewal" and "Refrigerant piping size and allowable piping length" will be satisfied in order to carry out.

Also, check the items with regard to section "Safety" and "Cleaning".

1. Prerequisite

- · If the refrigerant used for the existing unit is other than R22, R407C and R410A / R32, the existing refrigerant piping cannot be used.
- · If the existing unit has another use than air conditioning, then existing refrigerant piping cannot be used.

2. Safety

- · If there is a hollow, crack or corrosion on the piping, make sure to install new piping.
- · If the existing piping is other than capable of reuse of piping as shown in the flowchart, make sure to install new piping.
- · In case of multiple operation, use our genuine branch piping for refrigerant R32.

A local supplier shall assume responsibility for the defects and hollows on the reuse of existing piping surface and recognition of reliability of the piping strength. There is no guarantee that we take responsibility for such damages.

The operational pressure of the refrigerant R32 becomes higher compared to R22 or R410A. In the worst case, a lack of compressive strength may lead to piping explosion.

3. Cleaning

 When the refrigerant oil used for the existing unit is other than the listed below, make sure to install new piping or wash it thoroughly before reusing it.
 [Mineral Oil] SUNISO, FIORE S, MS
 [Synthesized oil] alkyl benzene oil (HAB, parallel freeze), ester oil, ether oil (PVE only)

If the existing unit is GHP type, it is necessary to wash the piping thoroughly.

- If the existing pipes in the outdoor and indoor units remain disconnected, make sure to install a new piping or wash it thoroughly before reusing it.
- · If the discoloured oil or residue remains in the existing piping, make sure to install a new piping or wash it thoroughly before reusing it. See "Deterioration Criteria for Refrigerant Oil" in table 3.
- · If the compressor of the existing air conditioner has a failure history, make sure to install a new piping or wash it through thoroughly before reusing it.

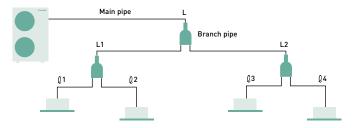
When reusing the existing piping as it is without removing dirt and dust, inadequate piping could result a renewal appliance in failure.



Notes on renewal for simultaneous operation of multiple units

Only main pipe is applicable for using the different diameter size.

In case of different diameter size for the branch pipes, a new installation work for a standard size is necessary. Be sure to use our genuine branch piping for refrigerant R32.



Notes on renewal for simultaneous operation of multiple units							
Capacity class	Standard gas pipe size						
Type 50	Ø 6,35	Ø 12,70					
Type from 60 to 140	Ø 9,52	Ø 15,88					
Type 200	Ø 9,52	Ø 25,40					
Type 250	Ø 12,70	Ø 25,40					

- · Only the main pipe L can be used among different diameter's existing piping
- · Installation work as a standard size is capable for L1, L2, Ω 1 Ω 4 piping
- · Be sure to use our genuine branch piping for refrigerant R32

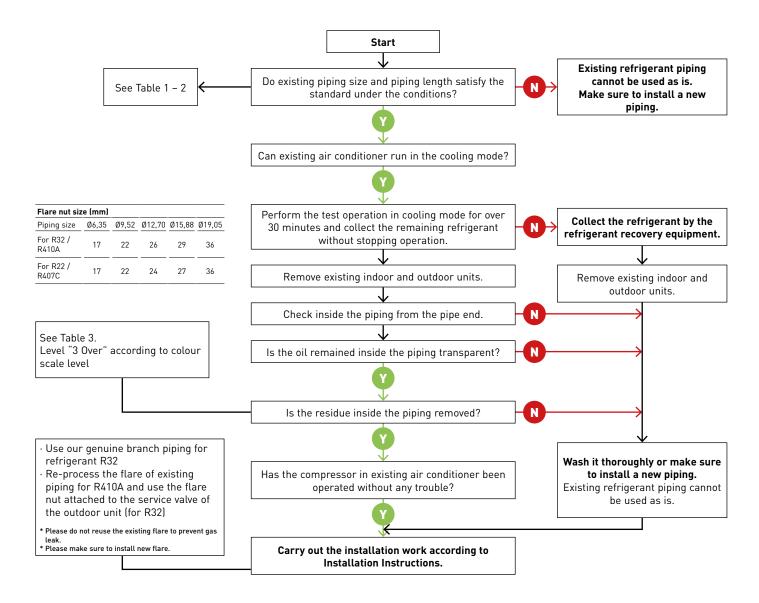
1. In case of single unit:

It is not necessary to charge with additional refrigerant until the chargeless pipe length in the table 2. If the pipe length is exceeding the charge less pipe length, charge with additional refrigerant amount per 1 m according to the equivalent length.

2. In case of simultaneous operation of multiple units: Calculate the refrigerant charging amount according to the calculating method of the standard piping diameter. As to the additional refrigerant charging amount per 1 m, refer to the additional amount in the table 2.

Measurement procedure for Renewal

Observe the following procedure when reusing the existing piping or carrying out renewal installation work. Flowchart of existing piping measures criteria for PZH and PZ series outdoor unit.



Refrigerant piping size and allowable piping length

Check if reuse of existing refrigerant piping is possible based on the following chart.

The standards other than this one (difference of elevation, etc.) are identical to the requirements of ordinary refrigerant piping.

Table 1 - Reusable existing pip	oing (mm)							
Material			0			1/2 H	H, H*	
External diameter	Ø6,35	Ø9,52	Ø12,70	Ø15,88	Ø19,05	Ø22,22	Ø25,40	Ø28,58
Thickness	0,80	0,80	0,80	1,00	1,00	1,00	1,00	1,00

^{*} It is impossible to reuse the size of \emptyset 19.05, \emptyset 22.22, \emptyset 25.4 and \emptyset 28.58 for material 0. Change to material 1/2H or material H.

Table 2	? - 1 Refrigera	nt piping size: 2,5 - 14	,0 kW type	(mm)						
Liquid pip	oe .			Ø6,35			Ø9,52		Ø12,70	
Gas pipe			Ø9,52	Ø12,70	Ø15,88	Ø12,70	Ø15,88	Ø19,05	Ø15,88	Ø19,05
PZH3	Type 36 ~ 60	Additional gas 15 g/m	×	Standard 40 m (30 m)	×	×	×	×	×	×
	Type 25				Tenta	ative data				
	Type 36	Additional gas 10 g/m	×	Standard 15 m (7,5 m)	×	×	×	×	×	×
PZ3	Type 50	Additional gas 15 g/m	×	Standard 20 m (7,5 m)	×	×	×	×	×	×
	Type 60	Additional gas 15 g/m	×	Standard 30 m (7,5 m)	×	×	×	×	×	×
	Type 71	Additional gas 17 g/m	×	×	Standard 40 m (10 m)	×	×	×	×	×

Liquid pi	pe		Ø6,35			Ø9,52		Ø1:	2,70
Gas pipe		Ø9,52	Ø12,70	Ø15,88	Ø12,70	Ø15,88	Ø19,05	Ø15,88	Ø19,05
D7110	Type 71	×	10 m (10 m)	10 m (10 m)	▽ 30 m (30 m)	Standard 50 m (30 m)	×	25 m (15 m)	×
PZH3	Type 100 ~ 140	×	×	×	×	Standard 85 m (30 m)	⊚ 85 m (30 m)	35 m (15 m)	35 m (15 m)
Additiona	al gas		20 g/m			45 g/m		80	g/m
PZ3	Type 100 ~ 140	×	×	×	×	Standard 50 m (30 m)	⊚ 50 m (30 m)	25 m (15 m)	25 m (15 m)
Additiona	al gas					45 g/m		80	g/m
PZH2	Type 50	×	Standard 40 m (30 m)	⊚ 40 m (30 m)	20 m (15 m)	20 m (15 m)	×	×	×
PZ2	Type 60 ~ 71	×	▽ 10 m (10 m)	10 m (10 m)	▽ 30 m (20 m)	Standard 50 m (20 m)	×	25 m (10 m)	×
Additiona	al refrigerant charging amount per 1 m		20 g/m			40 g/m		80	g/m
D7110	Type 60 ~ 71	×	▽ 10 m (10 m)	10 m (10 m)	▽ 30 m (30 m)	Standard 50 m (30 m)	×	25 m (15 m)	×
PZH2	Type 100 ~ 140	×	×	×	×	Standard 75 m (30 m)	⊚ 75 m (30 m)	35 m (15 m)	35 m (15 m)
PZ2	Type 100 ~ 140	×	×	×	×	Standard 50 m (30 m)	© 50 m (30 m)	25 m (15 m)	25 m (15 m)
Additiona	al refrigerant charging amount per 1 m		20 g/m			50 g/m		80	g/m

How to see table definition (example):

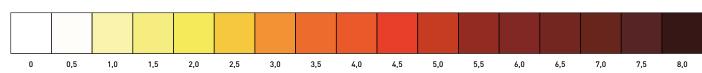
In case of type 71, standard size is liquid pipe Ø9,52 / gas pipe Ø15,88.

There is a limitation to liquid pipe Ø9,52 / gas pipe Ø12,70 and to liquid pipe Ø12,70 / gas pipe Ø15,88.

However, they are applicable for different diameter's pipes.

Liquid pipe			Ø9,52			Ø12,70			Ø15,88	
Gas pipe		Ø22,22	Ø25,40	Ø28,58	Ø22,22	Ø25,40	Ø28,58	Ø22,22	Ø25,40	Ø28,58
D711	Type 200	▽ 80 m (30 m)	Standard 100 m (30 m)	© 100 m (30 m)	▽ 50 m (15 m)	50 m (15 m)	50 m (15 m)	×	×	×
PZH	Type 250	×	×	×	▽ 80 m (30 m)	Standard 100 m (30 m)	⊚ 100 m (30 m)	▽ 65 m (20 m)	65 m (20 m)	65 m (20 m
Additional refrige	rant charging amount per	1 m	40 g/m			80 g/m			120 g/m	





Accessories and control

Drain kits

Drain kit to suit outdoor units from 5,0 to 7,1 kW.

CZ-50DRS1

CZ-140DRS1

Branch Pipes, Header



Branch pipe.

CZ-P224BK2BM



Branch pipe (from 22,4 kW to 68 kW).

CZ-P680BK2BM



Header.

Drain kit to suit outdoor units from 10,0 to 25 kW.

CZ-P3HPC2BM

Outdoor accessories



Tray for condenser water compatible with outdoor elevation platform.

PAW-WTRAY



Outdoor elevation platform.

Dimension (HxWxD): 400x900x400 mm

PAW-GRDSTD40



Outdoor base ground support for noise and vibration absorption.

Dimension (HxWxD): 600x95x130 mm Safe working load: 500 kg

PAW-GRDBSE20

Panels



Panel for 4 way 60x60 cassette -

PY3. CZ-KPY4



Standard panel for 4 way 90x90 cassette.

CZ-KPU3W



Econavi panel for 4 way 90x90 cassette.

CZ-KPU3AW



Panel for 60x60 cassette - PY2 size 700 x 700 mm.

CZ-KPY3AW

Panel for 60x60 cassette - PY2 size 625 x 625 mm.

CZ-KPY3BW

Sensors



Econavi energy savings sensor.

CZ-CENSC1



Remote temperature sensor.

CZ-CSRC3

Plenums





Air outlet plenum for S-3650PF3E.

CZ-56DAF2

Air outlet plenum for S-6071PF3E.

CZ-90DAF2

Air outlet plenum for S-1014PF3E.

CZ-160DAF2

Air outlet plenum for S-200PE2E5.

CZ-TREMIESPW705

Air outlet plenum for S-250PE2E5.

CZ-TREMIESPW706

VRF Smart Connectivity+





SER8150R0B1194

Remote controller Panasonic Net Con, RH, PIR, R1/R2.

SER8150R5B1194



Wireless ZigBee® Pro module / Green Com card.

VCM8000V5094P



Hotel Room Expansion Module 14 indoor units.

HRCEP14R

Hotel Room Controller 28 indoor units.

HRCPBG28R

Hotel Room Controller w/ Display 42 indoor units.

HRCPDG42R



Door / window wireless sensor.

SED-WDC-G-5045



Wall / ceiling (motion) wireless sensor.

SED-MTH-G-5045



CO, sensor.

SED-C02-G-5045



Sensor with room temperature and humidity.

SED-TRH-G-5045



Water leakage sensor.

SED-WLS-G-5045

Accessories and control



Cover frame. Silver.

Cover frame. White.

FAS-00

FAS-01

Cover frame. Glossy translucent

white.

FAS-03

Cover frame. Light tan wood.

FAS-05

Cover frame. Dark brown wood.

FAS-06

Cover frame. Dark black wood.

FAS-07

Cover frame. Brushed steel finish

FAS-10

Controller and touch controllers for hotels with dry contacts



Modbus RS-485 touch room controller with I/O, White.

PAW-RE2C4-MOD-WH

Touch display control with 2 digital inputs, White.

PAW-RE2D4-WH



Modbus RS-485 touch room controller with I/O, Black.

PAW-RE2C4-MOD-BK

Touch display control with 2 digital inputs, Black.

PAW-RE2D4-BK

Hotel sensors for dry contacts



Wall motion sensor 24 V.

PAW-WMS-DC

Wall motion sensor 240 V AC.

PAW-WMS-AC



Ceiling motion sensor 24 V.

PAW-CMS-DC

Ceiling motion sensor 240 V AC.

PAW-CMS-AC



Power supply 24 V.

PAW-24DC



Door or window contact.

PAW-DWC

Centralised controls



System controller for 64 indoor units with weekly timer.

C7-64FSMC3



Central ON / OFF controller, up to 16 groups, 64 indoor units.

CZ-ANC3



Intelligent controller (touch screen/web server) to control up to 256 indoors with included load distribution ratio (LDR).

CZ-256ESMC3

Panasonic AC Smart Cloud



Panasonic AC Smart Cloud. Cloud internet control. Up to 128 groups. Controls 128 units.

CZ-CFUSCC1

Accessories interfaces



Modbus RTU and TCP interface for 16 indoor units.

PAW-AC2-MBS-16P

Modbus RTU and TCP interface for 64 indoor units.

PAW-AC2-MBS-64P

Modbus RTU and TCP interface for 128 indoor units.

PAW-AC2-MBS-128P



KNX interface for 16 indoor units.

PAW-AC2-KNX-16P

KNX interface for 64 indoor units.

PAW-AC2-KNX-64P



BACnet IP and MSTP interface for 16 indoor units.

PAW-AC2-BAC-16P

BACnet IP and MSTP interface for 64 indoor units.

PAW-AC2-BAC-64P

BACnet IP and MSTP interface for 128 indoor units.

PAW-AC2-BAC-128P



Commercial Wi-Fi Adaptor.

CZ-CAPWFC1



KNX interface.

PAW-RC2-KNX-1i



Modbus RTU interface.

PAW-RC2-MBS-1



Modbus RTU interface to control 4 indoor/ groups.

PAW-RC2-MBS-4



BACnet IP and MSTP.

PAW-RC2-BAC-1



RAC interface adapter for integration into P-Link, plus external input and alarm/ status output (for YKEA units).

CZ-CAPRA1

Accessories and control

Centralised controls. Connection with general equipment



Adaptor for ON / OFF control of external devices.

CZ-CAPC3



Mini series parallel device controlling indoor units, maximum 1 group and 8 indoor unit.

CZ-CAPBC2



Communication Adaptor. Up to 128 groups. Controls 128 units.

CZ-CFUNC2

Individual controls



CONEX wired remote controller (nonwireless).

CZ-RTC6



CONEX wired remote controller with Bluetooth®.

CZ-RTC6BL



CONEX wired remote controller with Wi-Fi and Bluetooth®.

CZ-RTC6BLW*



Design wired remote controller with Econavi function and datanavi.

CZ-RTC5B



Infrared remote controller and receiver for 4 way 90x90 cassette.

CZ-RWS3 + CZ-RWRU3W



Infrared remote controller and receiver for 4 way 60x60 cassette PY3 with panel.

CZ-RWS3 + CZ-RWRY3



Infrared remote controller for wall-mounted and 4 way 60x60 cassette with panel.

CZ-RWS3



Infrared remote controller and receiver for ceiling.

CZ-RWS3 + CZ-RWRT3



Infrared remote controller and receiver for all indoor units.

CZ-RWS3 + CZ-RWRC3

Accessories PCB



T10 interface PCB with digital and relay connections.

PAW-T10



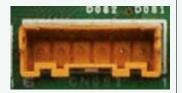
PCB for server room application, control of 3 PACi units, redundancy, back-up, etc.

PAW-PACR3

Connector to PACi NX indoor unit's PCB to provide OPT functions.

PAW-0PT-NX

Accessories cables



Cable for all the T10 functions.

CZ-T10



Cable to operate external EC fan.

PAW-FDC



Cable for all option monitoring signals.

PAW-0CT

Cable with force thermo OFF/ leakage detection.

PAW-EXCT

PRO-HT Tank accessories

Tank controller for PACi system.	Additional heater.	Additional heater.
PAW-VP-RTC5B-PAC	PAW-IU29	PAW-IU39

^{*} Only compatible with PACi NX Series.

ECOI EX / ECOI / ECOG





Commercial VRF Systems

Professional solutions for commercial projects.

Panasonic VRF Systems are specifically designed for energy saving, easy installation and high efficiency performance. A wide range of outdoor and indoor unit models offer unique features which are designed for the most demanding offices and large buildings.

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Dimensions and tube sizes of branches and headers for 2-Pipe ECOi EX ME2 and Mini ECOi Series	→ 346
Dimensions and tube sizes of branches and headers for 3-Pipe ECOi EX MF3 Series	→ 348











VRF highlighted features

Panasonic provides an extensive range of solutions for medium and large sized buildings, combining the best options to satisfy all needs and site restrictions.



		ECOi. Electrical VRF		ECO G. Gas F	Powered VRF
2-Pipe Mini ECOi LZ2 · R32	2-Pipe Mini ECOi LE2 / LE1 · R410A	2-Pipe ECOi EX	3-Pipe ECOi EX	2-Pipe ECO G GE3	3-Pipe ECO G GF3
		E E	7		The second second
6 =	=				
				2	-
		Capacit	y range		
4 - 10 HP	4 - 10 HP	8 - 80 HP	8 - 48 HP	16 - 60 HP	16 - 25 HP
		Extreme temper	atures operation		
-20 °C (heating) / 52 °C (cooling)	-20 °C	-25 °C	-20 °C	-21 °C	-21 °C
		Number of i	ndoor units		
15	15	64	52	64	24
		Simultan	eity ratio		
50 ~ 150 %	50 ~ 130 %	200 %	150 %	50 ~ 200 % 1)	50 ~ 200 %
		Indoor	units		
		All (check r	estrictions)		
		Cont	rols		
		A	ll		
		Other range:	s integration		
	PAC: full	control integration + Do		accassory	
	1 AOI IUI		The sac integration by a	10003301 y	

Uniquely, you can choose from both Electrical VRF and Gas-powered VRF systems from Panasonic, delivering the best choice that really makes a difference to our customers

Providing a large choice of indoor units, you can also connect water heat exchangers, air handling units and ventilation units with or without a heat exchanger. And all managed from a simple and powerful stand-alone remote control, new centralised controls or cloud connection with 3G embedded.

This cutting edge control technology is called VRF Smart Connectivity, combining the expertise of VRF communication and a leading BEMS company to maximise comfort and efficiency while also reducing installation costs.



Panasonic EC0i is Eurovent certified. Panasonic's VRF systems - EC0i range is now certified by Eurovent*. The Eurovent certification verifies the performance ratings of heating and cooling systems following European standards. Those data provides products efficiency with full transparency for the benefit of customers and professionals.



* Reference website: https://www.eurovent-certification.com/en.

Energy saving



Inverter Plus System. Inverter Plus System classification highlights Panasonic's highest performing



Panasonic R2 rotary compressor.

Designed to withstand extreme conditions, it delivers high performance and efficiency.



All inverter compressors.

Multiple large-capacity all inverter compressors (more than 14 HP).Two independently controlled inverter compressors achieve high efficiency. Redesigned components in the body provide performance improvement especially in the rated cooling condition and EER performance.



Econavi.

Intelligent Human Activity Sensor and Sunlight Sensor technologies that can detect and reduce waste of energy by optimising air conditioner operation according to room conditions. With just one touch of a button, you can save energy.



High COP.

High efficiency models performs higher COP than standard units and standard

GAS

ECO G Gas powered.

ECO G technology offers the best in energy efficiency. ECO G gas VRF is specially designed for buildings where the electricity is restricted or CO, emissions must be reduced.

High performance



Down to -25 °C in heating mode. The ECOi EX system works in heating mode with performance data at outdoor temperature down to -25 °C.



Operating range.

The PRO-HT Tanks work with an outdoor temperature is as Inw as -20 °C



COOLING MODE

Cooling with outdoor temperature up to 52 °C. The ECOi EX system works in cooling mode with performance

data at outdoor

temperature up to 52 °C.



Bluefin.

Panasonic has extended the life of its condensers with an original anti-rust coating



nanoe™ X.

Technology with the benefits of hydroxyl radicals has the capacity to inhibit pollutants, viruses and bacteria to clean and deodorise.



Filter included. Hide-away with

filter included.



Self-diagnosing

function. By using electronic control valves past warnings are stored. This makes it easier to diagnose malfunctions, reducing service labour and therefore costs.



AUTOMATIC FAN

Automatic fan operation. Convenient microprocessor control automatically

adjusts fan speed to high, medium or low, corresponding to room sensor and maintains comfortable air flow throughout the room



Mild Dry.

By intermittent control of compressor and indoor unit's fan, "Mild Dry" gives you comfort. It realizes efficient dehumidification according to room temperature.



Comfortable auto-flap control. When the unit is first turned on, flap position is automatically adjusted in accordance with

the cooling or

heating operation

Automatic restart function for power failure. Even when power failure occurs, preset programmed operation can be

reactivated once

power is resumed.

Automatic restart.

AIR SWEEP

Air Sweep. The air sweep function moves the flap up and down in the air outlet. directing air in a "sweeping" motion around the room and providing comfort in every corner.



Built-in drain

pump. Maximum head 50cm (or 75cm for U type) from the bottom of the



High performance. A7 COP 6,70 for ECOi 3-Pipe in case of heat recovery. For PRO-HT Tank



DHW. With PRO-HT Tank vou can also heat your domestic hot water at a very low cost with the optional hot . water cylinder.



High temperature. With PRO-HT Tank, maximum water outlet temperature up to 65 °C.



R22 renewal. The Panasonic renewal system allows good quality existing R22 pipe work to be re-used whilst installing new high efficiency

R410A systems



5 Years Warranty. We guarantee the outdoor unit compressors for five vears.

High connectivity



Panasonic AC Smart Cloud.

The AC Smart Cloud from Panasonic allows you to have complete control of all your installations. In a simple click, receive status updates from all your units in realtime, preventing breakdowns and optimising costs.



Internet control.

A next generation system providing userfriendly remote control of air conditioning or heat pump units from everywhere, using a simple Android™ or iOS smartphone, tablet or PC via the internet.



BMS connectivity.

The communication port can be integrated into the indoor unit and provides easy connection to, building management system, providing control of your Panasonic heat pump.

Panasonic: delivering TOP energy efficiencies for many years



Particularly suitable for retail, hotels and office applications

Outstanding efficiency at part load conditions:

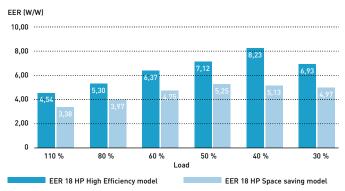
Panasonic ECOi EX model covers up to 30 % part load with extremely high efficiency.

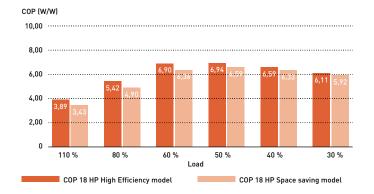
EER comparison of Panasonic 2-Pipe ECOi EX ME2 at different partial load								
Load %	100 %	80 %	60 %	50 %	40 %	30 %		
18 HP High Efficiency model	4,54	5,30	6,37	7,12	8,23	6,93		
18 HP Space saving model	3,38	3,97	4,75	5,25	5,13	4,97		

Conditions: Outdoor temperature 35 °C DB, Room temperature 19 °C WB.

COP comparison of Panasonic 2-Pipe ECOi EX ME2 at different partial load 100 % Load % 80 % 60 % 50 % 40 % 30 % 18 HP High Efficiency model 6,90 6,94 6,59 3,89 5,42 6.11 18 HP Space saving model 3,43 4.90 6,36 6,59 6.33 5,92

Conditions: Outdoor temperature 0 °C WB, Room temperature 20 °C DB.





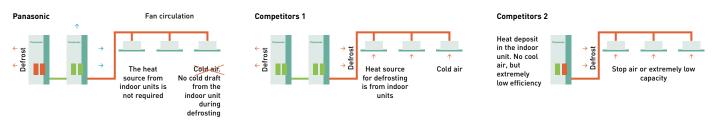
Excellent SEER and SCOP values for VRF 2 and 3-Pipe

Panasonic have a extremely high SEER and SCOP values following LOT21 (seasonal space cooling / heating energy efficiency by COMMISSION REGULATION (EU) 2016/2281).

	Mini ECOi (LE)				2-Pipe				3-Pipe								
	4 HP	5 HP	6 HP	8 HP	10 HP	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP	8 HP	10 HP	12 HP	14 HP	16 HP
SEER	7,9	7,5	7,3	6,3	6,4	7,58	7,09	6,86	7,36	6,55	7,70	7,16	7,15	7,18	6,51	6,81	6,12
SCOP	4,9	4,4	4,2	4,2	4,3	4,85	4,32	4,78	4,33	4,09	4,34	4,13	4,92	4,30	4,32	4,17	3,84

Efficient defrost operation

Panasonic uses the second unit to defrost the first unit. This makes the system more efficient during defrost and does not affect comfort.



Panasonic EC0i operates at as low as -25 °C

This unique feature demonstrate the supremacy of Panasonic ECOi EX Series.

Panasonic use the second unit to defrost the first unit. This makes the system more efficient during defrost and does not affect the comfort.



Outside air temperature (Up to 15 (°C WB))

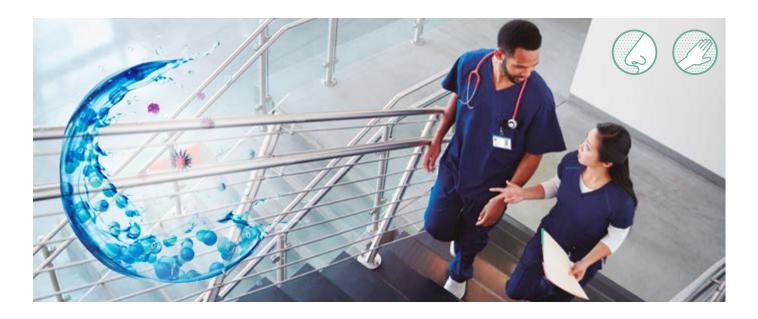
^{*} Data from Panasonic official technical data book.

Bringing nature's balance indoors



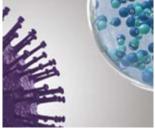
nanoe™ X, technology with the benefits of hydroxyl radicals.

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be, whether at home, work, or visiting hotels, shops and restaurants etc.

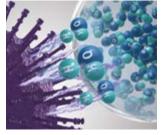


Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent – hydroxyl radicals – indoors to help create an ideal environment

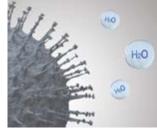
Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



1 | nanoe™ X reliably reaches pollutants.



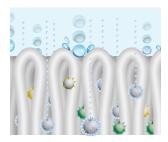
2 | Hydroxyl radicals denature pollutants



3 | Pollutants activity is inhibited.

What is unique about nanoe™ X?

Effective on fabrics and surfaces.



1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

Longer lifespan.



2 | Contained in tiny water particles, nanoe™ X has a longer lifespan to spread easily around the room.

Huge quantity.



3 | nanoe X Generator Mark 2 produces 9,6 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

Maintenance-free.



The image shows nanoe X Generator Mark 2.

4 No maintenance, no replacement required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it is made with Titatium.

7 effects of nanoe™ X - Panasonic unique technology

Deodorises

Capacity to inhibit 5 types of pollutants

















Hazardous substances

Refer to https://aircon.panasonic.eu for more details and validation data.

nanoe™ X, internationally-validated technology in testing facilities

The effectiveness of nanoe™ X technology has been tested by 3rd party laboratories in Germany, France, Denmark, Malaysia and Japan.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

Test results conducted under controlled laboratory conditions. Performance of nanoe™ X might differ in real life environment.

			1			_	
	Tes	ted contents	Result	Capacity	Time	Testing organisation	Report No.
Airborne	Virus	Bacteriophage ФX174	99,7 % inhibited	Approx. 25 m³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
	Bacteria	Staphylococcus aureus	99,9 % inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	2016_0279
		SARS-CoV-2	91,4 % inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
	Virus	SARS-CoV-2	99,9 % inhibited	45 L	2 h	Texcell (France)	1140-01 A1
		Xenotropic murine leukemia virus	99,999 % inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	_
Adhered		Influenza (H1N1 subtype)	99,9 % inhibited	1 m³	2 h	Kitasato Research Center for Environmental Science	21_0084_1
Adh		Bacteriophage ФX174	99,80% inhibited	25 m³	8 h	Japan Food Research Laboratories	13001265005-01
	Bacteria	Staphylococcus aureus	99,9 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Ambrosia pollen	99,4 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Odours	Cigarette smoke odour	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04

First nanoe™ device was developed by Panasonic in 2003

Generator

nanoe™ 2003

Mark 1 - 2016

Mark 2 - 2019

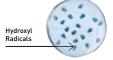
nanoe™ X

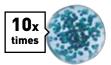
480 billion hydroxyl radicals/sec

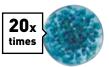
4,8 trillion hydroxyl radicals/sec

9,6 trillion hydroxyl radicals/sec

Ion particle structure







nanoe™ X: improving protection 24/7



Acts to clean your air, so that the indoor environment can be a cleaner and more pleasant place to be all day long. nanoeTM X works together with heating or cooling function when the during the day and can work independently when the area is not occupied.

Give the air conditioning the strength to increase the protection of your indoor spaces with nanoeTM X technology and convenient control via the Panasonic Comfort Cloud App.



Cleans the air when you are away.

Leave the nanoe $^{\text{TM}}$ mode ON to inhibit certain pollutants and deodorise before you return home.

Improves your environment when you are at home.

Enjoy a cleaner, comfortable space with loved ones.

Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment

NEW Built-in nanoe X Generator (TBC).



Y3 Type 4 way 60x60 cassette. S-**MY3E. 6 capacities: 1,5 - 5,6 kW.











G1 Type floor console. S-**MG1E5N. 5 capacities: 2,2 - 5,6 kW.

Panasonic VRF: TOP in comfort

Since 2006, all Panasonic VRF systems have included special VET technology, with variable refrigerant temperature, as standard.

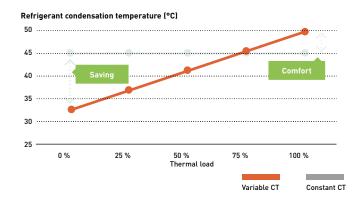


Variable Evaporation and Condensation Temperature

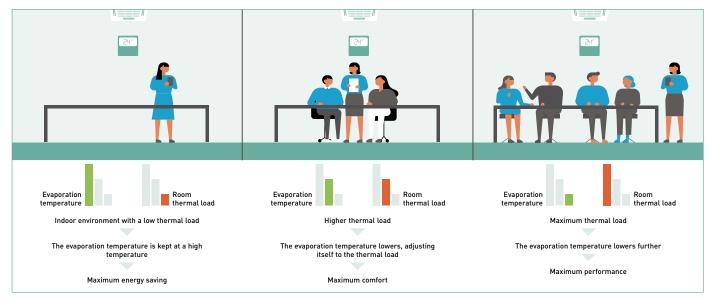
Our 'smart logic' system checks the temperature every 30 seconds, automatically adjusting the refrigerant temperature according to actual demand and outdoor conditions. This ensures better energy performance at all times.

Temperature varies from 16 °C to 3 °C.

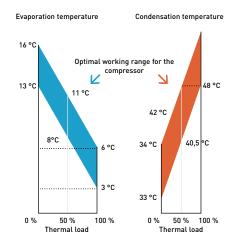
Similarly, the condensation temperature is also variable and is adjusted to the room thermal load, within a range of 33 - 55 °C.



Example of cooling mode (similarly applicable to heating mode).



Technical focus on variable temperatures

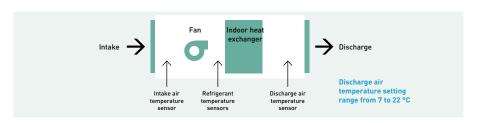


Control of the discharge temperature

This special function is available in all of Panasonic VRF systems' indoor units to guarantee maximum comfort for the end user.

For example, in cooling mode, if the temperature of the discharged air was below 10 °C, the user may feel discomfort, just as he would do in heating mode if the temperature was far too high.

With the Panasonic control of the discharge air temperature, this can be adjusted within a cooling range of 7 – 22 °C.



Benefits:

- · The air will never be too cold or too warm
- · Available in cooling and in heating
- · Higher comfort
- · Energy saving
- · It prevents the formation of condensation within ducts and vents, improving levels of hygiene

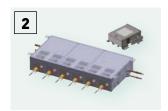
Solutions for Restaurants

Full heating, cooling and DHW solutions for Restaurants.



Gas VRF. ECO G.

ECO G gas VRF is designed for buildings where the electricity is restricted or ${\rm CO_2}$ emissions must be reduced. Sanitary hot water is produced for free, all year round.



3-Pipe control box kit.

Heat Recovery box to connect multiple indoor units with just one box, 4, 6 and up to 8 indoor units or groups

This is good advantage in the restaurants, where space for connecting several boxes is limited.



Aquarea T-CAP.

Ideal for heating, cooling and for production of big quantities of hot water at 65 °C, Aquarea have a extremely quick return on investment and a low CO₂ footprint.



Electric VRF. ECOi EX and Mini ECOi.

ECOi electrical VRF is specifically designed for the most demanding hotels. High efficiency system. Extended operating range to provide heating at outdoor temperature as low as -25 °C (2-Pipe ECOi EX). Suitable for refurbishment projects.



Water heat exchanger for ECOi. Water at 55 °C.

Producing MT hot water, compatible with both ECOi, heat pump and heat recovery outdoors.



Air handling unit kits for efficient ventilation.

The AHU kit is specially designed to improve the efficiency of the pre-heating or pre-cooling process of the ventilation.



Adaptive ducted with nanoe $^{\text{TM}}$ X.

Super silent units deliver the ideal air supply. Units available from 1,5 kW providing precise temperature control even in small rooms. 2 installation possibilities (horizontal / vertical) with high ESP 150 Pa allows for flexible installation. nanoe TM X is built-in as standard.



Mini Cassette.

The Y3 type 4 way 60x60 cassette unit has modern and stylish panel design which matches with any type of the building design.



Control your way.

Wide variety of controls, from simple user control to full system control via remote access functionality. Touch panel and consumption control.



Air curtain with DX coil.

The Panasonic range of air curtains is designed for smooth operation and efficient performance.



Protocol friendly.

Great flexibility for integration into your KNX / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters. Range of solutions to control locally or remotely the full system in bi-directional mode.



Panasonic AC Smart Cloud / Service Cloud.

Taking your business under control. New service function makes maintenance works simpler.



Condensing unit with natural refrigerant.

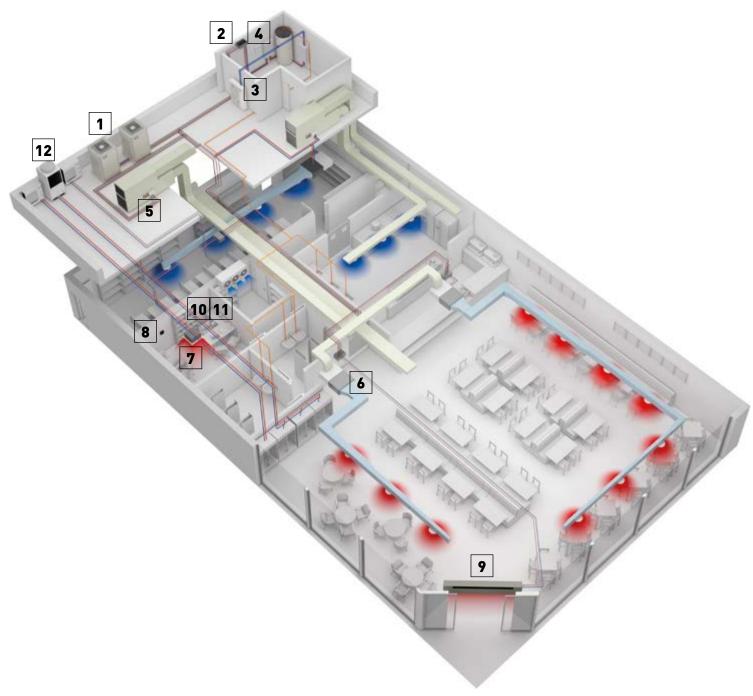
Panasonic CO₂ unit is the natural choice for showcases and cold rooms in restaurants. Always fresh foods from a future-poof refrigeration technology, without any contamination risk.

Highly efficient at part load conditions

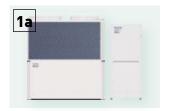
Panasonic has solutions for optimising the installation of cooling, heating and DHW production in restaurants. While the kitchen needs cooling, heating is needed for DHW and also for heating the public area, with the advantage of 100 % fresh air that removes odours. Combining all these needs smartly with Panasonic technology results in a simple and flexible system adaptable to any restaurant requests, with lower utility bills. Additionally, Panasonic is the unique offering solution for areas where electric power is limited, using ECO G, VRF units powered mainly by Natural Gas or Propane, bringing comfort and DHW anywhere.



For chiller options, please check chiller section.

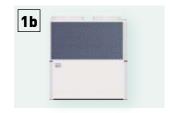


Your entire hotel with superior comfort, control and savings too



Hybrid system.

Gas + Electricity Hybrid system. Taking advantage of Gas and Electricity to achieve the most efficient performance and maximum energy savings.



Gas VRF. ECO G.

ECO G gas VRF is designed for buildings where the electricity is restricted or CO_2 emissions must be reduced. Sanitary hot water is produced for free, all year round.



Hydronic units.

For obtaining hot and cold water for heating and refrigeration (Aquarea Air radiators, underfloor heating, radiators...)



YKEA unit for server room.

Steady cooling, nonstop, even at -20 °C and still with high efficiency. Ready for continuous operation and easy to connect 2 systems to automatically alternate and ensure server rooms are kept cool.



Air handling unit kits for efficient ventilation.

The AHU kit is specially designed to improve the efficiency of the pre-heating or pre-cooling process of the ventilation.



PRO-HT Tank DHW.

DHW tank with maximum outlet temperature 65 °C. Ideal solution for high demand of hot water such as shower, spa, swimming pool.



Electric VRF. ECOi EX.

ECOi electrical VRF is specifically designed for the most demanding hotels. High efficiency system. Extended operating range to provide heating at outdoor temperature as low as -25 °C (2-Pipe ECOi EX). Suitable for refurbishment projects.



Control your way.

Wide variety of controls, from simple user control to full system control via remote access functionality. Touch panel, web server, consumption control, smartphone control... everything is possible.



Wide range of indoor units.

All units provided with supply air temperature sensor and low operation sound level to guarantee maximum guests comfort. Some units with nanoe™ X equipped (available in specific models) provide better air quality in public spaces in the hotel.



Panasonic AC Smart Cloud / Service Cloud.

Taking your business under control. New service function makes maintenance works simpler.



Protocol friendly.

Great flexibility for integration into your KNX / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters.



Air curtain with DX coil.

The Panasonic range of air curtains is designed for smooth operation and efficient performance.



Condensing unit with natural refrigerant.

Panasonic CO₂ unit is the natural choice for an energy saving and environmentally friendly solution.



PACi NX Elite Series for cooling rooms.

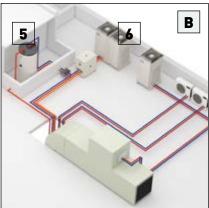
High quality and efficient solution for high temperature refrigeration applications.



Maximum savings on hot water production.

Hot water for swimming pool, spa and laundry for free thanks to the residual heat generated by the ECO G units. Panasonic offers the widest range in HVAC, DHW and ventilation available. That enables us to offer the most suitable solution 24 hours a day, 365 days a year.

Panasonic Solutions ensure not only a higher customer satisfaction but also a lower energy bill.





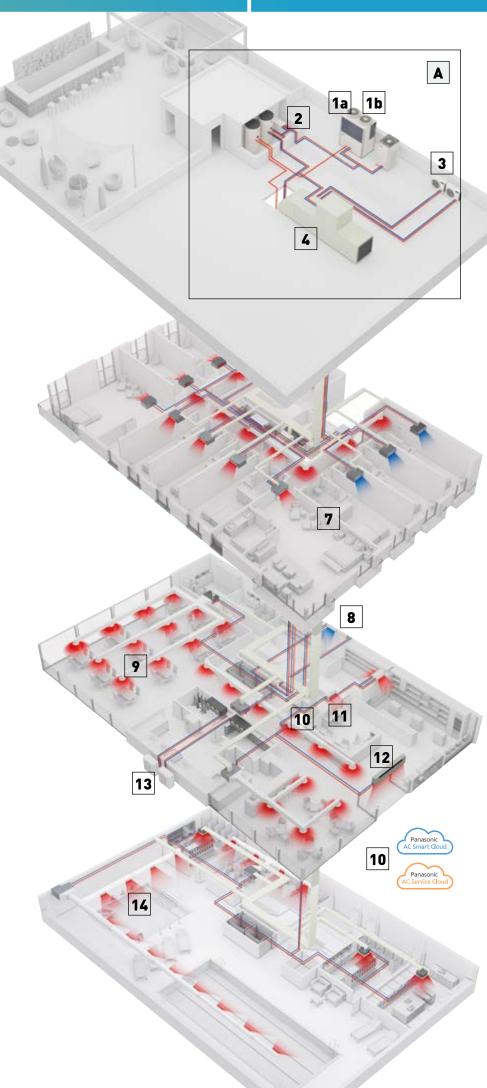
Option A: Hybrid solution. Gas + electric: When large quantities of hot/cold water is needed.

- · ECO G (gas heat pump)
- · Water heat exchanger
- \cdot Aquarea HT to produce hot water up to 65 °C
- \cdot Air handling unit kit to connect the ECO G to the AHU
- · YKEA wall-mounted to cool the server rooms efficiently



Option B: Full Electric solution 2 and 3-Pipe. When flexibility is needed and electricity power availability is not an issue.

- · EC0i (electric VRF)
- · Direct expansion indoor units
- Air handling unit (AHU) kit to connect the ECOi to the AHU
- · YKEA wall-mounted to cool the server rooms efficiently
- · Panasonic Pump Down system



Innovative solutions for retail

Heating and cooling solutions for retail applications

Panasonic has developed solutions for retail and office applications where return on investment is a key factor! The comfort inside the shop is key for a good customer experience.

From local control or Panasonic's new cloud control system, a detailed status of the heating and cooling system can be displayed, analysed and optimised in order to improve the efficiency, reduce the running time and increase the life time of the units.

8 reason why Panasonic is the best solution for your retail:

- · Complete solution
- · Flexibility and adaptation
- · Go green retail: low CO, emissions
- · Comfort high customer satisfaction
- · Future expansion
- Panasonic offers efficient systems meeting expectations over the years
- · High quality of service with Panasonic pro-partner installation team
- The system will still operate up to 25 % of the connected indoor units. System will not stop when up to 25 % of indoor units have power supply breakdown when they are on mode



Multi energy solutions, gas or electric.

The Multi energy solution (Gas and Electric) from Panasonic provides the best choice in energy saving and on the flexibility of the installation. Panasonic solutions can be connect to direct expansion systems, water chiller installations and ventilation systems as air handling units.

1a: Gas VRF. ECO G 1b: Electric VRF. ECOi 1c: Electric VRF. Mini ECOi 1d: Electric 1x1. PACi NX

1e: Electric A2W. Aquarea



YKEA unit for server room.

Steady cooling, nonstop, even at -20 °C and still with high efficiency. Ready for continuous operation and easy to connect 2 systems to automatically alternate and ensure server rooms are kept cool.



Control your way.

Wide variety of controls, from simple user control to full system control via remote access functionality. Touch panel and consumption control.



Econavi Sensor.

The Econavi Sensor detects presence in the room, and quietly adapts the PACi or VRF air conditioning system in order to improve comfort and energy savings.



Wide range of indoor units.

All units provided with supply air temperature sensor and low operation sound level to guarantee maximum guests comfort. Some units with nanoe™ X equipped (available in specific models) provide better air quality in public spaces in the hotel.



Hide-away, for power and efficiency.

Super silent units deliver the ideal air supply. Units available from 1,5 kW providing precise temperature control even in small rooms. Two models available: slim unit for height restricted areas (MM unit only 200 mm deep), another which allows 100 % fresh air (MF).



Air curtain with DX coil.

The Panasonic range of air curtains is designed for smooth operation and efficient performance.



Protocol friendly.

Great flexibility for integration into your KNX / Modbus / LonWorks / BACnet projects allows fully bi-directional monitoring and control of all the functioning parameters. Range of solutions to control locally or remotely the full system in bi-directional mode.



Air handling unit kits for efficient ventilation.

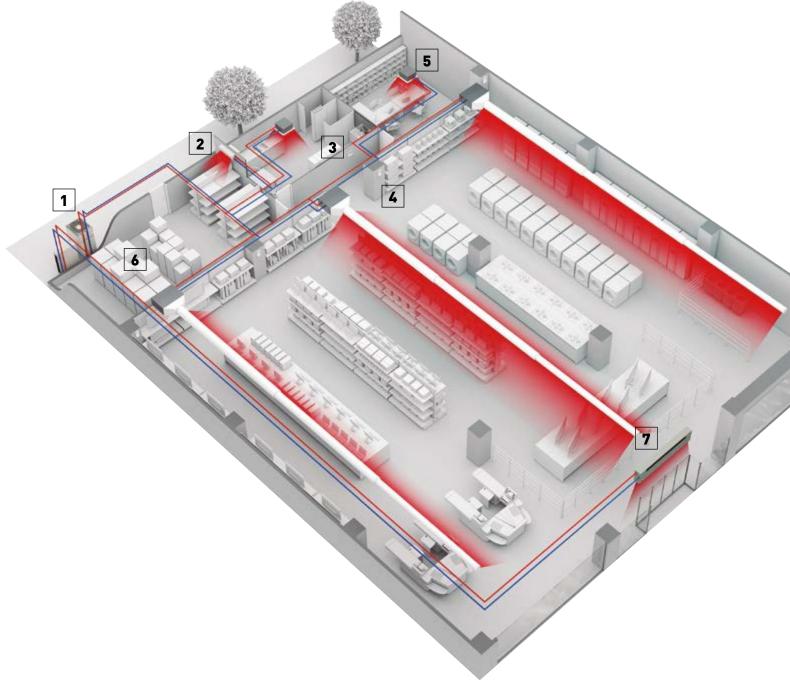
The AHU kit is specially designed to improve the efficiency of the pre-heating or pre-cooling process of the ventilation



Energy Recovery unit for high efficiency of the system.

Panasonic Energy Recovery Ventilators can reduce the outside air load because they efficiently recover the heat lost by ventilation during the heat recovery process.





VRF outdoor units range

							-
Page	Outdoor units	4 HP	5 HP	6 HP	8 HP	10 HP	12 HP
P. 254	Mini ECOi LZ2 Series · R32	U-4LZ2E5 / U-4LZ2E8	U-5LZ2E5 / U-5LZ2E8	U-6LZ2E5 / U-6LZ2E8	U-8LZ2E8	U-10LZ2E8	
P. 260	Mini ECOi LE2 / LE1 Series · R410A		U-5LE2E5 / U-5LE2E8	U-6LE2E5 / U-6LE2E8	U-8LE1E8	U-10LE1E8	
P. 272	2-Pipe ECOi EX ME2 Series · R410A				U-8ME2E8	U-10ME2E8	U-12ME2E8
P. 282	3-Pipe ECOi EX MF3 Series · R410A				U-8MF3E8	U-10MF3E8	U-12MF3E8
P. 294	2-Pipe ECO G GE3 Series · R410A						
P. 298	3-Pipe ECO G GF3 Series · R410A						
P. 300	GHP/EHP Hybrid System · R410A						

14 HP	16 HP	18 HP	20 HP	25 HP	30 HP
	-			-	-
 	-			-	
E	E	F	E		
-					
U-14ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8		
H				-	-
 U-14MF3E8	U-16MF3E8		-		
	=		=	=	=
 	U-16GE3E5		U-20GE3E5	U-25GE3E5	U-30GE3E5
	=		=		
	-		-	=	
	U-16GF3E5		U-20GF3E5	U-25GF3E5	
		-			
					E.
					=
-	-	_			U-20GES3E5 / U-10MES2E8

Best efficiency EC0i Series from Panasonic



The ECOi Series is designed for energy savings, easy installation, and high efficiency. Always continuing to evolve, Panasonic uses advanced technologies to meet the requirements of diverse situations and contribute to the creation of comfortable living spaces.



Mini ECOi LZ2 Series · R32

Mini EC0i LE Series - R410A

The Mini EC0i LZ2 Series utilizes environmentally friendly R32 refrigerant. reducing the total amount of refrigerant by 20 % and more, resulting in lower GWP, reduced by 75 %*

* As a result of applying R32 while at the same time reducing the total refrigerant amount.

The 2-Pipe heat pump small VRF system specifically designed for the European

2-Pipe EC0i EX ME2 Series · R410A

ECO i EX

The VRF system delivering energy-saving performance, powerful operation reliability and comfort surpassing anything previously possible

3-Pipe EC0i EX MF3 Series · R410A





The VRF system that offers high-efficiency and performance for simultaneous heating and cooling

Lower running and life cycle costs.

Panasonic ECOi systems are highly efficient VRF systems on the market, offering COPs in excess of 4,0 at full load conditions. The system is also designed to make sure that we reduce the running cost of each system by using our unique road map control routine to ensure that the efficient combination of compressors are running at any one time. Improved defrost sequencing also reduces running costs by defrosting each outdoor coil in turn when conditions allow.

Up to 64 indoor units can be connected up to a capacity of 200 % indexed indoor unit loads, enabling the system to be used effectively on highly diversified building loads: this

large connectability feature makes it an easy-to-design solution for schools, hotels, hospitals and other large buildings. Up to 1000 m in pipe length enables the VRF ECOi Series to be used in very large buildings, with maximum design flexibility. The ECOi system is also easy to control. It has more than 8 types of control from standard wired remote controls to touch screen panels or web access interfaces.

DC-inverter control technology for rapid and powerful cooling and heating. The ever-evolving Panasonic ECOi Series.

ECOi Series benefits

Ease of installation.

R410A has a higher operating pressure with a lower pressure loss than previous refrigerants. This enables smaller pipe sizes to be used and allows reduced refrigerant charges.

Simple to design.

Panasonic recognise that designing, selecting and preparing a professional VRF quotation can be a time consuming and costly process, especially as it is often also a speculative exercise. So we have designed proprietary software which is quick and easy to use and produces a full schematic layout of pipework and controls, as well as a full materials list and performance data.

Easy to control.

A wide variety of control options are available to ensure that the ECOi system provides the user with the degree of control that they desire, from simple room controllers through to state of the art BMS controls.

Simple to commission.

Simple set-up procedure including automatic addressing of connected indoor units. Configuration settings can be made from an outdoor unit or via a remote controller.

Easy to position.

The compact design of the ECOi outdoor units means that sizes 4 HP to 10 HP fit into a standard lift and are easy to handle and position when on site. The small footprint and modular appearance of the units ensure a cohesive appearance to an installation.

Wide selection and connectability.

With 17 indoor model styles available, ECOi systems are the ideal choice for multiple small capacity indoor unit installations, with the ability to connect up to 40 indoor units to systems of 24 HP or greater for 3-Pipe ECOi EX MF3 Series.

Easy to maintain.

Each system allows the use of prognostic and diagnostic controls routines, to manage system operation and identifying faults, all designed to reduce the speed of maintenance calls and unit down time.

Lower running and life cycle costs.

Panasonic ECOi system are also designed to make sure that we reduce the running cost of each system by using our unique road map control routine to ensure that the most efficient combination of compressors are running at any one time. Improved defrost sequencing also reduces running costs by defrosting each outdoor coil in turn when conditions allow.

Mini ECOi LZ2 Series R32

Outstanding efficiency in a compact body and continuous operation even at extreme ambient temperatures.



INDUSTRY 1ST 8 HP AND 10 HP MINI VRF UNITS WITH R32







Low GWP and less refrigerant

The Mini ECOi LZ2 Series utilizes environmentally friendly R32 refrigerant, reducing the total amount of refrigerant by 20 % and more, resulting in lower GWP, reduced by 75 %*.

 $\mbox{*}$ As a result of applying R32 while at the same time reducing the total refrigerant amount.

Outstanding efficiency at the most challenging ambient conditions

Re-engineered for better performance, the LZ2 series produces extraordinary savings with SEER levels up to 8,50 and SCOP levels up to 5,05 (for 4 HP model). The large range of outdoor units from 12 kW to 28 kW can also work at extreme ambient temperatures, down to -20 °C in heating and up to 52 °C in cooling, providing a very wide range of operating ability.

More flexibility for your project

The ECOi LZ2 series provides ease of installation with long piping lengths and small footprints in a lightweight body. A variety of indoor units, supporting Panasonic's optional R32 refrigerant leak detector, increases the flexibility for installers. A wide range of individual and central controllers, the new generation Smart and Service Cloud, as well as apps for end users and installers, provide a fully customizable monitoring and controlling solution.



Minimum environmental impact

Panasonic has designed the LZ2 series in order to minimize the environmental impact of the system. Low GWP refrigerant R32 and highest efficiency levels ensure this through the total operational lifetime.



VRF with outstanding energy-saving performance and superior SEER and SCOP

Mini ECOi LZ2 provides the optimal performance in any climatic condition.

WIDE OPERATING RANGE

-20 °C in heating to 52 °C in cooling

8,50 | 5,05
SEER | SCOP
EXTRAORDINARY
SAVINGS

ECOi LZ2 mini VRF series from 12 to 28 kW

- · Improving protection 24/7. Unique indoors with nanoe™ X, hydroxyl radicals contained in water
- · SEER levels up to 8,50 and SCOP levels up to 5,05 (for 4 HP model)
- · Low GWP and highly reduced refrigerant volume
- · Improved connectivity with CONEX remote controllers and app support, Smart and Service Cloud applications and support for communication protocols for BMS integration
- · Wide range of connectable units allowing wide range of installations with and without refrigerant mitigation
- · Increased indoor / outdoor capacity ratio up to 150 %
- · Quiet mode operation with low capacity drop
- · Same Panasonic DNA with Panasonic compressors and precise temperature control thanks to discharge temperature sensors in the indoor units
- Continuous operation at extreme ambient temperatures: -20 °C (heating) to 52 °C (cooling)
- · Flexible mitigation measures, with Panasonic R32 refrigerant leak detector / alarm to be installed only when required
- · 35 Pa static pressure

For the most challenging spaces

The Mini ECOi LZ2 R32 VRF system is the ideal solution to fit into any application thanks to its compact design and long piping length support.

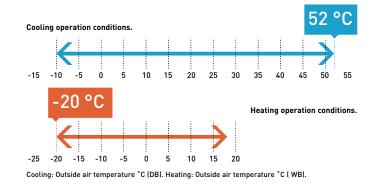


Extended design operation conditions

LZ2 mini VRF is extremely reliable even under the most difficult conditions. The units can operate in cooling mode at extreme temperatures, 52 °C in cooling and -20 °C in heating mode.







Compatible with a large range of indoor units and controls

An expansion of Panasonic VRF line up, the Mini ECOi R32 is compatible with a large range of indoor units and can utilize all Panasonic's scalable control and monitoring solutions.

Wide range of indoor units, either supporting Panasonic's optional R32 refrigerant leak detector alarm or having built-in detectors provide a great flexibility for all types of installation.

Scaling your control options from a single zone to geographically distributed facilities.

LZ2 series are fully compatible with all control and connectivity solutions from Panasonic. With a wide range of individual controllers, hotel room controllers, optional wireless adapters, VRF Smart Connectivity+, easy BMS connection with P-link and Panasonic AC Smart Cloud compatibility. LZ2 series, the most flexible control and monitoring R32 solution in the market.



Panasonic R32 refrigerant leak detector/alarm (optional)

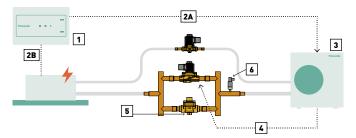
For compatible indoor unit models, Panasonic offers its optional external Panasonic R32 refrigerant leak detector (CZ-CGLSC1). This enables the customer to decide if a Panasonic R32 refrigerant leak detector is required to comply with the restrictions, or if the indoor unit may be safely installed in this room without it. This optional leakage detection sensor has an integrated alarm buzzer and can output a signal to a central alarm system in the building. The device is connected to the remote control terminals of the indoor unit and can be used in combination with any of the Panasonic VRF remote controllers, either wired or wireless.



R32 Pump Down solution

New R32 Pump Down solution which offers the assurance of additional safety protection, whilst expanding the potential installation cases, allowing for installation within smaller rooms.

Suitable for the Mini ECOi LZ2 range up to 10 HP, compatible indoor units connected to CZ-CGLSC1 or integrated Panasonic R32 refrigerant leak detector.



Operation steps: 1 | A leak is detected by the leak detection sensor. 2A | Leak alarm signal is sent to the outdoor unit. 2B | Indoor unit fan activated and runs at maximum speed. 3 | Pump Down procedure is activated. 4 | Solenoid valves are closed preventing refrigerant returning to indoor units. 5 | Outdoor unit is operating in Pump Down mode and check valve only allows flow to the outdoor unit. 6 | Low pressure switch threshold is reached. Error signal isolates the outdoor unit, preventing restart.

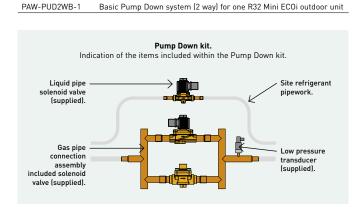
Technical Focus

Model reference

- · Simplified design and installation
- · Complies with IEC 60335-2-40 ed.6.0
- \cdot Recovers base charge within outdoor unit
- · Expands potential installation cases

Description

· IP rated connections for outdoor installation



SHORT HEIGHT 996 mm



Mini EC0i LZ2 Series 4 to 6 HP · R32

Outstanding efficiency in a compact body and continuous operation even at extreme ambient temperatures.

HP			4 HP	5 HP	6 HP	4 HP	5 HP	6 HP
Outdoor unit			U-4LZ2E5	U-5LZ2E5	U-6LZ2E5	U-4LZ2E8	U-5LZ2E8	U-6LZ2E8
	Voltage	٧	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Power supply	Phase		Single phase	Single phase	Single phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	12,1	14,0	15,5	12,1	14,0	15,5
EER 1)		W/W	4,53	4,12	3,88	4,53	4,12	3,88
Recommended con	nbination		2 x S-60MU2E5B	4 x S-36MU2E5B	2 x S-36MU2E5B + 2 x S-45MU2E5B	2 x S-60MU2E5B	4 x S-36MU2E5B	2 x S-36MU2E5B 2 x S-45MU2E5E
SEER 2)			8,50	8,12	7,71	8,50	8,12	7,71
$\eta_{s,c}$		%	337,0	321,8	305,4	337,0	321,8	305,4
Current		Α	13,30 - 12,80 - 12,20	16,90 - 16,20 - 15,50	19,60 - 18,70 - 18,00	4,37 - 4,15 - 4,00	5,50 - 5,23 - 5,04	6,44 - 6,12 - 5,89
Input power		kW	2,67	3,40	4,00	2,67	3,40	4,00
Heating capacity		kW	12,5	16,0	16,5	12,5	16,0	16,5
COP 1)	-	W/W	5,27	4,71	4,42	5,27	4,71	4,42
SCOP 2)			5,05	4,61	4,59	5,05	4,61	4,59
$\eta_{s,h}$	-	%	199,0	181,4	180,6	199,0	181,4	180,6
Current		A	12,00 - 11,40 - 11,00	16,90 - 16,20 - 15,50	18,50 - 17,70 - 17,00	3,91 - 3,71 - 3,58	5,50 - 5,22 - 5,03	6,02 - 5,72 - 5,51
Input power		kW	2,37	3,40	3,73	2,37	3,40	3,73
Starting current		Α	1,0	1,0	1,0	1,0	1,0	1,0
Maximum current		A	19,6	23,7	26,5	7,2	9,2	9,9
Maximum input por	wer	kW	3,92 - 4,10 - 4,28	4,76 - 4,98 - 5,19	5,41 - 5,66 - 5,90	4,40 - 4,63 - 4,80	5,69 - 5,99 - 6,22	6,15 - 6,47 - 6,72
Maximum number	of connectable indoor un	its ³⁾	7 (10)	8 (12)	9 (12)	7(10)	8 (12)	9 (12)
External static pres	ssure	Pa	0~35	0~35	0~35	0~35	0~35	0~35
Air flow		m³/min	69	72	74	69	72	74
	Cool	dB(A)	52	53	54	52	53	54
Sound pressure	Cool (Silent 1/2/3/4)	dB(A)	49/47/45/45	50/48/46/45	51/49/47/45	49/47/45/45	50/48/46/45	51/49/47/45
	Heat	dB(A)	54	56	56	54	56	56
Sound power	Cool / Heat	dB(A)	69/72	70/74	72/75	69/72	70/74	72/75
Dimension	HxWxD	mm	996 x 980 x 370	996 x 980 x 370	996×980×370	996 x 980 x 370	996×980×370	996×980×370
Net weight		kg	94	94	94	94	94	94
Dining diamet-	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Maximum piping le	ngth (total)	m	90 (180)	90 (180)	90 (180)	90 (180)	90 (180)	90 (180)
Elevation difference	e (in / out)	m	50(OD above)/ 40(OD below)	50 (OD above) / 40 (OD below)	50 (OD above) / 40 (OD below)	50 (OD above)/ 40 (OD below)	50 (OD above) / 40 (OD below)	50 (OD above) / 40 (OD below)
Refrigerant (R32)		kg	2,7	2,7	2,7	2,7	2,7	2,7
Maximum allowabl capacity ratio ⁴⁾	e indoor / outdoor	%	50~150(130)	50~150(130)	50 ~ 150 (130)	50~150(130)	50~150 (130)	50~150(130)
0	Cool Min ~ Max	°C	-10~52	-10~52	-10~52	-10~52	-10~52	-10~52
Operating range	Hant Min. Mari	00	00 10	00 10	20 10	00 10	00 10	00 10

-20~18 1) EER and COP calculation is based on EN 14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "ŋ" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) The number in parenthesis indicates maximum number of connectable indoor unit in case of 1,5kW indoor units connection. 4) The number in parenthesis indicates maxim indoor / outdoor capacity ratio in case of 1,5 kW indoor units connection.

Minimum environmental impact

Heat Min ~ Max

Panasonic has designed the LZ2 series in order to minimize the environmental impact of the system. Low GWP refrigerant R32 and highest efficiency levels ensure this through the total operational lifetime.

For the most challenging spaces

The Mini ECOi LZ2 R32 VRF system is the ideal solution to fit into any application thanks to its compact design and long piping lengths.

Technical focus

- \cdot SEER levels up to 8,50 and SCOP levels up to 5,05 (for 4 HP model)
- · Continuous operation at extreme ambient temperatures: -20 °C (heating) to 52 °C (cooling)
- · Wide range of connectable units
- · Unique indoors with nanoe™ X, hydroxyl radicals contained in water
- · Allowing wide range of installations with and without mitigation measures
- · Flexible mitigation measures, with Panasonic R32 refrigerant leak detector / alarm to be installed only when required























INDUSTRY 1st 8 HP AND 10 HP MINI VRF UNITS WITH R32

Mini ECOi LZ2 Series 8 and 10 HP · R32

Introducing widest range of R32 Mini VRF.

HP			8 HP	10 HP
Outdoor unit			U-8LZ2E8	U-10LZ2E8
	Voltage	٧	380 - 400-415	380 - 400 - 415
Power supply	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Cooling capacity		kW	22,4	28,0
EER 1)		W/W	3,84	3,47
Recommended combination			4 x S-56MU2E5B	4 x S-73MU2E5B
SEER 2)			7,56	7,08
η _{s,c}		%	293,3	274,7
Current		A	9,73 - 9,25 - 8,91	13,2 - 12,5 - 12,1
Input power		kW	5,83	8,07
Heating capacity		kW	25,0	28,0
COP 1)		W/W	4,30	4,47
SCOP 2)			4,59	4,60
η _{s,h}		%	170,3	178,5
Current		A	9,81 - 9,32 - 8,98	10,5 - 9,93 - 9,57
Input power		kW	5,81	6,26
Starting current		A	1,0	1,0
Maximum current		A	13,7	19,5
Maximum input power		kW	8,21 - 8,64 - 8,96	11,9 - 12,6 - 13,0
Maximum number of connecta	ble indoor units ^{3]}		16	16
External static pressure		Pa	0~35	0~35
Air flow		m³/min	158	167
	Cool	dB(A)	59,0	60,0
Sound pressure	Cool (Silent 1/2/3/4)	dB(A)	56/54/52/50	57/55/53/50
Sound power	Cool	dB(A)	72	74
Dimension	HxWxD	mm	1500 x 980 x 370	1500 x 980 x 370
Net weight		kg	125	126
Dining disposts	Liquid pipe	Inch (mm)	3/8(9,52)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	3/4(19,05)	7/8 (22,22)
Maximum piping length (total)		m	100 (300)	100 (300)
Elevation difference (in / out)		m	50 (OD above) / 40 (OD below)	50(OD above)/40(OD below)
Refrigerant (R32)		kg	4,9	5,1
Maximum allowable indoor / or	utdoor capacity ratio 4]	%	50~150(130)	50~150(130)
0 1:	Cool Min ~ Max	°C	-10~52	-10~52
Operating range	Heat Min ~ Max	°C	-20~18	-20~18

¹⁾ EER and COP calculation is based on EN 14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) The number in parenthesis indicates maximum number of connectable indoor unit in case of 1,5kW indoor units connection. 4) The number in parenthesis indicates maximum allo indoor / outdoor capacity ratio in case of 1,5 kW indoor units connection.

Perfect fit for small to medium size projects

8 and 10 HP LZ2 Mini VRF units bring in the total benefits of a VRF system in a smaller application. You can enjoy advanced individual and central VRF control options including the revolutionary Panasonic AC Smart Cloud and AC Service Cloud.

For the most difficult conditions

The Mini ECOi LZ2 series are able to operate at the hardest conditions from -20 °C up to +52 °C providing continuous and efficient, heating and cooling for your space all year long.

Technical focus

- · SEER levels up to 7,56 and SCOP levels up to 4,59 (for 8 HP model)
- · Continuous operation at extreme ambient temperatures: -20 °C (heating) to 52 °C (cooling)
- · Widest range of connectable units in R32 VRF
- · Unique indoors with nanoe™ X, hydroxyl radicals contained in water
- · Allowing wide range of installations with and without refrigerant mitigation
- · Flexible mitigation measures, with Panasonic R32 refrigerant leak detector / alarm to be installed only when required





















Mini ECOi LE Series for light commercial and residential use

Mini ECOi with extraordinary energy-saving performance and high external static pressure (35Pa).

COMPACT DESIGN







7,9 4,9*
SEER SCOP
INDUSTRY LEADING
EFFICIENCY



6,4*
SEER
4,3
SCOP

Advantages of Mini ECOi LE Series used for medium sized buildings.

Efficiency energy control

Upgraded outdoor units deliver high efficiency rating and reduced energy costs.

Space saving
Ideal for commercial locations with limited space such as banks and shops.
Compact units integrate easily and discreetly into building design.

Flexible installation

Reduced installation time thanks to compact units and extra long piping without additional refrigeration charge. High external static pressure 35 Pa and small chassis increase installation options.

Compact design: LE2 Series - 4 / 5 / 6 HP

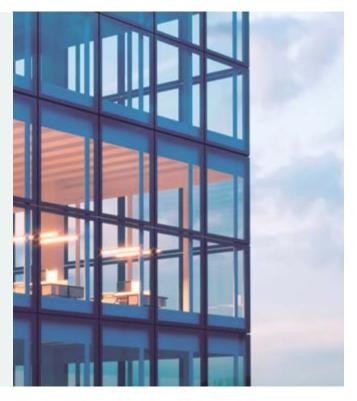
- Extraordinary energy saving: 7,9 SEER and 4,9 SCOP (4 HP)*
- · 50 m piping length without additional refrigerant charge
- · Quiet operation mode with 4 levels
- · High COP mode option
- * SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency " η " values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = $\{\eta + \text{Correction}\} \times \text{PEF}$.

LE1 Series - 8 / 10 HP

- \cdot 60 % smaller than EC0i ME2 8 / 10 HP with vertical flow type
- · Flexible piping length (Total: 300 m, Furthest: 150 m)
- · Maximum number of connectable indoor units: 15

Key features for LE2 / LE1.

- · High external static pressure 35 Pa
- · Full range of ECOi indoor units and controllers
- Variable evaporation temperature control as standard
- Connectable maximum indoor / outdoor capacity ratio up to 130 %
- · Auto restart from outdoor units
- · Demand response (Peak cut) by optional parts
- · Suitable for R22 renewable projects



Flexible, easy and hassle free installation

- · Compact space-saving design
- · High external static pressure 35 Pa
- · Long piping length for flexible installation
- · No refrigeration charge up to 50 m
- · 130 % ratio for connectable indoor capacity units

High external static pressure 35 Pa

- · High air pressure
- · New blade shape
- \cdot Good for high class condominiums

When unit is installed on a narrow balcony and exposed to the sun, the barrier at the front side would restrict hot air from being discharged. Heat accumulated in an enclosure can cause over-heating. This could potentially result in damage or shorten the product's life span. A high external static pressure sends the air further away from the outdoor unit and through the barrier. This provides better air circulation and distribution.

And a high air pressure of 35 Pa discharges the hot air a sufficient distance.

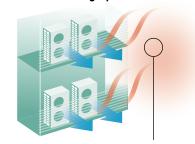
Previous model - low pressure



Heat accumulated.
When the pressure is low, hot air will accumulate in the unit thus affecting its work performance and that of unit above it as well.



LE Series - high pressure



Heat discharged.

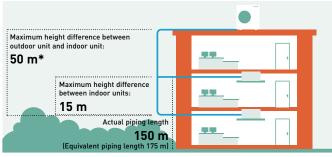
But with a high pressure of 35 Pa, hot air is sent further away preventing overheating inside the outdoor unit enclosure.



Long piping design length for greater design flexibility

LE1: Maximum total piping length: 300 m.

LE2: Maximum total piping length: 180 m.

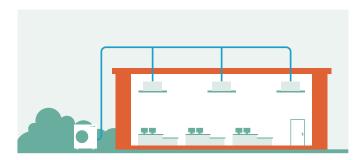


* 40 m if the outdoor unit is below the indoor unit.

Plug and Play concept

- · 50 m piping length free of charge
- · A 50 m pipe length is sufficient for most residential and small business buildings

FREE OF CHARGE 50 m



Connection of up to 15 indoor units

An expansion from Panasonic VRF line up, the mini ECOi is compatible with the same indoor units and controls as the rest of the ECOi range.

Compact design

Mini ECOi LE Series is a single unit.

Perfect for installations with limited space and easy to hide within a modern building. Flexible space-saving options compared to single split system.

LE2 short height of 996 mm.

LE2 Series is 25 % smaller in height than conventional model.



Energy control and reliability

The Mini ECOi system delivering energy-saving performance, powerful operation, reliability and comfort surpassing anything previously possible.



Powerful heat exchanger.

3 layers of heat exchanger for all LE Series. LE Series features the same heat exchange volume as conventional model even though it is 15 % smaller in size.



Panasonic twin rotary compressor.

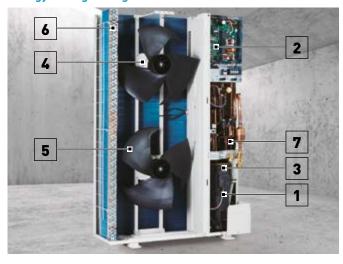
A large capacity inverter compressor has been adopted. This compressor features wider and 0,1 Hz step inverter control.



Design fan.

Fan braves have been redesigned to inhibit air resistance and to increase efficiency. The larger fan increases air flow while maintaining low noise levels.

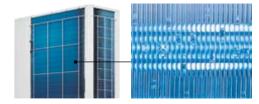
Energy savings design



- Panasonic Inverter compressor. A large-capacity inverter compressor has been adopted. The inverter compressor is superior in performance with improved partial-load capacity.
- 2 | Printed circuit board. The number of PCB is 2 pieces for making maintenance easier.
- 3 | Accumulator. A large accumulator has been adopted to maintain compressor reliability because of the increased refrigerant quantity, which allows an extended maximum piping length.
- 4 | DC fan motor. Checking load and outside temperature, the DC motor is controlled for optimum air flow.
- 5 | Newly designed fan. The newly designed fan blades have been developed to inhibit air turbulence and to increase efficiency. As fan diameter has been increased its size, the air flow has been increased whilst maintaining a same sound level.
- 6 | Heat exchanger and copper tubes. The heat exchanger size and the copper tube sizes in the heat exchanger have been redesigned to increase efficiency.
- 7 | Oil separator. A centrifugal separator has been adopted to improve oil separation efficiency and reduce refrigerant pressure loss.

Bluefin condenser: high durability outdoor unit

The anti-corrosion Bluefin treatment of the heat exchanger provides greater resistance against corrosion. All models are equipped with Bluefin condenser and corrosion-resistance treated for high resistance to rust and salty air to assure long-lasting performance.



Heat exchanger (Bluefin condenser)

Maximum comfort with quiet operation mode

- Quiet operation mode reduces outdoor unit operating sound by 7dB(A)
- · 4-step set point is available
- · Silent mode 1 maintains rated cooling capacity
- * Timer setting of quiet operation mode is available in High-spec remote controller.

Silent mode options	Sound pressure level
Silent mode 1	-1,5dB(A)
Silent mode 2	-3dB(A)
Silent mode 3	-5dB(A)
Silent mode 4	-7dB(A)

SEER / SCOP 8,00 7,9 7,5 7,3 6,00 4,00 2,00 4 HP 5 HP 6 HP 8 HP 10 HP 4 HP 5 HP 6 HP 8 HP 10 HP SEER SCOP

Superior seasonal energy efficiency (SEER / SCOP follows LOT21*)

The operation efficiency has been improved using highly efficient R410A refrigerant, a DC Inverter compressor, DC motor and a heat exchanger design.

* SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency " η " values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = $\{\eta + \text{Correction}\} \times \text{PEF}$.

Mini ECOi LE2 Series high efficiency 4 to 6 HP · R410A

Panasonic Mini ECOi. Extraordinary energy-saving.

The most compact ECOi system ever.



HP			4 HP	5 HP	6 HP	4 HP	5 HP	6 HP
Outdoor unit			U-4LE2E5	U-5LE2E5	U-6LE2E5	U-4LE2E8	U-5LE2E8	U-6LE2E8
	Voltage	٧	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Power supply	Phase		Single phase	Single phase	Single phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	12,1	14,0	15,5	12,1	14,0	15,5
EER 1)		W/W	4,50	4,06	3,73	4,50	4,06	3,73
Recommended com	bination		3 x S-28MF2E5A + 1 x S-36MF2E5A	4 x S-36MF2E5A	2 x S-36MF2E5A + 2 x S-45MF2E5A	3 x S-28MF2E5A + 1 x S-36MF2E5A	4 x S-36MF2E5A	2 x S-36MF2E5A + 2 x S-45MF2E5A
SEER 2)			7,9	7,5	7,3	7,9	7,5	7,3
η _{s.c}		%	311,0	296,2	286,8	311,0	296,2	286,8
Current		Α	13,30 - 12,70 - 12,20	16,30 - 15,60 - 17,00	20,30 - 19,40 - 18,60	4,39 - 4,17 - 4,02	5,58 - 5,30 - 5,11	6,71 - 6,37 - 6,14
Input power		kW	2,69	3,45	4,15	2,69	3,45	4,15
Heating capacity		kW	12,5	16,0	16,5	12,5	16,0	16,5
COP 1)		W/W	5,19	4,60	4,27	5,19	4,60	4,27
SCOP 2)			4,9	4,4	4,2	4,9	4,4	4,2
$\eta_{s,h}$		%	191,8	172,9	166,7	191,8	172,9	166,7
Current		A	12,20 - 11,60 - 11,20	17,60 - 16,80 - 16,10	19,10 - 18,20 - 17,50	3,98-3,78-3,64	5,62 - 5,34 - 5,14	6,24 - 5,93 - 5,71
Input power		kW	2,41	3,48	3,86	2,41	3,48	3,86
Starting current		Α	1,00	1,00	1,00	1,00	1,00	1,00
Maximum current		Α	17,30	24,30	27,40	7,90	10,10	10,70
Maximum input pov	ver	kW	3,50 - 3,66 - 3,82	4,92 - 5,14 - 5,37	5,61 - 5,86 - 6,12	4,34 - 5,09 - 5,28	6,25 - 6,55 - 6,82	6,62 - 6,97 - 7,23
Maximum number o	of connectable indoor un	its ^{3]}	7 (10)	8 (10)	9 (12)	7(10)	8 (10)	9 (12)
External static pres	sure	Pa	0~35	0~35	0~35	0~35	0~35	0~35
Air flow		m³/min	69	72	74	69	72	74
	Cool	dB(A)	52	53	54	52	53	53
Sound pressure	Cool (Silent 1/2/3/4)	dB(A)	50,5/49/47/45	51,5/50/48/46	52,5/51/48/46	50,5/49/49/47	48,5/50/48/46	48,5/50/48/46
	Heat	dB(A)	54	56	56	54	56	56
Sound power	Cool / Heat	dB(A)	69/72	71/75	73/75	69/72	71/75	73/75
Dimension	HxWxD	mm	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370	996 x 980 x 370
Net weight		kg	106	106	106	106	106	106
D: : : :	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Maximum piping ler	ngth (total)	m	150 (180)	150 (180)	150 (180)	150 (180)	150 (180)	150 (180)
Elevation difference	(in / out)	m	50 (OD above) / 40 (OD below)	50 (OD above) / 40 (OD below)	50 (OD above) / 40 (OD below)	50 (OD above) / 40 (OD below)	50 (OD above)/ 40 (OD below)	50 (OD above) / 40 (OD below)
Refrigerant (R410A)	/ CO ₂ Eq.	kg / T	6,70(14,40)/ 13,9896	6,70(14,40)/ 13,9896	6,70(14,40)/ 13,9896	6,70(14,40)/ 13,9896	6,70(14,40)/ 13,9896	6,70 (14,40)/ 13,9896
Maximum allowable capacity ratio	e indoor / outdoor	%	50 ~ 130	50~130	50~130	50~130	50~130	50~130
Openating	Cool Min ~ Max	°C	-10~+46	-10~+46	-10~+46	-10~+46	-10~+46	-10~+46
Operating range	Heat Min ~ Max	°C	-20~+18	-20~+18	-20~+18	-20~+18	-20~+18	-20~+18

1) EER and COP calculation is based in accordance to EN14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "ŋ" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = [ŋ + Correction] × PEF. 3) In case of 1,5 kW indoor units connection, able to connect maximum 12 indoor units.

For light commercial use

Mini ECOi allows easier installation in condominiums and medium sized buildings with limited spaces. Utilising R410A and DC inverter technology, Panasonic offers VRF to a new and growing market.

Reduced height of 996 mm

In addition to raising efficiency, the outdoor unit has been designed to be as compact as possible. It can now be installed in places that were previously too small.

Technical focus

- · Outstanding SEER and SCOP
- \cdot Better efficiency even compared to 2 fan outdoor units
- \cdot 50 m piping without additional refrigeration charge
- · High static pressure 35 Pa
- · High COP mode selectable with maintenance remote controller
- · Selectable silent mode

























Mini ECOi LE1 Series high efficiency 8 and 10 HP · R410A

Prepare to be blown away by Panasonic's Mini VRF system.

The Mini VRF compact system is the ideal solution for minimum outdoor space. Panasonic extends the Mini VRF range by 8 and 10 HP units.

HP			8 HP	10 HP
Outdoor unit			U-8LE1E8	U-10LE1E8
	Voltage	٧	380 - 400 - 415	380 - 400 - 415
Power supply	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Cooling capacity		kW	22,4	28,0
EER 1)		W/W	3,80	3,11
Recommended combination			4 x S-56MF2E5A	4 x S-73MF2E5A
SEER 2)			6,3	6,4
η _{s,c}		%	247,9	251,8
Current		A	9,60 - 9,15 - 8,80	14,70 - 14,00 - 13,50
Input power		kW	5,89	9,00
Heating capacity		kW	25,0	28,0
COP 1)		W/W	4,02	3,93
SCOP 2)			4,2	4,3
$\eta_{s,h}$		%	166,4	169,5
Current		A	10,20 - 9,65 - 9,30	11,60 - 11,10 - 10,70
Input power		kW	6,22	7,13
Starting current		A	1,00	1,00
Maximum current		A	13,70	19,60
Maximum input power		kW	9,16	13,10
Maximum number of connecta	able indoor units ³		15	15
External static pressure		Pa	0~35	0~35
Air flow		m³/min	150	160
	Cool	dB(A)	60	63
Sound pressure	Cool (Silent 1/2/3)	dB(A)	57/55/53	60/58/56
	Heat	dB(A)	64	65
Sound power	Cool / Heat	dB(A)	81/85	84/86
Dimension	HxWxD	mm	1500×980×370	1500 x 980 x 370
Net weight		kg	132	133
Dining disposes	Liquid pipe	Inch (mm)	3/8 (9,52) 4) / 1/2 (12,70) 5)	3/8 (9,52) 4) / 1/2 (12,70) 5)
Piping diameter	Gas pipe	Inch (mm)	3/4(19,05)4)/7/8(22,22)5)	7/8 (22,22) 4] / 1 (25,40) 5]
Maximum piping length (total)		m	7,5~150(7,5~300)	7,5~150(7,5~300)
Elevation difference (in / out)		m	50 (OD above) / 40 (OD below)	50(OD above)/40(OD below)
Refrigerant (R410A) / CO, Eq.		kg / T	6,30(24,00)/13,1544	6,60 (24,00) / 13,7808
Maximum allowable indoor / o	outdoor capacity ratio	%	50~130	50~130
0	Cool Min ~ Max	°C	-10~+46	-10~+46
Operating range	Heat Min ~ Max	°C	-20~+18	-20~+18

1) EER and COP calculation is based in accordance to EN14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "ŋ" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (ŋ + Correction) × PEF. 3) If the heating utilized, it is necessary to increase 1 size with respect to the main liquid pipe, depending on the combination of the indoor unit. 4) Under 90 m for ultimate indoor unit. 5) Over 90 m for ultimate indoor unit. If the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas and liquid pipes.

Increase external static pressure

When unit is installed on a narrow balcony, the fence at front side will be the obstacle. High external static pressure will overcome this obstacle and maintain operation capacity.

High ambient temperature performance

Cooling operating range up to 46 °C. The system can maintain the rated (100 %) capacity up to 40 °C by 8 HP model and up to 37 °C by 10 HP model.

Technical focus

- · Piping flexibility with 150 m maximum length
- · High efficiency
- · Connection of up to 15 indoor units
- · Quiet operation mode (one of the lowest in the market)
- · High ambient temp performance
- · High static pressure 35 Pa





















ECOi EX. The Game Changer

ECO i EX

VRF with outstanding energy-saving performance and powerful operation SEER 7,70 (2-Pipe 18 HP model).



A game-changing VRF system delivering energy-saving performance, powerful operation, reliability and comfort surpassing anything previously possible.

It represents a true paradigm shift in air conditioning solutions. Taking quality to the extreme — that's the Panasonic challenge.

High performance at extreme conditions

ECOi EX is highly reliable, with strong cooling and heating power, even when operating at extreme ambient temperatures. The units can operate at 100 % of capacity at 43 °C, reaching a great cooling operation up to 52 °C and in heating to -25 °C*.

Also, the ECOi EX features include Bluefin in newly designed heat exchanger, improving efficiency in marine ambient. A silicone coated PCB (Printed Circuit Board) protects the unit from being damaged by environmental factors such as moisture and dust.

Outstanding efficiency and comfort

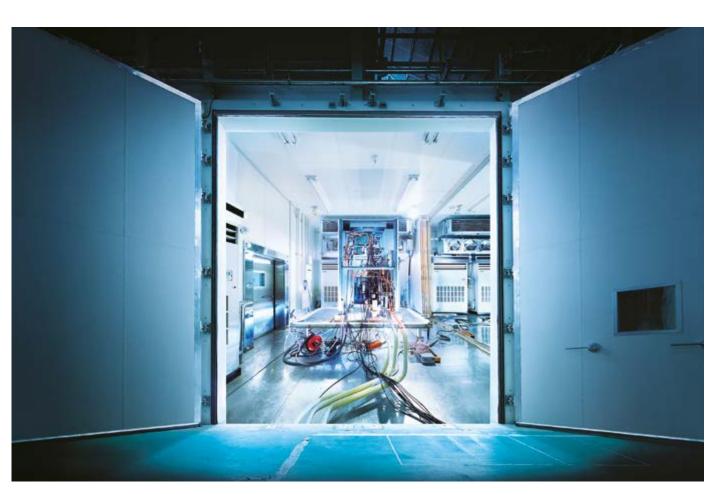
The ECOi EX system is designed to increase energy efficiency by delivering high SEER rating, as well as high efficiency for part-load operation.

The system has reduced energy costs thanks to "All-Inverter Compressors" with independent control, to deliver highly flexible performance. Also, the ECOi EX features an enlarged heat exchanger with triple surfaces that allow for improved heat transfer and a newly designed curved air discharge bell-mouth, for better aerodynamics. The three-stage oil recovery design makes it able to minimise the frequency of forced oil recovery, leading to reduced energy costs and sustained comfort.

Superior flexibility

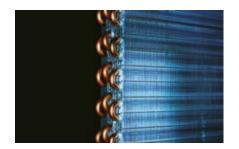
With up to 1000* meters of pipeline, 30 meters maximum height difference between indoor units and maximum 90 meters between outdoor unit and indoor unit, the design possibilities have grown exponentially, making the ECOi EX the ideal air conditioning option for expansive buildings, such as train stations, airports, schools or hospitals. These advantages are enhanced with the wide range of indoor unit models and capacities, facilitating the perfect adaptation to all kind of projects. The careful selection of controls and peripherals such as the Pump Down, the AHU and / or the chiller, enables an optimised system selection. Maximum allowable indoor / outdoor connected capacity ratio of up to 200 %.

* Conditions of 2-Pipe EC0i EX ME2 Series.



TOP efficiency and comfort

Remarkable improvement on key components: extraordinary energy-saving performance and redesigned for smooth and better air discharge.



Enlarged heat exchanger surface area with triple surface.

 $[\]ensuremath{^{*}}$ For 8 and 10 HP unit, the heat exchanger is 2 row design.



Multiple large-capacity all inverter compressors (from 14 HP).



Designed curved air discharge bell mouth for better aerodynamics.

Improvements on refrigerant circuit

Compressor.

Redesigned components in the body provide performance improvement especially in the rated cooling condition and AEER performance.



Accumulator.

Oil returning circuit with control valve makes efficient oil recovery to compressor.

Oil separator.

Modified tank design makes efficient oil separation with less pressure drop.



Receiver tank less design

Improved refrigerant control program recovers the remaining refrigerant gas in the system back to the accumulator tank effectively.



Smooth exhaust flow by bell-mouth

The curved shape with integrated top and bottom assure smooth exhaust flow.

This gives more air-volume with same sound level, less input power at same air flow.



ME2 model

Conventional model (ME1)

Sound pressure dB(A)

64

62

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Combined 3 surface heat exchanger

The highly efficient piping pattern increases heat exchange performance by 5 %.

The heat exchanger features a 3 surface construction.

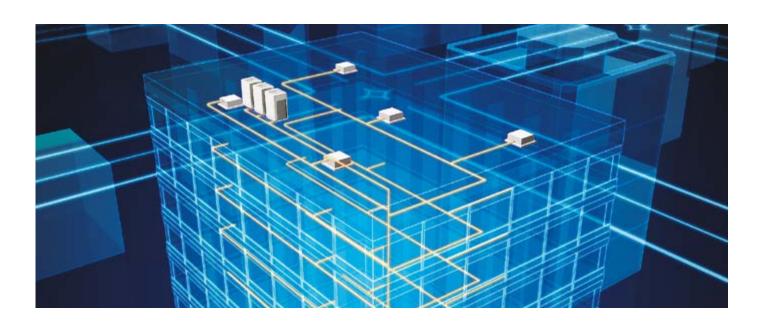
Compared to the divided dualsurface construction in current models, there is no divided space and the face area of heat exchanger becomes larger.



Oil recovery intelligent control

Oil recovery intelligent control advantages:

- 1. Higher efficiency
- 2. Durability
- 3. Comfort: continuous operation, low noise and low vibration



Intelligent 3-stage oil management system

In a VRF system, where lengthy piping and a large number of indoor units need to be controlled collectively, the key to maintaining the system's reliability is to ensure an appropriate amount of oil is secured in the compressors. In order to avoid oil shortage in the compressor, maximum operation is normally forcibly conducted at regular intervals to recover oil from indoor units. This method, typically employed in a standard VRF, causes the system to overheat or overcool and thus waste energy. In Panasonic VRF systems, a sensor for detecting oil levels is mounted in each compressor. In installations with multiple outdoor units, a shortage of oil in one compressor can be compensated for by recovering oil either from another compressor in the same unit, from a compressor in an adjacent outdoor unit, or from a connected indoor unit. Panasonic VRF systems provide users with a comfortable environment whilst saving energy.

The Panasonic system efficiently manages oil recovery in three stages; minimising the frequency of forced oil recovery while reducing energy cost and maintaining comfort.

STAGE-1: Panasonic compressors are equipped with sensors which monitor oil levels precisely at all times. If oil levels fall, oil can be transferred from other compressors within the same outdoor unit.

STAGE-2: If oil levels in all compressors within the outdoor unit fall, oil can be replenished from adjacent outdoor units.

STAGE-3: Forced oil recovery is implemented only if oil levels become insufficient in spite of above measures. The Panasonic system's design concept is radically different from conventional oil systems.

Features of oil recovery design

Oil sensors installed in each compressor.

Oil sensors installed in each Panasonic compressor precisely monitor oil levels, eliminating unnecessary oil recovery.



Highly functional oil separator.

Thanks to extended separate piping, oil recovery efficiency reaches 90 %, minimising the oil to be discharged from the compressor.



Twin rotary Inverter compressor

Two independently controlled inverter compressors achieve high efficiency. Redesigned components in the body provide performance improvement especially in the rated cooling condition and EER performance.

- · Wider and flexible control on Inverter compressor
- · Better oil lubrication
- · Smooth start up

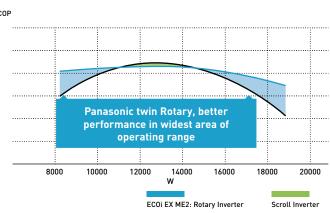
Extraordinary energy-saving performance

Designed for Actual Operation Performance. Panasonic builds air conditioning systems not only with a high EER for rated operation, but also with Seasonal-EER appropriate to the customer's actual environment of use. For instance, with rated operation, outdoor temperature is constant at 35 °C, but in reality the outdoor temperature is continuously changing. Consequently, required air conditioning performance also changes. That's why Panasonic implements the following kind of proprietary control.

- 1 | Set temperature is rapidly attained; full-load operating time is kept to a minimum.
- 2 | The frequency of forced oil recovery is minimised. The volume of oil within the compressors is monitored precisely by sensors, so forced oil recovery under full-load operation is conducted only when necessary. Since this suppresses noise due to oil recovery, comfort is maintained.
- 3 | Panasonic pursues a high EER, of course, as well as high EER in part load, for energy saving performance under a broad range of loads.

Panasonic's design concept contributes to substantial energy cost reductions.

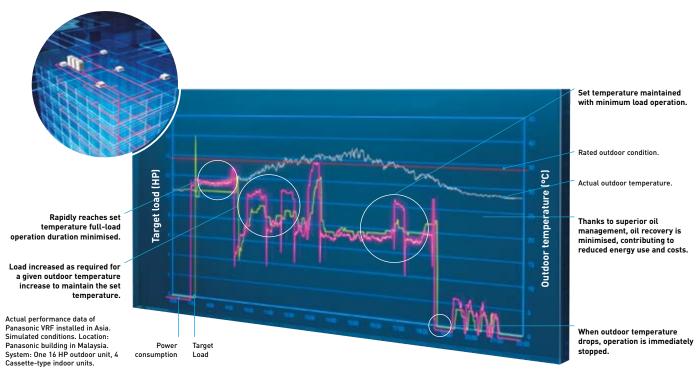
Compressor efficiency electric system VRF.



Number of Inverter compressors.

	2-Pipe EC0i EX ME2										3-Pipe ECOi EX MF3								
Size	Sn	nall	Ме	La	rge	Medium													
HP	8	10	12	14	16	18	20	8	10	12	14	16							
Number	1 pc.		1 pc.	2 p	cs.	2 p	cs.	1 pc. 2 pcs.											

Actual operation data graph of Panasonic VRF

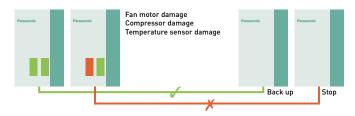


Superior quality, reliability and durability

High safety operation in case of breakdown!

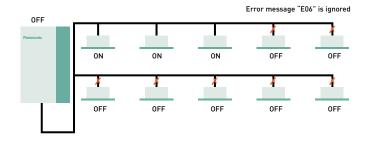
Automatic Back-Up operation. Ensures heating and cooling.

It is possible for the system to keep working, even if the compressors, fan motor and the temperature sensor are damaged (even when a compressor fails in single unit with 2 compressors inside).



The system will still operate up to 25 % of the connected indoor units.

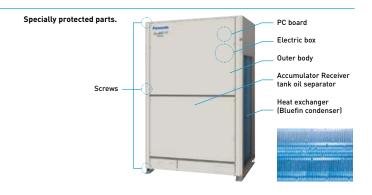
System will not stop when up to 25 % of indoor units have power supply breakdown when they are ON Mode.



Hi-durability outdoor unit

Treated for high resistance to corrosion (rust and salty air) to ensure long-lasting performance.

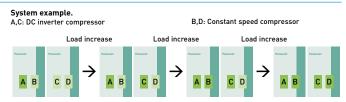
Note: Selecting this unit does not completely eliminate the possibility of rust developing. For details concerning unit installation and maintenance, please consult an authorised dealer.



Extended compressor life by uniform compressor operation time

The total run-time of compressors are monitored by a built-in microcomputer, which ensures that operation times of all compressors within the same refrigerant circuit are balanced.

Compressors with histories showing shorter run times are selected first, ensuring equal wear and tear across all units and extending the working life of the system.



50 h 30 h 60 h 10 h

- * Depend on accumulated operation time of each compressors.
- Compressor priority has possibility to be changed.
- [e.g] Case 1: $A \rightarrow C \rightarrow B \rightarrow D$, Case 2: $C \rightarrow A \rightarrow D \rightarrow B$, Case 3: $A \rightarrow C \rightarrow D \rightarrow B$, Case 4: $C \rightarrow A \rightarrow B \rightarrow D$

* Also other cases available



2-Pipe EC0i EX ME2 Series Extraordinary partial load, SEER and SCOP

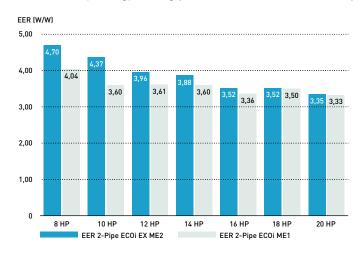
Efficiency in VRF systems

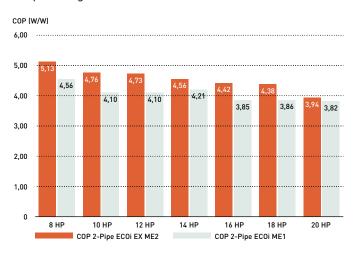
The only way to compare so far, was the nominal efficiency at outdoor ambient temperature of 35 °C (EER) in Cooling and at 7 °C in heating (COP). With EN-14825 seasonal efficiency will be shown, the result will be SEER and SCOP. ECOi EX is reaching excellent performance without using any additional saving functions.

The highest EER / COP rating in most capacities

Compared to conventional model ECOi (ME1)

The ECOi EX marks a revolutionary step forward in VRF efficiency. A look at the incredible EER / COP value clearly indicates that. What's more, this high EER / COP value is achieved even during part load operation. This shows the extraordinary energy-saving performance the ECOi EX is capable of providing.



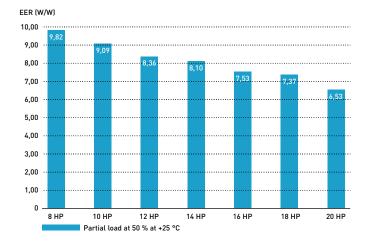


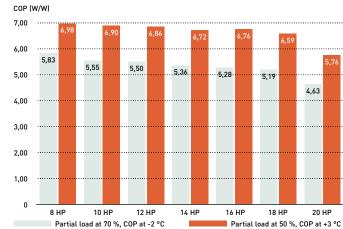
Partial load for seasonal and real system efficiency

VRF units are designed to adapt to the heating and cooling demand, adapting its performance to different outdoor conditions. When compressor runs at lower than 100 % capacity, the system is working at partial load. A wider compressor operating range results in better system performance both at full load and partial load conditions. Panasonic ECOi EX partial load is excellent, reaching a minimum of 15 % of compressor capacity.

Excellent efficiency at any condition and partial load

In both heating and cooling mode, Panasonic ECOi EX is reaching exceptional levels of efficiency.



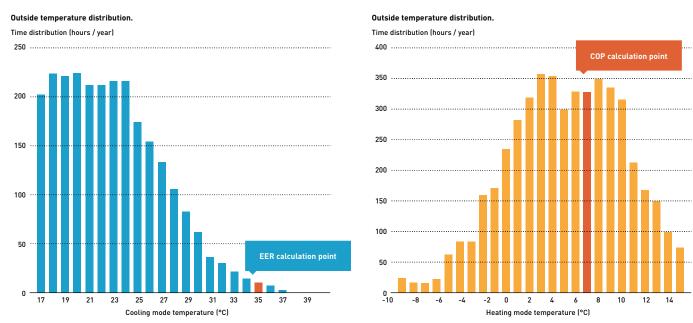




SEER and SCOP following EN-14825

When better partial load, better efficiency is achieved in real operation. The EN-14825 is showing the way to calculate considering full year operation hours at different conditions. Panasonic ECOi EX is designed to save energy in any partial load conditions. Most of operation hours system is under partial load conditions, 80 % of total operation hours is less than 70 % of full load.

In below graphs is the example for average ambient conditions, this uses Strasbourg ambient conditions for calculation.



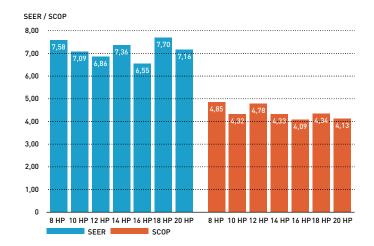
In the characteristics EER and COP only a single temperature for the assessment of the efficiency is taken as a basis in each case. Data calculated under EN-14825 conditions, not additional saving function considered for this calculation.

Compressor frequency according to ambient temperature and building design.

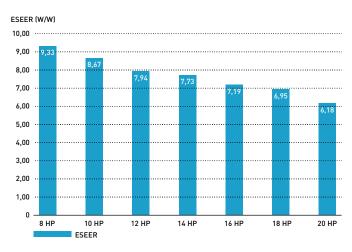
SEER and SCOP values

ECOi EX models have superior seasonal space cooling / heating efficiency following not only EN 14825 but also COMMISSION REGULATION (EU) 2016/2281. This regulation requires to use " η " values in the technical documents from January 2018.

Please visit our websites www.aircon.panasonic.eu or www.ptc.panasonic.eu.

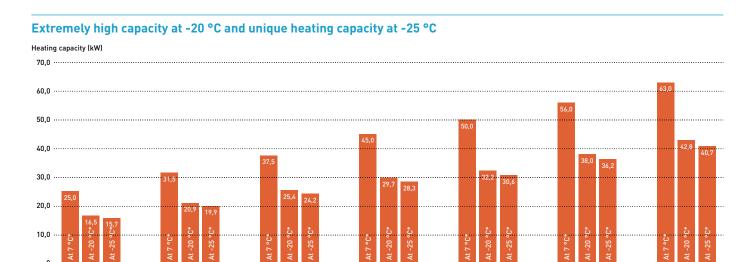


However, if it was necessary by setting on commissioning Panasonic, can increase efficiency additionally by "20 %" increasing evaporation refrigerant temperature range, for a higher efficiency and lower energy consumption.



2-Pipe EC0i EX ME2 Series high performance at extreme conditions

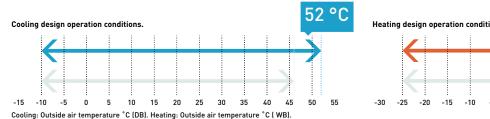
The ECOi EX can still operate at 100 % capacity when the outside temperature is as high as 43 °C. This high power capability enables reliable operation even under extremely high temperature conditions.

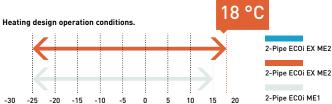


* Outdoor air temperature (°C WB).

Trusted reliability even under high and low temperature conditions

Designed to be durable enough to withstand extreme heat, 2-Pipe ECOi EX ME2 Series ensures reliable cooling operation over an extended operating range up to 52 °C, and heating operation also at minus -25 °C.





16 HP



R410A

2-Pipe EC0i EX ME2 Series superior flexibility

Connectable maximum allowable indoor / outdoor capacity ratio up to 200 %*

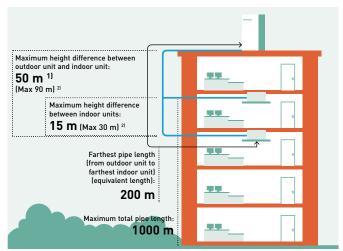
ECOi EX attain maximum indoor unit connection capacity of up to 130 % of the unit's connection range. This limit can be overpassed and reach up to 200 % if some conditions are satisfied. With this feature, ECOi EX provides an ideal air conditioning solution for locations where full cooling / heating are not always required in all spaces at same time.

System (HP)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46 4	48	50 5	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	
Connectable indoor units: 130 %	1	1		1	1	1				1	1 1	50	53	56	59											6	4											
Connectable indoor units: 200 %	20	25	30	35	40	45	50	55	60														64	4														

Note: If more than 100 % indoor units are operated with a high load, the units may not perform at the rated capacity. For the details, please consult with an authorised Panasonic dealer. * If the following conditions are satisfied, the effective range is above 130 % up to 200 %. Obey the limited number of connectable indoor units. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). Simultaneous operation is limited to less than 130 % of connectable indoor units. 1,5 kW capacity of Indoor Units are included.

Increased piping lengths and design flexibility

Adaptable to various building types and sizes. Actual piping length: 200 m. Maximum piping length: 1000 m.

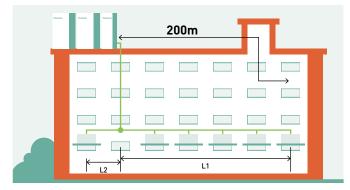


- 1) 40 m if the outdoor unit is below the indoor unit
- 2) For height differences between outdoor unit and indoor unit > 50 m, as well as for height differences between indoor units > 15 m, contact an authorized Panasonic dealer

Up to 50 m length difference between the longest and the shortest piping from the first branch

Flexible piping layout makes it easier to design systems for locations such as train stations, airports, schools and hospitals.

- · Up to 64 units can be connected to one system · Difference between maximum and minimum pipe runs after first branch can be a maximum of

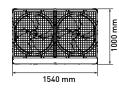


L1 = Longest pipe run. L2 = Shortest pipe run. L1 - L2 = Maximum 50 m.

Compact design

The ME2 Series has reduced the installation space required with up to 20 HP available in a single chassis. 8 - 10 HP are able to fit inside a lift for easy handling on site.





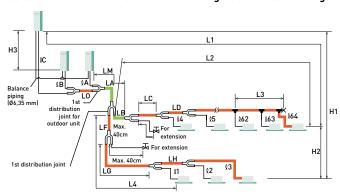






2-Pipe EC0i EX ME2 Series piping design

Select installation locations so that the lengths and sizes of refrigerant piping are within the allowable ranges shown in the figure below.



Main piping length (maximum piping size)

Main distribution tubes LC - LH are selected according to the capacity after the distribution joint.

Distribution joint (CZ: T-joint (field supply). optional parts).

The outdoor connection main piping (LO portion) is determined by the total capacity of the outdoor units that are connected to the tube

Note: Be sure to use special R410A distribution joints (CZ: optional parts) for outdoor unit connections and piping branches.

Sizes of indoor unit connection piping £1 - £64 are determined by the connection piping sizes on the indoor units.

 \bowtie

Ball valve (field Solidly welded shut supply). (pinch weld).

R410A distribution joint.

CZ-P680PH2BM (for outdoor unit) CZ-P1350PH2BM (for outdoor unit)

CZ-P224BK2BM (for indoor unit) C7-P680BK2BM (for indoor unit) CZ-P1350BK2BM (for indoor unit)

Ranges that apply to refrigerant piping lengths and to differences in installation heights

Items	Mark	Contents		Length (m)				
	. 1	Marian and a state of the state	Actual length	≤2001]				
	L1	Maximum piping length	Equivalent length	≤2101				
	Δ L (L2-L4)	Difference between maximum length and mini	mum length from the 1st distribution joint	≤50²]				
Allowable piping length	LM	Maximum length of main piping (at maximum maximum piping length.	size) * Even after 1st distribution joint, LM is allowed if at	_3]				
	Q1, Q2~ Q64	Maximum length of each distribution tube		≤504]				
towable piping length	L1+ 11+ 12~ 163+ 1A+1B+LF+LG+LH	Total maximum piping length including length of each distribution tube (only liquid piping)						
	la, lb+lo, lc+lo	Maximum piping length from outdoor's 1st distribution joint to each outdoor unit						
	H1	When outdoor unit is installed higher than ind	por unit	≤50				
Allowable elevation difference	П'	When outdoor unit is installed lower than indo	or unit	≤40				
allowable elevation difference	H2	Maximum difference between indoor units		≤15				
	Н3	Maximum difference between outdoor units						
Allowable length of joint piping	L3	T-joint piping (field-supply); Maximum piping l point	ength between the first T-joint and solidly welded-shut end	≤2				

L = Lenath, H = Height

1) If the longest piping length (L1) exceeds 90 m (equivalent length), increase the sizes of the main tubes (LM) by 1 rank for gas tubes and liquid tubes. Use a field supply reducer. Select the tube size from the 1) If the longest piping length (L1) exceeds 90 m (equivalent length), increase the sizes of the main tubes (LM) by 1 rank for gas tubes and liquid tubes. Use a field supply reducer. Select the tube size from the table of refrigerant piping sizes (Table 3) and from the table of refrigerant piping sizes (Table 3) and from the table of refrigerant piping sizes (Table 3) and from the stable of refrigerant piping sizes (Table 3) and from the stable of refrigerant piping sizes (Table 3) and from the stable of refrigerant piping sizes (Table 3) and from the stable of refrigerant piping sizes (Table 3) and from the stable of refrigerant piping sizes (Table 3) and from the stable of refrigerant piping sizes (Table 3) and from the stable of refrigerant piping length (LM) exceeds 50 m, increase the main piping size at the portion before 50 m by 1 rank for the gas tubes. Use a field supply reducer. Determine the length less than the limitation of allowable maximum piping length. For the portion that exceeds 50 m, set based on the main piping size (LA) listed in Table 3. 4) If any of the piping length exceeds 30 m, increase the size of the liquid and gas tubes by 1 rank. 5) If the total distribution piping length exceeds 50 m, set based on the main piping size (LA) listed in Table 3. 4) If any of the piping length exceeds 30 m, increase the size of the liquid and size of the liquid and size of the liquid and size of the size of the following formula. Make sure the indoor units size of the existing piping is already larger than the standard piping size, it is not necessary to further increase the size. ** If the existing piping is used, and the amount of on-site refrigerant charge exceeds the value listed below, then change the size of the piping to reduce the amount of refrigerant. Total amount of refrigerant for the system with 3 outdoor units: 80kg. Total amount of refrigerant for the system with 3 outdoor units: 80kg. Total amount of refrigerant for the system with 3 outdoors units: 80kg. Total amount of refrigerant for

system with 3 outdoor units or 4 outdoor units: 105 kg

Necessary amount of additional refrigerant charge per outdoor unit.

U-8ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8
5,5 kg	5,5 kg	7,0 kg	7,0 kg	7,0 kg

System limitations.

Maximum number allowable connected outdoor units	4 1)
Maximum capacity allowable connected outdoor units	224 kW (80 HP)
Maximum connectable indoor units	64 ²⁾
Maximum allowable indoor / outdoor capacity ratio	50-130 % ³⁾

Additional refrigerant charge.

Liquid piping size	1/4	3/8	1/2	5/8	3/4	7/8	1
(Inch (mm))	(6,35)	(9,52)	(12,70)	(15,88)	(19,05)	(22,22)	(25,40)
Amount of refrigerant charge (g/m)	26	56	128	185	259	366	490

- 2) In the case of 38 HP or smaller units, the number is limited by the total capacity of the connected indoor units. 3) If the following conditions are satisfied, the effective range is above 130 % and below 200 %.
- A) Obey the limited number of connectable indoor units. B) The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C) Simultaneous operation is limited to less than 130 % of connectable indoor units.

Refrigerant piping (existing piping can be used).

Piping size	iping size (mm)																
Material T	emper - 0					Material '	Material Temper - 1/2 H, H										
Ø6,35	t 0,8	Ø12,70	t 0,8	Ø19,05	t 1,2	Ø22,22	t 1,0	Ø28,58	t 1,0	Ø38,10	over t 1,35	Ø44,45	over t1,55				
Ø9,52	t 0,8	Ø15,88	t 1,0			Ø25,40	t 1,0	Ø31,75	t 1,1	Ø41,28	over t 1,45	Ø44,45	over t1,55				

^{*} When bending the tubes, use a bending radius that is at least 4 times the outer diameter of the tubes. In addition, take sufficient care to avoid crushing or damaging the tubes when bending them.



2-Pipe EC0i EX ME2 Series

A VRF system delivering energy-saving performance, powerful operation, reliability and comfort, surpassing anything previously possible. It represents a true paradigm shift in air conditioning solutions.

VRF with outstanding energy-saving performance and powerful operation SEER 7,70 (18 HP model).

			8 HP	10 HP	12 HP	14 HP	16 HP	18 HP	20 HP
Outdoor unit			U-8ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8
	Voltage	٧	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Power supply	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50
Cooling capacity		kW	22,4	28,0	33,5	40,0	45,0	50,0	56,0
EER 1)		W/W	4,70	4,37	3,96	3,88	3,52	3,52	3,35
ESEER		W/W	9,33	8,67	7,94	7,73	7,19	6,95	6,18
Recommended com	bination		4 x S-56MF2E5A	4 x S-73MF2E5A	6 x S-56MF2E5A	2 x S-60MF2E5A	6 x S-73MF2E5A	6 x S-60MF2E5A	8 x S-73MF2E5A
SEER 2)			7,58	7,09	6,86	7,36	6,55	7,70	7,16
η _{s,c}		%	294,3	275,4	266,6	286,0	254,3	299,2	278,2
Current		Α	7,79 - 7,40 - 7,14	10,70-10,20-9,80	13,70-13,00-12,50	17,40-16,50-15,90	21,10-20,10-19,40	23,20-22,00-21,20	26,70-25,40-24,50
Input power		kW	4,77	6,41	8,47	10,30	12,80	14,20	16,70
Heating capacity		kW	25,0	31,5	37,5	45,0	50,0	56,0	63,0
COP 1)		W/W	5,13	4,76	4,73	4,56	4,42	4,38	3,94
SCOP 2)			4,85	4,32	4,78	4,33	4,09	4,34	4,13
η _{s,h}		%	188,4	167,6	185,8	168,2	159,0	168,7	160,4
Current		Α	7,96 - 7,56 - 7,29	11,10-10,50-10,10	12,90-12,30-11,80	16,60-15,80-15,20	18,90-17,90-17,30	21,10-20,10-19,40	25,90-24,60-23,70
Input power		kW	4,87	6,62	7,92	9,86	11,30	12,80	16,00
Starting current		Α	1,00	1,00	1,00	2,00	2,00	2,00	2,00
External static press	sure (Max)	Pa	80	80	80	80	80	80	80
Air flow		m³/min	224	224	232	232	232	405	405
C	Normal mode	dB(A)	54	56	59	60	61	59	60
Sound pressure	Silent mode	dB(A)	51	53	56	57	58	56	57
Sound power	Normal mode	dB(A)	75	77	80	81	82	80	81
Dimension	HxWxD	mm	1842 x 770 x 1000	1842 x 770 x 1000	1842 x 1180 x 1000	1842 x 1180 x 1000	1842 x 1180 x 1000	1842 x 1540 x 1000	1842 x 1540 x 1000
Net weight		kg	210	210	270	315	315	375	375
TVET WEIGHT	Liquid pipe	Inch (mm)	3/8(9,52)/ 1/2(12,70)	3/8 (9,52) / 1/2 (12,70)	1/2(12,70)/ 5/8(15,88)	1/2(12,70)/ 5/8(15,88)	1/2(12,70)/ 5/8(15,88)	5/8 (15,88) / 3/4 (19,05)	5/8 (15,88) / 3/4 (19,05)
Piping diameter 3)	Gas pipe	Inch (mm)	3/4(19,05)/ 7/8(22,22)	7/8(22,22)/ 1(25,40)	1(25,40)/ 1-1/8(28,58)	1 (25,40) / 1-1/8 (28,58)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)
	Balance pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4(6,35)	1/4 (6,35)	1/4(6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A)	/ CO, Eq	kg/T	5,60/11,6928	5,60/11,6928	8,30/17,3304	8,30/17,3304	8,30/17,3304	9,50/19,836	9,50/19,836
Maximum allowable	indoor / outdoor capa	or capacity ratio % 4 50 ~ 130 (200) 50 ~ 130 (200) 50 ~ 130 (200) 50 ~ 130 (200) 50 ~ 130 (200) 50 ~ 130 (200)		50~130(200)					
	Cool Min ~ Max	°C	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52
Operating range	Heat Min ~ Max	°C	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18

1) EER and COP calculation is based in accordance to EN14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = [η + Correction] × PEF. 3) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130 % and below 200 %: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130 % of connectable indoor units.

Technical focus

- · Twin rotary inverter compressor
- · High performance at extreme conditions
- · Outstanding efficiency and comfort
- · Extraordinary partial load, SEER and SCOP
- · SEER and SCOP following EN-14825
- · Oil recovery intelligent control

- · Top comfort
- · Superior flexibility
- · Bluefin full line up EX
- Extremely high capacity at -20 °C and unique heating capacity at -25 °C
- · Smooth exhaust flow by bell-mouth













2-Pipe ECOi EX ME2 Series high efficiency model combination from 18 to 28 HP

			18 HP	20 HP	22 HP	24 HP	26 HP	28 HP
Outdoor unit			U-8ME2E8	U-10ME2E8	U-10ME2E8	U-12ME2E8	U-10ME2E8	U-12ME2E8
Outdoor unit			U-10ME2E8	U-10ME2E8	U-12ME2E8	U-12ME2E8	U-16ME2E8	U-16ME2E8
	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Power supply	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	50,0	56,0	61,5	68,0	73,0	78,5
EER 1)		W/W	4,55	4,38	4,13	3,93	3,80	3,69
Current		Α	18,20 - 17,30 - 16,60	21,40 - 20,30 - 19,60	24,30-23,10-22,30	28,00-26,60-25,60	31,70-30,10-29,00	34,80-33,10-31,90
Input power		kW	11,00	12,80	14,90	17,30	19,20	21,30
Heating capacity		kW	56,0	63,0	69,0	76,5	81,5	87,5
COP 1)		W/W	4,96	4,77	4,76	4,69	4,55	4,56
Current		Α	18,70 - 17,70 - 17,10	22,00 - 20,90 - 20,20	23,90-22,70-21,90	26,60-25,30-24,40	29,90-28,40-27,40	31,70-30,10-29,00
Input power		kW	11,30	13,20	14,50	16,30	17,90	19,20
Starting current		Α	2,00	2,00	2,00	2,00	3,00	3,00
External static press	ure (Max)	Pa	80	80	80	80	80	80
Air flow		m³/min	448	448	456	464	456	464
Sound pressure	Normal	dB(A)	58,5	59,0	61,0	62,0	62,5	63,5
	Silent mode	dB(A)	55,5	56,0	58,0	59,0	59,5	60,5
Sound power	Normal mode	dB(A)	79,5	80,0	82,0	83,0	83,5	84,5
Dimension / Net weight	HxWxD	mm / kg	1842 x 1600 x 1000/420	1842 x 1600 x 1000 / 420	1842 x 2010 x 1000/480	1842 x 2420 x 1000/540	1842 x 2010 x 1000 / 535	1842 x 2420 x 1000/585
	Liquid pipe	Inch (mm)	5/8 (15,88) / 3/4 (19,05)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)			
Piping diameter 2]	Gas pipe	Inch (mm)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4(31,75)/ 1-1/2(38,10)			
	Balance pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A)	/ CO ₂ Eq.	kg / T	11,20/23,3856	11,20/23,3856	13,90/29,0232	16,60/34,6608	13,90/29,0232	16,60/34,6608
Maximum allowable	indoor / outdoor capa	acity ratio % 3)	50~130(200)	50~130(200)	50~130 (200)	50~130 (200)	50~130(200)	50~130 (200)
Operating range	Cool Min ~ Max	°C	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52
Operating range	Heat Min ~ Max	°C	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18

2-Pipe EC0i EX ME2 Series high efficiency model combination from 30 to 40 HP

			30 HP	32 HP	34 HP	36 HP	38 HP	40 HP
			U-14ME2E8	U-16ME2E8	U-10ME2E8	U-12ME2E8	U-10ME2E8	U-12ME2E8
Outdoor unit			U-16ME2E8	U-16ME2E8	U-12ME2E8	U-12ME2E8	U-12ME2E8	U-12ME2E8
					U-12ME2E8	U-12ME2E8	U-16ME2E8	U-16ME2E8
	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Power supply	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	85,0	90,0	96,0	101,0	107,0	113,0
EER 1)		W/W	3,68	3,52	4,05	3,95	3,84	3,75
Current		Α	38,60-36,60-35,30	42,30-40,20-38,70	38,70-36,80-35,50	41,40-39,30-37,90	46,10-43,80-42,20	49,20-46,70-45,00
Input power		kW	23,10	25,60	23,70	25,60	27,90	30,10
Heating capacity		kW	95,0	100,0	108,0	113,0	119,0	127,0
COP 1)		W/W	4,48	4,42	4,72	4,73	4,61	4,57
Current		Α	35,40-33,60-32,40	37,70-35,80-34,60	37,80-35,90-34,60	39,00-37,10-35,80	42,60-40,50-39,00	45,90-43,60-42,00
Input power		kW	21,20	22,60	22,90	23,90	25,80	27,80
Starting current		Α	4,00	4,00	3,00	3,00	4,00	4,00
External static press	ure (Max)	Pa	80	80	80	80	80	80
Air flow		m³/min	464	464	688	696	688	696
Sound pressure	Normal	dB(A)	63,5	64,0	63,0	64,0	64,0	64,5
	Silent mode	dB(A)	60,5	61,0	60,0	61,0	61,0	61,5
Sound power	Normal mode	dB(A)	84,5	85,0	84,0	85,0	85,0	85,5
Dimension / Net weight	HxWxD	mm / kg	1842 x 2420 x 1000/630	1842×2420 ×1000/630	1842 x 3250 x 1000 / 750	1842x3660 x1000/810	1842 x 3250 x 1000/795	1842x3660 x1000/855
	Liquid pipe	Inch (mm)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)
Piping diameter 2)	Gas pipe	Inch (mm)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)
	Balance pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A)	/ CO ₂ Eq.	kg / T	16,60/34,6608	16,60/34,6608	22,20/46,3536	24,90/51,9912	22,20/46,3536	24,90/46,3536
Maximum allowable	indoor / outdoor capa	acity ratio % 3)	50~130 (200)	50~130 (200)	50~130 (200)	50~130 (200)	50~130 (200)	50~130 (200)
On a noting your s	Cool Min ~ Max	°C	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52
Operating range	Heat Min ~ Max	°C	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18

Data is for reference. 1) EER and COP calculation is based in accordance to EN14511. 2) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130 % and below 200 %: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130 % of connectable indoor units.

2-Pipe ECOi EX ME2 Series high efficiency model combination from 42 to 52 HP

			42 HP	44 HP	46 HP	48 HP	50 HP	52 HP
			U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8	U-10ME2E8	U-12ME2E8
Outdoor unit			U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-12ME2E8	U-12ME2E8
Outdoor unit			U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-12ME2E8	U-12ME2E8
							U-16ME2E8	U-16ME2E8
	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Power supply	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	118,0	124,0	130,0	135,0	140,0	145,0
EER 1)		W/W	3,69	3,62	3,62	3,52	3,87	3,82
Current		А	52,80 - 50,20 - 48,40	56,00-53,20-51,30	59,90-56,90-54,90	63,40 - 60,20 - 58,10	59,10-56,20-54,20	62,10 - 59,00 - 56,80
Input power		kW	32,00	34,30	35,90	38,40	36,20	38,00
Heating capacity		kW	132,0	138,0	145,0	150,0	155,0	160,0
COP 1)		W/W	4,49	4,50	4,46	4,42	4,65	4,66
Current		Α	49,10-46,60-44,90	50,70-48,20-46,40	54,30-51,50-49,70	56,60-53,80-51,80	55,00 - 52,20 - 50,40	56,60 - 53,80 - 51,90
Input power		kW	29,40	30,70	32,50	33,90	33,30	34,30
Starting current		Α	5,00	5,00	6,00	6,00	5,00	5,00
External static press	ure (Max)	Pa	80	80	80	80	80	80
Air flow		m³/min	688	696	696	696	920	928
C	Normal	dB(A)	65,0	65,5	65,5	66,0	65,5	66,0
Sound pressure	Silent mode	dB(A)	62,0	62,5	62,5	63,0	62,5	63,0
Sound power	Normal mode	dB(A)	86,0	86,5	86,5	87,0	86,5	87,0
Dimension / Net weight	HxWxD	mm / kg	1842x3250 x1000/840	1842x3660 x1000/900	1842x3660 x1000/945	1842x3660 x1000/945	1842 x 4490 x 1000/1065	1842×4900 ×1000/1125
	Liquid pipe	Inch (mm)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)
Piping diameter 2]	Gas pipe	Inch (mm)	1-1/2 (38,10)/ 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10)/ 1-5/8 (41,28)	1-1/2 (38,10)/ 1-5/8 (41,28)
	Balance pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A)	/ CO ₂ Eq.	kg / T	22,20/51,9912	24,90/51,9912	24,90/51,9912	24,90/51,9912	30,50/63,6840	33,20/69,3216
Maximum allowable	indoor / outdoor cap	acity ratio % 3)	50~130 (200)	50~130 (200)	50~130 (200)	50~130 (200)	50~130 (200)	50~130(200)
0 1:	Cool Min ~ Max	°C	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52
Operating range	Heat Min ~ Max	°C	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18

2-Pipe EC0i EX ME2 Series high efficiency model combination from 54 to 64 HP

			54 HP	56 HP	58 HP	60 HP	62 HP	64 HP
			U-10ME2E8	U-12ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8
Outdoor unit			U-12ME2E8	U-12ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
Outdoor unit			U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
			U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Power supply	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50
Cooling capacity		kW	151,0	156,0	162,0	168,0	174,0	180,0
EER 1)		W/W	3,75	3,71	3,65	3,60	3,60	3,52
Current		Α	66,60-63,20-60,90	68,80-65,30-63,00	73,30-69,70-67,10	77,10-73,30-70,60	79,80 - 75,80 - 73,00	84,60-80,30-77,40
Input power		kW	40,30	42,10	44,40	46,70	48,30	51,20
Heating capacity		kW	169,0	175,0	182,0	189,0	195,0	201,0
COP 1)		W/W	4,56	4,56	4,47	4,47	4,45	4,42
Current		Α	61,90-58,80-56,70	63,40 - 60,20 - 58,10	68,00-64,60-62,20	70,60-67,10-64,70	73,10-69,50-67,00	76,00 - 72,20 - 69,60
Input power		kW	37,10	38,40	40,70	42,30	43,80	45,50
Starting current		Α	6,00	6,00	7,00	7,00	8,00	8,00
External static press	sure (Max)	Pa	80	80	80	80	80	80
Air flow		m³/min	920	928	920	928	928	928
Sound pressure	Normal	dB(A)	66,0	66,5	66,5	67,0	67,0	67,0
Sound pressure	Silent mode	dB(A)	63,0	63,5	63,5	64,0	64,0	64,0
Sound power	Normal mode	dB(A)	87,0	87,5	87,5	88,0	88,0	88,0
Dimension / Net weight	HxWxD	mm / kg	1842x4490 x1000/1110	1842 x 4900 x 1000/1170	1842×4490 ×1000/1155	1842×4900 ×1000/1215	1842 x 4900 x 1000/1260	1842 x 4900 x 1000 / 1260
	Liquid pipe	Inch (mm)	3/4 (19,05)/ 7/8 (22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)
Piping diameter ^{2]}	Gas pipe	Inch (mm)	1-1/2 (38,10)/ 1-5/8 (41,28)	1-1/2 (38,10)/ 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-5/8 (41,28) / 1-3/4 (44,45)	1-5/8 (41,28) / 1-3/4 (44,45)
	Balance pipe	Inch (mm)	1/4 (6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A)	/ CO ₂ Eq.	kg / T	30,50/63,6840	33,20/69,3216	30,50/63,6840	33,20/69,3216	33,20/69,3216	33,20/69,3216
Maximum allowable	indoor / outdoor cap	acity ratio % 3]	50~130 (200)	50~130 (200)	50~130(200)	50~130(200)	50~130(200)	50~130 (200)
	Cool Min ~ Max	°C	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52
Operating range	Heat Min ~ Max	°C	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18

Data is for reference. 1) EER and COP calculation is based in accordance to EN14511. 2) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit / if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 3) If the following conditions are satisfied, the effective range is above 130 % and below 200 %: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130 % of connectable indoor units.

2-Pipe ECOi EX ME2 Series space saving model combination from 22 to 34 HP

		22 HP	24 HP	26 HP	28 HP	30 HP	32 HP	34 HP
		U-10ME2E8	U-12ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8	U-14ME2E8
		U-12ME2E8	U-12ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-20ME2E8
Voltage	٧	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
Frequency	Hz	50	50	50	50	50	50	50
	kW	61,5	68,0	73,0	78,5	85,0	90,0	96,0
	W/W	4,13	3,93	3,80	3,69	3,68	3,52	3,56
		6,90	6,86	6,62	6,60	6,88	6,55	7,21
	Α	24,30-23,10-22,30	28,00-26,60-25,60	31,70-30,10-29,00	34,80-33,10-31,90	38,60-36,60-35,30	42,30-40,20-38,70	44,10-41,90-40,40
	kW	14,90	17,30	19,20	21,30	23,10	25,60	27,00
	kW	69,0	76,5	81,5	87,5	95,0	100,0	108,0
	W/W	4,76	4,69	4,55	4,56	4,48	4,42	4,17
		4,53	4,78	4,16	4,29	4,13	4,09	4,14
	Α	23,90-22,70-21,90	26,60-25,30-24,40	29,90-28,40-27,40	31,70-30,10-29,00	35,40-33,60-32,40	37,70-35,80-34,60	42,80-40,60-39,20
	kW	14,50	16,30	17,90	19,20	21,20	22,60	25,90
	Α	2,00	2,00	3,00	3,00	4,00	4,00	4,00
ure (Max)	Pa	80	80	80	80	80	80	80
	m³/min	456	464	456	464	464	464	637
Normal / Silent mode	dB(A)	61,0/58,0	62,0/59,0	62,5/59,5	63,5/60,5	63,5/60,5	64,0/61,0	63,0/60,0
Normal mode	dB(A)	82,0	83,0	83,5	84,5	84,5	85,0	84,0
HxWxD	mm / kg	1842×2010 ×1000/480	1842x2420 x1000/540	1842 x 2010 x 1000/525	1842 x 2420 x 1000/585	1842 x 2420 x 1000/630	1842 x 2420 x 1000/630	1842×2780 ×1000/690
Liquid pipe	Inch (mm)	5/8 (15,88) / 3/4 (19,05)	5/8(15,88)/ 3/4(19,05)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)
Gas pipe	Inch (mm)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4 (31,75) / 1-1/2 (38,10)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4 (31,75) / 1-1/2 (38,10)
Balance pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4(6,35)	1/4 (6,35)	1/4 (6,35)
CO ₂ Eq.	kg / T	13,90/23,3856	16,60/34,6608	13,90/29,0232	16,60/34,6608	16,60/34,6608	16,60/34,6608	17,80/37,1664
indoor / outdoor capaci	ity ratio % 4)	50~130 (200)	50~130(200)	50~130(200)	50~130(200)	50~130(200)	50~130(200)	50~130(200)
Cool Min ~ Max	°C	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52
Heat Min ~ Max	°C	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18
	Phase Frequency Jure (Max) Normal / Silent mode Normal mode HxWxD Liquid pipe Gas pipe Balance pipe CO ₂ Eq. ndoor / outdoor capaci Cool Min ~ Max	Phase	Voltage V 380 - 400 - 415 Phase Three phase Frequency Hz 50 kW 61,5 W/W 4,13 • 6,90 A 24,30-23,10-22,30 kW 14,90 kW 69,0 W/W 4,76 A 23,90-22,70-21,90 kW 14,50 A 2,00 ure (Max) Pa 80 m³/min 456 Normal / Silent mode dB(A) 61,0/58,0 Normal mode dB(A) 82,0 HxWxD mm / kg 1842 x 2010 x 10000 / 480 1842 x 2010 Liquid pipe Inch (mm) 5/8 (15,88) / 3/4 (19,05) Gas pipe Inch (mm) 1-1/8 (28,58) / 1-1/4 (31,75) Balance pipe Inch (mm) 1/4 (6,35) CO ₂ Eq. kg / T 13,90/23,3856 ndoor / outdoor capacity ratio % ⁴¹ 50 ~ 130 (200) Cool Min ~ Max °C -10 ~ +52 <td>Voltage V 380-400-415 380-400-415 Phase Three phase Three phase Frequency Hz 50 50 kW 61.5 68,0 W/W 4,13 3,93 A 24,30-23,10-22,30 28,00-26,60-25,60 kW 14,90 17,30 kW 69,0 76,5 kW 4,76 4,69 W/W 4,76 4,69 A 23,90-22,70-21,90 26,60-25,30-24,40 kW 14,53 4,78 A 23,90-22,70-21,90 26,60-25,30-24,40 kW 14,50 16,30 A 2,00 2,00 are [Max] Pa 80 80 mormal / Silent mode dB[A] 61,0/58,0 62,0/59,0 Normal mode dB[A] 61,0/58,0 62,0/59,0 Normal mode dB[A] 82,0 83,0 Liquid pipe Inch [mm] 1,842 x 2010 x 1000/540 Liqui</td> <td>Voltage V 380 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 416 480 - 400 - 416 480 - 400 - 416 480 - 400 - 416 480 - 400 - 416 480 - 400 - 416 480 - 400 - 416 480 - 400 - 416 480 - 400 - 416 480</td> <td>Voltage U-10ME2E8 U-12ME2E8 U-12ME2E8 U-16ME2E8 <th< td=""><td> </td><td>Voltage U-10MEZES U-12MEZES U-10MEZES <th< td=""></th<></td></th<></td>	Voltage V 380-400-415 380-400-415 Phase Three phase Three phase Frequency Hz 50 50 kW 61.5 68,0 W/W 4,13 3,93 A 24,30-23,10-22,30 28,00-26,60-25,60 kW 14,90 17,30 kW 69,0 76,5 kW 4,76 4,69 W/W 4,76 4,69 A 23,90-22,70-21,90 26,60-25,30-24,40 kW 14,53 4,78 A 23,90-22,70-21,90 26,60-25,30-24,40 kW 14,50 16,30 A 2,00 2,00 are [Max] Pa 80 80 mormal / Silent mode dB[A] 61,0/58,0 62,0/59,0 Normal mode dB[A] 61,0/58,0 62,0/59,0 Normal mode dB[A] 82,0 83,0 Liquid pipe Inch [mm] 1,842 x 2010 x 1000/540 Liqui	Voltage V 380 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 400 - 415 480 - 416 480 - 400 - 416 480 - 400 - 416 480 - 400 - 416 480 - 400 - 416 480 - 400 - 416 480 - 400 - 416 480 - 400 - 416 480 - 400 - 416 480	Voltage U-10ME2E8 U-12ME2E8 U-12ME2E8 U-16ME2E8 U-16ME2E8 <th< td=""><td> </td><td>Voltage U-10MEZES U-12MEZES U-10MEZES <th< td=""></th<></td></th<>		Voltage U-10MEZES U-12MEZES U-10MEZES U-10MEZES <th< td=""></th<>

2-Pipe ECOi EX ME2 Series space saving model combination from 36 to 48 HP

		36 HP	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
		U-16ME2E8	U-18ME2E8	U-20ME2E8	U-10ME2E8	U-12ME2E8	U-14ME2E8	U-16ME2E8
		U-20ME2E8	U-20ME2E8	U-20ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
					U-16ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8
Voltage	٧	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
Frequency	Hz	50	50	50	50	50	50	50
	kW	101,0	107,0	113,0	118,0	124,0	130,0	135,0
	W/W	3,42	3,42	3,34	3,69	3,62	3,62	3,52
		6,86	7,32	7,16	6,57	6,6	6,7	6,55
	Α	47,70-45,30-43,70	50,60-48,10-46,30	54,10-51,40-49,50	52,80-50,20-48,40	56,00-53,20-51,30	59,90-56,90-54,90	63,40-60,20-58,10
	kW	25,9	31,3	33,8	32,0	34,3	35,9	38,4
	kW	113,0	119,0	127,0	132,0	138,0	145,0	150,0
	W/W	4,14	4,13	3,92	4,49	4,50	4,46	4,42
		4,06	4,14	4,13	4,11	4,21	4,12	4,09
	Α	44,60-42,40-40,80	47,10-44,70-43,10	52,40-49,80-48,00	49,10-46,60-44,90	50,70-48,20-46,40	54,30-51,50-49,7	56,60-53,80-51,8
	kW	27,30	28,80	32,40	29,40	30,70	32,50	33,90
	Α	4,00	4,00	4,00	5,00	5,00	6,00	6,00
ıre (Max)	Pa	80	80	80	80	80	80	80
	m³/min	637	810	810	688	696	696	696
Normal / Silent mode	dB(A)	63,5/60,5	62,5/59,5	63,0/60,0	65,0/62,0	65,5/62,5	65,5/62,5	66,0/63,0
Normal mode	dB(A)	84,5	83,5	84,0	86,0	86,5	86,5	87,0
HxWxD	mm / kg	1842×2780 ×1000/690	1842x3140 x1000/750	1842x3140 x1000/750	1842x3250 x1000/840	1842x3660 x1000/900	1842 x 3660 x 1000/945	1842x3660 x1000/945
Liquid pipe	Inch (mm)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)
Gas pipe	Inch (mm)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2(38,10)/ 1-5/8(41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2(38,10)/ 1-5/8(41,28)	1-1/2 (38,10)/ 1-5/8 (41,28)
Balance pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
CO ₂ Eq.	kg / T	17,80/37,1664	19,00/39,672	19,00/39,672	22,20/46,3536	24,90/51,9912	24,90/51,9912	24,90/51,9912
ndoor / outdoor capaci	ty ratio % ⁴⁾	50~130 (200)	50~130(200)	50~130 (200)	50~130(200)	50~130 (200)	50~130(200)	50~130(200)
Cool Min ~ Max	°C	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52
Heat Min ~ Max	°C	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18
	Phase Frequency Irre (Max) Normal / Silent mode Normal mode H x W x D Liquid pipe Gas pipe Balance pipe CO ₂ Eq. Indoor / outdoor capaci	Phase	Voltage V 380 - 400 - 415 Phase	Voltage V 380-400-415 380-400-415 Phase Three phase Three phase Frequency Hz 50 50 kW 101,0 107,0 W/W 3,42 3,42 A 47,70-45,30-43,70 50,60-48,10-46,30 kW 25,9 31,3 kW 113,0 119,0 W/W 4,14 4,13 W/W 4,14 4,13 W/W 4,14 4,13 A 4,60-42,40-40,80 47,10-44,70-43,10 W/W 27,30 28,80 A 4,00 4,00 wre [Max] Pa 80 80 wre [Max] BB[A] 63,5/60,5 62,5/59,5 Normal rode dB[A] 63,5/60,5 62,5/59,5 Normal pride mm/kg <t< td=""><td> Voltage</td><td> </td><td> </td><td> Part Part</td></t<>	Voltage			Part Part

1) EER and COP calculation is based in accordance to EN14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency " η " values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = [η + Correction] × PEF. 3) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130 % and below 200 %: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB [standard -25 °C WB]. C. Simultaneous operation is limited to less than 130 % of connectable indoor units.

2-Pipe ECOi EX ME2 Series space saving model combination from 50 to 64 HP

U-16ME2E8 U-16ME2E8 U-20ME2E8 U-20ME2E8 <t< th=""><th>U-16ME2E8 U-16ME2E8 U-16ME2E8 U-16ME2E8</th></t<>	U-16ME2E8 U-16ME2E8 U-16ME2E8 U-16ME2E8
Outdoor unit U-20ME2E8 U-20ME2E8 U-20ME2E8 U-20ME2E8 U-20ME2E8 U-20ME2E8 U-16ME2E8 U	U-16ME2E8
U-20ME2E8 U-20ME2E8 U-20ME2E8 U-20ME2E8 U-20ME2E8 U-16ME2E8 U	
	U-16ME2E8
U-16ME2E8 U	
Voltage V 380-400-415 380-400-415 380-400-415 380-400-415 380-400-415 380-400-415 380-400-415 380-400-415 380-400-415	880 - 400 - 415
Power supply Phase Three phase	Three phase
Frequency Hz 50 50 50 50 50 50 50 50	50
Cooling capacity kW 140,0 145,0 151,0 156,0 162,0 168,0 174,0	180,0
EER 11 W/W 3,55 3,46 3,49 3,41 3,40 3,35 3,60	3,52
SEER 21 6,96 6,72 7,16 6,92 7,3 7,16 6,68	6,55
Current A 64,40-61,10-58,90 68,50-65,00-62,70 70,00-66,50-64,10 74,00-70,30-67,80 76,90-73,10-70,40 80,10-76,10-73,40 79,80-75,80-73,00 84,	4,60-80,30-77,40
Input power kW 39,40 41,90 43,30 45,80 47,60 50,10 48,30	51,20
Heating capacity kW 155,0 160,0 169,0 175,0 182,0 189,0 195,0	201,0
COP 11 W/W 4,29 4,27 4,11 4,08 4,06 3,94 4,45	4,42
SCOP 2 4,08 4,05 4,13 4,07 4,13 4,11	4,09
Current A 59,60-56,60-54,60 61,90-58,80-56,70 67,10-63,80-61,50 70,10-66,60-64,20 73,20-69,50-67,00 77,60-73,70-71,00 73,10-69,50-67,00 76	76,00-72,20-69,6
Input power kW 36,10 37,50 41,10 42,90 44,80 48,00 43,80	45,50
Starting current A 6,00 6,00 6,00 6,00 6,00 6,00 8,00	8,00
External static pressure (Max) Pa 80 80 80 80 80 80 80	80
Air flow m³/min 869 869 1042 1042 1215 1215 928	928
Sound pressure Normal / Silent mode dB(A) 65,5/62,5 65,5/62,5 65,0/62,0 65,5/62,5 64,5/61,5 65,0/62,0 67,0/64,0 65,5/62,5 64,5/61,5 65,0/62,0 67,0/64,0 65,5/62,5 64,5/61,5 65,0/62,0 67,0/64,0 65,5/62,5 64,5/61,5 65,0/62,0 67,0/64,0 65,5/62,5 64,5/61,5 65,0/62,0 67,0/64,0 65,5/62,5 64,5/61,5 65,0/62,0 67,0/64,0 65,5/62,5 64,5/61,5 65,0/62,0 67,0/64,0 65,5/62,5 64,5/61,5 65,0/62,0 67,0/64,0 65,5/62,5 64,5/61,5 65,0/62,0 67,0/64,0 65,5/62,5 64,5/61,5 65,0/62,0 67,0/64,0 65,5/62,5 64,5/61,5 65,0/62,0 67,0/64,0 65,5/62,5 64,5/61,5 65,0/62,0 67,0/64,0 65,5/62,5 64,5/61,5/61,5 64,5/61,5 64,5/61,5 64,5/61,5 64,5/61,5 64,5/61,5 64,5/61,5	67,0/64,0
Sound power Normal mode dB(A) 86,5 86,5 86,0 86,5 85,5 86,0 88,0	88,0
	1842 x 4900
Net weight 1xWAD 11111/kg x1000/1005 x1000/1005 x1000/1065 x1000/1065 x1000/1125 x1000/1125 x1000/1260 x	k1000/1260
	3/4(19,05)/
7/8(22,22) 7/8(22,22) 7/8(22,22) 7/8(22,22) 7/8(22,22) 7/8(22,22) 7/8(22,22) 7/8(22,22) 7/8(22,22) 7/8(22,22)	7/8 (22,22)
	-5/8 (41,28)/
1-5/8(41,28) 1-5/8	1-3/4 (44,45)
Balance pipe Inch (mm) 1/4(6,35) 1/4(6,35) 1/4(6,35) 1/4(6,35) 1/4(6,35) 1/4(6,35) 1/4(6,35)	1/4 (6,35)
Refrigerant [R410A] / CO ₂ Eq. kg / T 26,10/54,4968 26,10/54,4968 27,30/57,0024 27,30/57,0024 28,50/59,508 33,20/69,3216 33	3,20/69,3216
Maximum allowable indoor / outdoor capacity ratio % 4 50~130 (200) 50~130 (200) 50~130 (200) 50~130 (200) 50~130 (200) 50~130 (200) 50~130 (200) 50~130 (200) 50~130 (200) 50~130 (200)	50~130(200)
Operating range	-10~+52
Heat Min ~ Max °C -25~+18 -25~+18 -25~+18 -25~+18 -25~+18 -25~+18	-25~+18

2-Pipe ECOi EX ME2 Series space saving model combination from 66 to 80 HP

			66 HP	68 HP	70 HP	72 HP	74 HP	76 HP	78 HP	80 HP
			U-10ME2E8	U-12ME2E8	U-10ME2E8	U-16ME2E8	U-16ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8
0.11			U-16ME2E8	U-16ME2E8	U-20ME2E8	U-16ME2E8	U-18ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8
Outdoor unit			U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8
			U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8	U-20ME2E8
	Voltage	V	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415	380-400-415
Power supply	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	185,0	190,0	196,0	202,0	208,0	213,0	219,0	224,0
EER 1]		W/W	3,52	3,49	3,47	3,42	3,42	3,39	3,38	3,35
SEER 2)			6,92	6,91	7,09	6,86	7,03	7,01	7,18	7,16
Current		Α	85,00-80,80-77,80	88,10-83,70-80,70	91,30-86,80-83,60	95,40-90,60-87,30	98,30-93,40-90,00	101,70-96,60-93,10	103,50-98,30-94,70	106,80-101,50-97,80
Input power		kW	52,60	54,50	56,50	59,00	60,80	62,90	64,70	66,80
Heating capacity		kW	207,0	213,0	219,0	226,0	233,0	239,0	245,0	252,0
COP 1)		W/W	4,16	4,18	4,05	4,14	4,12	4,03	4,03	3,94
SCOP 2)			4,11	4,17	4,13	4,06	4,12	4,07	4,13	4,13
Current		Α	81,20-77,10-74,30	83,30-79,20-76,30	87,40-83,10-80,10	89,20-84,70-81,70	92,30-87,70-84,50	96,90-92,00-88,70	98,30-93,40-90,00	103,40-98,30-94,70
Input power		kW	49,70	51,00	54,10	54,60	56,50	59,30	60,80	64,00
Starting current		Α	7,00	7,00	7,00	8,00	8,00	8,00	8,00	8,00
External static press	sure (Max)	Pa	80	80	80	80	80	80	80	80
Air flow		m³/min	1266	1274	1439	1274	1447	1447	1620	1620
Sound pressure	Normal / Silent mode	dB(A)	66,0/63,0	66,5/63,5	65,5/62,5	66,5/63,5	66,5/63,5	66,5/63,5	66,0/63,0	66,0/63,0
Sound power	Normal mode	dB(A)	87,0	87,5	86,5	87,5	87,5	87,5	87,0	87,0
Dimension / Net weight	HxWxD	mm / kg	1842x5210x 1000/1275	1842x5620x 1000/1335	1842x5570x 1000/1335	1842x5620x 1000/1380	1842x5980x 1000/1440	1842x5980x 1000/1440	1842×6340× 1000/1500	1842x6340x 1000/1500
	Liquid pipe	Inch (mm)	3/4(19,05)/ 7/8(22,22)	7/8(22,22)/ 1(25,04)	7/8(22,22)/ 1(25,04)	7/8(22,22)/ 1(25,04)	7/8 (22,22) / 1 (25,04)			
Piping diameter 3]	Gas pipe	Inch (mm)	1-5/8(41,28)/ 1-3/4(44,45)	1-5/8 (41,28) / 1-3/4 (44,45)	1-5/8 (41,28) / 1-3/4 (44,45)	1-3/4(44,45)/ 2(50,80)	1-3/4(44,45)/ 2(50,80)	1-3/4(44,45)/ 2(50,80)	1-3/4(44,45)/ 2(50,80)	1-3/4(44,45)/ 2(50,80)
	Balance pipe	Inch (mm)	1/4 (6,35)	1/4(6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4(6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A)	/ CO ₂ Eq.	kg / T	32,90/68,6952	35,60/74,3328	34,10/19,836	35,80/68,6952	36,80/76,8384	36,80/76,8384	38,00/79,344	38,00/79,344
Maximum allowable	indoor / outdoor capaci	ity ratio % 4)	50~130 (200)	50~130(200)	50~130(200)	50~130(200)	50~130(200)	50~130(200)	50 ~ 130 (200)	50~130(200)
0	Cool Min ~ Max	°C	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52
Operating range	Heat Min ~ Max	°C	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18	-25~+18

1) EER and COP calculation is based in accordance to EN14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "n" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (n + Correction) × PEF. 3) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) If the following conditions are satisfied, the effective range is above 130 % and below 200 %: A. Obey the limited number of connectable indoor units. B. The lower limit of operating range for heating outdoor temperature is limited to -10 °C WB (standard -25 °C WB). C. Simultaneous operation is limited to less than 130 % of connectable indoor units.

3-Pipe ECOi EX MF3 Series



Simultaneous heating and cooling VRF system.
The Panasonic 3-Pipe ECOi EX MF3 Series offers the best solution for the most discerning customers and demanding installations.

Simultaneous heating and cooling VRF System

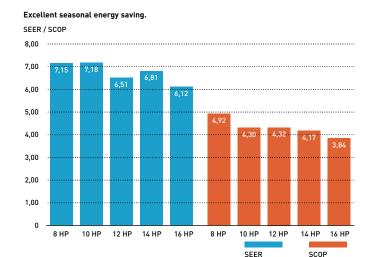
The Panasonic 3-Pipe ECOi EX MF3 Series offers the ideal solution to meet customer's demands.

Upgraded energy efficiency utilized ECOi EX technology.

- · SEER / SCOP improved in full capacities from 8 to 16 HP
- · SEER / SCOP follows LOT21 (January 2018)
- · Eurovent certified EER / COP

Design flexibility.

- High reliability even under extreme temperature conditions
- · Connection of up to 52 indoor units
- · Slim heat recovery box with just 200 mm height
- Farthest piping length between indoor and outdoor units:
 200 m



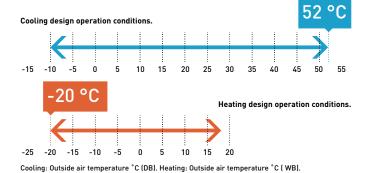
Extended design operation conditions

Cooling design operation conditions: The cooling operating range has been extended to -10 °C \sim 52 °C by changing the outdoor fan to an Inverter type.

Heating design operation conditions: Stable heating operation even with an outside air temperature of -20 °C. The heating operating range has been extended to -20 °C by use of a compressor with a high-pressure vessel.

Wide temperature setting range

Wired remote controller heating temperature setting range is 16 to 30 °C as standard.



Increased maximum number of connectable indoor units

Maximum 48 HP with 52 indoor units can be set up according to user needs. Connectable indoor / outdoor unit capacity ratio up to 150 %.

System (HP)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Connectable indoor units*: 150 %	19	24	29	34	39	43	48		- 5	52						5	52				

^{*}Depending on indoor units types. Please check service manuals

Power suppression control for energy saving (demand control) 1)

The 3-Pipe ECOi EX MF3 Series has a built-in demand function which uses the inverter characteristics. With this demand function, the power consumption can be set in three steps, and operation ^{2]} at optimum performance is performed according to the setting and the power consumption. This function is useful to reduce the annual power consumption and to save electricity costs while maintaining comfort.

1) An outdoor Seri-Para I/O unit is required for demand input.

2) Setting is possible as 0 % or in the range from 40 to 100 % (in steps of 5 %). At the time of shipping, setting has been done to the three steps of 0 %, 70 %, and 100 %.

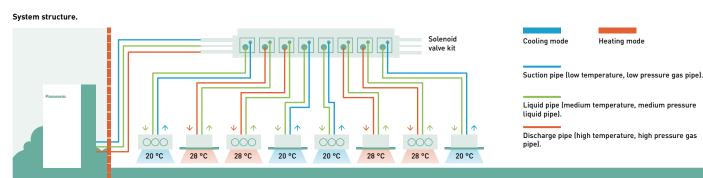
Slim 3-Pipe control box kit / Multiple connection type

Heat recovery Box to connect multiple indoor units with just one box, 4, 6 and up to 8 indoor units or groups.

The height is only 200 mm, which is especially advantageous in hotel applications, where space for connecting several boxes is limited.

Individual control of multiple indoor units with solenoid valve kits.

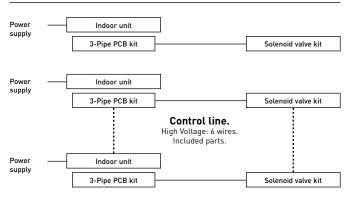
- · Any design and layout can be used in a single system.
- \cdot Cooling operation is possible up to an outdoor temperature of -10 °C.



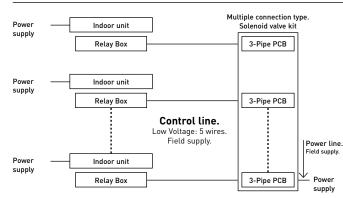


Solenoid valve kit / wiring work

Current model / single connection type.



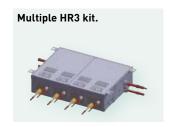
New model / multiple connection type.







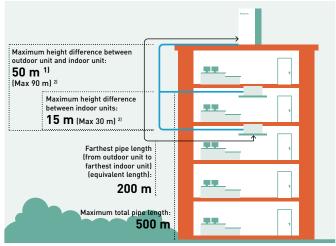




3-Pipe ECOi EX MF3 Series superior flexibility

Increased piping lengths and design flexibility

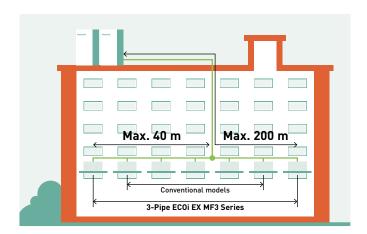
Adaptable to various building types and sizes. Actual piping length: 200 m. Maximum piping length: 500 m.



- 1) 40 m if the outdoor unit is below the indoor unit.
- 2) For height differences between outdoor unit and indoor unit > 50 m, as well as for height differences between indoor units > 15 m, contact an authorized Panasonic dealer.

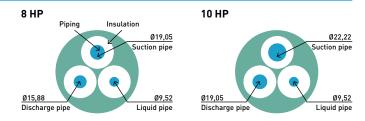
Up to 40 m piping after first branch

Up to 52 units can be connected to one system. Flexible piping layout makes it easier to design systems for locations such as train stations, airports, schools and hospitals.



Excellent cost saving and smaller piping size

By using R410A with low pressure loss, pipe sizes for discharge, suction and liquid are all reduced. This makes it possible to aim for reduced piping space, improved workability at the site, and reduction of the piping material costs.

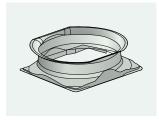


High external static pressure on condensers

With a newly designed fan, fan guard, motor, and casing, the models can be custom-installed on-site to provide up to 80 Pa of external static pressure.



Fan.



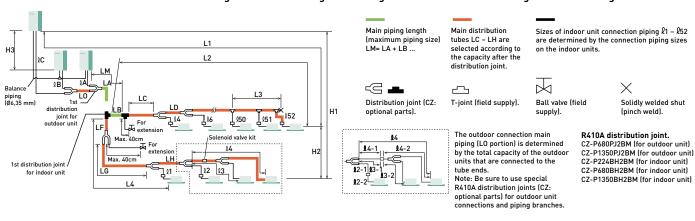
Fan motor and casing.

An air discharge duct prevents shortages of air circulation, allowing outdoor units to be installed on every floor of a building.



3-Pipe EC0i EX MF3 Series piping design

Select the installation location so that the length and size of refrigerant tubing are within the allowable range shown in the figure below.



Items	Mark	Contents		Length (m				
	. 1	Maniana airia larath	Actual length	≤200¹)				
	L1	Maximum piping length	Equivalent length	≤210¹¹				
	Δ L (L2-L4)	Difference between maximum length and minimum le	ength from the 1st distribution joint	≤50²)				
AU 11 I	LM	Maximum length of main piping (at maximum size) * I maximum piping length.	Even after 1st distribution joint, LM is allowed if at	3]				
Allowable piping length	Q1, Q2~ Q52	Maximum length of each distribution tube						
	L1+ l1+ l2~ l51+ lA+lB+LF+LG+LH	Total maximum piping length including length of each distribution tube (only liquid piping)						
	la, lb+LO, lc+LO	Maximum piping length from outdoor's 1st distributio	n joint to each outdoor unit	≤10				
	1 1-2, 1 2-2 ~ 1 52-2	Maximum length between solenoid valve kit and indoo	Maximum length between solenoid valve kit and indoor unit					
	111	When outdoor unit is installed higher than indoor unit	t	≤50				
Allements alements a difference	H1	When outdoor unit is installed lower than indoor unit		≤40				
Allowable elevation difference	llowable elevation difference H2 Maximum difference between indoor units							
	H3	Maximum difference between outdoor units		≤4				
Allowable length of joint piping	L3	T-joint piping (field-supply); Maximum piping length between the first T-joint and solidly welded-shut end point						

L = Length, H = Height

1) If the longest piping length (L1) exceeds 90 m (equivalent length), increase the sizes of the main pipes (LM) by 1 rank for suction pipes, discharge pipes and liquid pipes. Use a field supply reducer. Select the pipe size from the table of main piping sizes (Table 3) and from the table of refrigerant piping sizes (Table 8). 2) If the longest main piping length (LM) exceeds 50 m, increase the main piping size at the portion before 50 m by 1 rank for the suction pipes and discharge pipes. Use a field supply reducer. Determine the length less than the limitation of allowable maximum piping length. For the portion that exceeds 50 m, set based on the main piping size (LA) listed in Table 3. 3) If the piping length marksd "L" (L2-L4) exceeds 40 m, increase the piping size at the portion after the 1st distribution joint by 1 rank for the liquid pipe, suction pipe and discharge pipe. Refer to the Technical Data for the details. 4) If any of the piping length exceeds 30 m, increase the size of the suction pipes, discharge pipes and liquid pipes by 1 rank.

* The outdoor connection main piping (LO portion) is determined by the total capacity of the outdoor units that are connected to the pipe ends.

System limitations.

Maximum number allowable connected outdoor units	3
Maximum capacity allowable connected outdoor units	135 kW (48 HP)
Maximum connectable indoor units	52
Maximum allowable indoor / outdoor capacity ratio	50-150 %

Additional refrigerant charge.

Liquid piping size (Inch (mm))	1/4 (6,35)	3/8 (9,52)	1/2 (12,70)	5/8 (15,88)	3/4 (19,05)	7/8 (22,22)
Amount of refrigerant charge	26	56	128	185	259	366

- 1) In the case of 24 HP (type 68 kW) or smaller units, the number is limited by the total capacity of the connected indoor units.
- 2) Up to 3 units can be connected if the system has been extended.
- 3) It is strongly recommended that you choose the unit so the load can become between 50 and 130 %.

Necessary amount of additional refrigerant charge per meter, according to discharge piping size.

Discharge piping size	Inch (mm)	1/2 (12,70)	5/8 (15,88)	3/4 (19,05)	7/8 (22,22)	1 (25,40)	1-1/8 (28,58)	1-1/4 (31,75)	1-1/2 (38,10)
Additional amount	g/m	12	21	31	41	55	71	89	126

Refrigerant piping.

Piping size (mm)													
Material Tem	per - O				Material Temper - 1/2 H, H								
Ø6,35	t 0,8	Ø12,70	t 0,8	Ø19,05	t 1,2	Ø22,22	t 1,0	Ø28,58	t 1,0	Ø38,10	t 1,15		
Ø9,52	t 0,8	Ø15,88	t 1,0			Ø25,40	t 1,0	Ø31,75	t 1,1	Ø41,28	t 1,20		

^{*} When bending the tubes, use a bending radius that is at least 4 times the outer diameter of the tubes. In addition, take sufficient care to avoid crushing or damaging the tubes when bending them.



3-Pipe EC0i EX MF3 Series

Simultaneous heating and cooling operation with heat recovery type.

The 3-Pipe EC0i EX MF3 Series is one of the most advanced VRF systems.

Not only high-efficient performance for simultaneous heating and cooling, but also sophisticated installation and maintenance capability.

Power supply Phase V 380-400-415 380-400-415 380-400-415 380-400-415 380-400-415 380-400-415 380-400-415 380-400-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-4000-415 180-40000-415 180-40000-415 180-40000-415 180-40000-415 180-40000-415		<u> </u>		8 HP	10 HP	12 HP	14 HP	16 HP
Power supply Phase Frequency Hz by Hz Three phase by Sol	Outdoor unit			U-8MF3E8	U-10MF3E8	U-12MF3E8	U-14MF3E8	U-16MF3E8
Frequency		Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Cooling capacity kW 22,4 28,0 33,5 40,0 45,0 EER ™ W/W 5,11 4,72 3,91 3,70 3,49 Recommended combination 4 x 5-56MF2E5A 4 x 5-73MF2E5A 2 x 5-60MF2E5A 2 x 5-60MF2E5A + 4 x 5.73MF2E5A 6 x 5-73MF2E5A 2 x 5-60MF2E5A + 4 x 5.73MF2E5A 6 x 5-73MF2E5A 4 x 5-73MF2E5A 6 x 5-73MF2E5A 2 x 5-60MF2E5A + 4 x 5.73MF2E5A 6 x 5-73MF2E5A 4 x 5-73MF2E5A 6 x 5-73MF2E5A 6 x 5-73MF2E5A 4 x 5-73MF2E5A 6 x 5-	Power supply	Phase		Three phase				
Fee		Frequency	Hz	50	50	50	50	50
Recommended combination	Cooling capacity		kW	22,4	28,0	33,5	40,0	45,0
SEER 7,15 7,18 6,51 6,51 6,81 6,12	EER 1)		W/W	5,11	4,72	3,91	3,70	3,49
N _c % 277,7 278,9 252,7 264,4 237,7 Current A 7,16 - 6,80 - 6,55 9,90 - 9,41 - 9,07 3,19 - 13,20 - 12,70 18,20 - 17,30 - 16,70 21,30 - 20,20 - 19,50 Input power kW 4,38 5,93 8,57 10,80 12,90 Heating capacity kW 25,0 31,5 37,5 45,0 50,0 COP 11 W/W 5,25 5,17 4,51 4,21 4,17 3,86 COP 24 4,92 4,30 4,32 4,17 3,86 10,3 1,49,2	Recommended com	bination		4 x S-56MF2E5A	4 x S-73MF2E5A	6 x S-56MF2E5A		6 x S-73MF2E5A
Current	SEER 2)			7,15	7,18	6,51	6,81	6,12
Name	η _{s,c}		%	277,7	278,9	252,7	264,4	237,7
Heating capacity kW 25,0 31,5 37,5 45,0 50,0 CDP 11 WW 5,25 5,17 4,51 4,21 4,17 SCOP 21 4,92 4,30 4,32 4,17 3,84 1,a 7,78 - 7,39 - 7,12 10,20 - 9,66 - 9,31 13,40 - 12,80 - 12,00 18,10 14,93 Current	Current		Α	7,16 - 6,80 - 6,55	9,90 - 9,41 - 9,07	3,19 - 13,20 - 12,70	18,20 - 17,30 - 16,70	21,30 - 20,20 - 19,50
COP ¹¹ W/W 5,25 5,17 4,51 4,21 4,17 SCOP ²¹ 4,92 4,30 4,32 4,17 3,84 Qurrent A 190,9 166,8 167,8 162,1 14,93 Current A 7,78-7,39-7,12 10,20-9,66-9,31 3,40-12,80-12,30 18,10-17,20-16,50 20,00-19,00-18,30 Input power kW 4,76 6,09 8,32 10,70 12,00 Starting current A 1,00 1,00 1,00 2,00 2,00 External static pressure (Max) Pa 80 80 80 80 80 Air flow m³/min 210 220 232 232 232 232 Sound pressure Mornal mode dB(A) 54,0 57,0 60,0 61,0 62,0 Sound power Normal mode dB(A) 76,0 78,0 81,0 82,0 82,0 Dimension HxWxD mm 1842x1180x1000 <t< td=""><td>Input power</td><td></td><td>kW</td><td>4,38</td><td>5,93</td><td>8,57</td><td>10,80</td><td>12,90</td></t<>	Input power		kW	4,38	5,93	8,57	10,80	12,90
SCOP 3 3,84 4,92 4,30 4,32 4,17 3,84	Heating capacity		kW	25,0	31,5	37,5	45,0	50,0
Name % 190,9 166,8 167,8 162,1 149,3 Current A 7,78-7,39-7,12 10,20-9,66-9,31 13,40-12,80-12,30 18,10-17,20-16,50 20,00-19,00-18,30 Input power kW 4,76 6,09 8,32 10,70 12,00 Starting current A 1,00 1,00 1,00 2,00 2,00 External static pressure (Max) Pa 80 80 80 80 80 Air flow m/min 210 220 232 232 232 Sound pressure Normal mode dB(A) 54,0 57,0 60,0 61,0 62,0 Sound power Normal mode dB(A) 51,0/49,0 54,0/52,0 57,0/55,0 58,0/56,0 59,0/57,0 Sound power Normal mode dB(A) 76,0 78,0 81,0 82,0 82,0 Net weight kg 261 262 286 334 334 334 Piping diameter kg	COP 1)		W/W	5,25	5,17	4,51	4,21	4,17
Current A 7,78 - 7,39 - 7,12 10,20 - 9,66 - 9,31 13,40 - 12,80 - 12,30 18,10 - 17,20 - 16,50 20,00 - 19,00 - 18,30 Input power kW 4,76 6,09 8,32 10,70 20,00 2,00 Starting current A 1,00 1,00 1,00 2,00 2,00 External static pressure (Max) Pa 80 80 80 80 80 Air flow m³/min 210 220 232 232 232 232 Sound pressure Mormal mode dB(A) 54,0 57,0 60,0 61,0 62,0 Sound power Normal mode dB(A) 51,0/49,0 54,0/52,0 57,0/55,0 58,0/56,0 59,0/57,0 Sound power Normal mode dB(A) 76,0 78,0 81,0 82,0 82,0 82,0 Dimension HxWxD mm 1842x1180x1000 1842x1180x1000 1842x1180x1000 1842x1180x1000 1842x1180x1000 1842x1180x1000 1842x1180x1000 1842x1180x100	SCOP 2)			4,92	4,30	4,32	4,17	3,84
Name	η _{s,h}		%	190,9	166,8	167,8	162,1	149,3
Starting current	Current		Α	7,78 - 7,39 - 7,12	10,20 - 9,66 - 9,31	13,40 - 12,80 - 12,30	18,10 - 17,20 - 16,50	20,00 - 19,00 - 18,30
External static pressure Max Pa 80 80 80 80 80 80 80 8	Input power		kW	4,76	6,09	8,32	10,70	12,00
Air flow m³/min 210 220 232	Starting current		Α	1,00	1,00	1,00	2,00	2,00
Sound pressure Normal mode dB(A) 54,0 57,0 60,0 61,0 62,0 Sound power Normal mode dB(A) 51,0/49,0 54,0/52,0 57,0/55,0 58,0/56,0 59,0/57,0 Sound power Normal mode dB(A) 76,0 78,0 81,0 82,0 82,0 Dimension HxWxD mm 1842x1180x1000 1842x1180x1000<	External static pres	sure (Max)	Pa	80	80	80	80	80
Sound pressure Silent mode 1 / 2 dBIA) 51,0 / 49,0 54,0 / 52,0 57,0 / 55,0 58,0 / 56,0 59,0 / 57,0 Sound power Normal mode dBIA) 76,0 78,0 81,0 82,0 82,0 Dimension HxWxD mm 1842x1180x1000 1842x1180x1000 <td>Air flow</td> <td></td> <td>m³/min</td> <td>210</td> <td>220</td> <td>232</td> <td>232</td> <td>232</td>	Air flow		m³/min	210	220	232	232	232
Signatur	C	Normal mode	dB(A)	54,0	57,0	60,0	61,0	62,0
Dimension HxWxD mm 1842x1180x1000 1842x180x1000 1842x1180x1000 1842x180x1000 1842x1180x1000 1842x1180x1000 1842x1180x1000 1842x180x1000 1842x180x1000 1842x180x1000 1842x180x1000 18	Sound pressure	Silent mode 1 / 2	dB(A)	51,0/49,0	54,0/52,0	57,0/55,0	58,0/56,0	59,0/57,0
Net weight kg 261 262 286 334 334 Piping diameter 3 Liquid pipe Inch (mm) 3/8(9,52)/1/2(12,70) 3/8(9,52)/1/2(12,70) 1/2(12,70)/5/8(15,88)	Sound power	Normal mode	dB(A)	76,0	78,0	81,0	82,0	82,0
Liquid pipe Inch Imm 3/8 5.2 1/2 1.2,70 3/8 5.2 1/2 1.2,70 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 15.88 1/2 1.2,70 5/8 1.2,70 1/2	Dimension	HxWxD	mm	1842 x 1180 x 1000				
Discharge pipe Inch (mm) 5/8 (15,88)/3/4 (19,05) /7/8 (22,22) 3/4 (19,05)/7/8 (22,22) 7/8 (22,22)/1 (25,40) 7/8 (22,22)/1 (25,40)	Net weight		kg	261	262	286	334	334
Suction pipe Inch [mm] 3/4 [19,05]/7/8 [22,22] 7/8 [22,22]/1 [25,40] 1 [25,40]/1-1/8 [28,58] 1 [25,40]/1-1/8 [28,58] 1-1/8 [28,58]/1-1/4 [31,7] Balance pipe Inch [mm] 1/4 [6,35] 1/4 [6,35] 1/4 [6,35] 1/4 [6,35] 1/4 [6,35] 1/4 [6,35] 1/4 [6,35] 1/4 [6,35] Refrigerant [R410A] / C ₂ , Eq. kg / T 6,80 / 14,1984 6,80 / 14,1984 8,30 / 17,3304 8,30 / 17,3304 8,30 / 17,3304 Maximum allowable indoor / outdoor capacity ratio % 50 ~ 150 50 ~ 150 50 ~ 150 50 ~ 150 Cool Min ~ Max °C -10 ~ +52 -10 ~ +52 -10 ~ +52 -10 ~ +52 Operating range Heat Min ~ Max °C -20 ~ +18 -20 ~ +18 -20 ~ +18 -20 ~ +18		Liquid pipe	Inch (mm)	3/8 (9,52) / 1/2 (12,70)	3/8(9,52)/1/2(12,70)	1/2(12,70)/5/8(15,88)	1/2(12,70)/5/8(15,88)	1/2(12,70)/5/8(15,88)
Suction pipe Inch (mm) 3/4(19,05)/7/8(22,22) 7/8(22,22)/1(25,40) 1(25,40)/1-1/8(28,58) 1(25,40)/1-1/8(28,58) 1-1/8(28,58)/1-1/4(31,7) Balance pipe Inch (mm) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) 1/4 (6,35) Refrigerant (R410A) / CO ₂ Eq. kg / T 6,80/14,1984 6,80/14,1984 8,30/17,3304 8,30/17,3304 8,30/17,3304 8,30/17,3304 Maximum allowable indoor / outdoor capacity ratio % 50~150 50~150 50~150 50~150 50~150 Cool Min ~ Max °C -10~+52 -10~+52 -10~+52 -10~+52 -10~+52 Operating range Heat Min ~ Max °C -20~+18 -20~+18 -20~+18 -20~+18 -20~+18	Dining diameter 3	Discharge pipe	Inch (mm)	5/8 (15,88) / 3/4 (19,05)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)	7/8 (22,22) / 1 (25,40)	7/8 (22,22) / 1 (25,40)
Refrigerant (R410A) / CO ₂ Eq. kg / T kg / T 6,80/14,1984 6,80/14,1984 8,30/17,330	Piping diameter 9	Suction pipe	Inch (mm)	3/4(19,05)/7/8(22,22)	7/8 (22,22) / 1 (25,40)	1 (25,40) / 1-1/8 (28,58)	1 (25,40) / 1-1/8 (28,58)	1-1/8(28,58)/1-1/4(31,75)
Maximum allowable indoor / outdoor capacity ratio % 50~150 <t< td=""><td></td><td>Balance pipe</td><td>Inch (mm)</td><td>1/4 (6,35)</td><td>1/4 (6,35)</td><td>1/4 (6,35)</td><td>1/4 (6,35)</td><td>1/4 (6,35)</td></t<>		Balance pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Cool Min ~ Max °C -10~+52 -10~+52 -10~+52 -10~+52 -10~+52 -10~+52 Operating range Heat Min ~ Max °C -20~+18 -20~+18 -20~+18 -20~+18 -20~+18	Refrigerant (R410A)	/ CO ₂ Eq.	kg / T	6,80/14,1984	6,80/14,1984	8,30/17,3304	8,30/17,3304	8,30/17,3304
Operating range Heat Min ~ Max °C -20~+18 -20~+18 -20~+18 -20~+18	Maximum allowable	indoor / outdoor capa	city ratio %	50~150	50~150	50~150	50~150	50~150
		Cool Min ~ Max	°C	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52
Simultaneous op. °C -10~+24 -10~+24 -10~+24 -10~+24 -10~+24	Operating range	Heat Min ~ Max	°C	-20~+18	-20~+18	-20~+18	-20~+18	-20~+18
		Simultaneous op.	°C	-10~+24	-10~+24	-10~+24	-10~+24	-10~+24

1) EER and COP calculation is based in accordance to EN14511. 2) SEER / SCOP is calculated based on the seasonal space cooling / heating efficiency "η" values of the COMMISSION REGULATION (EU) 2016/2281. SEER, SCOP = (η + Correction) × PEF. 3) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes). 4) Available for S-45/56/73/106MK2E5B.

Solenoid valve	kit	
	KIT-P56HR3	3-Pipe control solenoid valve kit (up to 5,6 kW)
KIT-P56HR3	CZ-P56HR3	Solenoid valve kit (up to 5,6 kW)
	CZ-CAPE2	3-Pipe control PCB
	KIT-P160HR3	3-Pipe control solenoid valve kit (from 5,6 to 16,0 kW)
KIT-P160HR3	CZ-P160HR3	Solenoid valve kit (from 5,6 kW to 16,0 kW)
	CZ-CAPE2	3-Pipe control PCB
CZ-CAPEK2 4)		3-Pipe control PCB for wall-mounted

3-Pipe control box kit										
CZ-P456HR3	4 ports 3 pipe box (up to 5,6 kW per port)									
CZ-P656HR3	6 ports 3 pipe box (up to 5,6 kW per port)									
CZ-P856HR3	8 ports 3 pipe box (up to 5,6 kW per port)									
CZ-P4160HR3	4 ports 3 pipe box (up to 16,0 kW per port)									

- · Achieving SCOP 4,92 as the top class in the industry (LOT21 Seasonal heating efficiency value for 8 HP outdoor unit)
- · Simultaneous cooling and heating operation with up to 39 indoor units
- · Slim heat recovery boxes with just 200 mm height fit with the ceiling space limited in hotel applications









Technical focus

- · High SEER / SCOP at full Load capacity (follows LOT21)
- · Eurovent certified EER / COP
- · Standardisation of outdoor unit to one compact casing size
- · Connection of up to 52 indoor units

- · High external static pressure 80 Pa with a newly designed fan, fan guard, motor, and casing
- · Silent outdoor unit operation: Minimum 54 dB(A) for 8 HP
- · Bluefin coil coating as standard

3-Pipe ECOi EX MF3 Series combination from 18 to 32 HP

HP			18 HP	20 HP	22 HP	24 HP	26 HP	28 HP	30 HP	32 HP
Outdoor unit			U-8MF3E8	U-8MF3E8	U-10MF3E8	U-12MF3E8	U-10MF3E8	U-12MF3E8	U-14MF3E8	U-16MF3E8
Outdoor unit			U-10MF3E8	U-12MF3E8	U-12MF3E8	U-12MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8
	Voltage	V	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Power supply	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	50,0	56,0	61,5	68,0	73,0	78,5	85,0	90,0
EER 1)		W/W	4,90	4,31	4,24	3,89	3,88	3,65	3,59	3,49
Current		Α	16,80-16,00-15,40	21,00-20,00-19,20	23,70-22,50-21,70	28,30-26,90-25,90	31,00-29,50-28,40	35,10-33,40-32,20	39,60-37,60-36,20	42,60-40,50-39,00
Input power		kW	10,20	13,00	14,50	17,50	18,80	21,50	23,70	25,8
Heating capacity		kW	56,0	63,0	69,0	76,5	81,5	87,5	95,0	100,0
COP 1)		W/W	5,23	4,77	4,79	4,47	4,50	4,31	4,19	4,17
Current		A	17,70-16,80-16,20	21,30-20,30-19,50	23,50-22,30-21,50	27,60-26,30-25,30	30,20-28,70-27,70	33,50-31,80-30,70	37,90-36,00-34,70	40,10-38,10-36,70
Input power		kW	10,70	13,20	14,40	17,10	18,10	20,30	22,70	24,00
Starting current		Α	2,00	2,00	2,00	2,00	3,00	3,00	4,00	4,00
External static pre	ssure (Max)	Pa	80	80	80	80	80	80	80	80
Air flow		m³/min	430	442	452	464	452	464	464	464
Sound pressure	Normal mode	dB(A)	59,0	61,0	62,0	63,0	63,5	64,5	64,5	65,0
Sound pressure	Silent mode 1 / 2	dB(A)	56,0/54,0	58,0/56,0	59,0/57,0	60,0/58,0	60,5/58,5	61,5/59,5	61,5/59,5	62,0/60,0
Sound power	Normal mode	dB(A)	81,5	84,0	84,5	86,0	84,5	86,0	86,0	86,0
Dimension	HxWxD	mm	1842 x 2360	1842 x 2360	1842 x 2360	1842 x 2360	1842 x 2360	1842 x 2360	1842 x 2360	1842 x 2360
			(+60) x 1000	(+60) x 1000	(+60) x 1000	(+60) x 1000	(+60) x 1000	(+60) x 1000	(+60) x 1000	(+60) x 1000
Net weight		kg	523	547	548	574	596	620	668	668
	Liquid pipe	Inch (mm)	5/8 (15,88) / 3/4 (19,05)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4 (19,05) / 7/8 (22,22)	3/4 (19,05) / 7/8 (22,22)			
			7/8 (22,22)/	7/8 (22,22)/	1 (25,40)/	1(25,40)/	1 (25,40)/	1-1/8 (28,58)/	1-1/8 (28,58)/	1-1/8 (28,58)/
Piping diameter 2)	Discharge pipe	Inch (mm)	1 (25,40)	1 (25,40)	1-1/8 (28,58)	1-1/8 (28,58)	1-1/8 (28,58)	1-1/4 (31,75)	1-1/4 (31,75)	1-1/4 (31,75)
pg	Suction pipe	Inch (mm)	1-1/8 (28,58)/	1-1/8 (28,58)/	1-1/8 (28,58)/	1-1/8(28,58)/	1-1/4 (31,75)/	1-1/4(31,75)/	1-1/4(31,75)/	1-1/4(31,75)/
	Suction pipe	inch (mm)	1-1/4(31,75)	1-1/4(31,75)	1-1/4 (31,75)	1-1/4 (31,75)	1-1/2 (38,10)	1-1/2 (38,10)	1-1/2 (38,10)	1-1/2 (38,10)
	Balance pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4(6,35)	1/4(6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410)	A) / CO ₂ Eq.	kg / T	13,60/28,3968	15,10/31,5288	15,10/31,5288	16,60/34,6608	15,10/31,5288	16,60/34,6608	16,60/34,6608	16,60/34,6608
Maximum allowabl	e indoor / outdoor ca		50 ~ 150	50~150	50~150	50~150	50~150	50 ~ 150	50~150	50~150
	Cool Min ~ Max	°C	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52
Operating range	Heat Min ~ Max	°C	-20~+18	-20~+18	-20~+18	-20~+18	-20~+18	-20~+18	-20~+18	-20~+18
	Simultaneous op.	°C	-10~+24	-10~+24	-10~+24	-10~+24	-10~+24	-10~+24	-10~+24	-10~+24

3-Pipe ECOi EX MF3 Series combination from 34 to 48 HP

HP			34 HP	36 HP	38 HP	40 HP	42 HP	44 HP	46 HP	48 HP
			U-8MF3E8	U-8MF3E8	U-10MF3E8	U-8MF3E8	U-10MF3E8	U-12MF3E8	U-14MF3E8	U-16MF3E8
Outdoor unit			U-10MF3E8	U-12MF3E8	U-12MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8
			U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8	U-16MF3E8
	Voltage	٧	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415	380 - 400 - 415
Power supply	Phase		Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
Power supply Power supply F Cooling capacity EER 11 Current Input power Heating capacity COP 11 Current Input power Starting current External static presst Air flow Sound pressure N Dimension H Net weight Piping diameter 21 S Refrigerant (R410A) / Maximum allowable in	Frequency	Hz	50	50	50	50	50	50	50	50
Cooling capacity		kW	96,0	101,0	107,0	113,0	118,0	124,0	130,0	135,0
EER 1)		W/W	4,10	3,90	3,88	3,72	3,72	3,58	3,55	3,49
Current		Α	38,60-36,70-35,40	42,30-40,20-38,70	45,60-43,30-41,70	50,20-47,70-46,00	52,40-49,70-47,90	56,50-53,70-51,80	61,10-58,10-56,00	63,90-60,70-58,50
Input power		kW	23,40	25,90	27,60	30,40	31,70	34,60	36,60	38,70
Heating capacity		kW	108,0	113,0	119,0	127,0	132,0	138,0	145,0	150,0
COP 1)		W/W	4,64	4,48	4,51	4,31	4,36	4,25	4,18	4,17
Current		A	38,90-37,00-35,60	41,60-39,50-38,10	43,60-41,40-39,90	49,30-46,80-45,10	50,60-48,10-46,30	53,70-51,00-49,10	57,90-55,00-53,00	60,10-57,10-55,00
Input power		kW	23,30	25,20	26,40	29,50	30,30	32,50	34,70	36,00
Starting current		A	4,00	4,00	4,00	5,00	5,00	5,00	6,00	6,00
External static pres	ssure (Max)	Pa	80	80	80	80	80	80	80	80
Air flow		m³/min	662	674	684	674	684	696	696	696
·	Normal mode	dB(A)	64,0	64,5	65,0	65,5	66,0	66,5	66,5	67,0
Sound pressure	Silent mode 1 / 2	dB(A)	61,0/59,0	61,5/59,5	62,0/60,0	62,5/60,5	63,0/61,0	63,5/61,5	63,5/61,5	64,0/62,0
Sound power	Normal mode	dB(A)	84,5	85,5	85,5	85,5	86,0	86,5	87,0	87,0
Dimension	HxWxD	mm	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000	1842 x 3540 (+120) x 1000
Net weight		kg	857	881	882	929	930	954	1002	1002
	Liquid pipe	Inch (mm)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)	3/4(19,05)/ 7/8(22,22)
nput power Starting current External static pres Air flow Sound pressure Sound power Dimension Net weight	Discharge pipe	Inch (mm)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/8 (28,58) / 1-1/4 (31,75)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/4(31,75)/ 1-1/2(38,10)
	Suction pipe	Inch (mm)	1-1/4(31,75)/ 1-1/2(38,10)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2(38,10)/ 1-5/8(41,28)	1-1/2 (38,10) / 1-5/8 (41,28)	1-1/2(38,10)/ 1-5/8(41,28)			
•	Balance pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4(6,35)	1/4(6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Refrigerant (R410A	A) / CO, Eq.	kg / T	21,90/45,72719	23,40/48,85919	23,40/48,85919	23,40/48,85919	23,40/48,85919	24,90/46,3536	24,90/51,9912	24,90/51,9912
Maximum allowable	e indoor / outdoor ca	pacity ratio %	50~150	50~150	50~150	50~150	50~150	50~150	50~150	50~150
	Cool Min ~ Max	°C	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52	-10~+52
Operating range	Heat Min ~ Max	°C	-20~+18	-20~+18	-20~+18	-20~+18	-20~+18	-20~+18	-20~+18	-20~+18
	Simultaneous op.	°C	-10~+24	-10~+24	-10~+24	-10~+24	-10~+24	-10~+24	-10~+24	-10~+24

¹⁾ EER and COP calculation is based in accordance to EN14511. 2) Piping diameter under 90 m for ultimate indoor unit / over 90 m for ultimate indoor unit (if the longest piping equivalent length exceeds 90 m, increase the sizes of the main tubes by 1 rank for gas tubes and liquid tubes).

Eurovent certified technical data

Panasonic's VRF systems - ECOi range is now certified by Eurovent*. The Eurovent certification verifies the performance ratings of heating and cooling systems following European standards. Data provides products efficiency with full transparency, for the benefit of customers and professionals.

Eurovent certified technical data: Mini EC0i LZ2 Series 4 to 10 HP \cdot R32

HP			4	HP	5	HP	6 1	HP.	8 HP	10 HP
Outdoor unit			U-4LZ2E5	U-4LZ2E8	U-5LZ2E5	U-5LZ2E8	U-6LZ2E5	U-6LZ2E8	U-8LZ2E8	U-10LZ2E8
Indoor units combin	ation		MU2							
	Pc out 13	kW	12,1	12,1	14,0	14,0	15,5	15,5	22,4	28,0
Cooling	Pec out 2]	kW	2,95	2,95	3,68	3,68	4,43	4,43	6,79	9,66
	EERout	MU	4,1	4,1	3,8	3,8	3,5	3,5	3,3	2,9
Outdoor unit Indoor units combination Cooling F Seasonal Cooling F Cooling PL F Condition B E Cooling PL F Condition C F Condition D F Seasonal Heating F Condition A C Heating PL F Condition B C Heating PL F Condition C F Condition B C F Seasonal Heating F Condition A C Heating PL F Condition B C F Condition C C Condition B C F Condition C C Condition C C F Condition C C Condition C C F Condition C C Condition C C Condition C C Condition C C F Condition D C P Seasonal Heating PL Condition C C Condition C C Condition C C Condition C C F Condition D C P Sound F Condition D C P Sound F Sound P S	SEER		8,5	8,5	8,1	8,1	7,7	7,7	7,6	7,1
Seasonal Cooling	η _{s,c}	%	337	337	322	322	305	305	299	280
Cooling PL	PcB	kW	8,9	8,9	10,3	10,3	11,4	11,4	16,5	20,6
Condition B	EERB		6,5	6,5	5,9	5,9	5,4	5,4	5,2	4,6
Cooling PL	PcC	kW	5,7	5,7	6,6	6,6	7,3	7,3	10,6	13,2
Condition C	EERC		11,3	11,3	10,8	10,8	10,2	10,2	9,6	8,7
Cooling PL	PcD	kW	5,4	5,4	5,6	5,6	5,8	5,8	9,0	9,5
Condition D	EERD		15,6	15,6	15,2	15,2	15,0	15,0	16,6	18,0
	Pdesignh	kW	10,0	10,0	11,2	11,2	11,6	11,6	17,5	19,6
Seasonal Heating	SC0P		5,1	5,1	4,6	4,6	4,6	4,6	4,6	4,6
-	η _{s,h}	%	199,0	199,0	181,4	181,4	180,6	180,6	180,6	181,0
Heating PL	PhA	kW	8,8	8,8	9,9	9,9	10,3	10,3	15,4	17,3
Condition A	COPA		3,1	3,1	2,9	2,9	2,9	2,9	2,9	2,8
Heating PL	PhB	kW	5,4	5,4	6,0	6,0	6,2	6,2	9,4	10,5
Condition B	COPB		4,8	4,8	4,1	4,1	4,1	4,1	4,2	4,2
Heating PL	PhC	kW	3,5	3,5	3,9	3,9	4,0	4,0	6,2	6,7
Condition C	COPC		7,2	7,2	7,2	7,2	7,1	7,1	6,9	7,1
Heating PL	PhD	kW	4,0	4,0	4,0	4,0	4,0	4,0	6,7	6,9
Condition D	COPD		9,1	9,1	9,3	9,3	9,3	9,3	8,7	9,2
	Tbiv	°C	-10	-10	-7	-7	-7	-7	-7	-7
T bivalent	PhTbiv	kW	10	10	10	10	10	10	15	17
	COPTbiv		2,5	2,5	2,9	2,9	2,9	2,9	2,9	2,8
Psbc		W	14	14	14	14	14	14	18	18
Psbh		W	18	18	18	18	18	18	26	26
Poffc		W	14	14	14	14	14	14	18	18
Poffh		W	18	18	18	18	18	18	26	26
Ptoc		W	14	14	14	14	14	14	18	18
Ptoh		W	18	18	18	18	18	18	26	26
Pckc		W	14	14	14	14	14	14	18	18
Pckh		W	18	18	18	18	18	18	26	26
Sound power level		dB(A)	69	69	70	70	72	72	72	74
Sound power level in	n heating	dB(A)	72	72	74	74	75	75	74	75

Eurovent certified technical data: Mini ECOi LE Series 4 to 10 HP · R410A

HP				41	НP			5	HP			6 1	НP		8 1	HP	10	HP
Outdoor unit			U-4L	E2E5	U-4L	E2E8	U-5L	E2E5	U-5L	E2E8	U-6L	E2E5	U-6L	E2E8	U-8L	E1E8	U-10L	LE1E8
Indoor units combin	ation		MF2	MU2														
	Pc out 13	kW	12,1	12,1	12,1	12,1	14	14	14	14	15,5	15,5	15,5	15,5	22,4	22,4	28	28
Cooling	Pec out 2]	kW	2,88	2,88	2,88	2,88	3,68	3,68	3,68	3,68	4,56	4,56	4,56	4,56	7,23	7,23	10,77	10,77
	EERout		4,2	4,2	4,2	4,2	3,8	3,8	3,8	3,8	3,4	3,4	3,4	3,4	3,1	3,1	2,6	2,6
Seasonal Cooling	SEER		7,8	7,8	7,8	7,8	7,5	7,5	7,5	7,5	7,2	7,2	7,2	7,2	6,3	6,3	6,4	6,4
Seasonal Cooling	$\eta_{s,c}$	%	311	311	311	311	296,2	296,2	296,2	296,2	286,8	286,8	286,8	286,8	247,9	247,9	251,8	251,8
Cooling PL	PcB	kW	8,9	8,9	8,9	8,9	10,3	10,3	10,3	10,3	11,4	11,4	11,4	11,4	16,5	16,5	20,6	20,6
Condition B	EERB		6,7	6,7	6,7	6,7	5,9	5,9	5,9	5,9	5,4	5,4	5,4	5,4	4,8	4,8	4,4	4,4
Cooling PL	PcC	kW	5,7	5,7	5,7	5,7	6,6	6,6	6,6	6,6	7,3	7,3	7,3	7,3	10,6	10,6	13,2	13,2
Condition C	EERC		12,1	12,1	12,1	12,1	11	11	11	11	10,2	10,2	10,2	10,2	7,8	7,8	8,2	8,2
Cooling PL	PcD	kW	2,7	2,7	2,7	2,7	2,9	2,9	2,9	2,9	3,4	3,4	3,4	3,4	8	8	9	9
Condition D	EERD		9,6	9,6	9,6	9,6	10,3	10,3	10,3	10,3	11,7	11,7	11,7	11,7	12,8	12,8	15,4	15,4
	Pdesignh	kW	10	10	10	10	12,5	12,5	12,5	12,5	13	13	13	13	17,5	17,5	19,6	19,6
Seasonal Heating	SCOP		4,9	4,9	4,9	4,9	4,4	4,4	4,4	4,4	4,2	4,2	4,2	4,2	4,2	4,2	4,3	4,3
	$\eta_{s,h}$	%	191,8	191,8	191,8	191,8	172,9	172,9	172,9	172,9	166,7	166,7	166,7	166,7	166,4	166,4	169,5	169,5
Heating PL	PhA	kW	8,8	8,8	8,8	8,8	11	11	11	11	11,5	11,5	11,5	11,5	15,4	15,4	17,3	17,3
Condition A	COPA		3,5	3,5	3,5	3,5	2,8	2,8	2,8	2,8	2,6	2,6	2,6	2,6	2,7	2,7	2,6	2,6
Heating PL	PhB	kW	5,3	5,3	5,3	5,3	6,7	6,7	6,7	6,7	7	7	7	7	9,4	9,4	10,5	10,5
Condition B	COPB		4,1	4,1	4,1	4,1	3,7	3,7	3,7	3,7	3,6	3,6	3,6	3,6	3,8	3,8	3,9	3,9
Heating PL	PhC	kW	3,4	3,4	3,4	3,4	4,3	4,3	4,3	4,3	4,5	4,5	4,5	4,5	6	6	6,7	6,7
Condition C	COPC		7,7	7,7	7,7	7,7	7,5	7,5	7,5	7,5	7,4	7,4	7,4	7,4	6,6	6,6	6,8	6,8
Heating PL	PhD	kW	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	4,4	6,4	6,4	6,6	6,6
Condition D	COPD		9,8	9,8	9,8	9,8	9,8	9,8	9,8	9,8	9,8	9,8	9,8	9,8	8,1	8,1	8,9	8,9
	Tbiv	°C	-10	-10	-10	-10	-9	-9	-9	-9	-7	-7	-7	-7	-7	-7	-7	7
T bivalent	PhTbiv	kW	10	10	10	10	12	12	12	12	11,5	11,5	11,5	11,5	15,4	15,4	17,3	17,3
	COPTbiv		2,9	2,9	2,9	2,9	2,6	2,6	2,6	2,6	2,6	2,6	2,6	2,6	2,7	2,7	2,6	2,6
Psbc		W	9	9	9	9	9	9	9	9	9	9	9	9	18	18	18	18
Psbh		W	33	33	33	33	33	33	33	33	33	33	33	33	48	48	48	48
Poffc		W	9	9	9	9	9	9	9	9	9	9	9	9	18	18	18	18
Poffh		W	33	33	33	33	33	33	33	33	33	33	33	33	48	48	48	48
Ptoc		W	33	33	33	33	33	33	33	33	33	33	33	33	48	48	48	48
Ptoh		W	33	33	33	33	33	33	33	33	33	33	33	33	48	48	48	48
Pckc		W	33	33	33	33	33	33	33	33	33	33	33	33	48	48	48	48
Pckh		W	33	33	33	33	33	33	33	33	33	33	33	33	48	48	48	48
PSB		W	33	33	33	33	33	33	33	33	33	33	33	33	48	48	48	48
Sound power level		dB(A)	69	69	69	69	71	71	71	71	73	73	73	73	79	79	83	83
Sound power level in	heating	dB(A)	72	72	72	72	75	75	75	75	75	75	75	75	83	83	84	84



Eurovent certified technical data: 2-Pipe EC0i EX ME2 Series 8 to 20 HP \cdot R410A

HP			8	HP.	10	HP	12	HP	14	HP	16	HP	18	HP	20	HP
Outdoor unit			U-8M	E2E8	U-10N	1E2E8	U-12N	1E2E8	U-14N	1E2E8	U-16N	1E2E8	U-18N	4E2E8	U-20N	1E2E8
Indoor units combin	ation		MF2	MU2												
	Pc out 1)	kW	19,7	19,7	24,6	24,6	33,5	33,5	40	40	45	45	50	50	56	56
Cooling	Pec out 2]	kW	5,79	5,79	8,79	8,79	11,55	11,55	13,33	13,33	18,75	18,75	17,86	17,86	23,33	23,33
	EERout		3,4	3,4	2,8	2,8	2,9	2,9	3	3	2,4	2,4	2,8	2,8	2,4	2,4
Concernal Continu	SEER		7,4	7,4	7	7	6,7	6,7	7,2	7,2	6,4	6,4	7,6	7,6	7	7
Seasonal Cooling	$\eta_{s,c}$	%	294,3	294,3	275,4	275,4	266,6	266,6	286	286	254,3	254,3	299,2	299,2	278,2	277
Cooling PL	PcB	kW	14,5	14,5	18,1	18,1	24,6	24,6	29,4	29,4	33,1	33,1	36,8	36,8	41,2	41,2
Condition B	EERB		5,7	5,7	4,8	4,8	4,6	4,6	4,9	4,9	4,2	4,2	5	5	4,6	4,6
Cooling PL	PcC	kW	9,3	9,3	11,6	11,6	15,8	15,8	18,9	18,9	21,3	21,3	23,6	23,6	26,5	26,5
Condition C	EERC		11,8	11,8	9,6	9,6	8,1	8,1	9,4	9,4	8,2	8,2	9,8	9,8	9	9
Cooling PL	PcD	kW	8,2	8,2	9,3	9,3	8,2	8,2	8,4	8,4	9,4	9,4	10,5	10,5	11,7	11,7
Condition D	EERD		13,7	13,7	18,9	18,9	18,4	18,4	22,6	22,6	22,1	22,1	25,2	25,2	24,6	24,6
	Pdesignh	kW	17,5	17,5	22	22	26,2	26,2	31,5	31,5	35	35	39,2	39,2	44,1	44,1
Seasonal Heating	SCOP		4,8	4,8	4,3	4,3	4,7	4,7	4,3	4,3	4,1	4,1	4,3	4,3	4,1	4,1
	$\eta_{s,h}$	%	188,4	188,4	167,6	167,6	185,8	185,8	168,2	168,2	159	159	168,7	168,7	160,4	161
Heating PL	PhA	kW	15,4	15,4	19,4	19,4	23,1	23,1	27,8	27,8	30,9	30,9	34,6	34,6	39	39
Condition A	COPA		2,8	2,8	2,6	2,6	2,8	2,8	2,5	2,5	2,3	2,3	2,6	2,6	2,4	2,4
Heating PL	PhB	kW	9,4	9,4	11,8	11,8	14,1	14,1	16,9	16,9	18,8	18,8	21,1	21,1	23,7	23,7
Condition B	COPB		4,5	4,5	3,6	3,6	4,2	4,2	3,7	3,7	3,6	3,6	3,7	3,7	3,5	3,5
Heating PL	PhC	kW	6	6	7,6	7,6	9	9	10,9	10,9	12,1	12,1	13,5	13,5	15,2	15,2
Condition C	COPC		7,2	7,2	7,7	7,7	7,7	7,7	7,4	7,4	6,6	6,6	7,1	7,1	6,9	6,9
Heating PL	PhD	kW	7,1	7,1	7	7	7,2	7,2	6,7	6,7	6,6	6,6	7,4	7,4	7,4	7,4
Condition D	COPD		8,9	8,9	9,6	9,6	9,3	9,3	10,2	10,2	10	10	10,3	10,3	10,3	10,3
	Tbiv	°C	-9	-9	-7	-7	-9	-9	-7	-7	-7	-7	-7	-7	-7	-7
T bivalent	PhTbiv	kW	16,8	16,8	19,4	19,4	25,1	25,1	27,8	27,8	30,9	30,9	34,6	34,6	39	39
	COPTbiv		2,6	2,6	2,6	2,6	2,6	2,6	2,5	2,5	2,3	2,3	2,6	2,6	2,4	2,4
Psbc		W	48	48	48	48	48	48	88	88	88	88	88	88	88	88
Psbh		W	48	48	48	48	48	48	88	88	88	88	88	88	88	88
Poffc		W	48	48	48	48	48	48	88	88	88	88	88	88	88	88
Poffh		W	48	48	48	48	48	48	88	88	88	88	88	88	88	88
Ptoc		W	48	48	48	48	48	48	88	88	88	88	88	88	88	88
Ptoh		W	48	48	48	48	48	48	88	88	88	88	88	88	88	88
Pckc		W	48	48	48	48	48	48	88	88	88	88	88	88	88	88
Pckh		W	48	48	48	48	48	48	88	88	88	88	88	88	88	88
PSB		W	48	48	48	48	48	48	88	88	88	88	88	88	88	88
Sound power level		dB(A)	80	80	81	81	85	85	86	86	87	87	86	86	86	86
Sound power level in	n heating	dB(A)	81	81	84	84	85	85	85	85	89	89	89	89	89	89

Eurovent certified technical data: 3-Pipe EC0i EX MF3 Series 8 to 16 HP \cdot R410A

HP			81		10	HP	12	HP	14	HP	16	HP
Outdoor unit			U-8M	F3E8	U-10N	1F3E8	U-12N	4F3E8	U-14N	4F3E8	U-16N	1F3E8
Indoor units combin	nation		MF2	MU2	MF2	MU2	MF2	MU2	MF2	MU2	MF2	MU2
	Pc out 1)	kW	22,4	22,4	28	28	33,5	33,5	40	40	45	45
Cooling	Pec out 2]	kW	7,23	7,23	10,77	10,77	12,88	12,88	15,38	15,38	19,57	19,57
-	EERout		3,1	3,1	2,6	2,6	2,6	2,6	2,6	2,6	2,3	2,3
C C :	SEER		7	7	7	7	6,4	6,4	6,7	6,7	6	6
Seasonal Cooling	$\eta_{s,c}$	%	277	277,7	278,9	278,9	252,7	252,7	264,4	264,4	237,7	237,7
Cooling PL	PcB	kW	16,5	16,5	20,6	20,6	24,6	24,6	29,4	29,4	33,1	33,1
Condition B	EERB		4,9	4,9	4,6	4,6	4,3	4,3	4,4	4,4	3,9	3,9
Cooling PL	PcC	kW	10,6	10,6	13,2	13,2	15,8	15,8	18,9	18,9	21,3	21,3
Condition C	EERC		9,1	9,1	9,3	9,3	7,7	7,7	8,3	8,3	7,4	7,4
Cooling PL	PcD	kW	7,2	7,2	8,5	8,5	7,1	7,1	8,5	8,5	9,4	9,4
Condition D	EERD		16,5	16,5	19,7	19,7	15,7	15,7	19,7	19,7	17,4	17,4
	Pdesignh	kW	17,5	17,5	22	22	26,2	26,2	31,5	31,5	35	35
Seasonal Heating	SCOP		4,8	4,8	4,2	4,2	4,3	4,3	4,1	4,1	3,8	3,8
	$\eta_{s,h}$	%	189	190,9	166,8	166,8	167,8	167,8	162,1	162,1	149,3	149,3
Heating PL	PhA	kW	15,4	15,4	19,4	19,4	23,1	23,1	27,8	27,8	30,9	30,9
Condition A	COPA		2,9	2,9	2,5	2,5	2,7	2,7	2,4	2,4	2,2	2,2
Heating PL	PhB	kW	9,4	9,4	11,8	11,8	14,1	14,1	16,9	16,9	18,8	18,8
Condition B	COPB		4,6	4,6	3,7	3,7	3,7	3,7	3,6	3,6	3,3	3,3
Heating PL	PhC	kW	6	6	7,6	7,6	9	9	10,9	10,9	12,1	12,1
Condition C	COPC		7,1	7,1	7,4	7,4	6,9	6,9	7,1	7,1	6,5	6,5
Heating PL	PhD	kW	6,7	6,7	6,9	6,9	6,5	6,5	6,6	6,6	6,6	6,6
Condition D	COPD		8,7	8,7	9,4	9,4	9	9	9,6	9,6	9,6	9,6
	Tbiv	°C	-9	-9	-7	-7	-9	-9	-7	-7	-7	-7
T bivalent	PhTbiv	kW	16,8	16,8	19,4	19,4	25,1	25,1	27,8	27,8	30,9	30,9
	COPTbiv		2,6	2,6	2,5	2,5	2,3	2,3	2,4	2,4	2,2	2,2
Psbc		W	17	17	17	17	17	17	25	25	25	25
Psbh		W	50	50	50	50	50	50	91	91	91	91
Poffc		W	17	17	17	17	17	17	25	25	25	25
Poffh		W	50	50	50	50	50	50	91	91	91	91
Ptoc		W	17	17	17	17	17	17	25	25	25	25
Ptoh		W	50	50	50	50	50	50	91	91	91	91
Pckc		W	50	50	50	50	50	50	91	91	91	91
Pckh		W	50	50	50	50	50	50	91	91	91	91
PSB		W	50	50	50	50	50	50	91	91	91	91
Sound power level		dB(A)	79	79	80	80	84	84	86	86	86	86
Sound power level in	n heating	dB(A)	77	77	82	82	86	86	86	86	88	88

ECO G, the gas driven VRF

ECO G

The advanced Gas Driven VRF system offers increased efficiency and performance across the range.

Improvements include increased part load performance, reduced gas consumption with a Miller-cycle engine and reduced electrical consumption by using DC-Fan motors.



R410A

Limited electric supply

Electric consumption of ECO G is only 9 % compared to ECOi because gas engine is utilized for the compressor driving force.

High demand of DHW with heating and cooling cogeneration

DHW is produced effectively thanks to heat from engine exhaust during heating and cooling.

Open and flexible design

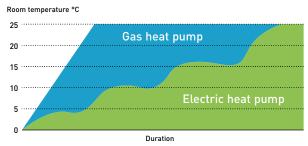
ECO G system is designed to connect various Indoor units and controllers which are available for ECOi systems. With GE3 series, Pump Down system has been implemented to answer commercial needs.

Quick start up in heating at low ambient temperature

Gas heat pump systems make your building comfortably warm with a quick start by using waste heat from engine.

Heating mode works from and ambient temperature of -21 $^{\circ}$ C.

Comparison of heating capacity.







2-Pipe ECO G GE3 Series

Designed for better energy efficiency. SEER has been increased by up to 120 %.

3-Pipe ECO G GF3 Series

Domestic hot water can be supplied by effectively using waste heat generated by heating and cooling.

GE3/GF3 connectable indoor units

Туре	Model number reference	2-Pipe ECO G GE3 Series	3-Pipe ECO G GF3 Series	
Standard A2A indoor units	_	Yes 1]	Yes 1)	
Water heat exchanger	PAW-250/500W(P)5G	Yes ²⁾	No	
High static pressure hide-away	S-ME2E5	Yes	No	
Heat recovery with DX coil PAW-ZDX3N		Yes	Yes	
Air curtain with DX coil	PAW-EAIRC-HS/LS	Yes	Yes ³⁾	
AHU connection kit	PAW-MAH2/M/L	Yes	Yes 3	

1) Except for 1,5 kW capacity. 2) Allowed 1:1 and also mixed. If mixed, not operate at the same time WHE + DX only operate separately. 3) Smaller capacity than 16 kW only.

ECO G, the gas driven VRF

ECO G satisfies special requirements for your application and offers an environmentally friendly solution with Panasonic professional technology, providing reliable quality given its long development history, since 1985.

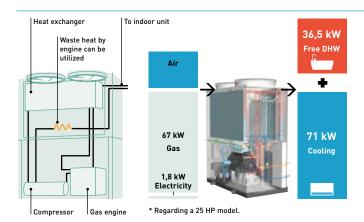
200.000

GHP outdoor units were sold in all over the world

Our ECO G VRF range of commercial systems is leading the industry in the development of efficient and flexible systems.



1985
Introduces first
GHP (Gas Heat
Pump) VRF air
conditioner.



What is GHP? The Gas Heat Pump (GHP)

Panasonic Gas Heat Pump is a direct expansion system, with a compressor the same as the VRF system. A Gas engine is used as the driving source of the compressor instead of an electric motor. This gas engine compressor drive has 2 advantages:

- 1 | Waste heat from the gas engine available.
- 2 | No need for motor power consumption thanks to gas engine.

GHP is the natural choice for commercial projects, especially for those projects where power restrictions apply.

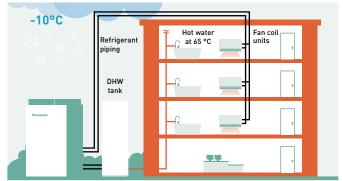
Power supply problems?

If you are short of electric power, our ECO $\ensuremath{\mathsf{G}}$ is a perfect solution.

- \cdot Runs on natural gas or LPG and just needs single phase supply
- · Enables the building's electrical power supply to be used for other critical electrical demands
- Reduces capital cost to upgrade power substations to run heating and cooling systems
- Reduces power loadings within a building especially during peak periods
- Electricity supply freed up for other uses such as IT servers, commercial refrigeration, manufacturing, lighting, etc...

Limited electricity area. Comparison of electrical consumption on a 71 kW outdoor unit. 20,00 15,00 Less than 9 % of electrical consumption 5,00 19,2 kW 1,8 kW

Application example: Hotel.



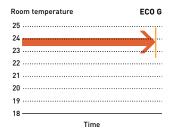
No need additional electric heaters. * This scheme is also valid with WHE.

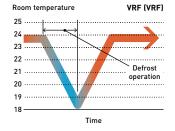
High demand of domestic hot water in heating and cooling

The rejected heat from the engine is available for DHW production and can supply up to 46 kW of hot water at 65 °C. DHW at 65 °C is also ready to use in heating without additional electric heaters.

Quick start up and great heating capacity at low ambient temperature

Waste heat from gas engine is utilized to raise temperature quicker then electric VRF system. This contributes great heating capacity at extremely low ambient temperature.





Lowest nitrogen oxide emissions.

The ECO G VRF systems have low nitrogen oxide emissions. In a pioneering development, the Panasonic ECO G features a brand lean-burn combustion system that utilizes air fuel ratio feedback control to reduce NOx emissions to an all time low.

Water chiller option.

Our ECO G system is also available with a water chiller option, which can be combined with individual outdoor units or as part of a DX chilled water mix of indoor units. The system can be operated via a BMS system or a Panasonic supplied control panel, with chilled water set points from

-15 °C ~ +15 °C and heating set points 35 °C ~ +55 °C.

Application

Application	Condition) G
Hotel	High DHW demand Needs to warm up swimming pool		F
Hotel			Energy recovery of ECO G system can fulfill different requiremen
Office	Quick start up is necessary	~	Speed of start up is quicker than VRF system
Winery	1) Outlet water demand at specific temperature 2) Needs high amount of power temporary (not every month)	V	 Chiller application with hydro module (ECO G + WHE) can make this special process Running cost can be saved since fixed Gas tariff per month is cheaper than fixed electric tariff.
Any building	In a city with power restriction	~	- No need an additional power transformer - Space and cost can be saved
, ,	At extremely low ambient condition	~	Heating capacity is kept up to -20 °C without defrost process

Project case studies



Savills HQ Dublin and Google Block R. Ireland.

ECO G 3-way units with a 243 kW load. The project has been such a success that it has recently been awarded a Panasonic PRO Award for Best Contribution of efficient projects within Europe.



Thomas Cook's Sunprime Atlantic View resort.

A holiday resort in the Canaries. Spain. 229 rooms plus full spa and swimming pool facility.



CAPITA call centre. UK. 11 ECO G 3-way units.

11 ECO G 3-way units.
Over 150 indoor units in meeting rooms and open-plan areas.
Intelligent touch screen controller, the CZ-256ESMC2.



French winery Gennevilliers, France.

ECO G 3-way units. One of the best solution utilized our ECO G solution for wine production process.

ECO G 3 Series

Introducing ECO G 3 Series.

Optimised energy saving with reliable Panasonic technologies.

Improvement in blast efficiency

3-blades fan.

Propeller shape with 3 blades is more efficient
Max. 30 % of fan electrical consumption is saved compared to conventional fan.





"L" type heat exchanger

Heat exchanger surface area is included by 25 % compared to conventional model to optimise efficiency.

Heat exchanger surface area $25\,\%$ up





Heat exchange

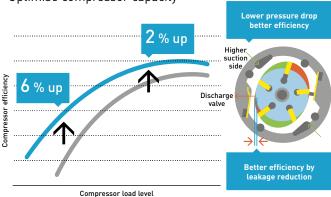
Better partial load control

Reduce start / stop loss has reduced by expanding the are where continuous operation is possible. Annual operation efficiency has further improved by better efficiency at lower partial load.

Compressor.

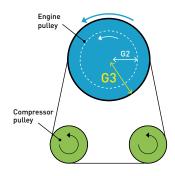
 Amount of internal leakage has reduced by the reduction of clearance, the compressor efficiency in the low load and low rotation region has been greatly improved.
 Moreover, efficiency of high speed and high load is also improved by reduction of suction pressure loss due to expansion of suction path

· Optimise compressor capacity



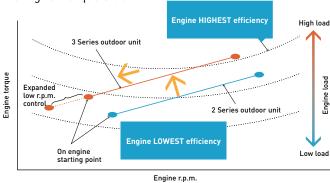
Engine pulley.

· Bigger diameter of engine pulley contributes the optimisation of the compressor rotation speed ratio with engine speed Higher engine pulley diameter giving better performance at partial load and reducing ON / OFF operation.



Engine

- · Continuous operation area has expanded at lower partial load by expanding operation area of lower speed
- Engine efficiency has improved by shifting output points to higher torque side



Line up of GE3 2-Pipe W-Multi.

- · For new or renewal
- Available for water heat exchanger
- Maximum 60 HP combination



The highest seasonal performance in all capacity ranges

High power efficiency of W-Multi system.

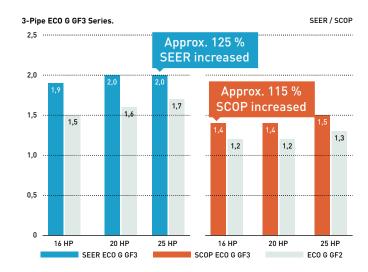
ECO G 3 Series system offers seasonal efficiency which has been drastically improved with the heat exchanger design, blast efficiency, partial load control.

2-Pipe ECO G GE3 Series. SEER / SCOP 2.5 Approx. 120 % **SEER increased** 2,0 Approx. 110 % **SCOP** increased 1,7 1,5 1,2 1,2 1,0 0,5 16 HP 20 HP 16 HP 25 HP 30 HP 25 HF 30 HP 20 HP SCOP ECO G GE3 SEER ECO G GE3 ECO G GE2

* Comparison under Panasonic condition follows EN14825.

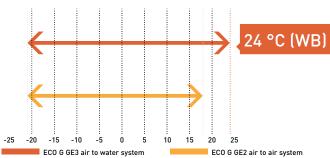
Compared to conventional model ECO G 2 Series.

All models are newly developed and have maximum 25 % of SEER, 15 % of SCOP better than conventional model.



Heating design operation conditions (GE3)

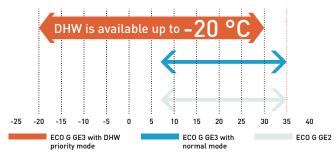
Operating range in heating has been expanded up to 24 $^{\circ}$ C (WB) for air to water system to meet the demand of swimming pool application.



Heating operating range: Air to water system: -21 \sim +24 °C (WB), air to air system: -21 \sim +18 °C (WB).

DHW priority mode setting in heating (GE3)

Ambient temperature range for DHW production is expandable by setting depending on DHW needs. Hot water at 65 °C is available in heating without additional electric heaters.



Heating: Outside air temperature °C (WB).

* In normal mode, heat from engine exhaust is used for preventing defrost

No defrost requirement (GE3 / GF3)

No defrost mode is selectable to get higher capacity under low ambient temperature.

Flexible design with wide line up of indoor units

The advanced GE3 Series can connect up to 64 indoor units.

Series	16 HP	20 HP	25 HP	30 HP	32 HP	36 HP	40 HP	45 HP	50 HP	55 HP	60 HP
2-Pipe ECO G GE3 Series	26	33	41	50	52	59	64	64	64	64	64
3-Pipe ECO G GF3 Series	24	24	24	_	_	_	_	_	_	_	_



2-Pipe ECO G GE3 Series

The GE3 Series has a top level of seasonal efficiency in this category. In addition, this product fits with special needs for commercial application thanks to DHW priority setting and auto Pump Down functions.

HP			16 HP	20 HP	25 HP	30 HP
Outdoor unit			U-16GE3E5	U-20GE3E5	U-25GE3E5	U-30GE3E5
	Voltage	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Power supply	Phase		Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50
Cooling capacity		kW	45,0	56,0	71,0	85,0
Refrigeration load Pdesign		kW	45,0	56,0	71,0	85,0
η _{s,c} (L0T21)		%	220,60	219,30	240,10	229,30
Input power		kW	1,17	1,12	1,80	1,80
Hot water in cooling mode (at	65 °C outlet)	kW	23,60	29,10	36,40	46,00
Max COP in hot water		W/W	1,55	1,55	1,49	1,47
Gas consumption cooling		kW	41,10	52,10	67,20	84,10
	Standard	kW	50,0	63,0	80,0	95,0
Heating capacity	Low temperature	kW	53,0	67,0	78,0	90,0
Refrigeration load Pdesign		kW	37,0	53,0	60,0	65,0
η _{s,h} (L0T21)		%	150,60	143,70	146,90	151,30
Input power		kW	0,56	1,05	0,91	1,75
0 ': ' ':	Standard	kW	38,00	51,10	68,60	75,30
Gas consumption heating	Low temperature	kW	45,40	62,70	60,70	73,90
Starter amperes		Α	30	30	30	30
External static pressure		Pa	10	10	10	10
Air flow		m³/min	370	420	460	460
S 1	Normal	dB(A)	80	80	84	84
Sound power	Silent mode	dB(A)	77	77	81	81
Dimension	HxWxD	mm	2255 x 1650 x 1000	2255 x 1650 x 1000	2255 x 2026 x 1000	2255 x 2026 x 100
Net weight		kg	765	765	870	880
-	Liquid pipe	Inch (mm)	1/2(12,70)	5/8 (15,88)	5/8 (15,88)	3/4 (19,05)
	Gas pipe	Inch (mm)	1-1/8 (28,58)	1-1/8 (28,58)	1-1/8 (28,58)	1-1/4 (31,75)
Piping diameter	Fuel gas	Inch (mm)	19,05 (R3/4)	19,05 (R3/4)	19,05 (R3/4)	19,05 (R3/4)
	Exhaust drain port	mm	25	25	25	25
	Hot water supply in/ou	t	Rp3/4 (Nut, thread)	Rp3/4 (Nut, thread)	Rp3/4 (Nut, thread)	Rp3/4 (Nut, threa
Elevation difference (in / out)			50	50	50	50
Refrigerant (R410A) / CO, Eq.		kg / T	11,50/24,00	11,50/24,00	11,50/24,00	11,50/24,00
Maximum number of connecta	able indoor units		26	33	41	50
0 ':	Cool Min ~ Max	°C (DB)	-10~+43	-10~+43	-10~+43	-10~+43
Operating range	Heat Min ~ Max	°C (WB)	-21~+18	-21~+18	-21~+18	-21~+18

Hot water take out function added, EU safety regulation standard cleared. 25 HP chassis enlarged due to specification improvement. Pre-coat corrosion fin. Auto Pump Down function.

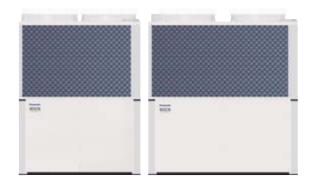
Technical focus

- \cdot Superior seasonal energy efficiency, maximum 240,1 %
- · DHW priority setting
- Operating range in heating down to -21 °C and up to +24 °C for air to water system
- · No defrost cycle

- \cdot Capacity ratio 50 ~ 200 % $^{1)}$
- · Option of DX or chilled water for indoor heat exchange
- · Maximum total piping length: 780 m

1) 50 ~ 200 % only when one outdoor unit is installed. In other cases 50 ~ 130 %.





2-Pipe ECO G GE3 Series combination from 32 to 60 HP

The GE3 Series has a top level of seasonal efficiency in this category. In addition, this product fits with special needs for commercial application thanks to DHW priority setting and Auto Pump Down functions.

HP			32 HP	36 HP	40 HP	45 HP	50 HP	55 HP	60 HP
			U-16GE3E5	U-16GE3E5	U-20GE3E5	U-20GE3E5	U-25GE3E5	U-25GE3E5	U-30GE3E5
Outdoor unit			U-16GE3E5	U-20GE3E5	U-20GE3E5	U-25GE3E5	U-25GE3E5	U-30GE3E5	U-30GE3E5
	Voltage	٧	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Power supply	Phase		Single phase						
	Frequency	Hz	50	50	50	50	50	50	50
Cooling capacity		kW	90,0	101,0	112,0	127,0	142,0	156,0	170,0
Input power		kW	2,34	2,29	2,24	2,92	3,60	3,60	3,60
Hot water in cooling	g mode (at 65 °C outlet)	kW	47,20	52,70	58,20	65,50	72,80	82,40	92,00
Max COP in hot wat	er	W/W	1,55	1,55	1,55	1,52	1,49	1,48	1,47
Gas consumption co	poling	kW	82,20	93,20	104,20	119,30	134,40	151,30	168,20
11 - 12 - 25	Standard	kW	100,0	113,0	126,0	143,0	160,0	175,0	190,0
Heating capacity	Low temperature	kW	106,0	120,0	134,0	145,0	156,0	168,0	180,0
Input power		kW	1,12	1,61	2,10	1,96	1,82	2,66	3,50
Gas consumption	Standard	kW	76,00	89,10	102,20	119,70	137,20	143,90	150,60
heating	Low temperature	kW	90,80	108,10	125,40	123,40	121,40	134,60	147,80
Starter amperes		Α	30	30	30	30	30	30	30
External static pres	sure	Pa	10	10	10	10	10	10	10
Air flow		m³/min	370/370	370/420	420/420	420/460	460/460	460/460	460/460
6 1	Normal	dB(A)	83	83	83	86	87	87	87
Sound power	Silent mode	dB(A)	80	80	80	83	84	84	84
	Height	mm	2255	2255	2255	2255	2255	2255	2255
Dimension	\A/: - + -		1650 + 100	1650 + 100	1650 + 100	1650+100	2026 + 100	2026 + 100	2026 + 100
Dimension	Width	mm	+ 1650	+1650	+1650	+2026	+2026	+2026	+2026
	Depth	mm	1000	1000	1000	1000	1000	1000	1000
Net weight		kg	1530 (765 + 765)	1530 (765 + 765)	1530 (765 + 765)	1635 (765 + 870)	1740 (870 + 870)	1750 (870 + 880)	1760 (880 + 880)
	Liquid pipe	Inch (mm)	3/4(19,05)	3/4 (19,05)	3/4 (19,05)	3/4(19,05)	3/4 (19,05)	7/8 (22,22)	7/8 (22,22)
	Gas pipe	Inch (mm)	1-1/4(31,75)	1-1/4 (31,75)	1-1/2 (38,10)	1-1/2 (38,10)	1-1/2 (38,10)	1-1/2 (38,10)	1-1/2 (38,10)
Dining diameter	Fuel gas	Inch (mm)	19,05 (R3/4)	19,05(R3/4)	19,05 (R3/4)				
Piping diameter	Exhaust drain port	mm	25	25	25	25	25	25	25
	Hat water average in to		Rp3/4 (Nut,						
	Hot water supply in/o	out	thread)						
Elevation difference (in / out)		50	50	50	50	50	50	50	
Refrigerant (R410A)) / CO ₂ Eq.	kg / T	2x11,50/24,00	2x11,50/24,00	2x 11,50/24,00	2x11,50/24,00	2x11,50/24,00	2x 11,50/24,00	2x11,50/24,00
Maximum number o	of connectable indoor un	its	52	59	64	64	64	64	64
0	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43
Operating range	Heat Min ~ Max	°C	-21~+18	-21~+18	-21~+18	-21~+18	-21~+18	-21~+18	-21~+18

Data is for reference. Hot water take out function added, EU safety regulation standard cleared. 25 HP chassis enlarged due to specification improvement. Pre-coat corrosion fin. Auto Pump Down function.

Technical focus

- · Maximum 60 HP combination
- · Superior seasonal energy efficiency, maximum 240,1 %
- · DHW priority setting
- · Operating range in heating down to -21 °C and up to
 - +24 °C for air to water system

- · No defrost cycle
- · Option of DX or chilled water for indoor heat exchange
- · Maximum total piping length: 780 m





3-Pipe ECO G GF3 Series

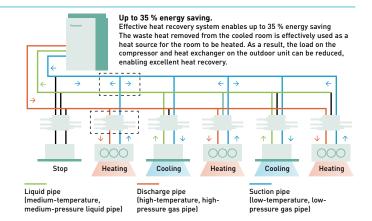
Excellent performance and free domestic hot water

Panasonic 3-Pipe Multi system is capable of simultaneous heating / cooling and individual operation of each indoor unit by only one outdoor unit. As a result, efficient individual air conditioning is possible in buildings having diverse room temperatures.

In addition, domestic hot water is created for free in cooling mode without additional boilers or electric heaters.

System example.

Improved maintenance intervals. The unit only needs to be serviced every 10000 hours. This is the best in the industry.





VIT DE LUDO

KIT-P56HR3 (CZ-P56HR3 + CZ-CAPE2).

KIT-P160HR3 (CZ-P160HR3 + CZ-CAPE2).

CZ-P56HR3 Up to 5,6 kW. CZ-P160HR3 Up to 16,0 kW.



Solenoid valve kit

To be fitted on all 'zones' to allow simultaneous heating and cooling. Up to 24 indoor units are capable of simultaneous heating / cooling operation. Oil-recovery operation to gives more stable comfort air-conditioning control.

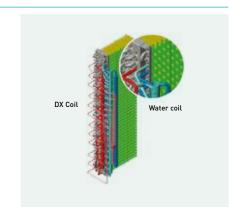
Power supply problems?

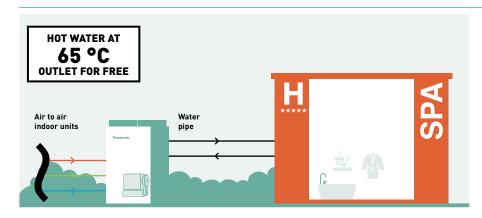
If you are short of electrical power, our gas heat pump could be the perfect solution:

- · Runs on natural gas or LPG and just needs Single phase supply
- Enables the building's electrical power supply to be used for other critical electrical demands
- Reduces capital cost to upgrade power substations to run heating and cooling systems
- Reduces power loadings within a building especially during peak periods
- Electricity supply freed up for other uses such as IT servers, commercial refrigeration, manufacturing, lighting etc.

ECO G outdoor heat exchanger.

- · Integrated DX and hot water coil
- · No defrost required
- · Faster reaction to demand for heating





DHW production in heating and cooling

Free DHW is available 365 days a year, in all seasons. Hot water is produced effectively from waste heat from engine.

Perfect solution for hotel projects required high demand of hot water.

HP	Free DHW (in cooling mode)
16 HP	23,6 kW
20 HP	27,1 kW
25 HP	40,5 kW



3-Pipe ECO G GF3 Series

DHW available in all seasons.

Effective production of domestic hot water from engine waste heat in both heating and cooling, all year round.

HP			16 HP	20 HP	25 HP
Outdoor unit			U-16GF3E5	U-20GF3E5	U-25GF3E5
	Voltage	V	220 - 230 - 240	220 - 230 - 240	220 - 230 - 240
Power supply	Phase		Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50
Cooling capacity		kW	45,0	56,0	71,0
Refrigeration load Pdesign		kW	45,0	56,0	71,0
η _{s,c} (L0T21)		%	185,20	198,80	204,90
Input power		kW	1,17	1,40	1,80
Hot water in cooling mode (at	65 °C outlet)	kW	23,60	27,10	40,50
Gas consumption cooling		kW	45,80	54,80	73,70
Heating conscitu	Standard	kW	50,0	63,0	80,0
Heating capacity	Low temperature	kW	53,0	67,0	78,0
Refrigeration load Pdesign		kW	38,0	52,0	60,0
η _{s,h} (L0T21)		%	139,20	140,20	150,90
Input power		kW	0,56	1,05	0,91
Gas consumption heating	Standard	kW	42,20	51,10	68,60
Starter amperes		A	30	30	30
Air flow		m³/min	370	400	460
Cd	Normal	dB(A)	80	81	84
Sound power	Silent mode	dB(A)	77	78	81
Dimension	HxWxD	mm	2255 x 1650 x 1000	2255 x 1650 x 1000	2255 x 2026 x 1000
Net weight		kg	775	775	880
	Liquid pipe	Inch (mm)	3/4(19,05)	3/4 (19,05)	3/4 (19,05)
	Gas pipe	Inch (mm)	1 1/8 (28,58)	1 1/8 (28,58)	1 1/8 (28,58)
Dining diagraphs	Discharge	Inch (mm)	7/8 (22,22)	1 (25,40)	1 (25,40)
Piping diameter	Fuel gas	Inch (mm)	19,05 (R3/4)	19,05(R3/4)	19,05 (R3/4)
	Exhaust drain port	mm	25	25	25
	Hot water supply in/	out	Rp3/4 (Nut, thread)	Rp3/4 (Nut, thread)	Rp3/4 (Nut, thread)
Elevation difference (in / out)		m	50	50	50
Refrigerant (R410A) / CO, Eq.		kg / T	11,50/24,00	11,50/24,00	11,50/24,00
Maximum number of connecta	able indoor units		24	24	24
0	Cool Min ~ Max	°C	-10~+43	-10~+43	-10~+43
Operating range	Heat Min ~ Max	°C	-21~+18	-21~+18	-21~+18

Hot water take out function added, EU safety regulation standard cleared. 25 HP chassis enlarged due to specification improvement. Pre-coat corrosion fin. Auto Pump Down function.

Solenoid valve kit							
	KIT-P56HR3	3-Pipe control solenoid valve kit (up to 5,6 kW)					
KIT-P56HR3	CZ-P56HR3	Solenoid valve kit (up to 5,6 kW)					
	CZ-CAPE2	3-Pipe control PCB					
	KIT-P160HR3	3-Pipe control solenoid valve kit (from 5,6 to 16,0 kW)					
KIT-P160HR3	CZ-P160HR3	Solenoid valve kit (from 5,6 kW to 16,0 kW)					
	CZ-CAPE2	3-Pipe control PCB					
CZ-CAPEK2 1)		3-Pipe control PCB for wall-mounted					

3-Pipe control box kit							
CZ-P456HR3	4 ports 3 pipe box (up to 5,6 kW per port)						
CZ-P656HR3	6 ports 3 pipe box (up to 5,6 kW per port)						
CZ-P856HR3	8 ports 3 pipe box (up to 5,6 kW per port)						
CZ-P4160HR3	4 ports 3 pipe box (up to 16,0 kW per port)						

Outstanding seasonal energy efficiency, maximum 204,9 %

- · Capacity ratio 50 ~ 200 %
- · No defrost cycle
- · Maximum total piping length: 780 m

Flexible installation

- · Full heating capacity down to -21 °C (WB)
- · DHW production for all the year
- · Connection of up to 24 indoor units





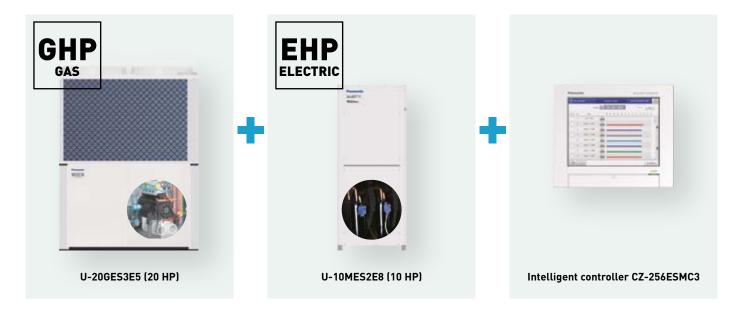
¹⁾ Available for S-45/56/73/106MK2E5B.

Panasonic GHP/EHP Hybrid System. First intelligent technology

Taking advantage of Gas and Electricity to achieve better energy savings.









Master unit GHP

- Load calculation of GHP and EHP Operation in accordance with the upper limit setting
- Individual capacity control
- Device control

 Special control (Defrost, Oil recovery, 4 Wayvalve matching / Abnormality processing)

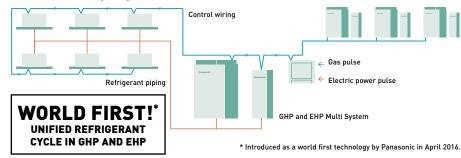




Intelligent controller

- Demand monitoring
 Indoor / total load
- calculation
- Operation Ratio Indication upper limit setting of MAP
- according to:
 Energy unit RRP
 Electric power demand
 Air conditioning load

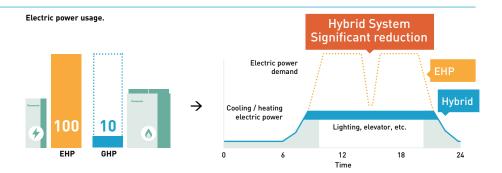
Schematic of GHP/EHP Hybrid System.



Peak cut of electricity consumption

Electrical peak demand is significantly reduced thanks to GHP system consuming less than 10 % of electricity of EHP system.

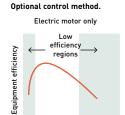
* Image of Hotel project.



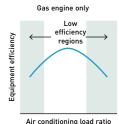
Optimal control to maximize energy saving

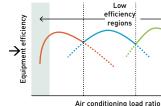
Switching the operation between GHP and EHP system on the basis of usage, energy demand, part load.

* Specification is tentative.



Air conditioning load ratio



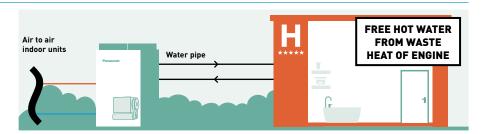


Hybrid operation

Free Hot Water production by **GHP** system

Hot water is effectively produced from waste heat of engine.

* Specification is tentative.



GHP/EHP Hybrid System

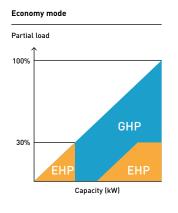
Panasonic's reliable ECO G / ECOi technology provides energy savings, utilising the advantages of both gas and electricity

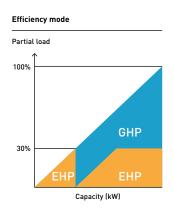
The hybrid system can offer intelligent operation logic for better economy and efficiency by taking the best of ECO G a heating and cooling system operating in a similar was to a hybrid car.

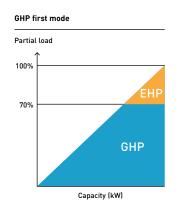
How smartly operate a GHP and EHP system depending on your needs

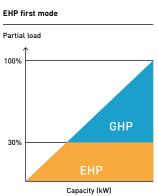
4 different mode settings are available with the intelligent controller. Switch the operation between GHP and EHP or operating both units together to maximize the effect for different requirement such as economy and efficiency.



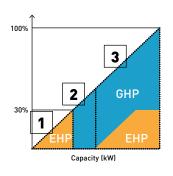


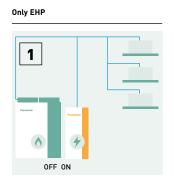


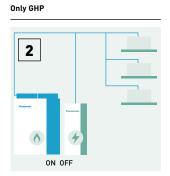


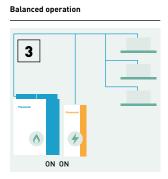


Optimal control example: Economy mode



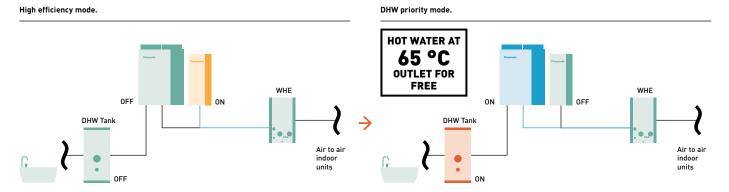






DHW priority mode in Hybryd + WHE System

When DHW is demanded during cooling operation by EHP, EHP is automatically turned "OFF" and GHP is turned "ON" to produce DHW for free.





2-Pipe Hybrid GHP/EHP

- · Extended lifespan with intelligent energy management. The goal is for the EHP and GHP to work at optimal speeds
- · Low energy cost
- · Low emissions

	<u> </u>		Hybrid GHP	Hybrid EHP
НР			20 HP	10 HP
Outdoor unit			U-20GES3E5	U-10MES2E8
	Voltage	٧	220 - 230 - 240	380 - 400 - 415
Power supply	Phase		Single phase	Three phase
	Frequency	Hz	50	50
Cooling capacity		kW	56,0	28,0
η _{s,h} (L0T21)		%	211,80	275,40
Current		Α	5,18	10,70/10,20/9,80
Input power		kW	1,12	6,41
Hot water in cooling mode (a	at 65 °C outlet)	kW	26,20	_
Gas consumption cooling		kW	52,10	-
Heating capacity		kW	63,0	31,5
η _{s,h} (L0T21)		%	143,20	167,60
Current		Α	4,79	11,10/10,50/10,10
Input power		kW	1,05	6,62
Gas consumption heating	Standard	kW	51,10	-
Starting current		Α	30	1
Air flow		m³/min	420	224
Sound pressure	Normal mode	dB(A)	58	56
Sound power	Normal mode	dB(A)	80	77
Dimension	HxWxD	mm	2255 x 1650 x 1000	1842 x 770 x 1000
Net weight		kg	765	210
	Liquid pipe	Inch (mm)	5/8 (15,88)	3/8 (9,52)
Piping diameter 1)	Gas pipe	Inch (mm)	1 1/8 (28,58)	7/8(22,22)
	Balance pipe	Inch (mm)	1/4(6,35)	1/4 (6,35)
Drain heater		W	40	
Refrigerant (R410A) / CO ₂ Eq. k		kg / T	11,05/23,0724	5,60/11,6928
Maximum allowable indoor /	outdoor capacity ratio %		50 ~ 130	50~130
On anoting panes	Cool Min ~ Max	°C	-10~+43	-10~+43
Operating range	Heat Min ~ Max	°C	-21~+18	-21~+18

¹⁾ Please refer service manual when the maximum piping length exceeds 90 meters (equivalent length).

Technical focus

- \cdot 4 different setting (Economy, Efficiency, GHP first mode, EHP first mode)
- \cdot DHW energy recovery 26,2 kW (at 65 °C) by waste heat of engine
- · Unified refrigerant cycle in GHP and EHP for easy installation
- · DHW priority mode with WHE system
- · Connection of up to 48 indoor units







Water heat exchanger for hydronic applications

When a top London restaurant opened, it needed large volumes of fresh air to ensure the optimum dining environment. ECO G units connected to the cooling coils within the air handling equipment ensured the air was introduced in the right condition in both summer and winter.



Chiller replacement. Chilled water supply to fan coils

Chiller replacement.

When some old chillers needed replacing at the end of their operational lifetime, ECO Gs with water heat exchangers enabled the project to be carried out in stages whilst still utilising the existing water pipe work and fan coils. This enabled the project to be delivered on time, to a restricted budget and avoided all issues regarding refrigerant in confined spaces.

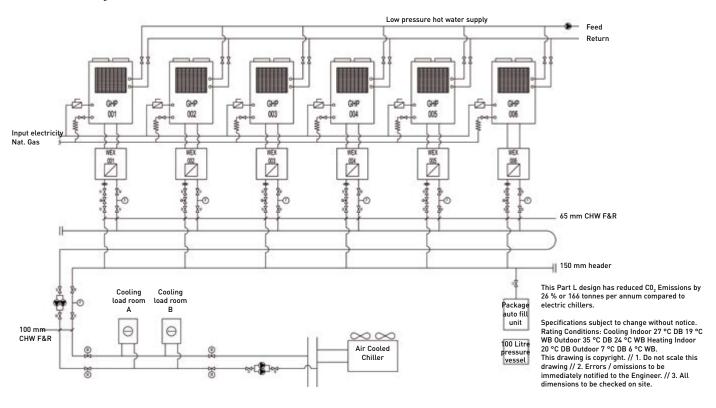




Connection to 'close control' computer equipment

Computer room applications.

When all available electrical power needed to be utilised for the IT equipment for a leading international bank, the cooling load of over 450 kW had to be powered by gas. The outdoor units were connected via water heat exchangers to cooling coils inside the 'close control' units thereby maintaining a conditioned environment for temperature and humidity. By utilising the hot water function over 100 kW of hot water are supplied to the building and therefore the additional benefit of considerable CO_2 savings is ensured.

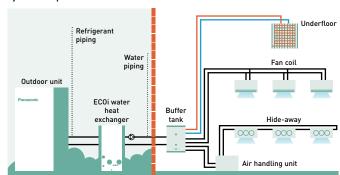


ECOi water heat exchanger

Electrical VRF with water heat exchanger

 With this easy to install water heat exchanger unit, you can now cover projects up to 51 kW hot water demand or 44 kW on chilled application on a efficient way and cost effective

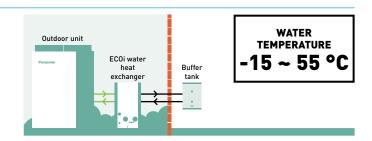
System example.



A buffer tank of minimum 280 l for 28 kW and 500 l for 50 kW is always needed.

Example of Hotel renewal of existing chiller and boiler system with Panasonic ECO G and Aquarea mixed solution

ECO G and Aquarea are the smart solution for renewal Chiller / Boiler applications with annual running cost savings around 13600€.





ECOi 2-Pipe with water heat exchanger for chilled and hot water production

Water heat exchanger (WHE) for hydronic applications.

WHE for ECOi system controlled by a CZ-RTC5B timer remote control.

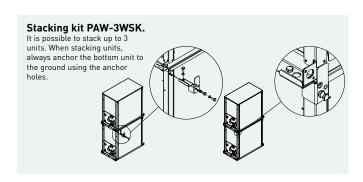
Energy-efficient capacity control with superior external static pressure is now ready.

Hydrokit with A class water pur	р		PAW-250WP5G1	PAW-500WP5G1
Hydrokit without pump			PAW-250W5G1	PAW-500W5G1
Cooling capacity (A 35 °C, W 7 °C	:)	kW	25,0	50,0
Heating capacity		kW	28,0	56,0
Heating capacity (A +7 °C, W 45 °	C)	kW	28,0	56,0
COP (A +7 °C, W 45 °C)		W/W	2,97	3,10
Heating Energy Efficiency class	at 35 °C 1)		A++	A++
Պ _{s,h} (LOT1) ²⁾		%	152,00	152,00
Dimension	HxWxD	mm	1000 x 575 x 1110	1000 x 575 x 1110
Net weight		kg	135 (140 with pump)	155 (165 with pump)
Water pipe connector			Rp2 Female Thread (50A)	Rp2 Female Thread (50A)
Heating water flow (ΔT =5 K. 35 °	C)	m³/h	5,16	10,32
Capacity of integrated electric he	ater	kW	Not equipped	Not equipped
Flow switch			Equipped	Equipped
Water filter			Equipped	Equipped
Input power with A class water p	ump / without pump	kW	0,329 / 0,024	0,574 / 0,024
Maximum current with A class w	ater pump / without pump	Α	1,43 / 0,10	2,50 / 0,10
Outdoor unit			U-10ME2E8	U-20ME2E8
Sound pressure		dB(A)	56	60
Dimension	HxWxD	mm	1842 x 770 x 1000	1842 x 1540 x 1000
Net weight		kg	210	375
Piping diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	5/8 (15,88)
Fibriig diameter	Gas pipe	Inch (mm)	7/8 (22,22)	1-1/8 (28,58)
Refrigerant (R410A) / CO ₂ Eq.		kg	5,6 (need Additional gas amount at site)	9,5 (need Additional gas amount at site
Pipe length range / Pipe length f	or nominal capacity	m	170 / 7,5	170 / 7,5
Elevation difference (in / out)		m	50 (OD above) 35 (OD below)	50 (OD above) 35 (OD below)
Pipe length for additional gas / Additional gas amount (R410A)		m / g/m	0 < / Refer to manual	0 < / Refer to manual
Operating range	Heat Min ~ Max	°C	-11 ~ +15 ³⁾	-11 ~ +15 ³
Water outlet temperature	Cool Min ~ Max	°C	+5 ~ +15	+5 ~ +15
range	Heat Min ~ Max	°C	+35 ~ +45	+35 ~ +45

1) Unit efficiency energy level: Scale from A+++ to D. 2) Seasonal space cooling / heating energy efficiency following COMMISSION REGULATION (EU) 813/2013. 3) With accessory low temperature kit -25 ~ +15 °C. Available only as a space part

Performance calculation in agreement with Eurovent. Sound pressure measured at 1 m from the outdoor unit and at 1,5 m height.

Accessories	
PAW-3WSK	Stacking kit for vertically stacking up to 3 WHE (4 pieces per Kit)



Availability of easy vertical stacking allows installations in a limited space (up to 3 units)*.

* Stacking kit (PAW-3WSK) is necessary.





Stainless steel plate heat exchanger with anti-freeze protection control.

Change over between heating and cooling operation.

Technical focus

- · Heating, cooling and DHW
- · A class water pump included (only in P model)
- · Flexible modularity from 25 kW
- \cdot Better partial load vs standard chiller system
- · Compatible with all centralized controllers
- · Maximum distance between outdoor unit and WHE: 170 m
- · Maximum hot water outlet temperature: 45 °C
- · Minimum chilled water outlet temperature: 5 °C
- \cdot Outdoor temperature range in heating mode: -11 °C to +15 °C (with low temperature kit -25 °C*)
- * Available as a spare part.



ECO G with water heat exchanger for chilled and hot water production

Water heat exchanger (WHE) for hydronic applications.

WHE for ECO G system controlled by a timer remote control CZ-RTC5B.

Energy-efficient capacity control with superior external static pressure is now ready.

Hydrokit with A class water pump			PAW-500WP5G1	PAW-710WP5G1	
Hydrokit without pump			PAW-500W5G1	PAW-710W5G1	
Cooling capacity		kW	_	_	
Cooling capacity (A +35 °C, outlet W	7 °C, inlet W 12 °C)	kW	50,0	67,0	
EER (A +35 °C, outlet W 7 °C, inlet \	V 12 °C)	W/W	0,78	0,89	
Heating capacity		kW	60,0	80,0	
Heating capacity (A +7 °C, W 35 °C)		kW	60,9	81,2	
COP (A +7 °C, W 35 °C)		W/W	1,15	1,18	
Heating capacity (A +7 °C, W 45 °C)		kW	60,0	80,0	
COP (A +7 °C, W 45 °C)		W/W	1,02	1,04	
Heating capacity (A -7 °C, W 35 °C)		kW	48,2	50,8	
COP (A -7 °C, W 35 °C)		W/W	0,80	0,80	
Heating capacity (A -15 °C, W 35 °C		kW	46,3	50,0	
COP (A -15 °C, W 35 °C)		W/W	0,80	0,80	
Refrigeration load Pdesign		kW	48,0	_	
Heating Energy Efficiency class at	35 °C 1)		A+	_	
η _{s,h} (LOT1) ²⁾		%	130,00	128,00	
Dimension H	xWxD	mm	1000 x 575 x 1110	1000 x 575 x 1110	
Net weight		kg	155 (165 with pump)	160 (175 with pump)	
Water pipe connector			Rp2 Female Thread (50A)	Rp2 Female Thread (50A)	
Heating water flow (ΔT=5 K. 35 °C)		m³/h	10,32	13,76	
Capacity of integrated electric heat	er	kW	Not equipped	Not equipped	
Flow switch			Equipped	Equipped	
Water filter			Equipped	Equipped	
Input power with A class water pur	p / without pump	kW	0,574 / 0,024	0,824 / 0,024	
Maximum current with A class wate	er pump / without pump	Α	2,50 / 0,10	3,60 / 0,10	
Outdoor unit			U-20GE3E5	U-30GE3E5	
Sound power N	ormal / Silent	dB(A)	80 / 77	84 / 81	
Dimension H	x W x D	mm	2255 x 1650 x 1000	2255 x 2026 x 1000	
Net weight		kg	765	880	
Piping diameter Li	quid pipe	Inch (mm)	5/8 (15,88)	3/4 (19,05)	
Fibility diaffleter Ga	as pipe	Inch (mm)	1-1/8 (28,58)	1-1/4 (31,75)	
Refrigerant (R410A) / CO ₂ Eq.		kg / T	11,50 / 24,00	11,50 / 24,00	
Pipe length range / Pipe length for nominal capacity		m	170 / 7	170 / 7	
Elevation difference (in / out)		m	50 (OD above) 35 (OD below)	50 (OD above) 35 (OD below)	
Operating range H	eat Min ~ Max	°C	-21 ~ +24 (until outlet temperature 45)	-21 ~ +24 (until outlet temperature 45	
Water outlet temperature Co	ool Min ~ Max	°C	-15 ~ +15	-15 ~ +15	
	eat Min ~ Max	°C	+35 ~ +55	+35 ~ +55	

¹⁾ Unit efficiency energy level: Scale from A+++ to D. 2) Seasonal space cooling / heating energy efficiency following COMMISSION REGULATION (EU) 813/2013.

Performance calculation in agreement with Eurovent. Sound pressure measured at 1 m from the outdoor unit and at 1,5 m height.

Accessories	
PAW-3WSK	Stacking kit for vertically stacking up to 3 WHE (4 pieces per Kit)

Availability of easy vertical stacking allows installations in a limited space (up to 3 units)*.

Stainless steel plate heat exchanger with anti-freeze protection control.

Change over between heating and cooling operation.

Technical focus

- · Heating, cooling and DHW
- · A class water pump included (only in P model)
- · Installation up to 80 kW
- · Free DHW from waste heat of engine
- · Compatible with all centralized controllers
- · Maximum distance between outdoor unit and WHE: 170 m
- · Hot water outlet temperatures from 35 °C to 55 °C
- · Chilled water outlet temperatures from -15 °C to +15 °C
- · Minimum outdoor temperature in heating mode: -21 °C



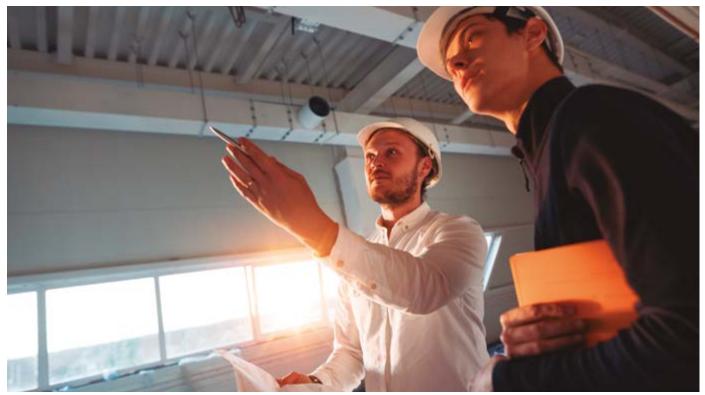


^{*} Stacking kit (PAW-3WSK) is necessary.

Leak detection and automatic Pump Down for R410A refrigerant

New line-up of Pump Down Systems to detect refrigerant leaks, that offers complete assurance and safety protection. It's an ideal solution for hotels, offices and public buildings where the strict safety for end users and workers is required.





The system monitors refrigerant leakage continually and provides a warning, preventing major refrigerant loss and potential damage to the installation's efficiency. The system can reduce potential refrigerant loss by up to 90 %.

As well as ensuring safe and reliable operation, Panasonic's Pump Down system contributes towards BREEAM POL1 points and enables compliance with current EN 378 standards, covering applications where refrigeration concentration levels exceed practical safety limits of 0,44 kg/m³.

Basic Pump Down function:

- · Leak detection
- · Activate Pump Down process
- · Collect refrigerant within receiver tank
- · Close valves to isolate refrigerant

Technical focus:

- · Compatible with Mini ECOi / ECOi EX / ECO G* Series with R410A refrigerant
- \cdot A receiver kit included as standard
- · Includes updated controller
- · Connection in two ways:
 - 1 | With local room leakage sensors
- 2 | Using innovative algorithm
- · R22 renewal possible
- * For connection to GHP, additional components required dependent on configuration. Please contact your local Panasonic representative for details.

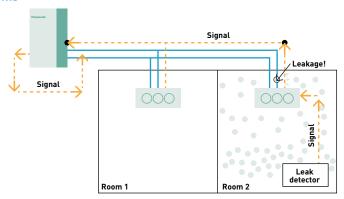


The Pump Down systems are ideal for hotels, offices and public buildings where safety of building occupants is a must.

Direct leak detection method: the safest solution for small rooms

The leak detector is connected directly to the indoor unit and the Pump Down system is directly connected to the outdoor unit PCB. The Pump Down system will activate when a leak is detected in the room and initiate a refrigerant reclaim operation immediately. This immediate reaction, and large refrigerant storage capacity, offers very high level of safety for end users, building occupants, as well as being environmentally friendly.

No additional communication panels, cabling or software is required. This option should be implemented in any area that is not compliant with BS EN 378:2008.



Indirect leak detection method: Unique PLC algorithm to determine refrigerant leakage

Pressure and temperature sensors constantly monitor the high / low pressure and discharge of the condensing unit to protect against potential leakage in areas not covered by leak detectors.

The innovative algorithm is able to detect leakage of R410A based on abnormal changes in the following conditions, high and low pressure, and compressor discharge temperature.

Once initiated via either direct or indirect detection, the unit will immediately close the liquid / discharge actuating ball valves, close the alarm terminals on the Pump Down PCB allowing an alarm to be raised at any nominated location. Reclaim of the refrigerant is via the suction line to the heat exchanger(s) of the outdoor unit(s), with any surplus refrigerant collected in the 30 l receiver tank. Once fully pumped down the suction line is closed and the unit awaits a 'Reset' and 'Recharge' command.

Thanks to the simple installation and control, shown in Fig 1, Panasonic's ECOi Pump Down system can provide dramatic reduction in capital cost and installation time when compared to a standalone leak detection system, shown in Fig 2.

Fig 1: Panasonic's Pump Down system.

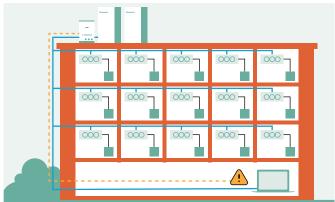


Fig 2: Standalone leak detection system.



Quick and simple installation

The unit contains actuating ball valves, a 30 L storage vessel and PLC all housed in an IP54 rated encasement. Terminals in front of the unit allow easy wiring to the alarm terminal, high / low pressure transducers and discharge temperature sensor(s) of the condensing unit(s).

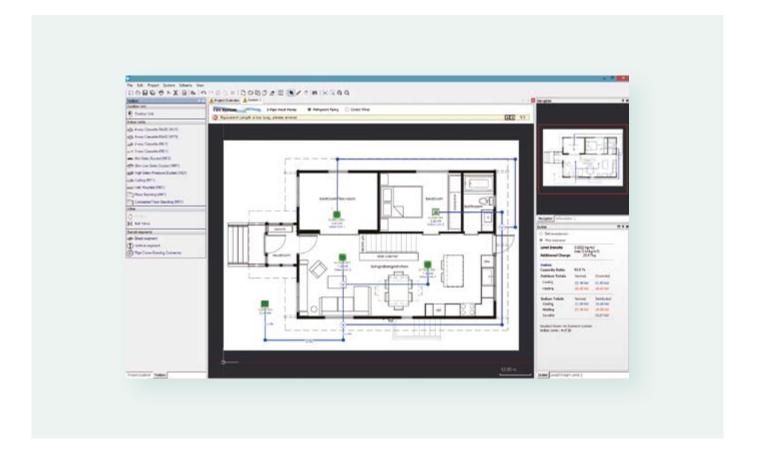
Reference	Description
PAW-PUD2W-1R	Pump Down system (2 way) for 1 outdoor unit
PAW-PUD2W-2R	Pump Down system (2 way) for 2 outdoor units
PAW-PUD2W-3R*	Pump Down system (2 way) for 3 outdoor units
PAW-PUD3W-1R	Pump Down system (3 way) for 1 outdoor unit
PAW-PUD3W-2R	Pump Down system (3 way) for 2 outdoor units
PAW-PUD3W-3R*	Pump Down system (3 way) for 3 outdoor units

^{*} Special order requiring the longer lead time than usual. For the detailed information, please contact an authorized Panasonic dealer.

Design support software for VRF

Features the unique Mounting Scheme function, providing thorough spec-in and tender quotation support for easier and faster completion of work.





The Panasonic VRF Designer software can be used for Panasonic's latest R410A and R32 VRF Systems.

Panasonic understands the importance of the everincreasing demands for fast and accurate responses. More and more emphasis is being placed upon energy-efficiency in our marketplace. The ability to calculate cooling / heating loads and produce information of actual design conditions is a major advantage to any architect, consultant, contractor or end user.

Panasonic appreciates the time constraints and demanding industry we are in and we are pleased to announce the launch of the next generation of our system design software program.

The Panasonic VRF Designer software has been customised to make the selection and design process as quick and easy as possible.

The design package utilises system wizards and import tools to enable both simple and complex systems to be created. In addition, the system will allow outdoor and indoor units to be dragged on an interactive desktop. This allows users to create everything from realistic floor plans with detailed piping and wiring schematics, through to installation guidance drawings, which can be sent with quotations.

Features include:

- Mounting scheme. Design selection from building floor drawing
- · Variety of drawing formats. (dxf, jpg, png..etc.)
- · Conventional principal scheme
- · Easy to use system wizards
- · Auto piping and wiring features
- · Converted duties for conditions and pipework
- · Auto(CAD) (dxf), Excel and PDF export
- · Detailed wiring and pipework diagrams
- · Automatic price quotation
- · Automatic tender document assist
- · SEER, SCOP
- · ESEER

Panasonic's Advanced VRF software with AutoCAD® compatibility makes design easier than ever

Panasonic provides bespoke software helping system designers, installers and dealers to very quickly design and size systems, create wiring diagrams and issue bill of quantities at the push of a button.



Panasonic VRF service checker

Panasonic will make available to installers and commissioning companies the VRF service checker as a communication interface to Panasonic VRF systems. This easy to manage tool checks all parameters of the system.





R410A

R22 RENEWAL



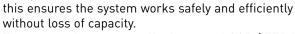
The VRF service checker allows:

- · Connect anywhere on the P-Link for ECOi and Mini ECOi
- · Search the P-Link to validate systems that are connected
- · Monitor all indoor and outdoor units simultaneously on 1
- · Monitor all Temperature data, Pressure data, Valve position, and alarm status on 1 screen
- · Data can be viewed in Graph or tabular display
- · Controlling the indoor unit ON / OFF, MODE, SET POINT, FAN, and TEST mode
- · Switching between various systems on the same communication P-Link (ECOi only)
- · Monitor and record at a set interval
- · Record and review the data at a later date
- · Update software via ROM flash writer

This Panasonic VRF service checker is available from your local service partner.

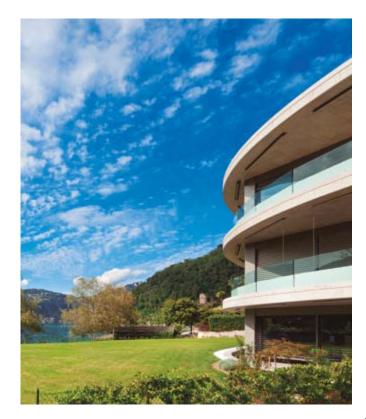
R22 Renewal

Panasonic's advanced technology enables the system to work with previously installed pipe work by managing the working pressure within the system down to R22 (33 bar) levels,



The new equipment can offer increased COP / EER by using state of the art inverter compressor and heat exchanger technology.

Having contacted your Panasonic supplier regarding pipe work restrictions, and gained approval to use the Panasonic Renewal System, there are three main tests that have to be carried out to ensure that the system can be used effectively. Firstly a thorough inspection of the pipe work must be carried out and any damage must be repaired. Secondly an oil test must be performed to ensure that the system has not been subject to a compressor burnout during its lifetime. Lastly a VRF Renewal Kit (CZ-SLK2) must be installed within the pipe work to ensure that the system is cleaned and free of oil remnants.



VRF Systems indoor units





ECOi and ECO G systems indoor units range

Page		1,5 kW	2,2 kW	2,8 kW	3,0 kW	3,6 kW	4,0 kW	4,5 kW
P. 317	U2 Type 4 way 90x90 cassette · R32 / R410A		S-22MU2E5B	S-28MU2E5B		S-36MU2E5B		S-45MU2E5B
P. 318	NEW Y3 Type 4 way 60x60 cassette · R32 / R410A	S-15MY3E	S-22MY3E	S-28MY3E		S-36MY3E		S-45MY3E
P. 319	Y2 Type 4 way 60x60 cassette · R32 / R410A	S-15MY2E5B	S-22MY2E5B	S-28MY2E5B		S-36MY2E5B		S-45MY2E5B
P. 320	L1 Type 2 way cassette · R410A		S-22ML1E5	S-28ML1E5		S-36ML1E5		S-45ML1E5
P. 321	D1 Type 1 way cassette · R410A			S-28MD1E5		S-36MD1E5		S-45MD1E5
P. 322	F3 Type variable static pressure adaptive duct · R32	S-15MF3E5B	S-22MF3E5B	S-28MF3E5B		S-36MF3E5B		S-45MF3E5B
P. 322	F3 Type variable static pressure adaptive duct · R410A	S-15MF3E5A	S-22MF3E5A	S-28MF3E5A		S-36MF3E5A		S-45MF3E5A
P. 323	F2 Type variable static pressure hide-away · R410A	S-15MF2E5A	S-22MF2E5A	S-28MF2E5A		S-36MF2E5A		S-45MF2E5A
P. 324	M1 Type slim variable static pressure hide- away · R32 / R410A	S-15MM1E5B	S-22MM1E5B	S-28MM1E5B		S-36MM1E5B		S-45MM1E5B
P. 325	E2 Type high static pressure hide-away · R410A							
P. 326	Heat recovery with DX coil · R410A				PAW-500ZDX3N		PAW-800ZDX3N	PAW-01KZDX3N
P. 327	T2 Type ceiling · R410A					S-36MT2E5A		S-45MT2E5A
P. 328	K2 Type wall-mounted · R32 / R410A	S-15MK2E5B	S-22MK2E5B	S-28MK2E5B		S-36MK2E5B		S-45MK2E5B
P. 329	G1 Type floor console · R410A		S-22MG1E5N	S-28MG1E5N		S-36MG1E5N		S-45MG1E5N
P. 330	P1 Type floor-standing · R410A		S-22MP1E5	S-28MP1E5		S-36MP1E5		S-45MP1E5
P. 330	R1 Type concealed floor- standing · R410A		S-22MR1E5	S-28MR1E5				

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OPTIONAL UNITS ON VENTILATION SECTION

5,6 kW	6,0 kW	7,3 kW	9,0 kW	10,6 kW	14,0 kW	16,0 kW	22,4 kW	28,0 kW
			-					
S-56MU2E5B	S-60MU2E5B	S-73MU2E5B	S-90MU2E5B	S-106MU2E5B	S-140MU2E5B	S-160MU2E5B		
S-56MY3E								
S-56MY2E5B								
S- 56ML1E5		S-73ML1E5						
S-56MD1E5		S-73MD1E5						
S-56MF3E5B	S-60MF3E5B	S-73MF3E5B	S-90MF3E5B	S-106MF3E5B	S-140MF3E5B	S-160MF3E5B		
	1	Ti va			1	1		
S-56MF3E5A	S-60MF3E5A	S-73MF3E5A	S-90MF3E5A	S-106MF3E5A	S-140MF3E5A	S-160MF3E5A		
S-56MF2E5A	S-60MF2E5A	S-73MF2E5A	S-90MF2E5A	S-106MF2E5A	S-140MF2E5A	S-160MF2E5A		
S-56MM1E5B								
							S-224ME2E5	S-280ME2E5
S-56MT2E5A		S-73MT2E5A		S-106MT2E5A	S-140MT2E5A			
S-56MK2E5B		S-73MK2E5B		S-106MK2E5B				
-								
S-56MG1E5N								
S-56MP1E5		S-71MP1E5						

S-71MR1E5

S-80MW1E5

S-125MW1E5

S-56MR1E5

4 way 90x90 cassette with nanoe™ X



Large capacity VRF. Trusted power and high efficiency. These Cassettes offer upgraded Econavi and nanoe™ X technology as accessories for making application space more comfortable and efficient.

Thanks to advances in design and technology such as the high performance turbo fan which is more efficient and silent, and nanoe™ X technology and the floor temperature and humidity sensor to more control, the U2 Panasonic 4 way 90x90 cassette offers comfort.

The $nanoe^{TM}$ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. $nanoe^{TM}$ X is not medical device, local regulations on building design and sanitary recommendations must be followed.



Always fresh and clean air with nanoe™ X

The 4 way 90x90 cassette with nanoe™ X, when tested, has shown to inhibit hazardous substances by 92 %, when compared to natural reduction*.

In addition to the 7 effects of nanoe™ X, the indoor unit can also be cleaned with a short operation of nanoe™ X + dry mode.

* Controllers (CZ-RTC5B or CZ-RTC6/BL/BLW) are required.

After cooling/drying operation, the inside of the indoor unit is automatically dried and nanoe™ X is activated to suppress mould growth and to reduce odour.

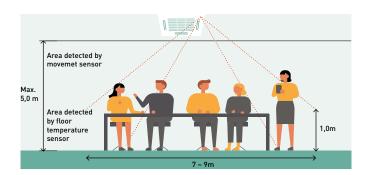






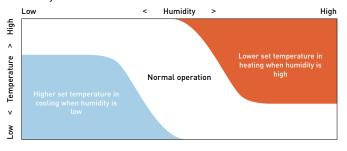
Optional Econavi intelligent sensor

Human activity sensor and floor temperature sensor can reduce waste energy, by optimising air conditioner operation.



Humidity sensor.

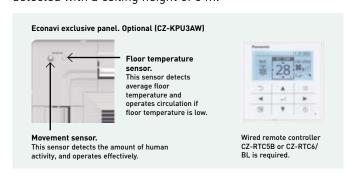
A humidity sensor positioned in the air inlet provides comfort and saves energy based on temperature and humidity.



Advanced Econavi functions.

Operates the fan to discharge internal humidity.

ECONAVI 2 sensors (movement and floor temperature) can provide a reduction in wasted energy by means of effective control. The floor temperature can be detected with a ceiling height of 5 m.



Group control, circulation function.

Circulating operation is activated when a room is unoccupied to evenly distribute air and minimize thermal stratification in both heating and cooling operation.



Circulation by detecting no movement



Indirect air flow by detecting movement.



U2 Type 4 way 90x90 cassette · R32 / R410A

The 4 way 90x90 cassettes with integrated nance X Generator Mark 2 and design panel.

Panasonic introduces a modern flat panel design to blend into any space. These cassettes have been developed to satisfy customer, needs such as high energy saving, comfort and better indoor air quality.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit		SMU2E5B	22	28	36	45	56	60	73	90	106	140	160
Cooling capacity		kW	2,2	2,8	3,6	4,5	5,6	6,0	7,3	9,0	10,6	14,0	16,0
Input power		W	20,00	20,00	20,00	20,00	25,00	35,00	40,00	40,00	90,00	95,00	105,00
Current		Α	0,21	0,21	0,21	0,21	0,23	0,33	0,36	0,38	0,71	0,74	0,82
Heating capacity		kW	2,5	3,2	4,2	5,0	6,3	7,1	8,0	10,0	11,4	16,0	18,0
Input power		W	20,00	20,00	20,00	20,00	25,00	35,00	40,00	40,00	85,00	90,00	100,00
Current		Α	0,20	0,20	0,20	0,20	0,22	0,32	0,35	0,37	0,69	0,72	0,80
Fan type			Turbo fan										
nanoe X Genera	tor		Mark 2										
Air flow	Hi/Med/Lo	m³/min	14,5/13,0/ 11,5	14,5/13,0/ 11,5	14,5/13,0/ 11,5	15,5/13,0/ 11,5	16,5/13,5/ 11,5	21,0/16,0/ 13,0	22,5/16,0/ 13,0	23,0/18,5/ 14,0	34,0/25,0/ 19,0	36,0/26,0/ 20,0	37,0/28,0/ 24,0
Sound pressure	Hi/Med/Lo	dB(A)	30/29/28	30/29/28	30/29/28	31/29/28	32/30/28	36/32/29	37/32/29	38/35/32	44/38/34	45/39/35	46/40/38
Sound power	Hi/Med/Lo	dB(A)	45/44/43	45/44/43	45/44/43	46/44/43	47/45/43	51/47/44	52/47/44	53/50/47	59/53/49	60/54/50	61/55/53
Dimension	Indoor	mm	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840							
(HxWxD)	Panel	mm	33,5 x 950 x 950										
Net weight (Pane	el)	kg	19(5)	19 (5)	19(5)	19 (5)	19(5)	20 (5)	20(5)	20 (5)	25(5)	25 (5)	25 (5)
Piping	Liquid	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4(6,35)	1/4 (6,35)	1/4(6,35)	3/8 (9,52) 1)	3/8 (9,52) 1)	3/8(9,52) 1)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
diameter	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8(15,88) 1]	5/8(15,88) 1)	5/8(15,88) 1)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)

1) When the piping diameter is (liquid) Ø1/4 (6,35) - (gas) Ø1/2 (12,70), connect the liquid socket tube (Ø1/4 (6,35) - Ø3/8 (9,52)) to the liquid tubing side indoor unit and connect the gas socket tube (Ø1/2 (12,70) - Ø5/8 (15,88)) to the gas tubing side indoor unit. * Above values are in the case of nanoeTM X OFF.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRU3W	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white

Accessories	
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black
CZ-KPU3W	Standard panel
CZ-KPU3AW	Econavi exclusive panel
CZ-CENSC1	Econavi energy savings sensor
CZ-FDU3+CZ-ATU2	Fresh air-intake kit
CZ-CGLSC1	Panasonic R32 refrigerant leak detector

Technical focus

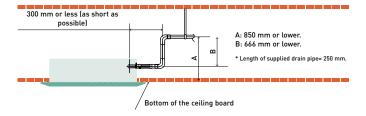
- · High performance turbo fan
- · Lower noise in slow fan operation
- · Ceiling height up to 5,0 m
- · Industry leading lightweight design
- · Econavi: Temeprature, humidity and activity sensor
- nanoe[™] X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoe[™] X and dry operation
- · Powerful drain pump gives 850 mm lift
- · Fresh air knockout
- · Branch duct connection
- High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)

Panel design

Flat design, well-matched with interior. 4-way individual flap control.

The drain pipe can be raised to a maximum height of 850 mm from the bottom of the ceiling

Integrated drain pump allows a drain height of 850 mm making the installation much easier.

























NEW Y3 Type 4 way 60x60 cassette · R32 / R410A

New mini cassette with a modern panel design is available in VRF range.

The Y3 Type not only perfectly matches with 600 x 600 mm ceiling grids but also provides the additional benefits of nanoeTM X, for better indoor air quality.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-15MY3E	S-22MY3E	S-28MY3E	S-36MY3E	S-45MY3E	S-56MY3E
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6
Input power		W	35,00	35,00	35,00	40,00	40,00	45,00
Current		Α	0,30	0,30	0,30	0,30	0,32	0,35
Heating capacity		kW	1,7	2,5	3,2	4,2	5,0	6,3
Input power		W	30,00	30,00	30,00	35,00	35,00	40,00
Current		Α	0,25	0,25	0,30	0,30	0,30	0,30
Fan type			Centrifugal fan					
A: #1	Cool (Hi / Med / Lo)	m³/min	8,90/8,20/5,60	9,10/8,20/5,60	9,30/8,40/5,60	9,70/8,70/6,00	10,00/9,30/8,20	10,40/9,80/8,50
Air flow	Heat (Hi / Med / Lo)	m³/min	9,10/8,40/5,60	9,30/8,40/5,60	9,60/8,70/5,60	9,90/9,10/6,00	10,30/9,60/8,20	11,10/9,80/8,70
Sound pressure	Hi / Med / Lo	dB(A)	34/31/25	35/31/25	35/31/25	36/32/26	38/34/28	40/37/34
Sound power	Hi / Med / Lo	dB(A)	49/46/40	50/46/40	50/46/40	51/47/41	53/49/43	55/52/49
Dimension	Indoor	mm	230x 575 x 575					
(HxWxD) 1)	Panel	mm	41 x 625 x 625					
Net weight		kg	17.8(15+2.8)	17.8 (15 + 2.8)	17.8 (15 + 2.8)	17.8 (15 + 2.8)	17.8 (15 + 2.8)	17.8 (15 + 2.8)
Dining diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Piping diameter	Gas pipe	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2 (12,70)

¹⁾ Unit height is 230mm, but need 243mm height in ceiling space for its installation. * Available in Autumn 2022.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRY3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white

Accessories	
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black
CZ-CENSC1	Econavi energy savings sensor
CZ-CGLSC1	Panasonic R32 refrigerant leak detector

Compact and stylish design

- · Ceiling depth is only 250 mm
- · Exposed area is only 30 mm

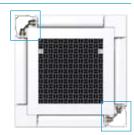
Technical focus

- · Built-in drain pump
- · DC drain pump and float switch to reduce the noise
- · nanoe™ X as standard for better indoor air quality
- · Self cleaning inside of the unit with nanoe™ X

Individual flap control

Better control of the air flow with 4 motors, providing individual flap control.

Perfect air distribution without direct airflow, to reduce the feeling of cold drafts.



























Y2 Type 4 way 60x60 cassette · R32 / R410A

Designed to fit exactly into a 600 x 600 mm ceiling grid without the need to alter the bar configuration.

The Y2 is ideal for small commercial and retrofit applications. In addition, the improvements to efficiency make this one of the most advanced units in the industry.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-15MY2E5B	S-22MY2E5B	S-28MY2E5B	S-36MY2E5B	S-45MY2E5B	S-56MY2E5B
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6
Input power		W	35,00	35,00	35,00	40,00	40,00	45,00
Current		Α	0,30	0,30	0,30	0,30	0,32	0,35
Heating capacity		kW	1,7	2,5	3,2	4,2	5,0	6,3
Input power		W	30,00	30,00	30,00	35,00	35,00	40,00
Current		Α	0,25	0,25	0,30	0,30	0,30	0,30
Fan type			Centrifugal fan					
	Cool (Hi / Med / Lo)	m³/min	8,9/8,2/5,6	9,1/8,2/5,6	9,3/8,4/5,6	9,7/8,7/6,0	10,0/9,3/8,2	10,4/9,8/8,5
Air flow	Heat (Hi / Med / Lo)	m³/min	9,1/8,4/5,6	9,3/8,4/5,6	9,6/8,7/5,6	9,9/9,1/6,0	10,3/9,6/8,2	11,1/9,8/8,7
Sound pressure	Hi / Med / Lo	dB(A)	34/31/25	35/31/25	35/31/25	36/32/26	38/34/28	40/37/34
Sound power	Hi / Med / Lo	dB(A)	49/46/40	50/46/40	50/46/40	51/47/41	53/49/43	55/52/49
	Indoor	mm	288 x 583 x 583					
Dimension (HxWxD)	Panel AW	mm	31 x 700 x 700					
(UX MX D)	Panel BW	mm	31 x 625 x 625					
Net weight		kg	20,4(18+2,4)	20,4 (18 + 2,4)	20,4(18+2,4)	20,4 (18 + 2,4)	20,4 (18 + 2,4)	20,4(18+2,4)
D: : : .	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Piping diameter	Gas pipe	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3	Infrared remote controller
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black

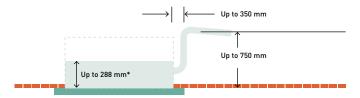
Accessories	
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black
CZ-KPY3AW	Panel 700 x 700 mm
CZ-KPY3BW	Panel 625 x 625 mm
CZ-CENSC1	Econavi energy savings sensor
CZ-CGLSC1	Panasonic R32 refrigerant leak detector

Technical focus

- · Mini cassette fits into a 600 x 600 mm ceiling grid
- · Optimised air distribution
- · Multidirectional air flow
- · Powerful drain pump gives 750 mm lift
- · Variable speed DC fan motors and optimised heat exchanger to maximize efficiency

A drain height of approximately 750 mm from the ceiling surface

The drain height can be increased by approximately 350 mm over the conventional value by using a high-lift drain pump, and long horizontal piping is possible. A lightweight unit at 18,4 kg the unit is also very slim with a height of only 288 mm, making installation possible even in narrow ceilings.

























L1 Type 2 way cassette · R410A

Slim, compact and lightweight units.

Remarkable size and weight reductions have been achieved by improvement of the design around the fan, the weight of all models now being 30 kg.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-22ML1E5	S-28ML1E5	S-36ML1E5	S-45ML1E5	S-56ML1E5	S-73ML1E5
Cooling capacity		kW	2,2	2,8	3,6	4,5	5,6	7,3
Input power		W	90,00	92,00	93,00	97,00	97,00	145,00
Current		Α	0,45	0,45	0,45	0,45	0,45	0,65
Heating capacity		kW	2,5	3,2	4,2	5,0	6,3	8,0
Input power		W	58,00	60,00	61,00	65,00	65,00	109,00
Current		Α	0,29	0,29	0,29	0,29	0,29	0,48
Fan type			Sirocco fan					
Air flow	Hi / Med / Lo	m³/min	8,0/7,0/6,0	9,0/8,0/7,0	9,7/8,7/7,7	11,0/9,0/8,0	11,0/9,0/8,0	19,0/16,0/14,0
Sound pressure	Hi / Med / Lo	dB(A)	30/27/24	33/29/26	34/31/28	35/33/29	35/33/29	38/35/33
Dimension	Indoor	mm	350 x 840 x 600	350 x 1140 x 600				
(HxWxD)	Panel	mm	8 x 1060 x 680	8 x 1360 x 680				
Net weight (Panel)		kg	26,0 (8,0)	26,0 (8,0)	26,0 (8,0)	26,0 (8,0)	26,0 (8,0)	26,0(8,0)
Dining diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8 (15,88)

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRL3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white

Accessories	
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black
CZ-02KPL2	Panel for S-22 to S-56 models
CZ-03KPL2	Panel for S-73 model

Technical focus

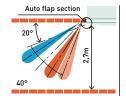
- · Air flow and distribution is automatically altered depending on the operational mode of the unit
- · Drain pump provides up to 500 mm lift height
- · Simple maintenance

Simple maintenance

The drain pan is equipped with site wiring and can be removed. The fan case has a split construction, and the fan motor can be removed easily when the lower case is removed.

Auto flap control

Air flow and distribution is automatically altered depending on the operational mode of the unit.

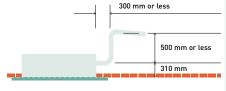


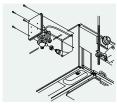




Drain pump provides up to 500 mm lift height

Maintenance of the drain pump is possible from two sides, from the left side (piping side) and from the inside of the unit.























D1 Type 1 way cassette · R410A

Designed for installation within the ceiling void, the D1 range of slimline 1 way blow cassettes feature powerful yet quiet fans for up to 4,2 m.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-28MD1E5	S-36MD1E5	S-45MD1E5	S-56MD1E5	S-73MD1E5
Cooling capacity		kW	2,8	3,6	4,5	5,6	7,3
Input power		W	51,00	51,00	51,00	60,00	87,00
Current		Α	0,39	0,39	0,39	0,46	0,70
Heating capacity		kW	3,2	4,2	5,0	6,3	8,0
Input power		W	40,00	40,00	40,00	48,00	76,00
Current		Α	0,35	0,35	0,35	0,41	0,65
Fan type			Sirocco fan				
Air flow	Hi / Med / Lo	m³/min	12,0/10,0/9,0	12,0/10,0/9,0	12,0/11,0/10,0	13,0/11,5/10,0	18,0/15,0/13,0
Sound pressure	Hi / Med / Lo	dB(A)	36/34/33	36/34/33	36/35/34	38/36/34	45/40/36
Dimension	Indoor	mm	200 x 1000 x 710				
(HxWxD)	Panel	mm	20 x 1230 x 800				
Net weight (Panel)		kg	23,5 (7,5)	23,5 (7,5)	23,5 (7,5)	23,5 (7,5)	24,5 (7,5)
Dining diameter	Liquid pipe	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4 (6,35)	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)

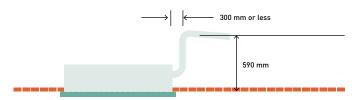
Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRD3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white

Accessories	
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black
CZ-KPD2	Panel

Technical focus

- $\cdot \ Ultra-Slim$
- · Suitable for standard and high ceilings
- · Built-in drain pump provides 590 mm lift
- · Easy to install and maintain
- · Hanging height can be easily adjusted
- · Uses a DC fan motor to improve energy-efficiency

Drain height



With 3 types of air-blow systems, the units can be used in various ways



1. One-direction "down-blow" system. Powerful one-direction "down-blow" system reaches the floor even from high ceilings (up to 4,2 m).



2. Two-direction ceiling-mounted system."Down-blow" and "front-blow" systems are combined in a ceiling-mounted unit to blow air over a wide area.



3. One-direction ceiling-mounted system.This powerful ceiling-mounted "front-blow" system efficiently air-conditions the space in front of the unit. [Additional accessories required].

















F3 Type variable static pressure adaptive duct · R32 / R410A

Design adaptive ducted F3 range.

2 installation possibilities (horizontal / vertical) with high ESP 150 Pa allows for flexible installation.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

R32 indoor unit		SMF3E5B	15	22	28	36	45	56	60	73	90	106	140	160
R410A indoor ur	nit	SMF3E5A	15	22	28	36	45	56	60	73	90	106	140	160
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6	6,0	7,3	9,0	10,6	14,0	16,0
Input power		W	60,00	60,00	60,00	60,00	60,00	89,00	79,00	79,00	136,00	146,00	265,00	330,00
Current		Α	0,45	0,45	0,45	0,45	0,45	0,63	0,52	0,52	0,90	1,00	1,76	2,14
Heating capacity		kW	1,7	2,5	3,2	4,2	5,0	6,3	7,1	8,0	10,0	11,4	16,0	18,0
Input power		W	60,00	60,00	60,00	60,00	60,00	89,00	79,00	79,00	136,00	146,00	265,00	330,00
Current		Α	0,45	0,45	0,45	0,45	0,45	0,63	0,52	0,52	0,90	1,00	1,76	2,14
R32 leakage sen	sors 1)		2	2	2	2	2	2	2	2	2	2	2	2
Fan type			Sirocco fan											
nanoe X Genera	tor		Mark 2											
Air flow ^{2]}	Hi/Med/Lo	m³/min	14,0/12,0/ 8,0	14,0/12,0/ 8,0	14,0/12,0/ 8,0	14,0/12,0/ 8,0	14,0/12,0/ 8,0	16,0/14,0/ 10,0	21,0/18,0/ 15,0	21,0/18,0/ 15,0	25,0/23,0/ 16,0	32,0/26,0/ 21,0	37,0/32,0/ 26,0	40,0/34,0, 28,0
External static p	ressure	Pa	30 (10-150)	40 (10-150)	40 (10-150)	50 (10-150)	50 (10-150)							
Sound pressure	Hi/Med/Lo	dB(A)	31/28/20	31/28/20	31/28/20	31/28/20	31/28/20	35/32/24	31/28/23	31/28/23	35/33/25	36/32/27	41/36/32	43/37/3
Sound power	Hi/Med/Lo	dB(A)	54/51/43	54/51/43	54/51/43	54/51/43	54/51/43	58/55/47	54/51/46	54/51/46	58/56/48	59/55/50	64/59/55	66/60/5
Dimension	HxWxD	mm	250 x 800 x 730	250x1000 x730	250x1000 x730	250x1000 x730	250x1400 x730	250x1400 x730	250 x 1400 x 730					
Net weight		kg	26	26	26	26	26	26	31	31	31	40	40	40
Piping diameter	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	3/8 (9,52)	3/8 (9,52)	3/8(9,52
R32 model	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8(15,88)	5/8(15,88)	5/8(15,88
Piping diameter	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52
R410Å model	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8(15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88

¹⁾ Only available in the R32 version. 2) Value referred to standard settings at shipment (H curve 8, M curve 5, L curve 1).

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white

Accessories	
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black
CZ-CENSC1	Econavi energy savings sensor
CZ-CGLSC1	Panasonic R32 refrigerant leak detector

Technical focus

- · 4 installation possibilities with horizontal and vertical mounting, plus selectable rear or bottom air inlet
- · Industry leading low noise with super quiet operation, minimum 22 dB(A)
- \cdot Only 250 mm height and lightweight unit from, 26 to 42 kg
- · Integrated Panasonic R32 refrigerant leak detectors 1)
- · Improved drain pan suitable for both horizontal / vertical installation
- · Drain pump included 2]
- nanoe[™] X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard, effective even at duct connections up to 10 m and 3 bends ³
- 1) Only available in the R32 version.
- 2) For use with horizontal installation only
- 3) Panasonic internal survey.

Vertical Installation

Vertical installation option. Variable external static pressure to support ducted installations with bends.

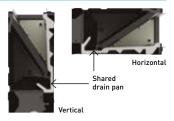
* Vertical installation requires additional settings on field, please



Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation.

No need to modify the unit.























F2 Type variable static pressure hide-away · R410A

The F2 type is designed specifically for applications requiring fixed square ducting.

The internal filter is equipped as standard.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit		SMF2E5A	15	22	28	36	45	56	60	73	90	106	140	160
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6	6,0	7,3	9,0	10,6	14,0	16,0
Input power		W	70,00	70,00	70,00	70,00	70,00	100,00	120,00	120,00	135,00	195,00	215,00	225,00
Current		Α	0,57	0,57	0,57	0,57	0,57	0,74	0,89	0,89	0,97	1,30	1,44	1,50
Heating capacity	,	kW	1,7	2,5	3,2	4,2	5,0	6,3	7,1	8,0	10,0	11,4	16,0	18,0
Input power		W	70,00	70,00	70,00	70,00	70,00	100,00	120,00	120,00	135,00	200,00	210,00	225,00
Current		Α	0,57	0,57	0,57	0,57	0,57	0,74	0,89	0,89	0,97	1,34	1,42	1,50
Fan type			Sirocco fan	Sirocco fan										
Air flow 1]	Hi/Med/Lo	m³/min	14,0/13,0/ 9,0	14,0/13,0/ 9,0	14,0/13,0/ 9,0	14,0/13,0/ 9,0	14,0/13,0/ 10,0	16,0/15,0/ 12,0	21,0/19,0/ 15,0	21,0/19,0/ 15,0	25,0/23,0/ 19,0	32,0/26,0/ 21,0	34,0/29,0/ 23,0	36,0/32,0/ 25,0
External static p	ressure	Pa	70(10- 150)	100(10- 150)	100(10- 150)	100(10- 150)								
Sound pressure	Hi/Med/Lo	dB(A)	33/29/22	33/29/22	33/29/22	33/29/22	34/32/25	34/32/25	35/32/26	35/32/26	37/34/28	38/34/31	39/35/32	40/36/33
Sound power	Hi/Med/Lo	dB(A)	55/51/44	55/51/44	55/51/44	55/51/44	56/54/47	56/54/47	57/54/48	57/54/48	59/56/50	60/56/53	61/57/54	62/58/55
Dimension	HxWxD	mm	290 x 800 x 700	290x1000 x700	290x1000 x700	290x1000 x700	290x1400 x700	290 x 1400 x 700	290×1400 ×700					
Net weight		kg	29	29	29	29	29	29	34	34	34	46	46	46
Piping	Liquid	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
diameter	Gas	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8(15,88)	5/8(15,88)	5/8(15,88)

¹⁾ Value referred to standard settings at shipment (H curve 8, M curve 5, L curve 1).

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white

PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black
CZ-CENSC1	Econavi energy savings sensor

Technical focus

- · Industry-leading low sound levels from 25 dB(A)
- · Built-in drain pump provides 785 mm lift
- · Easy to install and maintain
- · Air OFF sensor avoids cold air dumping
- · Configurable air temperature control

Air inlet plenum	Dampers diameters	Reference
15, 22, 28, 36, 45 and 56	2 x Ø200	CZ-DUMPA56MF2
60, 73 and 90	3 x Ø200	CZ-DUMPA90MF2
106, 140 and 160	4 x Ø200	CZ-DUMPA160MF2

More powerful drain pump

Using a high-lift drain pump, drain piping can be elevated to 700 mm from the base of the unit.

F2 Advantages

Automatic learning function for the required static pressure, to be activated easily by the standard wired timer remote controller.

Possible to increase the sensible cooling capacity by adjusting the air flow in order to almost completely eliminate latent losses. This is possible due to the outstanding big heat exchanger surface in combination with increasing the air flow by a manual selection of higher fan speed curves through the standard wired remote controller when commissioning the system together with the default active off-coil temperature control and the room load based variable evaporation temperature control.













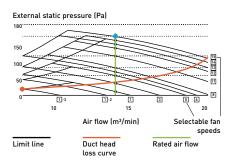






Up to 500 mm Up to 500 mm 201 mm

Diagram 1 S-22MF2E5A



M1 Type slim variable static pressure hide-away concealed duct · R32 / R410A

The ultra slim M1 type is one of the leading products of its type in the industry.

With a depth of only 200 mm it provides greater flexibility and can be used in far more applications.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-15MM1E5B	S-22MM1E5B	S-28MM1E5B	S-36MM1E5B	S-45MM1E5B	S-56MM1E5B
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6
Input power		W	36,00	36,00	40,00	42,00	49,00	64,00
Current		Α	0,26	0,26	0,30	0,31	0,37	0,48
Heating capacity		kW	1,7	2,5	3,2	4,2	5,0	6,3
Input power		W	26,00	26,00	30,00	32,00	39,00	54,00
Current		Α	0,23	0,23	0,27	0,28	0,34	0,45
Fan type			Sirocco fan					
Air flow	Hi / Med / Lo	m³/min	8,0/7,0/6,0	8,0/7,0/6,0	8,5/7,5/6,5	9,0/8,0/7,0	10,5/9,5/8,0	12,5/11,5/10,0
External static pres	ssure	Pa	10 (30)	10 (30)	15 (30)	15 (40)	15 (40)	15 (40)
Sound pressure	Hi / Med / Lo 13	dB(A)	28/27/25 (30/29/27)	28/27/25 (30/29/27)	30/29/27 (32/31/29)	32/30/28 (34/32/30)	34/32/30 (36/34/32)	35/33/31 (37/35/32)
Sound power	Hi / Med / Lo	dB(A)	43/42/40	43/42/40	45/44/42	47/45/43	49/47/45	50/48/46
Dimension	HxWxD	mm	200 x 750 x 640					
Net weight		kg	19	19	19	19	19	19
Dining diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)
Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)

¹⁾ By DIP switches or by RC setting.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white

Accessories	
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black
CZ-CENSC1	Econavi energy savings sensor
CZ-CGLSC1	Panasonic R32 refrigerant leak detector

Technical focus

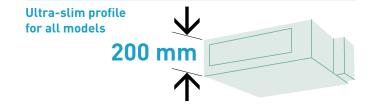
- · Ultra-slim profile: 200 mm for all models
- · DC fan motor greatly reduces power consumption
- · Ideal for hotel application with very narrow false ceilings
- \cdot Easy maintenance and service by external electrical box
- · Up to 40 Pa static pressure enables ductwork to be fitted
- · Includes drain pump

In addition, its high-efficiency and extremely quiet sound levels make it very popular with many users, including hotels and small offices.

Air outlet and inlet plenum

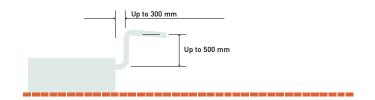
	Diameters	Air outlet plenum	Diameters	Air inlet plenum
22 , 28 and 36	2 x Ø200	CZ-DUMPA22MMS2	- 2 x Ø200	C7-DUMPA22MMR2
45 and 54	2 v Ø140	C7 DUMPA/5MMC2	- 2 X Ø200	CZ-DUMPAZZMMRZ

^{*} Plenums installed with an R32 Mini ECOi system may only be used when no Panasonic R32 refrigerant leak detector is required. Please refer to technical data manual for refrigerant installation requirements.



Drain pump with increased power!

By adoption of a high-lift drain pump, the drain piping can achieve up to 500 mm lift from the outlet port of the unit.





















E2 Type high static pressure hide-away · R410A

High pressure duct and 100 % Fresh air duct function.

The E2 range of ducted units offers improved design flexibility for extended duct layouts as a result of their increased external static pressures and reduces energy consumption

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Туре		100 % Fresh air duct function (by using Kit for 100 % fresh air)				High pressure duct				
Indoor unit			S-224	ME2E5	S-280	ME2E5	S-224ME2E5		S-280ME2E5	
			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity		kW	22,4	21,2	28,0	26,5	22,4	25,0	28,0	31,5
Input power W		W	290,00	290,00	350,00	350,00	440,00	440,00	715,00	715,00
Current		Α	1,85	1,85	2,20	2,20	2,45	2,45	3,95	3,95
Air flow	Hi / Med / Lo	m³/min	28,3/-/- 35,0/-/-		-/-	56,0/51,0/44,0		72,0/63,0/53,0		
External static pressure		Pa	200		2	200 140 (60		- 270) 1)	140 (72	- 270) ^{1]}
Sound pressure 2)	Hi / Med / Lo	dB(A)	43/-	-/-	44/—/—		45/43/41		49/4	7/43
Sound power	Hi / Med / Lo	dB(A)	75/-	-/-	76/-	-/-	77/75/73		81/79/75	
Dimension	HxWxD	mm	479 x 14	53 x 1 2 0 5	479 x 1453 x 1205		479 x 1453 x 1205		479 x 1453 x 1205	
Net weight		kg	102 106		102		106			
Piping diameter	Liquid pipe	Inch (mm)	3/8(9,52)	3/8(9,52)		3/8 (9,52)		3/8 (9,52)	
	Gas pipe	Inch (mm)	3/4[1	19,05)	7/8(:	7/8 (22,22)		3/4(19,05)		7/8 (22,22)

Rating Conditions for 100 % Fresh air duct function: Cooling Outdoor 33 °C DB / 28 °C WB. Heating Outdoor 0 °C DB / -2,9 °C WB.

1) Available to select the setting by initial setup. 2) Values with 140 Pa setting. * No filter included. ** No compatible with 3-Pipe ECO G GF3.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white

Accessories	
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black
CZ-CENSC1	Econavi energy savings sensor

Technical focus

- · No need of rap valve
- \cdot 100 % fresh air duct function*
- \cdot DC fan motor for more savings
- · Complete flexibility for ductwork design

- · Can be located into a weatherproof housing for external siting
- · Air OFF sensor avoids cold air dumping
- · Configurable air temperature control
- * Rap valves required, see 100 % fresh air duct function below.

System example

An inspection port $(450 \times 450 \text{ mm or more})$ is required at the lower side of the indoor unit body (field supply).

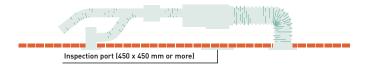
100 % fresh air duct function

The E2 duct with 100 % fresh air duct function have exceptional discharge temperature.

	Discharge Range				
	Min	Max	Default		
Cooling	15 °C	24 °C	18 °C		
Heating	17 °C	45 °C	40 °C		

Plenums

Air outlet plenum (suitable for rigid + flexible duct)					
	Number of exits with diameters	Model			
S-224ME2E5 / S-280ME2E5	1 x 500 mm	CZ-TREMIESPW706			



Kit for 100 % fresh air function

Kit for 100 % fresh air function for 2 way systems					
2x CZ-P160RVK2	Z-P160RVK2 Rap valve kit				
2x CZ-CAPE2	3 way control PCB				
CZ-P680BK2BM	Distribution joint kit				
	1x remote controller				

Kit for 100 % fresh air function for 3 way systems				
2x CZ-P160HR3 3 way valve Kit				
2x CZ-CAPE2	3 way control PCB			
CZ-P680BH2BM Distribution joint kit				
	1x remote controller			

















Heat recovery with DX coil · R410A

Motorised heat recovery by-pass device automatically controlled by unit control to use fresh air free-cooling when convenient.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			PAW-500ZDX3N		PAW-800ZDX3N		PAW-01KZDX3N	
	Voltage	٧	230		230		230	
Power supply	Phase		Single	phase	Single	phase	Single phase	
	Frequency	Hz	5	i0	5	i0	į	50
Air flow		m³/min	8	,3	13	3,3	1	6,7
External static pres	sure 1)	Pa	9	0	1:	20	1	15
Maximum current	Total full load	Α	0	,6	1	,4	2,1	
Input power		W	1!	50	320		390	
Sound pressure 2)		dB(A)	39		42		43	
D: : : :	Liquid pipe	Inch (mm)	1/4(6,35)		1/4 (6,35)		1/4 (6,35)	
Piping diameter	Gas pipe	Inch (mm)	1/2(12,70)		1/2 (12,70)		1/2 (12,70)	
Heat recovery			Cooling	Heating	Cooling	Heating	Cooling	Heating
Temperature efficie	ncy	%	76	76	76	76	76	76
Enthalpy efficiency		%	63	67	63	65	60	62
Saved power summe	r mode or winter mode*	kW	1,70	4,30 (4,80)	2,50	6,50 (7,30)	3,20	8,20 (9,00)
DX coil								
Total / Sensible cap	acity	kW	3,00/2,10	2,50/2,70	5,10/3,50	4,40/4,80	5,80/4,10	5,20/6,70
OFF temperature		°C	15,9	28,0 (27,3)	15,5	29,6 (29,0)	16,2	28,5 (27,8)
OFF relative humidity %		%	90	16 (15)	90	14(13)	89	15 (14)

Nominal summer conditions: Outside air: 32 °C DB, RH 50 %. Ambient air: 26 °C DB, RH 50 %. Nominal winter conditions: Outside air: -5 °C DB, RH 80 %. Ambient air: 20 °C DB, RH 50 %. Cooling mode air inlet condition: 28,5 °C DB, RH 50 %; evaporating temperature 7 °C. Heating mode air inlet condition: 13 °C DB, RH 45 %]; condensating temperature 40 °C. DB: Dry Bulb; RH: Relative Humidity. 1) Referred to the nominal air flow after filter and plate heat exchanger. 2) Sound pressure level calculated at 1 m far from: ducted supply exhaust air ducted return - first air intake / service side, at normal condition. * Tentative data.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white

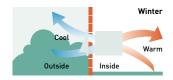
Accessories	
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black
	· · · · · · · · · · · · · · · · · · ·

Technical focus

- Galvanized steel self-supporting panels, internally and externally insulated
- · High efficiency enthalpic heat recover, static cross flow type, made by membrane with high moisture permeability, good air tightness, excellent tear, and aging resistance, structure consisting of flat and corrugated plates. Total heat exchange with temperature efficiency up to 76 % and enthalpy efficiency up to 67 %, also at high level during summer season
- · ISO16890 ePm2,5 95 % (F9 EN 779) efficiency class filter with synthetic cleanable media and COARSE 50 % (G3 EN 779) pre-filter ON fresh air, COARSE 50 % filter on return air intake
- · Removable side panel to access filters and heat recovery in the event of scheduled maintenance
- Low consumption, high efficiency and low noise direct driven fans
- Supply section complete with DX coil (R410A) fitted with solenoid control valve, freon filter, contact temperature sensors on liquid and gas line, NTC sensors upstream and downstream of air flow

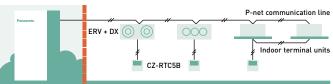
- · Built-in electric box equipped with PCB to control internal fan speed and to interconnect outdoor / indoor units
- · Duct connection by circular plastic collars

Balanced ventilation





Interconnection to outdoor / indoor units



















T2 Type ceiling · R410A

The T2 Type ceiling mounted units feature a DC fan motor for increased efficiency and reduced operating sound levels.

All the units are the same height and depth for a uniform appearance in mixed installations, and feature a fresh air knockout for improved air quality.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-36MT2E5A	S-45MT2E5A	S-56MT2E5A	S-73MT2E5A	S-106MT2E5A	S-140MT2E5A
Cooling capacity		kW	3,6	4,5	5,6	7,3	10,6	14,0
Input power		W	35,00	40,00	40,00	55,00	80,00	100,00
Current		Α	0,36	0,38	0,38	0,44	0,67	0,79
Heating capacity		kW	4,2	5,0	6,3	8,0	11,4	16,0
Input power		W	35,00	40,00	40,00	55,00	80,00	100,00
Current		Α	0,36	0,38	0,38	0,44	0,67	0,79
Fan type			Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan	Sirocco fan
Air flow	Hi / Med / Lo	m³/min	14,0/12,0/10,5	15,0/12,5/10,5	15,0/12,5/10,5	21,0/18,0/15,5	30,0/25,0/23,0	32,0/28,0/24,0
Sound pressure	Hi / Med / Lo	dB(A)	36/32/30	37/33/30	37/33/30	39/35/33	42/37/36	46/40/37
Sound power	Hi / Med / Lo	dB(A)	54/50/48	55/51/48	55/51/48	57/53/51	60/55/54	62/58/55
Dimension	HxWxD	mm	235 x 960 x 690	235 x 960 x 690	235 x 960 x 690	235 x 1275 x 690	235 x 1590 x 690	235 x 1590 x 690
Net weight		kg	27	27	27	33	40	40
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2(12,70)	1/2(12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)

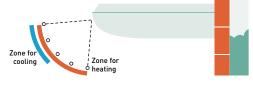
Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRT3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white

Accessories	
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black
CZ-CENSC1	Econavi energy savings sensor

Technical focus

- · Low sound levels
- \cdot All units just 235 mm high
- · Large and wide air distribution
- \cdot Easy to install and maintain
- · Fresh air knockout

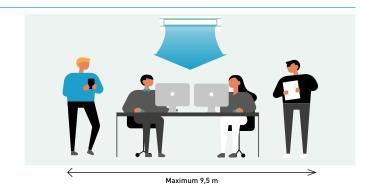
Air distribution is altered depending on the operational mode



Further comfort improvement with air flow distribution

Horizontal air flow reaches maximum 9,5 m. This is ideal for wide rooms.

The wide air discharge opening expands the air flow to the left and right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, increasing the degree of comfort.





















K2 Type wall-mounted - R32 / R410A

The wall-mounted unit has a stylish smooth panel that looks good and is easy to clean.

The unit is also smaller, lighter and substantially quieter than previous models making it ideal for small offices and other commercial applications.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-15MK2E5B	S-22MK2E5B	S-28MK2E5B	S-36MK2E5B	S-45MK2E5B	S-56MK2E5B	S-73MK2E5B	S-106MK2E5B
Cooling capacity		kW	1,5	2,2	2,8	3,6	4,5	5,6	7,3	10,6
Input power		W	25,00	25,00	25,00	30,00	30,00	35,00	55,00	80,00
Current		Α	0,20	0,21	0,23	0,25	0,32	0,35	0,51	0,70
Heating capacity		kW	1,7	2,5	3,2	4,2	5,0	6,3	8,0	11,4
Input power		W	25,00	25,00	25,00	30,00	30,00	35,00	55,00	80,00
Current		Α	0,20	0,21	0,23	0,25	0,32	0,35	0,51	0,70
Fan type			Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow	Cross flow
A: #1	Cool (Hi / Med / Lo)	m³/min	7,9/7,4/6,5	9,0/7,5/6,5	9,5/8,3/6,5	10,9/9,0/6,5	14,5/12,5/10,0	16,0/14,0/12,0	19,5/17,0/14,0	21,5/18,5/15,0
Air flow	Heat (Hi / Med / Lo)	m³/min	9,0/7,7/6,8	9,2/8,3/6,8	9,7/8,5/6,8	11,2/9,5/6,8	14,5/12,5/10,0	16,0/14,0/12,0	19,5/17,0/14,0	21,5/18,5/15,0
Sound pressure	Hi / Med / Lo	dB(A)	34/32/29	36/33/29	37/34/29	40/36/29	38/35/33	40/37/35	47/44/40	49/46/42
Sound power	Hi / Med / Lo	dB(A)	49/47/44	51/48/44	52/49/44	55/51/44	53/50/48	55/52/50	62/59/55	64/61/57
Dimension	HxWxD	mm	290 x 870 x 214	290 x 870 x 214	290 x 870 x 214	290×870 ×214	302 x 1120 x 236			
Net weight		kg	9	9	9	9	13	13	14	14
Dining diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4(6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52) 1]	3/8 (9,52)
Piping diameter	Gas pipe	Inch (mm)	1/2(12,70)	1/2 (12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8 (15,88) 1)	5/8 (15,88)

1) When the piping diameter is (liquid) Ø1/4 (6,35) - (gas) Ø1/2 (12,70), connect the liquid socket tube (Ø1/4 (6,35) - Ø3/8 (9,52)) to the liquid tubing side indoor unit and connect the gas socket tube (Ø1/2 (12,70) - Ø5/8 (15,88)) to the gas tubing side indoor unit.

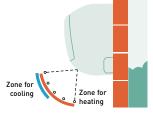
Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3	Infrared remote controller
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black

Accessories	
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black
CZ-CENSC1	Econavi energy savings sensor
CZ-P56SVK2	External valve for model sizes 15 to 56
CZ-P160SVK2	External valve for model sizes 73 to 106
CZ-CGLSC1	Panasonic R32 refrigerant leak detector

Technical focus

- · Compact lightweight units for easy installation
- $\cdot \ \mathsf{Quiet} \ \mathsf{operation}$
- · Smooth and durable design
- · Piping outlet in six directions
- \cdot Air distribution is automatically altered depending on the operational mode

Air distribution is automatically altered depending on the operational mode of the unit



Quiet operation

These units are among the quietest in the industry, making them ideal for hotels and hospitals.

Lighter and smaller units

Compact and lightweight units make for easy installation. When the unit is turned OFF, the flap



closes completely to prevent entry of dust into the unit and to keep the equipment clean.

Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making installation flexible.



External valve (optional)

CZ-P56SVK2 (model sizes 15 to 56). CZ-P160SVK2 (model sizes 73^{-11} to 106).

1) When the piping diameter is liquid 1/4(6,35) and gas 1/2(12,70), use CZ-P56SVK2























G1 Type floor console · R410A

The stylish and compact unit profile, also used for residential market range, is easy to integrate into any design of building.

Compact and versatile, this system is capable of being installed in an area with limited space. It is a perfect solution for retrofit, replacing existing radiator panels.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit			S-22MG1E5N	S-28MG1E5N	S-36MG1E5N	S-45MG1E5N	S-56MG1E5N
Cooling capacity		kW	2,2	2,8	3,6	4,5	5,6
Input power		W	20,00	20,00	22,00	28,00	31,00
Current		Α	0,20	0,20	0,23	0,25	0,28
Heating capacity		kW	2,5	3,2	4,2	5,0	6,3
Input power		W	21,00	21,00	23,00	29,00	32,00
Current		Α	0,20	0,20	0,24	0,26	0,28
Fan type			Cross flow				
nanoe X Generator			Mark 1				
A: (I	Cool (Hi / Med / Lo)	m³/min	9,2/7,5/6,0	9,2/7,5/6,0	9,7/8,2/6,0	10,5/9,0/6,5	12,0/9,5/6,5
Air flow	Heat (Hi / Med / Lo)	m³/min	9,7/8,0/6,5	9,7/8,0/6,5	10,2/8,7/6,5	11,0/9,5/7,0	12,5/10,0/7,0
Sound pressure	Hi / Med / Lo	dB(A)	38/34/29	38/34/29	39/35/29	42/37/30	44/38/30
Dimension	HxWxD	mm	600 x 750 x 207				
Net weight		kg	14	14	14	14	14
D	Liquid pipe	Inch (mm)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4(6,35)	1/4 (6,35)
Piping diameter	Gas pipe	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3*	Infrared remote controller
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white

* Infrared receiver is integrated with the unit as standar
--

Modbus RS-485 touch room controller with I/O, black
Touch display control with 2 digital inputs, white
Touch display control with 2 digital inputs, black
Econavi energy savings sensor

nanoe™ X: Bringing nature's balance indoors

Panasonic's nanoe™ X technology brings nature's detergent - hydroxyl radicals - indoors to help improve protection 24/7 against several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen or hazardous substances.

Stylish and simple

- · Clean and modern European design with slim depth
- · Modern matt white color panel
- · Washable air filter

The stylish and compact unit profile, also used for residential market range, is easy to integrate into any design of building.



Dimension: W x H x D = 750 x 600 x 207 mm

Weight:















Flexible easy installation

Four different mounting styles possible:

- · Exposed (floor or wall)
- · Semi-recessed
- · Recessed

Flexible installation with 4 different options.



Functions for comfort

- Double Air Flow direction to maximize comfort
- Self-cleaning function
- · Compatible with Commercial Wi-Fi Adaptor for cloud control

Self-cleaning function.

- · Self cleaning function can be pre-scheduled with remote controller, up to a maximum of 90 minutes following cooling / dry operation
- · Air flow will not blow directly at occupants during self-cleaning



P1 Type floor-standing · R410A

The compact floor-standing P1 units are the ideal solution for providing perimeter air conditioning.

R1 Type concealed floor-standing · R410A

At just 229 mm deep, the R1 unit can be easily concealed in perimeter areas to provide powerful and effective air conditioning.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

P1 indoor unit			S-22MP1E5	S-28MP1E5	S-36MP1E5	S-45MP1E5	S-56MP1E5	S-71MP1E5
R1 indoor unit			S-22MR1E5	S-28MR1E5	S-36MR1E5	S-45MR1E5	S-56MR1E5	S-71MR1E5
Cooling capacity		kW	2,2	2,8	3,6	4,5	5,6	7,1
Input power		W	56,00	56,00	85,00	126,00	126,00	160,00
Current		Α	0,25	0,25	0,38	0,56	0,56	0,72
Heating capacity		kW	2,5	3,2	4,2	5,0	6,3	8,0
Input power		W	40,00	40,00	70,00	91,00	91,00	120,00
Current		Α	0,18	0,18	0,31	0,41	0,41	0,54
Fan type			Sirocco fan					
Air flow	Hi / Med / Lo	m³/min	7,0/6,0/5,0	7,0/6,0/5,0	9,0/7,0/6,0	12,0/9,0/8,0	15,0/13,0/11,0	17,0/14,0/12,0
External static pres	ssure	Pa	15	15	15	15	15	15
Sound pressure	Hi / Med / Lo	dB(A)	33/30/28	33/30/28	39/35/29	38/35/31	39/36/31	41/38/35
P1 Dimension	HxWxD	mm	615 x 1065 x 230	615 x 1065 x 230	615 x 1065 x 230	615 x 1380 x 230	615 x 1380 x 230	615 x 1380 x 230
R1 Dimension	HxWxD	mm	616 x 904 x 229	616 x 904 x 229	616 x 904 x 229	616 x 1219 x 229	616 x 1219 x 229	616 x 1219 x 229
P1 Net weight		kg	29	29	29	39	39	39
R1 Net weight		kg	21	21	21	28	28	28
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)
	Gas pipe	Inch (mm)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	1/2(12,70)	5/8 (15,88)

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver

Accessories	
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black

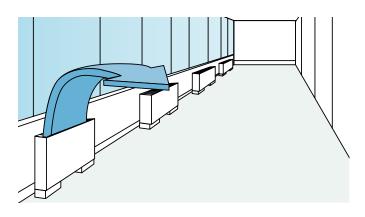
P1 Technical focus

- · Pipes can be connected to either side of the unit from the bottom or rear
- · Easy to install
- · Front panel opens fully for easy maintenance
- · Removable air discharge grille gives flexible airflow
- · Room for condensate pump

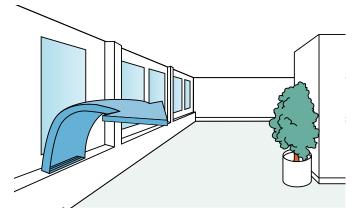
R1 Technical focus

- · Chassis unit for discreet installation
- · Complete with removable filters
- Pipes can be connected to either side of the unit from the bottom or rear
- $\cdot \; \text{Easy to install} \\$

Effective perimeter handling



Perimeter air conditioning with high interior quality

















Hydrokit for ECOi, water at 45 °C · R410A

Connect the Hydrokit to your VRF system, together with other indoor units.

Total system performs high energy efficiency through heat recovering operation, and it gives an advantage for sustainability related assessment methods, such as BREEAM in UK.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Indoor unit				S-80MW1E5	S-125MW1E5
	Voltage		V	230	230
Power supply	Phase			Single phase	Single phase
	Frequency		Hz	50	50
Cooling capacity			kW	8,0	12,5
Heating capacity			kW	9,0	14,0
Maximum temperature			°C	~45/~65 ^{1]}	~45/~65 1)
Dimension	HxWxD		mm	892 x 502 x 353	892 x 502 x 353
Water pipe connector			Inch	R 1 1/4	R 1 1/4
Water pump (built-in)				DC motor (A class)	DC motor (A class)
\\/_+ (Cool		L/min	22,90	35,80
Water flow rate	Heat		L/min	25,80	40,10
	Liquid pipe		Inch (mm)	3/8 (9,52)	3/8 (9,52)
Piping diameter	Gas pipe		Inch (mm)	5/8 (15,88)	5/8 (15,88)
	Drain pipe		mm	15~17 (inner size)	15~17 (inner size)
	01	Ambient	°C	+10~+43	+10~+43
0	Cool	Water	°C	+5~+20	+5~+20
Operation range	II4	Ambient	°C	-20~+43	-20~+43
	Heat	Water	°C	+25~+45	+25~+45
Connectable system				3-Pipe (heat recovery type) VRF Sy	rstem (system capable up to 48 HP)
Maximum Indoor ratio (c	onnectable hydro	kit module capacity	ratio)	Total indoor unit + Hydrokit capacity: up to 1	30 % (** ~ **% vs total outdoor unit capac

¹⁾ Maximum 45 °C by refrigerant circuit (heat pump cycle), over 45 °C is provided by electric heater operation.

Accessories	
CZ-RTC5B	Wired remote controller with Econavi function
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black

Accessories	
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black

Basic principle and advantage.

Hydrokit module provides hot water by using waste heat that is recovered from standard air-conditioning indoor unit in cooling mode.

Technical focus

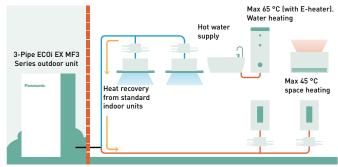
- · Only with 3-Pipe ECOi EX MF3 Series outdoor units
- Remote controller CZ-RTC5B common use with DX coil indoor units EC0i and PACi

Hydrokit control function / CZ-RTC5B

- CZ-RTC5B can be used for hydrokit and also normal indoor unit. CZ-RTC5B checks the type of connected unit and switches between hydrokit and air conditioner display automatically
- Hydrokit mode (tank or air conditioning mode) is set during initial startup

Overview: hydromodule in VRF system

- · Multiple hydromodule connection in same circuit is available
- The mode of each module can be individually set from either hot water or space heating (once set the units cannot operate in another mode, resetting will be required)
- · 3-Pipe control solenoid valve kit is necessary for each indoor unit and hydromodule



^{*} Cold water also available.

PRO-HT Tank Series for ECOi

PRO-HT Tank DHW. Big volume and high temperature tank for commercial application.

MAXIMUM

65 °C

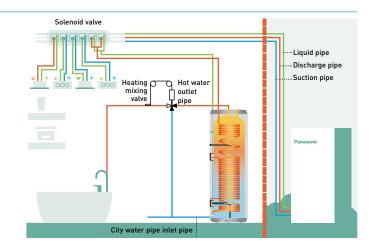
WATER OUTLET
TEMPERATURE



- High performance and high saving
 - · A7 COP maximum 5,29 and 6,70 for ECOi 3-Pipe in case of heat recovery
 - · Efficient hot water production by heat recovery
 - High temperature hot water without booster
 - Save installation time and cost by skipping additional accessories
- Hot water production with simultaneous heating and cooling
 - Maximum water outlet temperature up to 65 °C without an electric heater
 - · Big volume tank from 750L to 1000L capacity
 - · Heat exchanger design inhibits limescale
- Trusted quality
 - Double tube heat exchanger following drinking-water regulation
 - Tank and heat exchanger made with stainless steel
 - Internal and external pickling

Solution example DHW tank 1000L + ECOi 3-Pipe mixed system

- · Ideal offer for hotel projects
- · DHW production under spontaneous heating and cooling
- \cdot Hot water up to 65 $^{\circ}\text{C}$ is efficiently produced by heat recovery
- · A7 COP 6,70 considering heat recovery



One by one system compatible list with ECOi

Model	Tank type	Product compatibility	Hot water outlet temperature
PAW-VP750LDHW-1	DHW	U-16MF3 (3-Pipe)	65 °C
PAW-VP1000LDHW-1	DHW	U-16MF3 (3-Pipe)	65 °C



PRO-HT Tank DHW

Enjoy an efficient DHW and heating and cooling tank.

Panasonic commercial PRO-HT Tank solutions meet all needs of your hot water applications providing 65 °C maximum water temperature.

High temperature hot water is efficiently produced without any boosters.

Can be combined with 3-Pipe EC0i EX MF3 Series to adapt various projects from high-end residentials to offices and hotels.

PRO-HT Tank			PAW-VP750LDHW-1	PAW-VP1000LDHW-1
COP DHW (A +7 °C, W 10~55 °C) EN 16147 1)			5,29	4,81
COP DHW (A +15 °C, W 10~55 °C) EN 16147 2)			7,01	5,32
Volume (net)		L	726	933
Reference tapping cycle			2XL	2XL
Standby heat loss according to EN16147		W/h	77	80
Maximum water temperature	Heat pump	°C	65	65
Maximum water temperature	Electrical heater	°C	85	85
Dimension	НхØ	mm	1855 x 990	2210 x 990
Net weight / with water		kg	179 / 905	191 / 1124
Stainless steel 316 L tank			Yes	Yes
Connections to the water supply network			RP 11/4	RP 11/4
Average insulation thickness		mm	100	100
Number of electrical heaters x power		W	1 x 6000	1 x 6000
Electric protection		Α	16	16
Moisture protection (PAW-VP-RTC5B-VRF)			IP24	IP24
l4 h	Inlet	Inch (mm)	1/2(12,70)	1/2(12,70)
Heat exchanger connection	Outlet	Inch (mm)	3/4 (19,05)	3/4 (19,05)
Fulciona and a state of the sta	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)
Tubing connection between SVK and tank	Gas pipe	Inch (mm)	3/4 (19,05)	3/4 (19,05)
Outdoor unit			U-16MF3E8	U-16MF3E8
Energy consumption by chosen cycle (A +7 °C, W 10~55 °C)		kWh	4,14	5,10
Energy consumption by chosen cycle (A +15 °C, W 10~55 °C)		kWh	3,50	4,61
	Voltage	V	400	400
Power supply	Phase		Three phase	Three phase
	Frequency	Hz	50	50
Maximum power consumption	Without heater	W	20400	20400
Maximum power consumption	With heater	W	26400	26400
Sound pressure at 1m from outdoor unit		dB(A)	52	52
Refrigerant (R410A) / CO ₂ Eq.		kg / T	8,3/17,300	8,3/17,300
Pipe length range from outdoor unit		m	50	50
Elevation difference (in/out)		m	30 (OD above) 30 (OD below)	30 (OD above) 30 (OD below)
Pipe length for nominal capacity		m	7,5	7,5
Pipe length for additional gas		m	> 7,5	> 7,5
Additional gas amount		g/m	Refer to manual	Refer to manual
Operating range - outdoor ambient	Heat Min ~ Max	°C	-20~+35	-20~+35

1) Heating of sanitary water up to 55 °C with inlet air temperature at 7 °C, humidity at 89 % and inlet water temperature at 10 °C. According to EN16147. 2) Heating of sanitary water up to 55 °C with inlet air temperature at 15 °C, humidity at 74 % and inlet water temperature at 10 °C. According to EN16147.

This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

* When connected as pressurised, safety valve is mandatory.

Accessories	
PAW-VP-RTC5B-VRF	Tank Controller for ECOi system
PAW-VP-VALV-160	Expansion valve kit 16 kW
PAW-VP-VALV-280	Expansion valve kit 28 kW

Technical focus

- · Water volume 750 L and 1000 L
- · Maximum hot water production 65 °C without boosters
- · Heating coil 52 m (750 L) and 63 m (1000 L)
- · Tank material 3 mm
- · ABS external case











Fan coils highlighted features

MORE FAN COIL OPTIONS
IN CHILLERS SECTION

Available in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location.



- Innovation for optimum comfort
 Range of fan coil for heating and cooling with capacities from 0,2 to 9,6 kW in cooling and from 0,2 to 13,6 kW in heating. Bring full year comfort with water based systems.
- Energy efficient and low noise fan

 Dynamically balanced and specially designed fans, reinforced acoustic insulation and optimised fan speed staging for lower noise levels.

 Improved efficiency with optional EC fan motor.
- Quality and efficient coil

 Constructed from staggered copper tubes, mechanically expanded into aluminium fins, providing maximum heat transfer efficiency, durability and hygiene.
- Flexible installation

 Various types of unit to fit your needs with flexible installation options. A choice of service side for hydraulic connections, piping configuration and horizontal or vertical installation for ducted units.

Offering a great range of capacities and performance, available in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location. Whether the requirements are for cooling only, or for both heating and cooling, there is a fan coil to suit. With a variety of piping and fan configuration, the range is capable of meeting the most stringent of requirements. Line up available in AC and EC fans, it is possible to achieve both powerful performance, but with sustainability in mind.

Controllers with sophisticated designs, provide a user friendly interface while enabling an easy and low cost integration to building management systems.



PAW-FC-RC1 Optional wired remote controller for AC fan, 2-pipe and 4-pipe application.



PAW-FC-TC903Optional wired remote controller for AC fan 2-pipe application.



PAW-FC-907TC Optional wired remote controller for EC fan, 2-pipe and 4-pipe application.

Smart fan coils







			PAW-AAIR-200-2	PAW-AAIR-700-2	PAW-AAIR-900-2
Total cooling capacity	Lo/Med/Hi	kW	0,2/0,3/0,6	0,8/1,0/1,2	1,2/1,5/1,7
Sensible cooling capacity	Lo/Med/Hi	kW	0,2/0,3/0,5	0,6/0,9/1,1	1,1/1,4/1,6
Water flow	Lo/Med/Hi	kg/h	40,0/59,0/95,0	129,0/178,0/207,0	198,0/261,0/300,0
Water pressure drop	Lo/Med/Hi	kPa	0,4/2,0/2,9	1,0/2,0/2,0	6,0/9,0/12,0
Inlet water temperature		°C	10	10	10
Outlet water temperature		°C	15	15	15
Inlet air temperature		°C	27,0	27,0	27,0
Outlet air temperature	Lo/Med/Hi	°C	15,0/17,0/18,0	14,0/16,0/17,0	16,0/17,0/18,0
Relative humidity of inlet air		%	47	47	47
Total heating capacity	Lo/Med/Hi	kW	0,2/0,5/0,6	0,7/1,0/1,2	0,9/1,4/1,7
Water flow	Lo/Med/Hi	kg/h	37,3/80,8/98,0	121,8/177,5/204,3	152,4/244,2/292,9
Water pressure drop	Lo/Med/Hi	kPa	0,4/2,0/2,9	0,3/0,8/1,0	0,5/1,6/2,2
Inlet water temperature		°C	35	35	35
Outlet water temperature		°C	30	30	30
Inlet air temperature		°C	19,0	19,0	19,0
Outlet air temperature	Lo/Med/Hi	°C	38,9/32,0/30,0	33,3/31,8/30,6	30,2/31,1/30,6
Air flow	Lo/Med/Hi	m³/min	0,9/1,9/2,7	2,6/4,2/5,3	4,1/6,1/7,7
Maximum input power	Lo/Med/Hi	W	7,0/9,0/13,0	14,0/18,0/22,0	16,0/20,0/24,0
Sound pressure	Lo/Med/Hi	dB(A)	23/33/40	24/36/42	25/36/44
Dimension (HxWxD)		mm	735 x 579 x 129	935 x 579 x 129	1135 x 579 x 129
Net weight		kg	17	20	23
3 Ways valve included			Yes	Yes	Yes
Touch screen thermostat			Yes	Yes	Yes

^{*} Smart fan coils is produced by Innova.

Accessories	
PAW-AAIR-LEGS-1	Kits of 2 legs to protect the water pipings

Access	orios
ALLESS	oi ies

PAW-AAIR-RHCABLE

Motor connection cable for units with hydraulic connections on the right

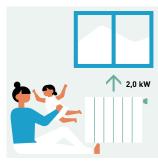
Stylish floor-standing fan coils with advanced controller

The slimline of Smart fan coils delivers high efficiency climate control.

With a depth of just under 130 mm they are at the cutting edge of the market. Blending easily into the home, Smart fan coil's elegant design and product refinements are clear to see in every detail.

Exceptional ventilation efficiency means the motor uses considerably less energy (low wattage). The fan speed is continuously modulated by the temperature controller with proportional integral logic, with undoubted advantages for regulating the temperature and humidity in summer mode.

With standard cast radiators.



Water at 65 °C needed.

With Smart fan coil.



Water at 35 °C needed.

Technical focus

- 4 operation modes (auto, silent, night-time and maximum ventilation speed)
- · Exclusive design
- · Extremely compact (only 129 mm deep)
- · Cooling and dehumidification functions possible (drain is needed)
- · 3-way valve included (no overflow valve needed on the installation if more than 3 units installed)
- · Touch screen thermostat

All temperature curves and capacity are available on www.panasonicproclub.com



Fan coils - ducted (AC)





Optional controller. Wired remote controller. PAW-FC-903TC



Optional controller. Advanced wired remote controller. PAW-FC-RC1

	Left connection (PAW-)		FC2A-D010L	FC2A-D020L	FC2A-D030L	FC2A-D040L	FC2A-D050L	FC2A-D060L	FC2A-D070L	FC2A-D080L
	Right connection	(PAW-)	FC2A-D010R	FC2A-D020R	FC2A-D030R	FC2A-D040R	FC2A-D050R	FC2A-D060R	FC2A-D070R	FC2A-D080R
Total cooling capacity 1]	Lo/Med/Hi	kW	0,7/1,0/1,5	0,7/1,2/1,7	1,0/2,0/2,5	1,2/2,4/3,2	1,7/3,2/4,6	2,7/4,6/5,8	3,4/6,1/7,3	4,6/6,1/8,1
Sensible cooling capacity 13	Lo/Med/Hi	kW	0,5/0,8/1,1	0,6/0,9/1,3	0,8/1,5/1,9	0,9/1,8/2,3	1,2/2,2/3,3	1,9/3,3/4,5	2,4/4,3/5,1	3,4/4,6/6,3
Water flow	Lo/Med/Hi	l/h	124/172/250	127/213/289	172/341/430	206/413/547	296/544/798	466/784/1003	587/1058/1252	798/1048/1400
Water pressure drop	Lo/Med/Hi	kPa	10,7/19,5/39,2	1,9/3,9/6,3	6,3/19,3/28,8	5,4/17,1/28,0	7,5/22,8/46,9	13,9/37,4/60,2	4,8/15,4/21,5	11,9/19,3/32,5
Heating capacity 2)	Lo/Med/Hi	kW	0,9/1,4/2,0	0,9/1,5/2,2	1,3/2,4/3,1	1,4/2,9/4,0	2,1/4,1/5,7	3,1/5,3/7,1	4,3/7,9/9,3	5,9/8,1/11,6
Sound levels		_								
Global sound power	Lo/Med/Hi	dB(A)	33/40/49	31/43/50	30/45/52	30/44/51	34/46/56	38/51/58	43/56/61	50/55/64
Global sound pressure 3)	Lo/Med/Hi	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52	41/46/55
Fan										
Number			1	1	1	2	2	2	2	3
Air flow	Lo/Med/Hi	m³/h	111/190/283	105/179/265	138/274/390	173/357/499	253/486/716	350/640/933	480/893/1064	660/936/1397
Maximum external pressure	_	Pa	55	55	65	85	85	115	125	70
Filter			G2							
Electrical data										
	Voltage	٧	230	230	230	230	230	230	230	230
Power supply	Phase		Single phase							
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption	Lo/Med/Hi	W	13/24/36	10/18/29	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147	90/112/188
Water connections	-									
Туре			Female gas threaded							
Water connections	-	Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
Dimension and weight										
Dimension	HxWxD	mm	220 x 570 x 430	220 x 570 x 430	220 x 730 x 430	220 x 938 x 430	220 x 1122 x 430	220 x 1307 x 430	220 x 1121 x 530	220 x 1316 x 530
Weight		kg	13	13	15	20	22	26	27	38

¹⁾ According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in/out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds.
Values indicated are for 0 Pa external static pressure, for additional pressure characteristics, please refer the selection software.

Accessories	
PAW-FC-RC1	Advanced wired remote controller for fan coil
PAW-FC-903TC	Wired remote controller for fan coil
PAW-FC-2WY-11/55-1	2 way valve + drain pan for models 010-060

Accessories	
PAW-FC-2WY-65/90-1	2 way valve + drain pan for models 070-080
PAW-FC-3WY-11/55-1	3 way valve + drain pan for models 010-060
PAW-FC-3WY-65/90-1	3 way valve + drain pan for models 070-080

Technical focus

- Cooling capacity from 0,7 to 8,1 kW
- · Heating capacity from 0,7 to 10,3 kW
- · 5-speed AC fan motor(s)

Main features and accessories

- · 2 and 4-pipe configurations
- · Left or right hand arrangements
- · Ease of installation
- · Very low acoustic levels
- \cdot 2 way or 3 way ON / OFF valves
- · Auxiliary drain pan
- · Air intake with removable grid
- · G2 filter

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C



Fan coils - wall-mounted (AC)





Optional controller. Wired remote controller. PAW-FC-903TC



Optional controller. Advanced wired remote controller. PAW-FC-RC1



Infrared remote supplied with IR versions. IR Controller

•			PAW-FC2A-K007	PAW-FC2A-K009	PAW-FC2A-K018	PAW-FC2A-K022	
2-pipe			PAW-FC2A-K007IR	PAW-FC2A-K009IR	PAW-FC2A-K018IR	PAW-FC2A-K022IR	
Total cooling capacity 1)	Lo/Med/Hi	kW	1,0/1,3/1,7	1,6/1,7/2,4	2,8/3,0/3,5	2,9/3,1/3,9	
Sensible cooling capacity 1)	Lo/Med/Hi	kW	0,7/1,0/1,2	1,2/1,3/1,9	2,1/2,3/2,7	2,3/2,5/3,1	
Water flow	Lo/Med/Hi	l/h	172/231/287	270/291/418	483/508/609	502/535/669	
Water pressure drop	Lo/Med/Hi	kPa	18,6/24,9/30,9	18,5/27,0/40,0	34,6/41,3/55,6	37,2/33,7/45,2	
Heating capacity 2]	Lo/Med/Hi	kW	1,4/1,7/2,0	1,7/2,0/2,7	2,9/3,2/4,0	3,1/3,7/4,4	
Sound levels							
Sound power	Lo/Med/Hi	dB(A)	45/49/51	47/52/57	49/53/56	53/57/63	
Sound pressure 3 Lo/Med/Hi dB(A)		30/33/35	32/36/40	39/41/43	39/43/48		
Fan				· — —		•	
Number	er		1	1	1	1	
Air flow	Lo/Med/Hi	m³/h	282/321/360	367/413/551	532/592/680	617/709/850	
Filter			G1	G1	G1	G1	
Electrical data							
	Voltage	V	230	230	230	230	
Power supply	Phase		Single phase	Single phase	Single phase	Single phase	
	Frequency	Hz	50	50	50	50	
Fuse rating		A	3	3	3	3	
Power consumption	Lo/Med/Hi	W	39/42/62	30/47/59	44/50/55	50/55/70	
Water connections							
Туре			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	
Water connections		Inch	1/2	1/2	1/2	1/2	
Dimension and weight							
Dimension	HxWxD	mm	275 x 180 x 845	275 x 180 x 845	298 x 200 x 940	298 x 200 x 940	
Weight		kg	11	11	13	13	

¹⁾ According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) According to Eurovent standard. Air: 20 °C. Water in / out: 45 °C / 40 °C. 3) Sound pressure considering a local of 100 m³ a reverberation time of 0,5 seconds and a distance of 1 m.

Accessories	
PAW-FC-RC1	Advanced wired remote controller for fan coil
PAW-FC-903TC	Wired remote controller for fan coil

Accessories	
PAW-FC2-2WY-K007	2 way valve
PAW-FC2-3WY-K007	3 way valve

Technical focus

- · 4 sizes
- · Cooling capacity from 1,0 to 3,9 kW
- · Heating capacity from 1,4 to 4,1 kW
- · Version: 2-pipes, AC fan

Main features and accessories

- · 2 way or 3 way valve ON / OFF
- · 3-speed AC fan motor
- · Silent unit for optimum customer comfort
- · Aesthetic design suitable for residential and hotel applications
- \cdot Compatible with IR controller (supplied with IR versions)
- · Coil with hydrophilic fins to improve the condensate flow

Operating limits	
Entering water temperature	From 5 to 60 °C
Indoor air temperature	From 6 to 40 °C



Accessories and control

Distribution joint kits											
2-Pipe ME2 for outdoor units (up to 68,0 kW).	2-Pipe ME2 for outdoor units (from 68,0 kW to 168,0 kW).	2-Pipe ME2 and Mini EC0i for indoor units (up to 22,4 kW*).									
CZ-P680PH2BM	CZ-P1350PH2BM	CZ-P224BK2BM									
2-Pipe ME2 for indoor units (from 22,4 kW to 68,0 kW*).	2-Pipe ME2 for indoor units (from 68,0 kW to 168,0 kW*).	3-Pipe MF3 for outdoor units (up to 68,0 kW).									
CZ-P680BK2BM	CZ-P1350BK2BM	 CZ-P680PJ2BM									
3-Pipe MF3 for outdoor units (from 68,0 kW to 135,0 kW).	3-Pipe MF3 for indoor units (up to 22,4 kW).	3-Pipe MF3 for indoor units (from 22,4 kW to 68,0 kW).									
CZ-P1350PJ2BM	 CZ-P224BH2BM	 CZ-P680BH2BM									
3-Pipe MF3 for indoor units (up to 68,0 kW).	2-Pipe ME2 header pipe.	3-Pipe MF3 header pipe.									
CZ-P1350BH2BM	 CZ-P4HP4C2BM	 CZ-P4HP3C2BM									

^{*} In case the total capacity of indoor units connected after distribution exceeds the total capacity of the outdoor units, select the distribution piping size for the total capacity of the outdoor units.

Heat recovery box



4 ports 3 pipe box (up to 5,6 kW per port).

CZ-P456HR3

4 ports 3 pipe box (up to 16,0 kW per port).

CZ-P4160HR3

 $\bf 6$ ports 3 pipe box (up to 5,6 kW per port).

CZ-P656HR3

8 ports 3 pipe box (up to 5,6 kW per port).

CZ-P856HR3

Panels



Standard panel for 4 way 90x90 cassette.

CZ-KPU3W



Econavi panel for 4 way 90x90 cassette.

CZ-KPU3AW



Panel for 60x60 cassette - PY2 size 700 x 700 mm.

CZ-KPY3AW



Panel for 60x60 cassette - PY2 size 625 x 625 mm.

CZ-KPY3BW



Panel for 4 way 60x60 cassette -PY3.

CZ-KPY4



Panel for 2 way cassette (for S-22 to S-56 models).

CZ-02KPL2



Panel for 2 way cassette (for S-73 model).

CZ-03KPL2



Panel for 1 way cassette.

CZ-KPD2

Sensors



Panasonic R32 refrigerant leak detector for MU2, MY2, MK2, MF3 and MM1 models.

CZ-CGLSC1



Econavi energy savings sensor.

CZ-CENSC1



Remote temperature sensor.

CZ-CSRC3

Plenums





Air inlet plenum for S..MF3E5B, S. .MF3E5A and S. .MF2E5A 15, 22, 28, 36, 45 and 56.

CZ-DUMPA56MF2

Air inlet plenum for S . . MF3E5B, S..MF3E5A and S..MF2E5A 60, 73 and 90.

CZ-DUMPA90MF2

Air inlet plenum for S..MF3E5B, S..MF3E5A and S..MF2E5A 106, 140 and 160.

CZ-DUMPA160MF2

Air inlet plenum for S . . MM1E5B 22, 28, 36, 45 and 56.

CZ-DUMPA22MMR2

Air outlet plenum for S . .MM1E5B 22, 28 and 36.

CZ-DUMPA22MMS2

Air outlet plenum for S . . MM1E5B 45 and

CZ-DUMPA45MMS3

Air outlet plenum for S-224ME1E5A / S-280ME1E5.

CZ-TREMIESPW706

* Plenums installed with an R32 Mini EC0i system may only be used when no Panasonic R32 refrigerant leak detector is required. Please refer to technical data manual for refrigerant installation requirements.

Valves



E2 Type high static pressure hide-away rap valve kit for 100 % Fresh air function.

CZ-P160RVK2

Wall-mounted external valve for model sizes 15 to 56.

CZ-P56SVK2



Wall-mounted external valve for model sizes 73 to 106.

CZ-P160SVK2

Accessories and control

VRF Smart Connectivity+



Remote controller Panasonic Net Con, RH, No PIR, R1/R2.

SER8150R0B1194

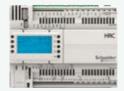
Remote controller Panasonic Net Con, RH, PIR, R1/R2.

SER8150R5B1194



Wireless ZigBee® Pro module / Green Com card.

VCM8000V5094P



Hotel Room Expansion Module 14 indoor units.

HRCEP14R

Hotel Room Controller 28 indoor units.

HRCPBG28R

Hotel Room Controller w/ Display 42 indoor units.

HRCPDG42R



Door / window wireless sensor.

SED-WDC-G-5045



Wall / ceiling (motion) wireless sensor.

SED-MTH-G-5045

Schneider

CO₂ sensor.

SED-C02-G-5045



Sensor with room temperature and humidity.

SED-TRH-G-5045



Water leakage sensor.

SED-WLS-G-5045

Cover frame. Silver.

FAS-00

Cover frame. White.

FAS-01

Cover frame. Glossy translucent white.

FAS-03

Cover frame. Light tan wood.

FAS-05

Cover frame. Dark brown wood.

FAS-06

Cover frame. Dark black wood.

FAS-07

Cover frame. Brushed steel finish.

FAS-10

Controller and touch controllers for hotels with dry contacts



Modbus RS-485 touch room controller with I/O, white.

PAW-RE2C4-MOD-WH

Touch display control with 2 digital inputs, white.

PAW-RE2D4-WH



Modbus RS-485 touch room controller with I/O, black.

PAW-RE2C4-MOD-BK

Touch display control with 2 digital inputs, black.

PAW-RE2D4-BK

Hotel sensors for dry contacts



Wall motion sensor 24 V.

PAW-WMS-DC

Wall motion sensor 240 V AC.

PAW-WMS-AC



Ceiling motion sensor 24 V.

PAW-CMS-DC

Ceiling motion sensor 240 V AC.

PAW-CMS-AC



Power supply 24 V.

PAW-24DC



Door or window contact.

PAW-DWC

Centralised controls



System controller for 64 indoor units with weekly timer.

CZ-64ESMC3



Central ON / OFF controller, up to 16 groups, 64 indoor units.

CZ-ANC3



Intelligent controller (touch screen/web server) to control up to 256 indoors with included load distribution ratio (LDR).

CZ-256ESMC3

Centralised controls. BMS system. PC base



P-AIMS core software: Centralised software to control up to 1024 indoor units.

CZ-CSWKC2

P-AIMS communication adaptor.

CZ-CFUNC2

P-AIMS consumption calculation extension.

CZ-CSWAC2

CZ-CSWBC2

P-AIMS layout display extension.

CZ-CSWGC2

P-AIMS web application extension.

P-AIMS BACnet extension.

CZ-CSWWC2

Accessories and control

Panasonic AC Smart Cloud



Panasonic AC Smart Cloud. Cloud internet control. Up to 128 groups. Controls 128 units.

CZ-CFUSCC1

Accessories interfaces



Modbus RTU and TCP interface for 16 indoor units.

PAW-AC2-MBS-16P

Modbus RTU and TCP interface for 64 indoor units.

PAW-AC2-MBS-64P

Modbus RTU and TCP interface for 128 indoor units.

PAW-AC2-MBS-128P



KNX interface for 16 indoor units.

PAW-AC2-KNX-16P

KNX interface for 64 indoor units.

PAW-AC2-KNX-64P



BACnet IP and MSTP interface for 16 indoor units.

PAW-AC2-BAC-16P

BACnet IP and MSTP interface for 64 indoor units.

PAW-AC2-BAC-64P

BACnet IP and MSTP interface for 128 indoor units.

PAW-AC2-BAC-128P



Commercial Wi-Fi Adaptor.

CZ-CAPWFC1



KNX interface.

PAW-RC2-KNX-1i



Modbus RTU interface.

PAW-RC2-MBS-1



Modbus RTU interface to control 4 indoor/groups.

PAW-RC2-MBS-4



BACnet IP and MSTP.

PAW-RC2-BAC-1



RAC interface adapter for integration into P-Link, plus external input and alarm/ status output.

CZ-CAPRA1



LonWorks® Interface controls up to 16 groups and 64 indoor units.

CZ-CLNC2

Centralised controls. Connection with general equipment



Adaptor for ON / OFF control of external devices.

CZ-CAPC3



Mini series parallel device controlling indoor units, maximum 1 group and 8 indoor unit.

CZ-CAPBC2



Communication Adaptor. Up to 128 groups. Controls 128 units.

CZ-CFUNC2

Individual controls



CONEX wired remote controller (nonwireless).

CZ-RTC6



CONEX wired remote controller with Bluetooth®.

CZ-RTC6BL



Design wired remote controller with Econavi function.

CZ-RTC5B



Infrared remote controller and receiver for 4 way 90x90 cassette.

CZ-RWS3 + CZ-RWRU3W



Infrared remote controller for wall-mounted, 4 way 60x60 with panel and floor console.

CZ-RWS3



Infrared remote controller and receiver for 4 way 60x60 cassette PY3 with panel.

CZ-RWS3 + CZ-RWRY3



Infrared remote controller and receiver for 2 way cassette.

CZ-RWS3 + CZ-RWRL3



Infrared remote controller and receiver for 1 way cassette.

CZ-RWS3 + CZ-RWRD3



Infrared remote controller and receiver for ceiling.

CZ-RWS3 + CZ-RWRT3



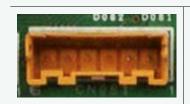
Infrared remote controller and receiver for all indoor units.

CZ-RWS3 + CZ-RWRC3

Accessories and control

T10 interface PCB with digital and relay connections. PAW-T10 PCB for fan speed control of external EC Fan. PCB for fan speed control of external EC Fan.

Accessories cables



Cable for all the T10 functions.

CZ-T10

PAW-ECF



Cable to operate external EC fan.

PAW-FDC



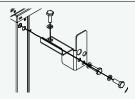
Cable for all option monitoring signals.

PAW-0CT

Cable with force thermo OFF/ leakage detection.

PAW-EXCT

Water heat exchanger accessories



Stacking kit for vertically stacking up to 3 WHE (4 pieces per Kit).

PAW-3WSK

PRO-HT Tank accessories

Tank Controller for ECOi system.	Expansion valve kit 16 kW.	Expansion valve kit 28 kW.			
PAW-VP-RTC5B-VRF	PAW-VP-VALV-160	PAW-VP-VALV-280			

Smart fan coil accessories

Kits of 2 legs to protect the water pipings.

Motor connection cable for units with hydraulic connections on the right.

PAW-FC2-3WY-K007

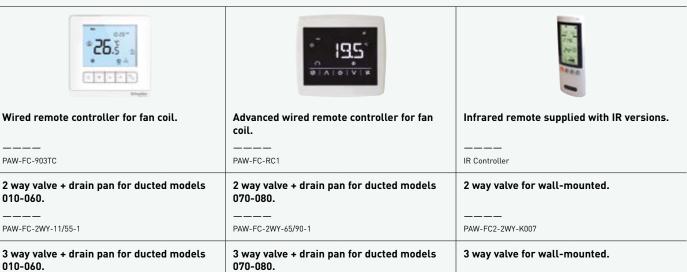
right

PAW-AAIR-RHCABLE

PAW-AAIR-LEGS-1

PAW-FC-3WY-11/55-1

Fan coil accessories



PAW-FC-3WY-65/90-1

Gas piping

Dimensions and tube sizes of branches and headers for 2-Pipe ECOi EX and Mini ECOi Series

Optional distribution joint kits

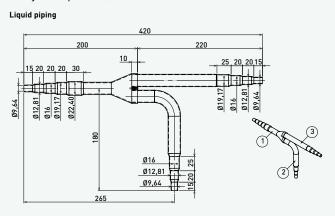
See the installation instructions packaged with the distribution joint kit for the installation procedure.

^{*} In case the total capacity of indoor units connected after distribution exceeds the total capacity of the outdoor units, select the distribution piping size for the total capacity of the outdoor units.

Model name	Cooling capacity after distribution	Remarks
1. CZ-P680PH2BM	Up to 68,0 kW	For outdoor unit
2. CZ-P1350PH2BM	From 68,0 kW to 168,0 kW	For outdoor unit
3. CZ-P224BK2BM*	Up to 22,4 kW	For indoor unit
4. CZ-P680BK2BM*	From 22,4 kW to 68,0 kW	For indoor unit
5. CZ-P1350BK2BM*	From 68,0 kW to 168,0 kW	For indoor unit

Tubing size (with thermal insulation)

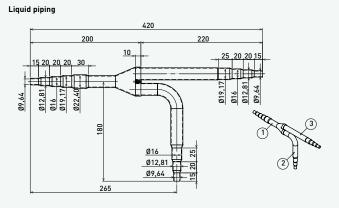
1. CZ-P680PH2BM: For outdoor unit side (capacity after distribution joint up to 68,0 kW).



Unit: mm

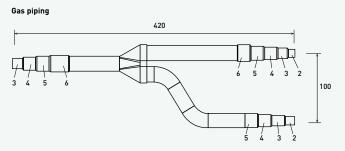
2. CZ-P1350PH2BM: For outdoor unit side (capacity after distribution joint is from 68,0 kW to 168,0 kW).

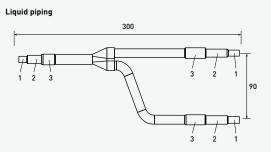
Ø25,53 Ø22,40



Unit: mm

3. CZ-P224BK2BM: For indoor unit side (capacity after distribution joint up to 22,4 kW).

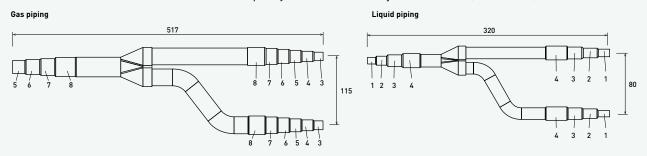




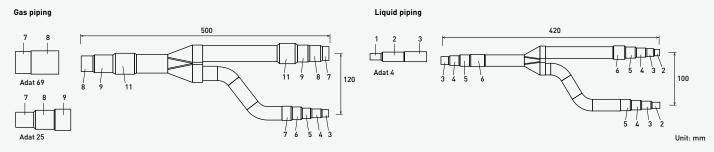
Unit: mm

Unit: mm

4. CZ-P680BK2BM: For indoor unit side (capacity after distribution joint is from 22,4 kW to 68,0 kW).



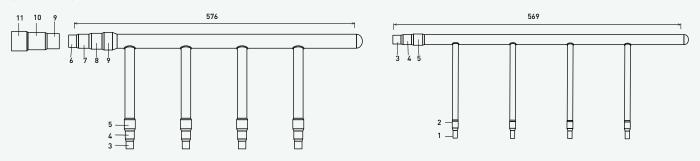
5. CZ-P1350BK2BM: For indoor unit side (capacity after distribution joint is from 68,0 kW to 168,0 kW).



Size of conne	Size of connection point on each part (shown are inside diameters of piping)														
Diameters		1	2	3	4	5	6	7	8	9	10	11	12	13	14
Dimension	Inch	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	2
	mm	6,35	9,52	12,70	15,88	19,05	22,40	25,40	28,57	31,75	34,92	38,10	41,28	44,45	50,80

Header pipe set

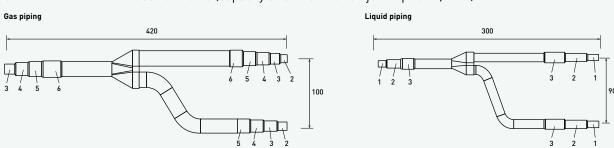
CZ-P4HP4C2BM



Size of conne	Size of connection point on each part (shown are inside diameters of piping)											
Diameters		1	2	3	4	5	6	7	8	9	10	11
Dimension	Inch	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2
	mm	6,35	9,52	12,70	15,88	19,05	22,40	25,40	28,57	31,75	34,92	38,10

Distribution joint Kits for Mini EC0i LE/LZ Series

CZ-P224BK2BM: For indoor unit side (capacity after distribution joint up to 22,4 kW).



Size of connection point on each part (shown are inside diameters of piping)											
Diameters		1	2	3	4	5	6				
Dimension	Inch	1/4	3/8	1/2	5/8	3/4	7/8				
Dimension	mm	6,35	9,52	12,70	15,88	19,05	22,40				

Dimensions and tube sizes of branches and headers for 3-Pipe ECOi EX MF3 Series

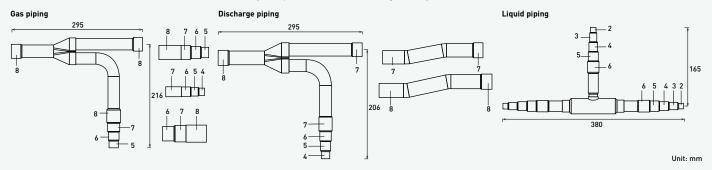
Optional distribution joint kits

See the installation instructions packaged with the distribution joint kit for the installation procedure.

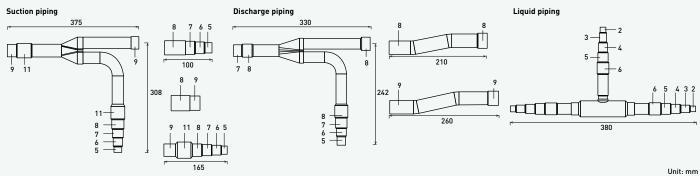
Model name	Cooling capacity after distribution	Remarks
1. CZ-P680PJ2BM	Up to 68,0 kW	For outdoor unit
2. CZ-P1350PJ2BM	From 68,0 kW to 135,0 kW	For outdoor unit
3. CZ-P224BH2BM	Up to 22,4 kW	For indoor unit
4. CZ-P680BH2BM	From 22,4 kW to 68,0 kW	For indoor unit
5. CZ-P1350BH2BM	From 68,0 kW to 135,0 kW	For indoor unit

Piping size

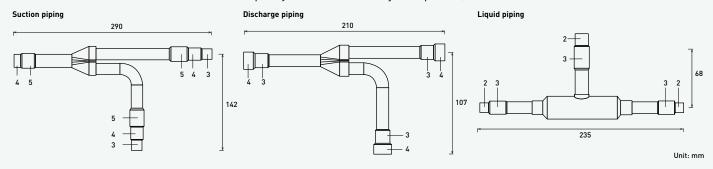
1. CZ-P680PJ2BM: For outdoor unit side (capacity after distribution joint up to 68,0 kW).



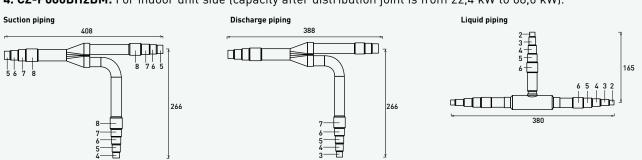
2. CZ-P1350PJ2BM: For outdoor unit side (capacity after distribution joint is from 68,0 kW to 135,0 kW).



3. CZ-P224BH2BM: For indoor unit side (capacity after distribution joint up to 22,4 kW).

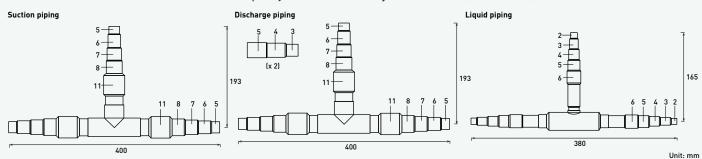


4. CZ-P680BH2BM: For indoor unit side (capacity after distribution joint is from 22,4 kW to 68,0 kW).



Unit: mm

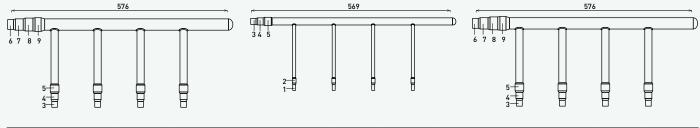
5. CZ-P1350BH2BM: For indoor unit side (capacity after distribution joint is from 68,0 kW to 135,0 kW).



Size of conne	Size of connection point on each part (shown are inside diameters of piping)														
Diameters		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Inch	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	2
Dimension	mm	6,35	9,52	12,70	15,88	19,05	22,40	25,40	28,57	31,75	34,92	38,10	41,28	44,45	50,80

Header pipe set

CZ-P4HP3C2BM



Size of connection	Size of connection point on each part (shown are inside diameters of piping)														
Diameters		1	2	3	4	5	6	7	8	9	10	11			
Dimension	Inch	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2			
Dimension -	mm	6,35	9,52	12,70	15,88	19,05	22,40	25,40	28,57	31,75	34,92	38,10			





Panasonic ventilation solutions

Panasonic ventilation solutions for maximum savings and easy integration.

Air handling unit kit	→ 352
AHU connection kit 3,6 to 25,0 kW for PACi NX and PACi	→ 354
AHU connection kit 16,0 to 56,0 kW for ECOi and ECO G	→ 356
Energy recovery ventilation	→ 358
Heat recovery with DX coil	→ 362

Electric air curtains	→ 364
Air curtain with DX coil, connected to PACi systems	→ 366
Air curtain with DX coil, connected to VRF systems	→ 367
High pressure duct and 100 % fresh air duct	
function for all ECOi and ECO G systems	→ 368











Air handling unit kit

AHU connection kits connect outdoor units to air handling systems. Combines air conditioning and fresh air in just one solution. Application: Hotels, offices, server rooms or all large buildings where air quality control, such as humidity control and fresh air, is needed.









AHU connection kit 3,6 to 14,0 kW for PACi NX

CONEX Bluetooth® version (CZ-RTC6BL) is built-in. Easy connection and set-up is possible via Bluetooth®.

AHU connection kit 3,6 to 25,0 kW for PACi 1)

3 AHU connection kit 16, 28 and 56 kW for ECOi and ECO G

The Panasonic AHU connection kits offer a wealth of connectivity possibilities so can be easily integrated into many systems.

Besides the advantages in terms of indoor air quality, air conditioning offers also an energy saving potential. For example, while uncontrolled ventilation through open windows leads to large amounts of heat being lost to the outside during the heating season or gained from the outside during the cooling season, air conditioning systems provide possibilities to utilize the extra "free" energy in heat recovery modules so that overall operating costs will be reduced.

The larger area of the comfort range, the better the energy saving opportunities.

1) Compatible with R32 models. Special setting is required.

AHU connection kits connect ECOi systems to air handling unit systems, using the same refrigerant circuit as the VRF system. Large connectivity possibilities mean the Panasonic AHU connection kit can be easily integrated.

Panasonic AHU connection kit connected to outdoor unit

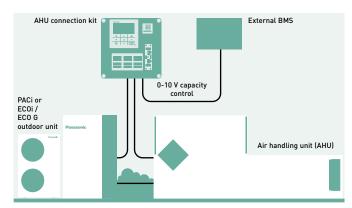
PACi: 3.6 to 25.0 kW.

The Air handling unit kit has been developed to better meet customer demand: IP 65 Box allows for external installation, 0-10 V demand control* and easy control by BMS.

* Only available with PACi Elite, from 3,6 to 25,0 kW.

ECOi and ECO G: 16, 28 and 56 kW.

PCB, transformer, solenoid control valve, 4 thermistors, terminal base and electrical component box.

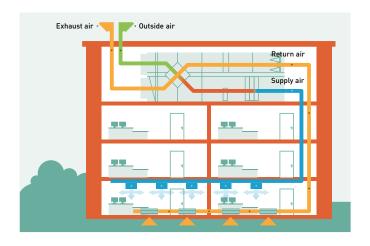


Demand control on the outdoor unit managed by external 0-10 V signal

- AHU connection kit contains: IP65 box with PCBs and terminal connections mounted inside, expansion valve and sensors.
- Heat exchanger, fan and fan motor to be mounted in the AHU itself are field supplied.

Main components of mechanical ventilation systems

The main components of a mechanical ventilation system are the following: Air handling unit (AHU), air ducts and air distribution elements.



Optional parts: Following functions are available by using different control accessories:







AHU connection kit 3,6 to 25,0 kW for PACi NX and PACi

Compatible with R32 or R410A outdoor units.



3 types of AHU connection kit: Advanced, Medium and Light

Reference	IP 65	0-10 V demand control*	Outdoor temperature shift compensation. Cold draft prevention
PAW-280PAH3M-1	Yes	Yes	No
PAW-280PAH2	Yes	Yes	Yes
PAW-280PAH2M	Yes	Yes	No
PAW-280PAH2L	Yes	No	No

^{*} With CZ-CAPBC2.

Control options

Control option 1: Advanced, Medium and Light.

- · The system's control is simple: control of actual suction temperature vs. set point
- \cdot Control works in the same way as that of any indoor unit
- · Fan signal issued by the PCB (OFF while defrosting, for instance)

Control option 2: Advanced.

- System control by probe located at air intake. Sensor works as a 0-10 V control thermostat which manages the set point temperature. Additional probe on the air outlet helps to prevent cold drought
- · All signals as standard

Control option 3: Advanced.

- · System control by external environment probe. Sensor works as a 0-10 V control thermostat which manages the set point temperature. Enhances efficiency by adjusting capacity to the ambient temperature and enhances comfort as well
- · All signals as standard

Control option 4: Advanced and Medium.

- System control by a 0-10 V control working from an external BMS that manages the set point for temperature or capacity. Enhances efficiency by adjusting capacity and enhances comfort as well
- · All signals as standard

0-10 V control

With the 0-10 V demand control the capacity of the outdoor unit can be controlled by 20 steps.

Input voltage* (V)	0	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0	7,5	8,0	8,5	9,0	9,5
Demand (% of nominal current)	No cut 13	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	No limit / Full capacity ²⁾
Indoor unit start / stop	Stop 1)										Ş	Start							

¹⁾ No cut / stop: AHU system / indoor unit is completely switched OFF.

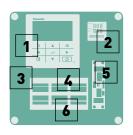
¹⁾ No cut / stop: And system / indoor unit is completely switched orr.
2) No limit: No restrictions applied by BMS to AHU system / indoor unit performance (equivalent to "full-load operation" of AHU system / indoor unit).



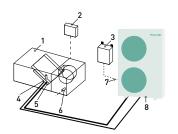


AHU connection kit 3,6 to 25,0 kW for PACi NX and PACi

			3,6 kW	5,0 kW	6,0 kW	7,5 kW	10,0 kW	12,5 kW	14,0 kW	20,0 kW	25,0 kW
Reference		PAW-	280PAH3M-1	280PAH3M-1							
										280PAH2/M/L	280PAH2/M/L
Cooling capacity		kW	3,6	5,0	6,0	7,1	10,0	12,5	14,0	19,5	23,2
Heating capacity		kW	4,0	5,6	7,0	8,0	11,2	14,0	16,0	22,4	28,0
Air flow	Min / Max	m³/h	540/870	630/990	780/1320	780/1320	900/2160	1140/2280	1200/2400	2160/4320	2280/5040
Dimension	HxWxD	mm	500 x 400 x 150	278 x 278 x 180	278 x 278 x 180						
Net weight	H3M / H2 & H2M / H2L	kg	11,5	11,5	11,5	11,5	11,5	11,5	11,5	11,50 / 4,25 / 3,98	11,50 / 4,25 / 3,98
D: 1 11	Standard	m	3/15	3/20	3/40	3/40	5/50	5/50	5/50	-	
Pipe length range	Elite	m	3/40	3/40	3/40	5/50	5/85	5/85	5/85	5/90	5/60
Elevation difference (in / out)	Max	m	30	30	30	30	30	30	30	30	30
Piping diameter	Liquid pipe	Inch (mm)	1/4 (6,35)	1/4 (6,35)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)	1/2 (12,70)
	Gas pipe	Inch (mm)	1/2 (12,70)	1/2 (12,70)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)	1 (25,40)	1 (25,40)
	Cool Min~Max	°C DB	18~32	18~32	18~32	18~32	18~32	18~32	18~32	18~32	18~32
Intake temperature of AHU connection kit	Cool Min~Max	°C WB	14~25	14~25	14~25	14~25	14~25	14~25	14~25	_	_
Alto connection kit	Heat Min~Max	°C	16~30	16~30	16~30	16~30	16~30	16~30	16~30	16~30	16~30
Ambient temperature of outdoor unit (Standard)	Cool Min~Max	°C	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43
	Heat Min~Max	°C	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24	-15~+24
Ambient temperature of	Cool Min ~ Max	°C	-15~+46	-15~+46	-15~+46	-15~+46	-20~+48	-20~+48	-20~+48	-20~+48	-20~+48
outdoor unit (Elite)	Heat Min~Max	°C	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24	-20~+24



- 1 | Remote control CZ-RTC5B (CZ-RTC6 for PAW-280PAH3M-1 model)
- 2 | Intelligent thermostat for: · Cold draft prevention
- Outdoor temperature shift compensation
 Plastic IP 65 Box
- 4 | Terminal base for sensors and power supply 5 | PAW-T10 PCB for Dry Contact 6 | 0-10 V demand control PCB



System and regulations. System overview 1 | AHU connection kit equipment (field

- supplied)
 AHU connection kit system controller (field supplied)
- 3 | AHU connection kit controller box (with control PCB)

- control PCB)
 4 | Thermistor for gas pipe [E2]
 5 | Thermistor for liquid pipe [E1]
 6 | Thermistor for suction air
 7 | Inter-unit wiring

- 8 | Outdoor unit

AHU connection kit.



PCB, Power trans, Terminal block



Thermistor x2 (Refrigerant: E1, E2)



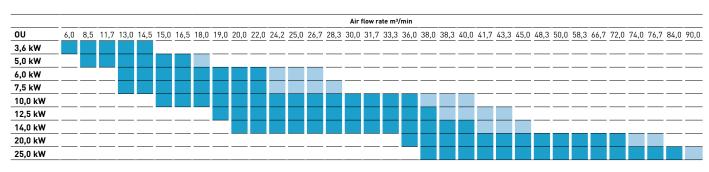
Thermistor (Air: TA; 1 sensor)



Wired remote controller. CZ-RTC5B



Wired remote controller (for PACi NX model). CZ-RTC6



AHU connection kit 16,0 to 56,0 kW for ECOi and ECO G



3 types of AHU connection kit: Advanced, Medium and Light

Reference	IP 65	0-10 V demand control*	Outdoor temperature shift compensation. Cold draft prevention
PAW-160MAH2 / PAW-280MAH2 / PAW-560MAH2	Yes	Yes	Yes
PAW-160MAH2M / PAW-280MAH2M / PAW-560MAH2M	Yes	Yes	No
PAW-160MAH2L / PAW-280MAH2L / PAW-560MAH2L	Yes	No	No

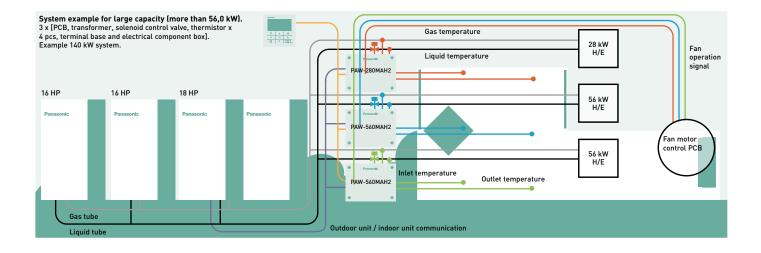
^{*} With CZ-CAPBC2.

With ECOi outdoor units

ECOi outdoor units shall be used for AHU connection kit. 3 models for VRF system: 5 HP (PAW-160MAH2/M/L), 10 HP (PAW-280MAH2/M/L) and 20 HP (PAW-560MAH2/M/L).

With ECO G outdoor units

- One AHU connection kit may be used for one ECO G unit.
 Multiple AHU connection kits cannot be used
- · Mixed with standard indoor units is not allowed
- · Power specifications are single phase 220 V to 240 V





AHU connection kit 16,0 to 56,0 kW for ECOi and ECO G

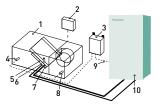
			5 HP	10 HP	20 HP	30 HP	40 HP	50 HP	60 HP
Reference		PAW-	160MAH2/M/L	280MAH2/M/L	560MAH2/M/L	280MAH2/M/L	560MAH2/M/L	560MAH2/M/L	560MAH2/M/L
						560MAH2/M/L	560MAH2/M/L	560MAH2/M/L	560MAH2/M/L
								280MAH2/M/L	560MAH2/M/L
Cooling capacity		kW	14,0	28,0	56,0	84,0	112,0	140,0	168,0
Heating capacity		kW	16,0	31,5	63,0	95,0	127,0	155,0	189,0
Air flow	Cool Min/Max	m³/h	2598/1140	4998/3498	10002/7002	15000/10500	19998/13998	24996/17496	30000/21000
Bypass factor recommended			0,9	0,9	0,9	0,9	0,9	0,9	0,9
Dimension	HxWxD	mm	278 x 278 x 180						
Net weight		kg	3,2	6,3	6,3	6,3	6,3	6,3	6,3
Pipe length range		m	10~100	10~100	10~100	10~100	10~100	10~100	10~100
Elevation difference (in / out)	Max	m	10	10	10	10	10	10	10
Dining diameter	Liquid pipe	Inch (mm)	3/8 (9,52)	3/8 (9,52)	5/8 (15,88)	3/4(19,05)	3/4 (19,05)	3/4 (19,05)	3/4(19,05)
Piping diameter	Gas pipe	Inch (mm)	5/8 (15,88)	7/8 (22,22)	1 1/8 (28,58)	1 1/4 (31,75)	1 1/2 (38,15)	11/2 (38,15)	1 1/2 (38,15)
	Cool Min~Max	°C DB	+18~+32	+18~+32	+18~+32	+18~+32	+18~+32	+18~+32	+18~+32
Intake temperature of AHU connection kit	Cool Min~Max	°C WB	+13~+23	+13~+23	+13~+23	+13~+23	+13~+23	+13~+23	+13~+23
	Heat Min~Max	°C	+16~+30	+16~+30	+16~+30	+16~+30	+16~+30	+16~+30	+16~+30
Ambient temperature of	Cool Min~Max	°C	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43	-10~+43
outdoor unit	Heat Min~Max	°C	-20~+15	-20~+15	-20~+15	-20~+15	-20~+15	-20~+15	-20~+15

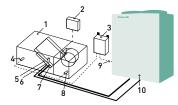
AHU conn	ection kit / Syste	m combination					
Capacity			Outdoor unit combination		AHU connection		
5 HP	16 kW		All ECOi outdoor units		PAW-160MAH2(M/L)	_	_
10 HP	28 kW	U-10ME2E8	_	_	PAW-280MAH2(M/L)	_	_
20 HP	56 kW	U-20ME2E8	_	_	PAW-560MAH2(M/L)	_	_
30 HP	84 kW	U-16ME2E8	U-14ME2E8	_	PAW-560MAH2(M/L)	PAW-280MAH2(M/L)	_
40 HP	112 kW	U-20ME2E8	U-20ME2E8	_	PAW-560MAH2(M/L)	PAW-560MAH2(M/L)	_
50 HP	140 kW	U-18ME2E8	U-16ME2E8	U-16ME2E8	PAW-560MAH2(M/L)	PAW-560MAH2(M/L)	PAW-280MAH2(M/L)
60 HP	168 kW	U-20ME2E8	U-20ME2E8	U-20ME2E8	PAW-560MAH2(M/L)	PAW-560MAH2(M/L)	PAW-560MAH2(M/L)
5 HP	16 kW		All ECO G outdoor units			PAW-160MAH2(M/L)	
10 HP	28 kW		All ECO G outdoor units			PAW-280MAH2(M/L)	
20 HP	56 kW		U-20GE3E5			PAW-560MAH2(M/L)	

Technical focus

- · Maximum capacity / system: 60 HP (168 kW)
- Maximum piping length: 100 m (120 m equivalent)
- · Elevation difference (indoor unit / indoor unit): 4 m
- · In / out capacity ratio: 50~100 %
- · Maximum number of AHU connection kits: 3 units*
- · Outdoor temperature range in heating: -20 ~ +15 °C
- · Available temperature range for the suction air at AHU connection kit: cool: $+18 \sim +32$ °C / heat: $+16 \sim +30$ °C
- · The systems is controlled by the suction air (or room return air) temperature (same as standard indoor unit)
- · The discharge air temperature is also controlled to prevent too-low air discharge in cooling or too-high air discharge in heating (in case of VRF)
- · Demand control (forcible thermostat-OFF control by operating current)
- · Defrost operation signal, Thermo-ON / OFF states output
- · Drain pump control (drain-pump and the float switch to be supplied in local)
- · External target temperature setting via indoor / outdoor signal interface is available with CZ-CAPBC2 (Ex. 0-10 V)
- \cdot Demand control 40 % to 120 % (5 % steps) by 0-10 V input signal

- · Connectable with P-Link system. Special care for electrical noise may be necessary depending on the on-site system
- · Fan control signal from the PCB can be used for control the air flow (high / mid / low and LL for Th-OFF). Need to change the fan control circuit wiring at field
- * To be simultaneous operation controlled by one remote controller sensor.





System and regulations. System overview.

- AHU Unit equipment (field supplied)
- AHU Unit system controller field supplied)
- AHU connection kit controller box (with control PCB)
- Thermistor for discharge air
- Electronic expansion valve
- Thermistor for gas pipe (E3)
- Thermistor for liquid pipe (E1)
- Thermistor for suction air Inter-unit wiring
- 10 | Outdoor unit

Energy recovery ventilation

Panasonic energy recovery ventilators help you with your comfort and energy-saving plan.

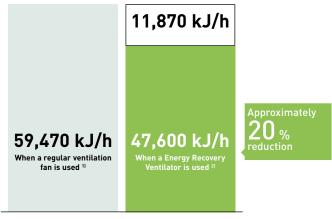




Panasonic energy recovery ventilators can reduce the outside air load because they efficiently recover the energy lost by ventilation during the energy recovery process

This results in energy-saving ventilation and lower running costs for air-conditioning and heating equipment. Furthermore, by designing our current models with a counter-flow heat-exchange element, we achieved products with slim body shapes and quiet operation, that create a comfortable and pleasant air-conditioned environment, whilst saving energy.

- Dramatic energy savings achieved through adoption of a high-efficiency counter-flow heat-exchange element
- · Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape
- · All maintenance can be performed through a single inspection aperture
- Straight air supply / exhaust system used for easier installation



1) Two FY-27FPK7 units. 2) One FY-500ZDY8R unit.

Energy efficiency and ecology

Energy consumption is dramatically reduced by using a counter-flow heat-exchange element. Air conditioning load is reduced by approximately 20 %, resulting in significant energy savings.

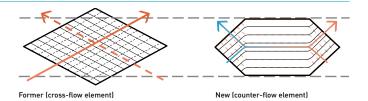
More comfort

Quiet operation.

Low noise operation results in noticeably quieter units. All models with capacities below 500 m³/h run at noise levels below 32 dB (high setting) and even our largest 1000 m³/h-capacity model runs at only 37,5 dB (high setting).

Comparison of former and current elements

With the cross-flow element, air moves in a straight line across the element; with the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect remains unchanged even if the element is made thinner.



Heat exchange ventilation and normal ventilation

Energy-saving ventilation can be achieved through the proper use of heat-exchange ventilation and normal ventilation.

Heat exchange ventilation.

When a room is cooled or heated, the exhausted cooling / heating energy is recovered by heat-exchange ventilation.

Normal ventilation.

This is used in the spring and autumn, when rooms are not cooled or heated, that is, when there is little difference

between the indoor and outdoor air conditions. In addition, at night during the hot season, when the outside air temperature drops the outside air is drawn inside without heat exchange, alleviating the load on the air conditioning equipment.

The heat exchanger is made up of a membrane manufactured from a special material covered in resin for optimal heat transmission. The nylon / polyester fibre filter offers high dust retention capacity. We have also redesigned the air ducts to obtain a long-lasting heat exchange system which does not need periodic cleaning.

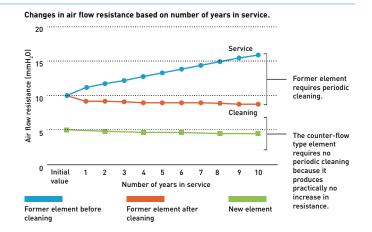
Energy recovery ventilation - heat exchanger

With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect remains unchanged even if the element is made thinner.

Suppresses indoor temperature changes while providing fresh air. Recovers up to 77 % of the heat in the outgoing air, for an ecological and energy efficient building.

Long service life of heat-exchange element

We used a nonwoven cloth filter with a high dust collection efficiency and redesigned the air flow passages to achieve a durable heat-exchange element that requires no periodic cleaning.



Easy installation and maintenance

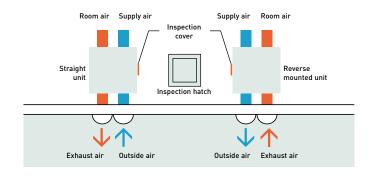
Slim shape and easier installation.

Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.

Reverse mountable direct air supply / exhaust system.

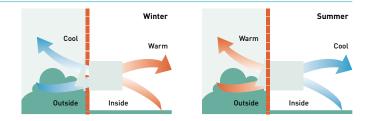
Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.

Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.



Balanced ventilation

Depending on the length and layout of intake and extract ducting, the pressure may vary. It is therefore possible to balance the airflows ensuring optimal ventilation and maximising efficiency.



A intuitive and stylish control

- · Wire controller included as standard
- \cdot Compact and flat front panel
- · Filter cleaning support
- Signal alert for clearing
- Filter usage condition by 1/2/3/4 months
- · Size (W x H x D) 116 x 120 x 40 mm

















Rated flow rate 250 m³/h Indoor unit FY-250ZDY8R			350 m³/h 50		500 m³/h			800 m³/h	1	•	1000 m³/	h					
			FY	-250ZDY	3R	FY-350ZDY8R		FY-500ZDY8R		FY-800ZDY8R		8R	FY-01KZDY8R				
	Voltage	٧		220 - 240			220 - 240			220 - 240)		220 - 240)		220 - 240)
Power supply	Phase		Si	ngle phas	se	Single phase		S	ngle pha	se	S	ingle pha	se	Single phase			
	Frequency	Hz		50			50			50			50			50	
Notch			Extra high	High	Low	Extra high	High	Low	Extra high	High	Low	Extra high	High	Low	Extra high	High	Low
Input power		W	112,0 - 128,0	108,0 - 123,0	87,0 - 96,0	182,0 - 190,0	178,0 - 185,0	175,0 - 168,0	263,0 - 289,0	204,0 - 225,0	165,0 - 185,0	387,0 - 418,0	360,0 - 378,0	293,0 - 295,0	437,0 - 464,0	416,0 - 432,0	301,0 - 311,0
Air flow		m³/h	250	250	190	350	350	240	500	500	440	800	800	630	1000	1000	700
External static pre	essure	Pa	105	95	45	140	60	45	120	60	35	140	110	55	105	80	75
6 1	Heat exchange	dB(A)	30,0 - 31,5	29,5 - 30,5	23,5 - 26,5	32,5 - 33,0	30,5 - 31,0	22,5 - 25,5	36,5 - 37,5	34,5 - 35,5	31,0 - 32,5	37,0 - 37,5	36,5 - 37,0	33,5 - 34,5	37,5 - 38,5	37,0 - 37,5	33,5 - 34,5
Sound power	Normal	dB(A)	30,0 - 31,5	29,5 - 30,5	23,5 - 26,5	32,5 - 33,0	30,5 - 31,0	22,5 - 25,5	37,5 - 38,5	37,0 - 38,0	31,0 - 32,5	37,0 - 37,5	36,5 - 37,0	33,5 - 34,5	39,5 - 40,5	39,0 - 39,5	35,5 - 36,5
Temperature exch	ange efficiency	%	75	75	77	75	75	78	75	75	76	75	75	76	75	75	79
Dimension	HxWxD	mm	270 x 882 x 599		317 x 1050 x 804		317 x 1090 x 904		388 x 1322 x 884		884	388 x 1322 x 1134					
Net weight		kg	29		49 57		71		83								

The noise level was measured within an acoustic chamber. Due to installation arrangement and surfaces within the space, actual noise levels may increase. The input, the current and the exchange efficiency are values relevant to the indicated air flows. The noise level is measured 1,5 m below the centre of the unit. The temperature exchange efficiency is an average of both cooling and heating operation.

Features

Energy efficiency and ecology.

- · Up to 20 % energy saving in the installation
- · Recovers up to 77 % of the heat in the outgoing air

Comfort.

- · Cleaning reduced due to the revolutionary structure (every 6 months)
- · Ideal for indoor spaces without windows

Easy installation and maintenance.

- · 5 models for easier selection
- · Reduced system height (270 mm, 317 mm and 388 mm)
- · Side opening for cleaning (inspection of filter, motor and
- · Installation can be reversed to share an inspection access between 2 machines
- · Easy connection to the air conditioning unit
- · Installation in false ceilings
- · Units operate at 220 240 V
- · High static pressure for easier installation

Technical focus

- · High energy saving, up to 20 %
- · Counter Cross Flow technology for better efficiency
- · Long life element core
- · Easy installation and 20 % less thickness
- · Easy connection to air conditioning units
- · Silent units

Heat recovery with DX coil for VRF

Panasonic launches a heat recovery solution for greater energy efficiency. Performing well in extreme weather conditions, it can achieve up to 77 % efficiency (63 % in enthalpy efficiency).



The counter-flow heat exchanger reduces the air conditioning load, enabling customers – typically owners of hotels, restaurants and other large commercial buildings – to reduce their energy consumption and save on the cost of maintaining comfortable room temperatures.

Energy efficiency

As the latest example of Panasonic's continued commitment to developing unbeatable, energy-efficient air conditioning technologies for commercial applications, the company has introduced a heat recovery device. The unit features a DX coil, and is designed to recover up to 77 % of the heat from outgoing air, and a air purifying system which helps to improve air quality. In even the most demanding commercial applications, business owners will benefit from the unit's ability to by-pass the heat exchange process when the outside air temperature is cool enough for fresh air to be drawn directly inside (free cooling).

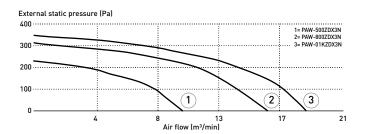
This alleviates the load on the air conditioning equipment and consequently reduces energy bills.

Supply section complete

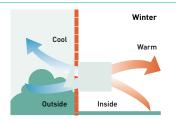
The supply section comes complete with the DX coil (using R410A refrigerant) – fitted with a solenoid control valve, freon filter, contact temperature sensors on the liquid and gas line, and NTC sensors on the upstream and downstream air flows. The built-in electric box is equipped with a PCB to control the internal fan speed and to interconnect the outdoor and indoor units, and the ducts are connected by circular plastic collars.

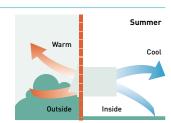
Characteristic curves

The following curves show the unit external static pressure at maximum fan speed for each model.



Balanced Ventilation







CONEX



Optional controller. CONEX wired remote controller. CZ-RTC6 - CZ-RTC6BL



Optional Controller. Control for hotel application. PAW-RE2C4



Optional Controller.
Wired remote
controller.
CZ-RTC5B

Indoor unit		PAW-50	0ZDX3N	PAW-80	0ZDX3N	PAW-01KZDX3N			
	Voltage	٧	230		23	30	230		
Power supply	Phase		Single	phase	Single	phase	Single phase		
	Frequency	Hz	Ę	50	5	0	5	50	
Air flow		m³/min	8,	33	13	,33	16	,67	
External static pres	sure 1)	Pa	ç	70	1:	20	1	15	
Maximum current	Total full load	Α	0	,6	1,4		2,1		
Input power		W	150		320		390		
Sound pressure 2)		dB(A)	39		42		43		
Dining disperse	Liquid pipe	Inch (mm)	1/4 (6,35) 1/4(6,35)	1/4 (6,35)	
Piping diameter	Gas pipe	Inch (mm)	1/2 (12,70)	1/2(1	2,70)	1/2(12,70)		
Heat recovery			Cooling	Heating	Cooling	Heating	Cooling	Heating	
Temperature efficie	ncy	%	76	76	76	76	76	76	
Enthalpy efficiency		%	63	67	63	65	60	62	
Saved power summer mode or winter mode* kW		1,70	4,30 (4,80)	2,50 6,50(7,30)		3,20	8,20 (9,00)		
DX coil									
Total / Sensible capacity kW		3,00/2,10	2,50/2,70	5,10/3,50	4,40/4,80	5,80/4,10	5,20/6,70		
OFF temperature		°C	15,9	28,0 (27,3)	15,5	29,6(29,0)	16,2	28,5 (27,8)	
OFF relative humidi	ty	%	90	16 (15)	90	14(13)	89	15 (14)	

Nominal summer conditions: Outside air: 32 °C DB, RH 50 %. Ambient air: 26 °C DB, RH 50 %. Nominal winter conditions: Outside air: -5 °C DB, RH 80 %. Ambient air: 20 °C DB, RH 50 %. Cooling mode air inlet condition: 28,5 °C DB, RH 50 %; evaporating temperature 7 °C. Heating mode air inlet condition: 13 °C DB, RH 45 %]; condensating temperature 40 °C. DB: Dry Bulb; RH: Relative Humidity.

1) Referred to the nominal air flow after filter and plate heat exchanger. 2) Sound pressure level calculated at 1 m far from: ducted supply exhaust air ducted return - first air intake / service side, at normal condition. * Tentative data.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
PAW-RE2C/-MOD-WE	Modbus RS-485 touch room controller with I/O White

Accessories	
PAW-RE2D4-WH	Touch display control with 2 digital inputs, White
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, Black
PAW-RE2D4-BK	Touch display control with 2 digital inputs, Black

Interconnection

This ventilation unit is connected to an ECOi indoor unit (3,0 kW, 4,0 kW or 4,5 kW) and can be controlled by the easy-to-use ECOi remote controller.

This capability makes the system an excellent choice for hotels, offices (large and small), educational settings and other buildings requiring different temperatures in multiple rooms. The system also integrates easily with building management systems.

Technical focus

 Motorised heat recovery by-pass device automatically controlled by unit control to use fresh air free-cooling when convenient

General characteristics

- Galvanized steel self-supporting panels, internally and externally insulated
- High efficiency enthalpic heat recover, static cross flow type, made by membrane with high moisture permeability, good air tightness, excellent tear, and aging









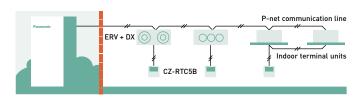




resistance, structure consisting of flat and corrugated plates. Total heat exchange with temperature efficiency up to 76 % and enthalpy efficiency up to 67 %, also at high level during summer season

- \cdot ISO16890 ePm $_{2,5}$ 95 % (F9 EN 779) efficiency class filter with synthetic cleanable media and COARSE 50 % (G3 EN 779) pre-filter ON fresh air, COARSE 50 % filter on return air intake
- \cdot Removable side panel to access filters and heat recovery in the event of scheduled maintenance
- · Low consumption, high efficiency and low noise direct driven fans
- Supply section complete with DX coil (R410A) fitted with solenoid control valve, freon filter, contact temperature sensors on liquid and gas line, NTC sensors upstream and downstream of air flow
- · Built-in electric box equipped with PCB to control internal fan speed and to interconnect outdoor / indoor units
- · Duct connection by circular plastic collars
- · CZ-RTC5B Timer remote controller (option)

Interconnection to outdoor / indoor units



Electric air curtains

The Panasonic range of air curtains is designed for smooth operation and efficient performance. Air curtains produce a continuous stream of air blown from the top to the bottom of an open doorway and create a barrier that people and products can flow across, but air cannot.



Electric air curtain

- Newly designed to maximize performance
 High air flow upgraded 145 % compared to
 conventional model (in the case of FY-3009U1).
- Comprehensive product line up
 1,5 m wide model added in the line up.







			FY-3009U1	FY-3012U1	FY-3015U1
Width		mm	900	1200	1500
Voltage		V	220	220	220
Air flow	Hi / Lo	m³/h	1100/920	1400/1270	2000/1800
Consumption	Hi / Lo	W	76/70	94/85	131/110
Current	Hi / Lo	А	0,35/0,32	0,43/0,40	0,59/0,50
Air speed	Hi / Lo	m/s	10,50/8,50	9,50/8,00	10,50/9,50
Sound pressure		dB(A)	48,5/45,0	48,5/44,5	51,5/48,0
Dimension / Net weight	HxWxD	mm / kg	900 x 231,5 x 212/12,0	1200 x 231,5 x 212/14,5	1500 x 231,5 x 212/18,0

Electric air curtain with DX coil

Designed to improve energy efficiency, minimise heat loss from a building, and allow retailers to keep doors open to encourage customers, our air curtains are suitable for connection to both VRF and PACi Systems.



Highly efficient heating effect

The combined air stream, which has a desirable low air current induction factor (mixing factor), can carry the selected initial temperature effect over long distances, and will reach the floor area while still at room temperature. This is necessary to avoid cooling down the interior

Available in different lengths to suit requirements between 1 and 2,5 m, both air curtains have outlet grilles that can be adjusted to five different positions. The HS model can be installed up to a height of 3,0 m with the LS model up to 2,7 m. The outlet grilles can be easily adjusted into five positions to suit different installation requirements and the air filter can be accessed without the need for specialist tools.

- · High performance with EC fan motor (40 % lower running costs compared to a standard AC fan motor)
- · Easy Cleaning and Servicing
- · Can be connected to either Panasonic VRF or PACi systems

Heating capacity comparison: Electrical air curtain / Panasonic air curtain.



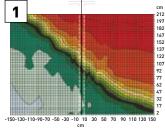
- · Optional drain pump for cooling operation
- · HS and LS models can be controlled via Panasonic's range of remote internet controls

The HS and LS models are ideal for connection to a ECOi or PACi system. With simple "plug and play" installation, both are fitted with an EC fan motor for a smooth operation and efficient performance. This fan guarantees 40 % lower running cost than with a standard AC fan motor. Air curtains run approximately 12 hours per day at shops, and efficient performance contributes to energy savings.

Optimised air flow velocity

- 1 | Energy losses, no air curtain installed
- 2 | Too low velocity air curtain air curtain not efficient
- 3 | Too high velocity air curtain considerable turbulence, energy lost to the outside, air curtain not efficient

2

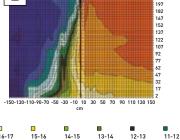


19-20

In an unprotected opening the cold air flows

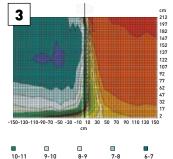
out and the cold storage room becomes

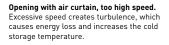


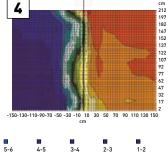


Opening with air curtain, wrong angle. If the angle is too small the hot air is blown into the cold storage room.

4 | Optimum results with the Frico air curtain connected to Panasonic VRF







Opening with correctly adjusted air curtain. With a correctly set air curtain unit there is a sharp separation between the different temperature zones

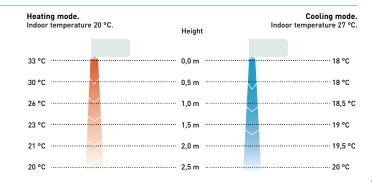
Intelligent operation

20-21

much too warm

21-22

Our air curtains combine air flow and heating / cooling technology to ensure optimum comfort and energy efficiency whilst also creating an effective barrier between indoor and outdoor environments. Design and installation is key to achieving the correct height / temperature settings to achieve optimum performance. Our air curtains are designed to answer the demands of the retail, commercial and industrial markets.





Air curtain with DX coil, connected to PACi systems

Comfort: Easy redirection of air flow by means of manual deflector.

Ease of use: Speed selector (high and low) on the unit itself.

Easy installation and maintenance: Easy installation / Compact dimensions improve installation and positioning / Easy cleaning of grid without opening of the unit.

Outdoor unit			7,1 kW	10,0 kW	14,0 kW	20,0 kW
Air outlet height 2,7 m			PAW-10PAIRC-LS-1	PAW-15PAIRC-LS-1	PAW-20PAIRC-LS-1	PAW-25PAIRC-LS-1
Cooling capacity 1)	Max	kW	6,1	9,7	13,0	17,0
Heating capacity 2)	Max	kW	7,9	12,0	15,0	19,0
Air flow	High	m³/h	1800	2700	3600	4500
Heat Exchanger	Volume	L	1,67	2,85	3,94	5,03
Electric consumption fan	230 V / 50 Hz	kW	0,30	0,50	0,60	0,80
Current	230 V / 50 Hz	Α	2,10	3,10	4,10	5,10
Sound pressure 3	Max	dB(A)	65	66	67	69
Air outlet height 3,0 m			PAW-10PAIRC-HS-1	PAW-15PAIRC-HS-1	PAW-20PAIRC-HS-1	PAW-25PAIRC-HS-1
Cooling capacity 1]	Max	kW	9,1	13,0	19,5	23,7
Heating capacity 2]	Max	kW	11,8	15,8	23,6	27,6
Air flow	High	m³/h	2700	3600	5400	6300
Heat Exchanger	Volume	L	1,67	2,85	3,94	5,12
Electric consumption fan	230 V / 50 Hz	kW	0,75	1,00	1,50	1,75
Current	230 V / 50 Hz	Α	4,10	5,50	8,20	9,60
Sound pressure 3)	Max	dB(A)	66	67	68	68
Common data						
Dimension 4)	HxWxD	mm	260 (+140) x 1000 x 460	260 (+140) x 1500 x 460	260 (+140) x 2000 x 460	260 (+140) x 2500 x 460
Netweight	Air outlet height 2,7 m	kg	50	65	80	95
Net weight	Air outlet height 3,0 m	kg	55	65	85	110
Fan type			EC	EC	EC	EC
Piping diameter	Liquid pipe / Gas pipe	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 3/4 (19,05)	3/8 (9,52) / 7/8 (22,22)	3/8(9,52) / 7/8 (22,22)
Door width		m	1,0	1,5	2,0	2,5
Refrigerant			R32	R32	R32	R32

1) Cooling capacity DX coil, air temperature in / out +27 / +18 °C, R32 and R410. 2) Heating capacity condenser, air temperature in / out +20 / +33 °C, R32 and R410. In the case of lower outdoor temperatures, an outdoor model with higher capacity may be necessary. 3) Measured in distance up to 5,0 m, direction factor 2, absorbing surfaces 200 m², Min / Max air flow. 4) 140 mm is the height of an electrical box if it is installed on the top.

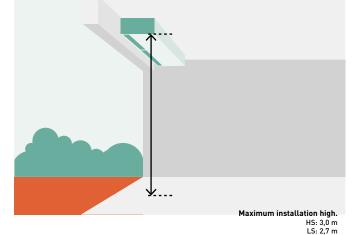
Accessories	
PAW-AIR1-DP	Optional drain pump

Technical focus

- · Now compatible with PACi NX Series
- Save up to 40 % energy costs by use of the integrated EC fan technology (higher efficiency than conventional AC fan, soft start and longer motor duration)
- · 4 length of air curtain LS and HS are available 1,0, 1,5, 2,0 and 2,5 m
- · Installation height up to 3,0 m
- Outlet grilles can be adjusted in five positions, to suite different indoor and installation requirements
- · Control with Panasonic remote control systems (optional)
- Direct integration to BMS by optional Panasonic interfaces
- · Drip tray included in all DX air curtain steps

How does it work?

Stale air from the room is taken in and ejected near the door. This creates a 'roll of air' that shields the door area, mixing with the colder incoming air. It then turns away from the door, back into the room and toward the intake screen, where it is partly drawn in again. This flow of air helps to create a barrier for heat loss yet at the same time refreshes room air







Air curtain with DX coil, connected to VRF systems

Comfort: Easy redirection of air flow by means of manual deflector.

Ease of use: Speed selector (high and low) on the unit itself.

Easy installation and maintenance: Easy installation / Compact dimensions improve installation and positioning / Easy cleaning of grid without opening of the unit.

Outdoor unit			4 HP	4 HP	5 HP	8 HP
Air outlet height 2,7 m			PAW-10EAIRC-LS	PAW-15EAIRC-LS	PAW-20EAIRC-LS	PAW-25EAIRC-LS
Cooling capacity 1]	Max	kW	6,1	9,7	13,0	17,0
Heating capacity 23	Max	kW	7,9	12,0	15,0	19,0
Air flow	High	m³/h	1800	2700	3600	4500
Heat Exchanger	Volume	L	1,67	2,85	3,94	5,03
Electric consumption fan	230 V / 50 Hz	kW	0,30	0,50	0,60	0,80
Current	230 V / 50 Hz	Α	2,10	3,10	4,10	5,10
Sound pressure 3)	Max	dB(A)	65	66	67	69
Air outlet height 3,0 m			PAW-10EAIRC-HS	PAW-15EAIRC-HS	PAW-20EAIRC-HS	PAW-25EAIRC-HS
Cooling capacity 1]	Max	kW	9,1	13,0	19,5	23,7
Heating capacity 2)	Max	kW	11,8	15,8	23,6	27,6
Air flow	High	m³/h	2700	3600	5400	6300
Heat Exchanger	Volume	L	1,67	2,85	3,94	5,12
Electric consumption fan	230 V / 50 Hz	kW	0,75	1,00	1,50	1,75
Current	230 V / 50 Hz	Α	4,10	5,50	8,20	9,60
Sound pressure 3)	Max	dB(A)	66	67	68	68
Common data						
Dimension 4)	HxWxD	mm	260 (+140) x 1000 x 460	260 (+140) x 1500 x 460	260 (+140) x 2000 x 460	260 (+140) x 2500 x 460
Ni-t	Air outlet height 2,7 m	kg	50	65	80	95
Net weight	Air outlet height 3,0 m	kg	55	65	85	110
Fan type			EC	EC	EC	EC
Piping diameter	Liquid pipe / Gas pipe	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 3/4 (19,05)	3/8 (9,52) / 7/8 (22,22)	3/8(9,52) / 7/8 (22,22)
Door width		m	1,0	1,5	2,0	2,5
Refrigerant			R32 / R410A	R32 / R410A	R32 / R410A	R32 / R410A

1) Cooling capacity DX coil, air temperature in / out +27 / +18 °C, R32 and R410. 2) Heating capacity condenser, air temperature in / out +20 / +33 °C, R32 and R410. In the case of lower outdoor temperatures, an outdoor model with higher capacity may be necessary. 3) Measured in distance up to 5,0 m, direction factor 2, absorbing surfaces 200 m², Min / Max air flow. 4) 140 mm is the height of an electrical box if it is installed on the top.

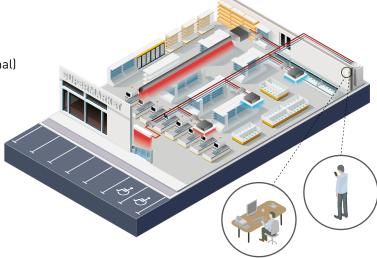
Accessories	
PAW-AIR1-DP	Optional drain pump

Technical focus

- · Compatible with R32 and R410A refrigerant
- Save up to 40 % energy costs by use of the integrated EC fan technology (higher efficiency than conventional AC fan, soft start and longer motor duration)
- \cdot 4 length of air curtain LS and HS are available 1,0, 1,5, 2,0 and 2,5 m
- · Installation height up to 3,0 m
- Outlet grilles can be adjusted in five positions, to suite different indoor and installation requirements
- · Control with Panasonic remote control systems (optional)
- Direct integration to BMS by optional Panasonic interfaces
- · Drip tray included in all DX air curtain steps

Internet control

An app added to your tablet or smartphone or via the Internet allows you to control and manage the system remotely. There is also the option to integrate into existing BMS systems by using other Panasonic interfaces.







High pressure duct and 100 % fresh air duct function for all ECOi and ECO G systems

The E2 range of ducted units offers improved design flexibility for extended duct layouts as a result of their increased external static pressures and reduces energy consumption, while providing fresh air to larger spaces.





E2 Type high static pressure hide-away • R410A

High pressure duct and 100 % fresh air duct function.

COMPATIBLE WITH ALL PANASONIC CONNECTIVITY SOLUTIONS. FOR DETAILED INFORMATION GO TO THE CONTROL SYSTEMS SECTION

Туре			100 % fresh air duct function (by using kit for 100 % fresh air)					High pressure duct			
Indoor unit			S-224ME2E5		S-280ME2E5		S-224ME2E5		S-280ME2E5		
			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Capacity		kW	22,4	21,2	28,0	26,5	22,4	25,0	28,0	31,5	
Input power		W	290,00	290,00	350,00	350,00	440,00	440,00	715,00	715,00	
Current		Α	1,85	1,85	2,20	2,20	2,45	2,45	3,95	3,95	
Air flow	Hi / Med / Lo	m³/min	28,3/	-/-	35,0/—/—		56,0/51,0/44,0		72,0/63,0/53,0		
External static press	sure	Pa	200		200		140 (60 - 270) 1)		140 (72 - 270) 13		
Sound pressure 2]	Hi / Med / Lo	dB(A)	43/-	-/-	44/—/—		45/43/41		49/4	7/43	
Sound power	Hi / Med / Lo	dB(A)	75/-	-/-	76/—/—		77/75/73		81/79/75		
Dimension	HxWxD	mm	479 x 14	53 x 1 2 0 5	479 x 1453 x 1205		479 x 1453 x 1205		479 x 1453 x 1205		
Net weight		kg	102		106		102		106		
Dining diameter	Liquid pipe	Inch (mm)	3/8(9,52)	3/81	9,52)	3/8 (9,52)		3/8 (9,52)		
Piping diameter	Gas pipe	Inch (mm)	3/4 (19,05)		7/8 (22,22)		3/4(19,05)		7/8 (22,22)		

Rating Conditions for 100 % Fresh air duct function: Cooling Outdoor 33 $^{\circ}$ C DB / 28 $^{\circ}$ C WB. Heating Outdoor 0 $^{\circ}$ C DB / -2,9 $^{\circ}$ C WB.

1) Available to select the setting by initial setup. 2) Values with 140 Pa setting. * No filter included. ** No compatible with 3-Pipe ECO G GF3.

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, White

Accessories	
PAW-RE2D4-WH	Touch display control with 2 digital inputs, White
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, Black
PAW-RE2D4-BK	Touch display control with 2 digital inputs, Black
CZ-CENSC1	Econavi energy savings sensor

Technical focus

- \cdot No need of rap valve
- · 100 % fresh air duct function*
- · DC fan motor for more savings
- · Complete flexibility for ductwork design

- \cdot Can be located into a weatherproof housing for external siting
- · Air OFF sensor avoids cold air dumping
- · Configurable air temperature control
- * Rap valves required, see 100 % fresh air duct function below.

System example

An inspection port $(450 \times 450 \text{ mm or more})$ is required at the lower side of the indoor unit body (field supply).

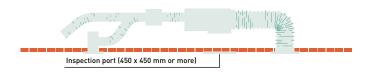
100 % fresh air duct function

The E2 duct with 100 % fresh air duct function have exceptional discharge temperature.

	Discharge Range		
	Min	Max	Default
Cooling	15 °C	24 °C	18 °C
Heating	17 °C	45 °C	40 °C

Plenums

Air outlet plenum (suitable for rigid + flexible duct)			
	Number of exits with diameters	Reference	
S-224ME2E5 / S-280ME2E5	1 x 500 mm	CZ-TREMIESPW706	



Kit for 100 % fresh air function

Kit for 100 % fresh air function for 2 way systems		
2x CZ-P160RVK2 Rap valve kit		
2x CZ-CAPE2	3 way control PCB	
CZ-P680BK2BM	Distribution joint kit	
1x remote controller		

Kit for 100 % fresh air function for 3 way systems		
2x CZ-P160HR3 3 way valve Kit		
2x CZ-CAPE2 3 way control PCB		
CZ-P680BH2BM Distribution joint kit		
	1x remote controller	



















Control and connectivity

Panasonic has developed the largest range of control systems to offer the best option for commercial needs.

From the individual remote controller for the residential single units up to the newest technology capable of controlling your building anywhere in the world. The simple to use cloud software can even be used from a portable device.

Control and connectivity map for Panasonic business area		
VRF Smart Connectivity+		
Smart multi-site control solution		
Panasonic AC Smart Cloud	→ 380	
Panasonic AC Service Cloud	→ 382	
Panasonic AC Smart Cloud and Panasonic AC Service Cloud packages	→ 384	
Commercial Wi-Fi Adaptor	→ 386	
CONEX. New devices and apps	→ 388	
Remote controller with Econavi	→ 392	
Datanavi	→ 394	
Intelligent controller	→ 396	
Econavi Sensor	→ 398	
Controller for hotel application	→ 400	
BMS interface with P-Link	→ 402	
Control and connectivity	→ 404	
Individual controllers wired	→ 406	
CONEX wired remote controller	→ 406	
Room controller for hotel rooms	→ 406	
Display control for hotel rooms		
Design wired remote controller		

Individual controllers wireless	\rightarrow 408
Infrared remote controller	\rightarrow 408
Remote sensor	→ 408
Centralised controllers	→ 409
System controller with schedule timer	→ 409
ON / OFF controller	→ 409
Intelligent controller (touch screen panel)	→ 410
P-AIMS core software	→ 411
Local adaptor for ON / OFF control	→ 412
Mini Seri-Para I/O Unit 0 -10 V	→ 412
Communication adaptor for VRF connectivity	→ 413
PACi and VRF connectivity	→ 414
ECOi, ECO G and PACi connectivity indoor units	→ 416
T10 connector (CN061)	→ 416
Fan drive connector (CN032)	→ 417
Option connector (CN060) output external signals	→ 417
EXCT connector (CN009)	→ 417











Control and connectivity map for Panasonic business areas

A wide range of control and connectivity solutions to suit a variety of applications. Integration capability, scalable solutions and smart connectivity offer a unique portfolio to meeting every customer's needs.

Integration to Home Automation or KNX.

Simple and flexible solution to integrate Panasonic heating and cooling systems into smart home energy solutions.



CONEX.

Simple and intuitive control with smart apps availability 1]. Each of the specialized apps, for owners or HVAC&R professionals, support daily operation. Allows connection of one, or a group of indoor units, to Panasonic Comfort Cloud App, which provides control, monitoring, scheduling and error alerts.

Small retails

Compatible with Voice Control 2].

REFER TO PAGE 388 FOR MORE DETAILS

¹⁾ App connectivity available with CZ-RTC6BL and CZ-RTC6BLW.

²⁾ Alexa, Google Home.... Giving indication of compatible options.
3) Panasonic AC Smart Cloud connection required to access Panasonic AC Service Cloud.
4) 2 DI on standard version and 4 DI/D0 available on Modbus version.
5) 128 indoor units as standard, additional communication adaptor required for 256 units.



Panasonic AC Smart / Service Cloud.

Smart multi-site solution provides users with complete scalable control for all business installations, 24/7, from any connected location.

Panasonic AC Smart Cloud for business owners and Panasonic AC Service Cloud ³⁾ for HVAC service/maintenance companies.

23.5°

VRF Smart Connectivity+.

Control the air quality of guest rooms utilising ${\rm CO}_2$ and humidity sensors. Easy BMS integration for entire building management.

REFER TO PAGE 374 FOR MORE DETAILS

REFER TO PAGE 380 FOR MORE DETAILS

Hotels



Controller for hotel application.

Intuitive controller allowing up to 4 digital inputs and outputs ⁴⁾. Perform the most common operations in hotel rooms, such as key cards and window contacts.

REFER TO PAGE 400 FOR MORE DETAILS

Intelligent controller.

Centralized controller with large LCD touch screen display. Maximum 256 ⁵¹ indoor units connectable, ideal for larger buildings.

REFER TO PAGE 396 FOR MORE DETAILS



Offices / Large buildings

Integration with BACnet or Modbus.

Easy and reliable solution to integrate Panasonic heating and cooling systems into the building management systems in your business.

VRF Smart Connectivity+

Through thorough energy management, Panasonic's VRF Smart Connectivity+ is a completely new, state-of-the-art solution providing energy saving and comfort as well as simple installation, operation and running.





VRF Smart Connectivity+ offers efficient energy management and a new air conditioning control solution with high IAQ (indoor air quality).

Panasonic



Energy management system for rooms.

Each room is monitored by high-precision sensors, making it possible to make every room's temperature comfortable without wasting energy.

Management system for the entire building.

A Building Energy Management System (BEMS) can also be connected for Plug & Play centralised control of the building's entire energy consumption.

Quality air control

Optimum IAQ is realized using the CO_2 and humidity sensors. The interior environment remains comfortable, while heating and cooling costs are minimized.

The CO₂ sensor can control ventilation systems, which contribute to improving the room's air quality.

Easy installation and integration

A remote controller is all that's required for occupancy control and optimum automatic indoor air quality (IAQ) control. Simple operation with a rented interface further contributes to increased energy efficiency and productivity for reduced capital expenditure (CapEx) and operating expense (OpEx).

Other equipment control

One room controller manages various devices including lighting and the blinds.

A ventilation system and other external connection devices control is possible with this BEMS.





Door/window sensor.Door and window contact detection sensor to monitor opening and closing.



Wall/ceiling motion/temperature/humidity sensor.

Wall and ceiling sensor to detect the presence or absence of occupants.



CO₂ /temperature/humidity sensor.

Monitor indoor air quality, review data

Monitor indoor air quality, review data on interfacing devices, and control fresh air inside customisable zones.



Water leakage sensor.

Two sensing pads under the body activate when water is present between the two pads. Detecting the water, the sensor reports the event to the controller (and BEMS).



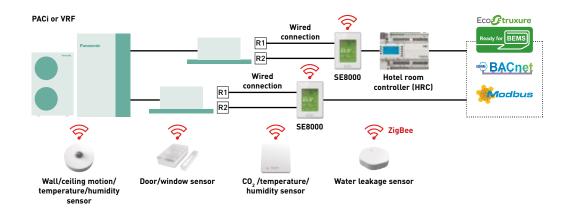
Hotel Room Controller (HRC).

The Hotel Room Controller controls connected guest room devices and aggregates data, making it visible to guest room and property management systems.

VRF Smart Connectivity+

Energy management system for rooms.

By installing a wall/ceiling motion temperature sensor, window/door sensor, and CO₂ sensor in the room, ideal, wastefree air conditioning is achieved.

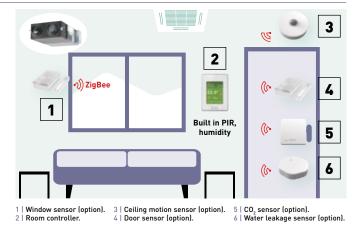


Sensing and control technology

Using sensors from Schneider Electric, high-quality occupancy control and automatic IAQ control are realised. The sensors detect the presence or absence of occupants, and the opening and closing of doors and windows to achieve the most efficient energy management for exceptional air-conditioned comfort.

Flexible installation is possible to match different applications and building features such as walls, ceilings and proximity to doors and windows. No wiring means extra installation versatility.

Batteries last for up to five years (10-year battery for ${\rm CO_2}$ sensor) and are easy to install and replace.













VRF Smart Connectivity+

Smart management solutions.



Hotel

Room key card or key cardless solutions for hotels. The SE8000 and ZigBee sensor automatic detection function offer optimal air conditioning regardless of whether there is a hotel room key or not. Sensors detect the presence or absence of occupants and the opening and closing of doors and windows for the optimum air-conditioned environment guests expect. Automatic control ensures the most efficient operation when guests are away or when windows are open. This contributes to an appreciable reduction in operation



Small and medium offices

CO, sensors (option) and humidity sensors.

 ${\rm CO}_2$ sensors (option) take measurements in units of ppm, and humidity sensors enable fine air quality control. This creates the most comfortable space for occupants while contributing to improved employee satisfaction.



Super markets

Humidity sensors.

Humidity sensors enable automatic dehumidification for the optimum IAQ regardless of climatic conditions. This creates an even more comfortable environment for customers, employees, and products themselves.

Innovative and unrivalled advantages



Colour and design to match office interiors.

Colour combinations and design can be set to match different facilities.



Easy-to-understand error description.

Error description during an emergency is easy to understand, enabling staff to respond quickly.



Customisation in 22 languages possible.

The display can be customised to match the native languages of guests to enable smooth, stress-free communication for hospitality at its finest.



Programmable logic.

Full customisation of remote controller logic possible, and updating to match conditions.

Smart multi-site control solution

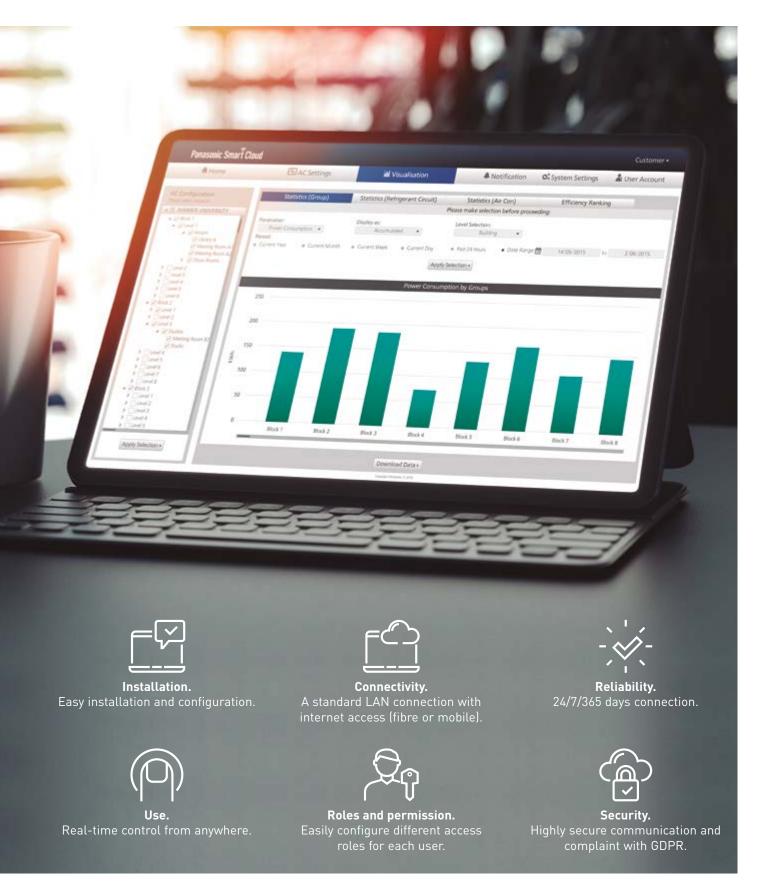
Modern and scalable energy management for your Heating & Cooling Solutions. Smart multi-site control solution. One screen endless possibilities.

The new smart multi-site control solution from Panasonic allows you to have complete control of all your installations.

With a simple click, all your units from several locations, receive status updates in real-time preventing breakdowns and optimising costs.







What Panasonic provides you?



Energy savings.

AC can be between 40-60% of the total electricity bill.

Even small setting changes might impact in real huge saving of your buildings.
Panasonic AC Smart Cloud provides you energy consumption data of your site and energy saving functions such as control setting limitation, auto off, scheduling, temperature range limits etc.



Downtime.

System "downtime" can impact the customers buying experience / productivity.

Keep your business always running, reducing the risk of system time down. Detecting potential failures in advance or fixing them quicker if it happens.



Healthy comfort.

How to secure comfort environment by avoiding wrong AC operation?

Wrong temperature settings might drive into people discomfort and also unhealthy environment for employees, visitors or customers. Allow to analyse the set point and room temp history, and fix the right mode and temperature for each room.



Service speed.

On average, 2-3 AC technician' visits are required on site when an error/issue appears in an AC system.

Avoid wasted site visits, analysing the behavior of the AC system remotely without necessity of a technician visit on site.



Maintenance.

A proper maintenance schedule prevents future malfunctions and reduces energy consumption.

Check remotely all the advanced parameters of the system and plan the maintenance properly. Assigning the right engineer for the required task.



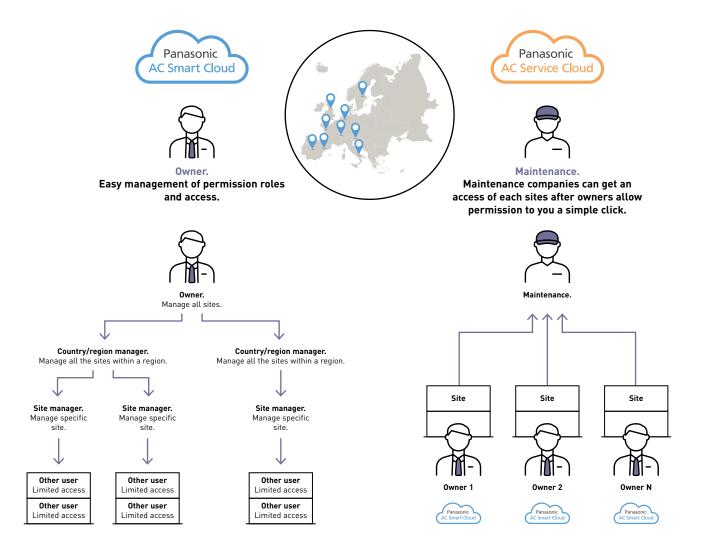
Life of system.

Replacing to new HVAC is a huge impact on investment.

Making good use of the system, taking earlier action when abnormal signal occurs and keeping regular maintenance will expand the life your system, but also will keep the expected performance operation.

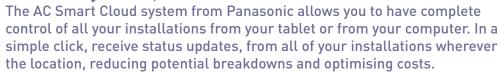
Full multi-site and user control.

Panasonic Smart and Service Cloud is based in location, each location can allow access for multiple users whether in the same building or via remote access. The scalability allows addition of multiple sites and customise the access of your trusted service.



Panasonic AC Smart Cloud

Centralise control of your business premises, from wherever you are, 24/7/365.







Comfort Keep the comfort of workers, visitors and/or customers to increase satisfaction and productivity.

Return on investment Optimising the operation of your heating and cooling system and the possibility to monitor remotely can expand the life of your assets.

Lower running cost The control of settings in real time and the energy consumption monitor contributes to reduce your energy bill.

Flexible solution for your business

















Scalable solution for your business



1) Customized to meet user demand / Continuous upgrades: new functions and product introductions / IT smart management. 2) CZ-CAPRA1 is required.

Key functions and uniqueness



Multi-site monitoring. It doesn't matter how many sites you have. It is easy to manage, operate, compare sites, locations and rooms,





Powerful statistics for energy

Power consumption, capacity and efficiency level can be compared with different parameters (yearly / monthly / weekly / daily basis)



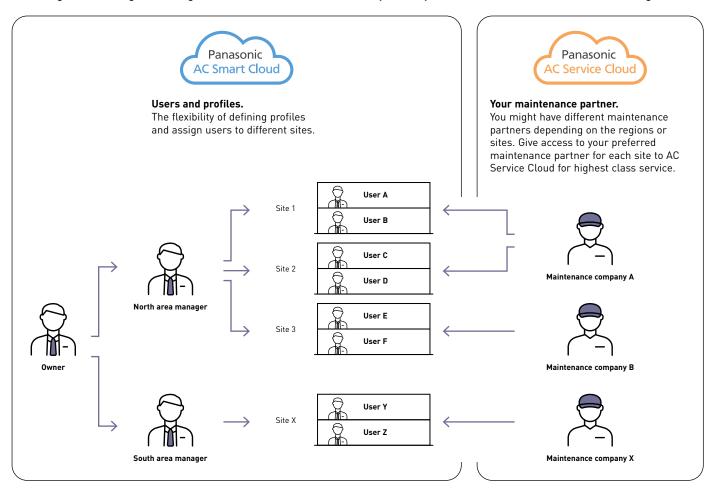
Maintenance notification. Receive an error notification by

email and with floor layout: Maintenance notification of

- ECOi / ECO G outdoor units
- Remote service checker

Controller multi-site

Including all advantages for single site, AC Smart Cloud scalability offers you a excellent tool for multi-site management.



List of features

Panasonic AC Smart Cloud	Functionalities
Home screen	Overview of: operating status, location map, weather information, notification, energy consumption, efficiency, eco-friendly building list
AC settings	Indoor unit monitoring and remote control, outdoor unit details, cloud adapter details, floor map view, maintenance notification (installer)
Visualization	Statistical data regarding energy consumption, capacity and efficiency ranking; per indoor unit, unit group or refrigerant circuit
Notification	Warnings and alarms, maintenance intervals
Schedule	Schedule settings and results
Energy saving	Temperature range limits, unattended auto shutoff, temperature auto return, energy saving timer, demand/peak shaving
Demand control	Indoor unit and outdoor unit demand settings
Event control	Control inputs: alarms, digital inputs, indoor units. Control outputs: digital outputs, indoor units
System settings	CO ₂ factor, distribution groups, area allocation, cut-off requests, site management, group display, site location, software version
User account	New user registration, updating users, user lists, user roles
Floor map Editor	Floor map import and unit assignment
Help	Installer information, alarm mail setting, user data, account management, company/customer information, terms of use, privacy notice, cookie policy, user manual, FAQ. For installers: user manual, technical data, installation instructions
Additional functions for installers	Cloud adapter installation process, remote service checker data recording and download, remote cloud adapter firmware update

Panasonic AC Service Cloud

Panasonic AC Service Cloud provides maintenance companies a unique tool to deliver advanced service and maintenance features, decreasing response times, reduce sites visits and better allocate resources.





- Response time and zero down time

 Providing technical information about abnormalities and checker functions remotely enables the AC installer and maintainer to identify and fix issues much quicker, even before it occurs.
- Reduce unnecessary trips
 It reduces the cost of unnecessary trips, reducing the CO₂ emissions associated to the transport.

Maintenance planning

With a simple click, easily identify the nature of potential issues, enabling issue classification, prioritisation of resources and better planned site visits, through assigning the right engineer for the job.

All at a glance and scalability

Remotely view all sites requiring maintenance of Panasonic HVAC. Increase the number of sites maintained, taking advantage of future updates and features of the Panasonic AC Service Cloud.

Key functions



All sites at a glance.



Topology.



Floor map view.



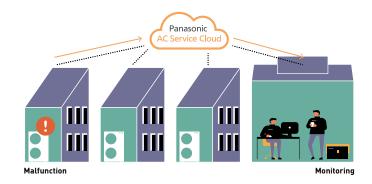
Alarm status.

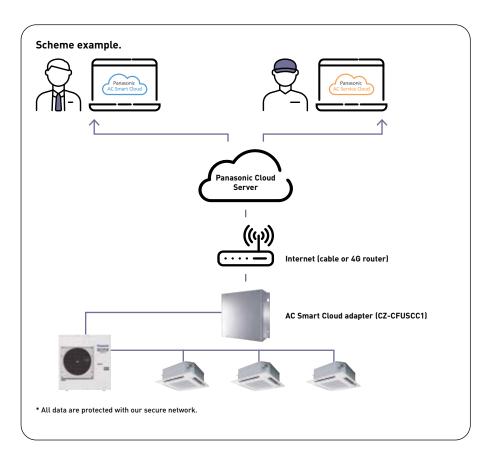
Owners can manage different maintenance companies for each site, enabling or disabling access with just one click. Maintenance companies can have access to all sites where different owners gave permissions.

New system health check function

Self diagnosis function is ready in the Panasonic AC Service Cloud. It automatically detects potential malfunctions and helps to speed up your service process.

- · Consecutive automatic monitoring at 15 minute intervals
- \cdot Key notifications in the event potential malfunction is detected
- · 2D graph display to help with detailed analysis
- · Threshold values can be easily adjusted
- * For compatible models, please contact an authorized Panasonic dealer.





Technical requirements:

- · CZ-CFUSCC1 AC Smart Cloud adaptor
- · Internet connection via: LAN with access to internet

Optional hardware:

- · CZ-CAPRA1 integration of RAC systems
- Pulse meters (supplied by others): up to 3 pulse meters (gas or power meters) can be connected to the cloud adapter, extendable by additional communication adapters (CZ-CFUSCC2)

Systems supported by AC Smart Cloud adapter:

- · ECOi
- · ECO G
- · PACi / PACi NX
- · RAC (an interface CZ-CAPRA1 is required)

List of features

Panasonic AC Service Cloud	Functionalities
Home screen	Map view and site view with site names, connection status and alarm status
Status	Alarm status, site topology, remote service checker, indoor unit monitoring and remote control, outdoor unit details, floor map view with service manual download
Statistics	Refrigerant circuit view (current data and recorded data), data table view, 2D graph view
Maintenance settings	Notifications and alarms, maintenance intervals setting (operating hours)
Customer list	List of connected customers, requests to access customer sites
Cloud adapter	Cloud adapter installation wizard, remote firmware update
Floor map editor	Floor map import and unit assignment
Help	Alarm mail setting, user data, account management, company/customer information, terms of use, privacy notice, cookie policy, user manual, user manual, technical data, installation instructions, FAQ

Panasonic AC Smart Cloud and Panasonic AC Service Cloud packages

Get the cloud base kit (CZ-CFUSCC1 + start up) and register to one of the subscription periods (1, 3 or 5 years).

The selection of the right Panasonic AC Smart Cloud package depends on the size of the installation.

	Items	Reference	Description
	Cloud base kit KIT-ACSCBASE32	CZ-CFUSCC1	Cloud adapter for PACi, ECOi and ECO G ¹⁾
		SR-ACSCSTART32	Panasonic AC Smart Cloud start up
Up to 32 indoor units	AC Smart Cloud subscription ²⁾	SR-ACSC1Y32	Subscription for 1 year
		SR-ACSC3Y32	Subscription for 3 years
		SR-ACSC5Y32	Subscription for 5 years
	Cloud base kit	CZ-CFUSCC1	Cloud adapter for PACi, ECOi and ECO G 13
	KIT-ACSCBASE64	SR-ACSCSTART64	Panasonic AC Smart Cloud start up
Up to 64 indoor units	AC Smart Cloud subscription ²⁾	SR-ACSC1Y64	Subscription for 1 year
		SR-ACSC3Y64	Subscription for 3 years
		SR-ACSC5Y64	Subscription for 5 years
	Cloud base kit KIT-ACSCBASE128	CZ-CFUSCC1	Cloud adapter for PACi, ECOi and ECO G ^{1]}
Up to 128 indoor		SR-ACSCSTART128	Panasonic AC Smart Cloud start up
	AC Smart Cloud subscription ²⁾	SR-ACSC1Y128	Subscription for 1 year
		SR-ACSC3Y128	Subscription for 3 years
		SR-ACSC5Y128	Subscription for 5 years
	Cloud base kit	4x CZ-CFUSCC1	Cloud adapter for PACi, ECOi and ECO G ^{1]}
Up to 512 indoor units	KIT-ACSCBASE512	SR-ACSCSTART512	Panasonic AC Smart Cloud start up
	AC Smart Cloud subscription ²¹	SR-ACSC1Y512	Subscription for 1 year
		SR-ACSC3Y512	Subscription for 3 years
		SR-ACSC5Y512	Subscription for 5 years

¹⁾ Only together with start up 2) Includes first 2 years of Panasonic AC Service Cloud. 3) Model references up to 192/256/320 indoor units are also available. One cloud adapter is required per 128 indoor units.

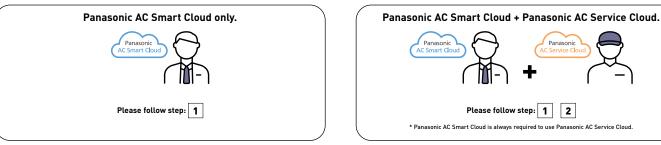
Additional optional services.

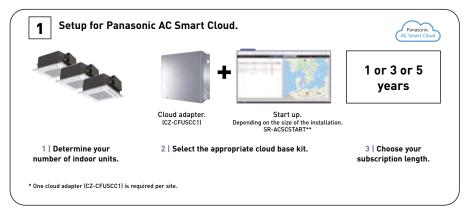
anasonic AC Service Cloud SR-ACSC1Y32M		Panasonic AC Service Cloud 1 year fee
Floor map ⁵⁾	SR-ACSC1FLRUP	Upload 1 floor map or maximum 32 units
Floor map ⁵⁾	SR-ACSC1FLRCR	Create 1 floor map or maximum 32 units
Indoor assign ⁵⁾	SR-ACSC32ASSIGN	Assign indoors up to 32 units
Power meter		For power meter hardware, please discuss with your local sales representative
4G Router	PAW-ACSCRTR4G	4G Router for Panasonic AC Smart Cloud
SIM card	PAW-ACSCSIM	SIM card without data amount
Data amount of SIM card	PAW-ACSCDAT32	Data amount 1 year fee
4G connectivity kit 5] KIT-ACSC4GCNT		4G connection kit including 4G Router and SIM card

⁵⁾ Floor map and indoor assignments can be done by customer without additional charge. 5) Data amount of SIM card is not included.

Selection steps

What service do you need? There are 2 options as follows.



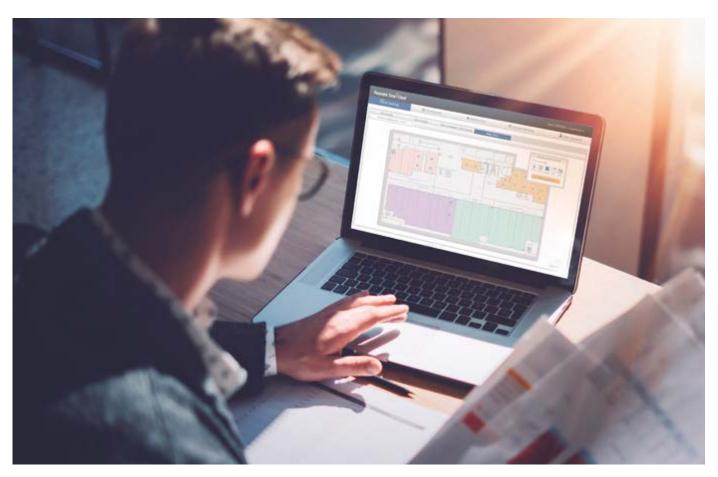


Setup Panasonic
Service Cloud

Determine your
number of indoor units and
purchase the Panasonic
Service Cloud access.

* Please order multiple by 32 if you have bigger
systems.

- 3 Choose optional services to suit your needs.
 - · Floor map
 - · Floor map creation
 - · Indoor assign
 - · Power meter
 - · 4G connectivity



Commercial Wi-Fi Adaptor

Panasonic CZ-CAPWFC1 interface adaptor, allows connection of one or a group of indoor units to Panasonic Comfort Cloud App, which provides control, monitoring, scheduling and error alerts.

Control PACi, ECOi and ECO G indoor units with your smartphone from wherever and whenever you are, by using Panasonic Comfort Cloud App and Commercial Wi-Fi Adaptor.







From 1 to 200 units

User can control up to 10 different sites, with up to 20 units / groups per site.

Additionally, one adaptor can be connected to 1 indoor or to a group of up to 8 indoors.

Voice control compatible Registering the unit to Panasonic Comfort Cloud App it makes it compatible with the most popular voice assistants.

Multi user The Panasonic Comfort Cloud App allows multi-user access control, whilst allowing user restriction to specific units.

Easy scheduling

Complex weekly scheduling made simple. Not only for one unit, but across multiple sites and from a smartphone.

Energy monitor See the estimated power consumption and compare with other periods, to see how energy consumption can be further reduced. Check list of units that provides consumption*.

* Function available depending on the model.

Error codes Error code notification through the App, provides early notification and allows for faster repair.



Advanced smartphone control

This scalable solution is ideal for one system, one site or multiple locations. Coupling the adapter with the already feature rich systems, makes it an ideal solution for residential and commercial applications.

Home screen



Basic settings



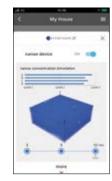
Statistics



Weekly timer

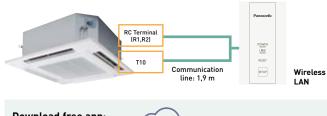


nanoe™ X simulation

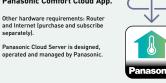


Connection Diagram

Commercial Wi-Fi Adaptor wiring length is 1,9 m and connects to indoor unit thru T10 connector and R1/R2 terminal connectors.



Download free app: Panasonic Comfort Cloud App. Other hardware requirements: Router and Internet (purchase and subscribe separately).







Input Voltage	DC 12 V (supplied from T10 connector)
Power Consumption	Maximum 2,4 W
Size (HxWxD)	120 x 70 x 25 mm
Weight	190 g (including communications lines)
Interface	1 x Wireless LAN
Wireless LAN Standard	IEEE 802,11 b/g/n
Frequency Range	2,4 GHz band
Operating range	0 ~ 55 °C, 20 ~ 80 RH%
Connectable indoor unit	1 unit
Length of communication line	1,9 m (included in the shipment)

CONEX. Devices and apps

CONEX provides comfort and control for varying user needs. Accessible, flexible and scalable with different controllers and apps. Perfectly meeting requirements of modern controls for end user, installer and service. With nanoe™ X function, technology with the benefits of hydroxyl radicals.











Intuitive operation with simple and modern design panel. Sophisticated design with black flat panel and compact body. From residential to commercial, the wired remote controller series perfectly matches with all kinds of modern building. It enables user to recognize each function with a simple glance.

- Intuitive control with stylish design
 - · Simple operation at a glance
 - · Clean face with full flat and black LCD display
 - · Compact body, only 86x86 mm

- Quick and easy app set-up for system setting
- Easy maintenance with service support app
 - Panasonic H&C Diagnosis App enables the user to obtain detailed system operation data
 - * The use of apps depends on the remote controller model.

Control comfort with your smartphone

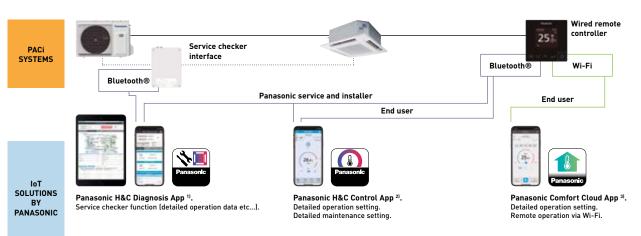
- · Flexible control options with IoT integration
- · New Panasonic H&C Control App for daily remote control operation
- · Panasonic Comfort Cloud App for remote operation 24/7/365

CONEX with IoT integration

The wired remote controller series is fully integrated with IoT solutions developed by Panasonic. Detailed operation, maintenance setting and service operation are all possible with smartphone or tablet.



https://youtu.be/_USzG_9f6bk



CONEX

1) A service checker interface is required when this app is used from outdoor location. Wired remote controller (CZ-RTC6BL or CZ-RTC6BLW) is required when this app is used from indoor location. Available from winter 2020, compatible with PZ3 and PZH3 outdoor units. 2) CZ-RTC6BL or CZ-RTC6BLW required.

Service checker interface.

The service checker interface provides easy access to service parameters and service checker data via Bluetooth®.

- · A new service checker interface* for PACi NX Series
- · Bluetooth® connection
- · Panasonic H&C Diagnosis App
- * Available as a spare part, compatible with PACi NX Series.

Input voltage	220-240 V ~ 50-60 Hz (supplied from outdoor unit)
Power consumption	Maximum 2,4 W (including outdoor units)
Size (HxWxD)	175 x 125 x 50 mm
Weight	_
Interface	Bluetooth® 4.2 or later
Frequency range	2,4 GHz band
Operating range - Temperature / Humidity	0 ~ 40 °C / 20 ~ 80 % (no condensation)

Frequency band in which the radio equipment operates; 2402 - 2480 MHz.





radio-frequency power transmitted in the frequency bands in which the radio equipment operates; +0 dBm.

CONEX. Devices and apps

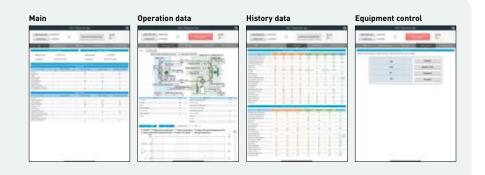
Flexible control options with IoT integration. 3 different apps for individual usage.

Panasonic H&C Diagnosis App for service and installer

Tool for diagnosis and troubleshooting.

Available functions:

- · AC control
- System view
- Refrigerant circuit view
- · Real-time data
- Indoor unit
- Outdoor unit
- · Refrigerant cycle diagram and graph
- · Data recording
- · History data
- · Error code tables



Panasonic H&C Control App for end user, service and installer

Detailed operation setting. Detailed maintenance setting.

Available functions:

- \cdot ON / OFF, mode, temperature, air flow volume, air flow direction
- · Weekly timer
- · All energy saving functions
- Alarm display and historyFilter sign
- · Test run
- · Sensor value monitor
- · Simple setting mode
- · Detailed setting mode
- $\cdot \; \text{Key lock}$
- · Ventilation fan control
- · Display contrast adjustment
- · Rotation, redundancy
- $\cdot \; \text{Quiet mode} \\$
- \cdot nanoeTM X
- · Power consumption
- · Unit naming



Panasonic

Panasonic

Panasonic Comfort Cloud App for end user

Remote operation via Wi-Fi.

Available functions:

- \cdot ON / OFF
- $\cdot \; \mathsf{Mode}$
- · Temperature
- · Air flow volume
- · Air flow direction
- · Weekly timer
- · Temperature setting range limitation
- · Energy monitoring
- · Alarm display
- · nanoe™ X





Connectivity matrix







Model	CZ-RTC6	CZ-RTC6BL	CZ-RTC6BLW
Wired connection compatible with	PACi, PACi NX, ECOi, GHP	PACi, PACi NX, ECOi, GHP	PACi NX only
Wireless functions	No wireless capability	Bluetooth®	Bluetooth® + Wi-Fi
App compatibility			
Panasonic Comfort Cloud App	_	_	v
Panasonic H&C Control App	-	✔ PACi, PACi NX, ECOi, GHP	✔ PACi NX only
Panasonic H&C Diagnosis App 11	_	✔ PACi NX only ²⁾	✔ PACi NX only ²
Outdoor unit settings (remote controller connected to indoor unit)	✔ PACi NX only ²⁾	✔ PACi NX only ^{2]}	✔ PACi NX only ²⁾

¹⁾ Compatible with U-71/100/125/140PZH3E5/8 and U-100/125/140PZ3E5/8. 2) When connected to PACi NX indoor and outdoor unit combination.

Function comparison

This shows the functions provided: a) by the remote controllers		Remote controller functionalities		Panasonic H&C Control App	Panasonic Comfort Cloud App	
b) by the apps		NAME OF THE PARTY	C O N E X	CONEX PARAMETER	E PRINCOS	CONEX
		CZ-RTC5B	CZ-RTC6	CZ-RTC6BL(W) + app	CZ-CAPWFC1 + app	CZ-RTC6BLW + app
Basic operation	ON / OFF, mode, temperature, air flow volume, air flow direction	V	~	V	V	V
	Time display	~	_	~	~	~
Timer functions	Easy ON / OFF timer	~	_	~	_	_
Tunctions	Weekly program timer	V	_	V	~	V
Energy saving	Outing function	V	~	<i>V</i>	_	_
	Temperature auto return	V	_	V	_	_
	Temperature setting range limitation	V	_	V	V	V
	OFF reminder	V	_	V	_	_
	Energy saving mode	V	_	V	_	_
	Schedule demand control	V	_	V	_	_
	Energy monitoring	V	_	V	V	~
	Econavi	V	✓	V	V	~
	System failure information (alarm history)	V	~	V	_	_
	Alarm display	V	~	V	V	~
	Service contact registration	~	_	V	_	_
Maintenance	Filter sign	V	~	V	_	_
	Test run	V	~	V	_	_
	Sensor value monitor	V	~	~	_	_
	Simple setting mode	V	~	~	_	_
	Detailed setting mode	V	~	V	_	_
Others	Key lock	V	~	V	_	_
	Ventilation fan control	V	_	V	_	_
	Display contrast adjustment	V	~	~	_	_
	Rotation	V	_	V	_	_
	Quiet operation mode	V	_	V	_	_
	nanoe™ X	V	~	<i>V</i>	V	· ·

Remote controller with Econavi

Easy to use, attractive, clear design, with new demand control functions and energy consumption display! This useful feature makes this remote controller unique!





Design

The CZ-RTC5B wired remote controller is ideal for integration into the most demanding interior architectures. The touch panel features a very sleek and easy to use display, which with its compact display is only $120 \times 120 \times 16$ mm.

Key functions

- · Easy setup of the timer and settings of the indoor unit
- · Energy consumption display (for all R32 PACi line-up)
- Limitation of the energy consumption (Demand control) by timer.

Display of information

The information is mainly based on pictograms to ensure easy understanding. The minimal amount of text is available in 6 languages (English / German / French / Spanish / Italian / Polish).

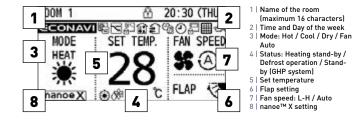
The screen is back lit to enable reading even during the night.

Easy access to the menus.

With the new pictograms, the navigation, the selection and the settings are simple and easy to follow.

Basic function (operation display and indication)

All functions are easily available on the remote controller. $\cdot \text{OFF/ON timer} \cdot \text{Weekly timer} \cdot \text{Quiet operation} \cdot \text{Remote}$ controller sensor $\cdot \text{Operation prohibit} \cdot \text{Filter sign} \cdot \text{Energy}$ saving $\cdot \text{Centralized control indication} \cdot \text{Mode change}$ prohibit $\cdot \text{Automatic temperature return} \cdot \text{Temperature}$ range limitation $\cdot \text{OFF remind} \cdot \text{Schedule demand control} \cdot \text{Ventilation} \cdot \text{Out Function}.$



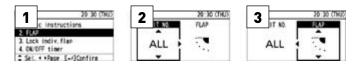
Easy operation and quick access to all menus

- 1 | Set temperature will be selected, when any arrow button is touched
- 2 | Select the item (Mode or Fan speed) by left/right ∢▶ key
- 3 | Change the setting by up/down ▲▼ key

\$\frac{1}{28} \frac{1}{8} \fra

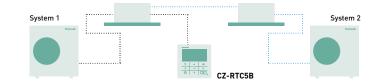
Example of easy access to the functions: air direction setting

- 1 | Select "Air direction" and press "Enter" key
- 2 | Select the unit number by up/down ▲▼ key
- 3 | Select the flap position by up/down ▲▼ key
- 4 | Press "Return" key to go back the Menu display



Back-up control by using CZ-RTC5B

Group wiring of 2 systems of PACi can do auto individual control: Rotation operation, back-up operation and support operation.



Functions available on the CZ-RTC5B

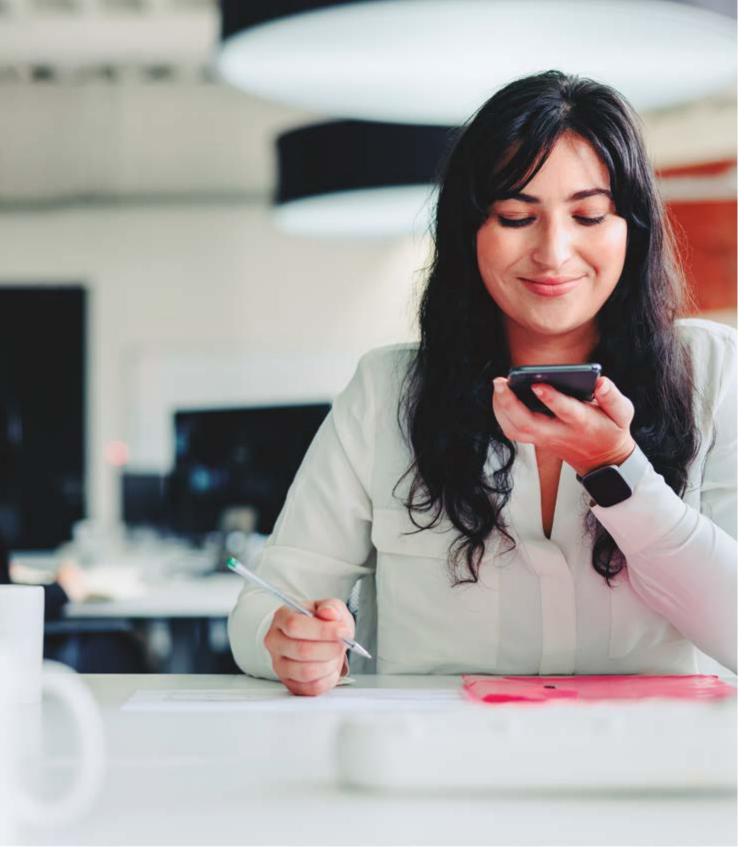
Control item	Controllability	Indoor units	
		PACi	VRF
Basic operation	Operation, Mode, Temperature setting, Air flow volume, Air flow direction	•	•
Timer function	Time display	~	V
	Easy ON / OFF timer		V
	Weekly program timer	~	V
	Outing function	~	~
Energy saving	Temperature auto return	~	~
	Temperature setting range limitation	~	~
	OFF remind	~	~
	Energy saving mode	~	~
	Schedule demand control	✓ 1]	V
	Energy monitoring - R32	V	_

Control item	Controllability	Indoor units	
		PACi	VRF
Maintenance	System failure information	~	~
	Service contact registration	~	~
	Filter sign (rest time display) and reset		~
	Auto-address, Test run	~	~
	Sensor value monitor	~	~
	Simple / Detail setting mode	~	~
Others	Key lock	~	~
	Ventilation fan control	~	~
	Display contrast adjustment	~	~
	Remote controller sensor	~	~
	Quiet operation mode	✓ 1]	_
	Prohibit setting control from central controller	~	~

Datanavi

Datanavi, a new way to connect. Simple and easy support tool with your smartphone.



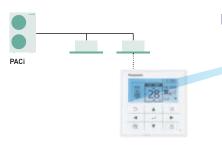


Overview of datanavi system

Just holding up your smartphone to the LED display on a remote controller (CZ-RTC5B) to receive useful AC system information super fast by Panasonic Light ID Technology. Datanavi also connects to Panasonic Cloud Server for the quick view of manuals, saving data received by Light ID.

Key functions

- · Scan and Save AC system info
- · Easy access to manual database
- · Commissioning, F-Gas check data



Panasonic unique Light ID technology



Panasonic Cloud Server

What is the Light ID technology developed by Panasonic?

Visible light transmission technology, which enables to transmit information by high-speed and invisible flashing of an LED light source.

FAST AND INTUITIVE

EASY ACCESS TO MANUAL **DATABASE**

ACCURATE SERVICE DATA ON YOUR SMARTPHONE

User / administrator (person in charge of AC) functions

- · Fast and intuitive. Regular operation data, energy consumption data display
- · Easy access to data base. Getting manuals related on demand
- · No idea what to do when an error happens? You can share error information and contact service easily

Installer / service company functions

- · Getting technical data depends on your need
 - Service manual. Q and A list. Test run information
- Acurate error information



Regular operation



Energy management





Operating manual







- Simple F-gas regulation check list
 Repair speed check list







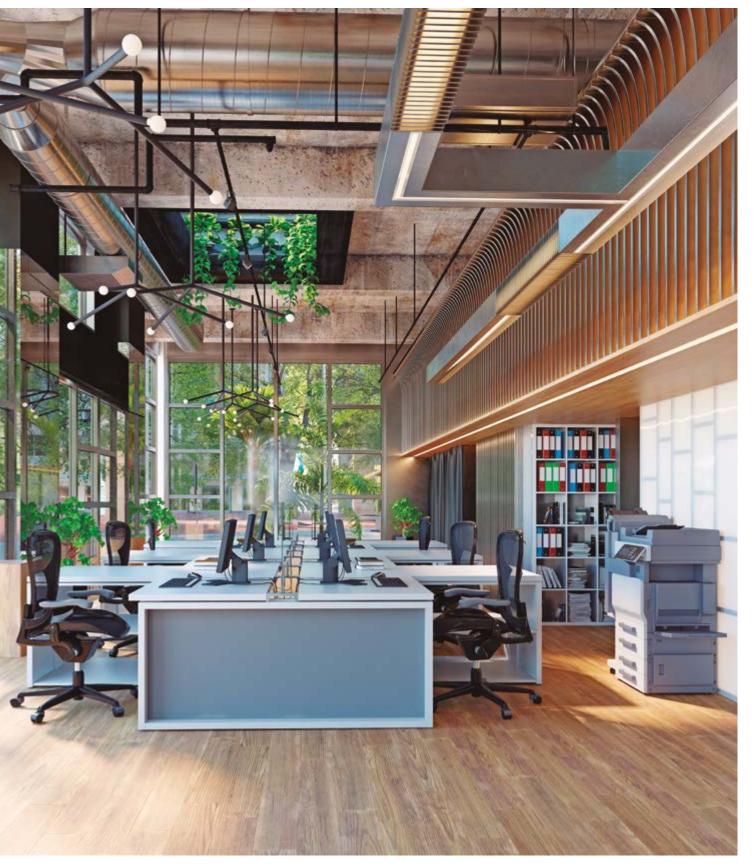
Download free apps, try datanavi!

* User interface image may be updated without notification.

Intelligent controller

This controller is the smart solution for your advanced requirement in buildings.





Intuitive operation

The screens used for operations all follow a common pattern, with the screens being easy to read and easy to use.

- · Enlarged screen (10,4 inch) with colour LCD
- · Smartphone-like gestures (flick, swipe, touch)

Large screen display. Enlarged by 60 %.

10,4 inch

Easy swipe or flick operation.



This is an operation where the finger is slid in a direction (up or down) on the touch panel. This is used to scroll slowly.

Select. This is an up and down movement of

This is an up and down movement of the finger touching the screen, used to pick settings in elements such as spin boxes.



Pull out.

This is an operation where the finger on the touch panel is flicked in a direction (up or down). This is used to scroll quickly.

Enhanced functions for energy saving as standards

- · Set temperature auto return settings, Auto shut OFF, set temperature range limit settings
- · Demand control function

Screen of set temperature auto return setting.



Auto shut OFF.



Screen of outdoor demand control.



- Outdoor demand input and timer settings possible
- Indoor can be set at ±1 °C/ ±2 °C or thermostat OFF
- · Indoor units controlled in sequence at 10-minute intervals

Energy visualization

- Energy saving plans are supported with graph display function
- · Displays electricity and gas usage distribution

Screen of graph display.





Useful parameters are shown for your better energy saving. Ex.) Bar graph:

Indoor unit: Total operating time, thermostat ON operation time

(Min.)

Amount used (electricity, gas) Electricity or gas charges

Outdoor unit: Outdoor unit operation cycles (# cycles)

Engine time in operation (Hrs.)
Cumulative Inverter power output
Cumulative PV power output

Pulse value selection per different data intervals 1 hour/1 day/ 1 month compared with last year.

Main function

Gesture function (flick, swipe, touch)	✓
Graph display (trends, comparisons)	✓
Web functions (maximum 64 users)	✓
Recipient setting for warning email	✓ (Maximum 8)
Automatic return to setting temperature	✓
Limitation of setting temperature range	✓
Left-on prevention	✓
Quiet operation of outdoor unit	✓
Occupant sensor linkage	✓
Demand function	✓
Charge calculation	✓
Log display	✓ Warning 10000 items. Status change 50000 items
Linked control (event definition 50 events, input: 32, output: 32)	✓
Under maintenance (under inspection registration)	✓

Econavi Sensor

The Econavi sensor detects presence in the room, and quietly adapts the PACi or VRF air conditioning system in order to improve comfort and energy savings.





- Detects human activity and adjusts temperature by 2 degrees (up or down) to optimise comfort and efficiency
- · If there is no activity detected for a set time period, the Econavi will stop the unit or move to a new temperature previously set
- The Econavi device is installed independently of the indoor unit, and is located in the area best suited for detection

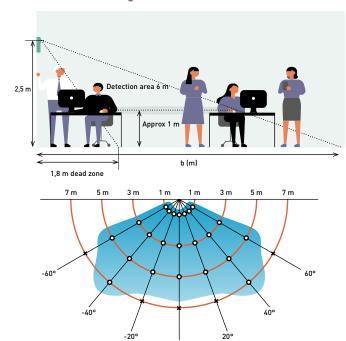
Applications

Saving energy for offices: If the air conditioning is left on after the last employee leaves the office, Econavi will automatically react, reducing or stopping the system. Increased comfort in hotel rooms: When presence is detected in the room, the temperature is automatically adjusted to achieve best comfort.

Key points

- · Compatible with cassette, wall-mounted, hide-away and Ceiling units
- · Improves efficiency
- · Better comfort
- · Can be installed in the best location within the room for detection purposes

Sensor location image



Human detection area (2,5 m height angle 30°)

Providing outstanding energy saving performance, Panasonic's Inverter system can be connected to Econavi to detect when energy is being wasted. Econavi senses the presence or absence of people and the level of activity in each area of an office. When unnecessary heating or cooling is detected, indoor units are individually controlled to match office conditions for energy saving operation.

Detection of the level of activity enables precise power saving.

Presence or absence of people at their desks and the level of activity in the office are detected in real time. Set temperature is automatically adjusted to optimise the lower power consumption.

Remote Econavi sensor allows optimum energy operation.

Pillars, walls, cabinets and other fittings obstruct the sensor, reducing the area of detection and lowering the energy saving effect. Taking into consideration blind spots, Panasonic enables the optimum layout for sensors in any office.



Econavi sensor: CZ-CENSC1



In the morning.
Thorough cooling when there is a high level of activity



In the afternoon.
Reduced cooling when there are fewer people



At night.
Automatic Thermo OFF depending on conditions at the end of the day

Controller for hotel application

Innovative line up of room controllers specially designed for hotel applications. With a modern cosmetic that match room interiors and simple operation for hotel guests.



- · Easy to install
- Cost effective installation as all electrical cable are centralized on this remote: The lighting, card contact, motion detector, window contact and the air conditioning are controlled
- · Architect inspired attractive design with 2 colors: black or white
- · Stand alone and Modbus
- · Bespoke finish as special order

Energy saving functions included on the device.

Turns OFF air conditioning and lighting when room is unoccupied. Disables air conditioning when window is open. Maximum/minimum setpoint temperature configurable.

Easy remote controller.

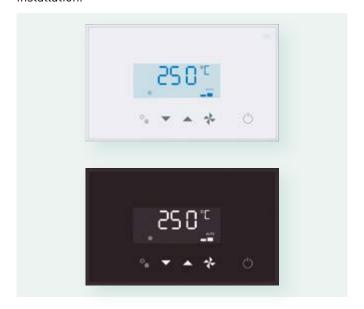
The hotel guest will have access to limited functions to control the air conditioning: ON / OFF, Temperature and Fan speed.

Easy set up.

Stand alone model with easy configuration menu to access all parameters. A pre-define scenario can be uploaded on the remote controller connected to a computer to make installation on site Plug & Play (only on the Modbus models).

New NFC fast set up.

With the new touch display control and touch room controller setting are quicker than ever. Just touching smartphone with NFC capability the settings will be saved. This function is also possible even when the control is not wired. Giving flexibility to save the setting even before installation.

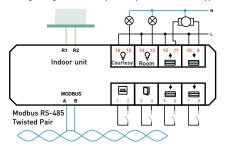


Туре	Model	Colors	Digital inputs	Digital output	BMS	Inst. set up	T. sensor
Touch display	PAW-RE2D4-WH	White	2			NFC	Built-in
controller	PAW-RE2D4-BK	Black	2			NFC	Built-in
Touch room	PAW-RE2C4-MOD-WH	White	4	4	Modbus	NFC	Built-in
controller	PAW-RE2C4-MOD-BK	Black	4	4	Modbus	NFC	Built-in

Room controller: 4 digital inputs and 4 digital output

Room controller offers flexibility and easy installation thanks to 4 preconfigured options. This is available in Modbus type. Modbus references: PAW-RE2C4-MOD-WH, PAW-RE2C4-MOD-BK.

Wiring configuration example for option 2 in Modbus type.



	4 options a	vailable I/O d	onfiguration	s: Inputs	Available I	O Configurat	ions: Output	s
0	Digital	Digital	Digital	Analog	Relay	Relay	Relay	Relay
Configurations	1-2	3-4	5-6	7-8	15-16	13-14	11-12	9-10
Option 1	Card	Window	Lighting	Temperature	Courtesy	Lighting	Not used	Valve actuator
Option 2	Card	Window	Blinds up	Blinds down	Courtesy	Lighting	Blinds up	Blinds down
Option 3	Motion sensor	Window	Door contact	Temperature	Courtesy	Lighting	Not used	Valve actuator
Option 4	Lighting	Window	Blinds up	Blinds down	Not used	Lighting	Blinds up	Blinds down

Display: 2 digital inputs

Display control allows to handle 2 inputs to perform most common operation in room hotels.

References: PAW-RE2D4-WH, PAW-RE2D4-BK.

Indoor unit RT R2

Wiring example for display controller.

	3 options availa	ble: Inputs
Configurations	IN1 (1-2)	IN2 (3-4)
Option 1	Card	Window
Option 2	Motion sensor	Window
Option 3	Motion sensor	Door contact

Hotel room controller	
PAW-RE2C4-MOD-WH	Modbus RS-485 touch room controller with I/O, white
PAW-RE2C4-MOD-BK	Modbus RS-485 touch room controller with I/O, black
PAW-RE2D4-WH	Touch display control with 2 digital inputs, white
PAW-RE2D4-BK	Touch display control with 2 digital inputs, black

Accessories sensors				
PAW-WMS-DC	Wall silent motion sensor 24 V			
PAW-WMS-AC	Wall silent motion sensor 240 V AC			
PAW-CMS-DC Ceiling silent motion sensor 24 V				
PAW-CMS-AC	PAW-CMS-AC Ceiling silent motion sensor 240 V AC			
PAW-24DC	W-24DC Power supply 24 V			
PAW-DWC Door or window contact				

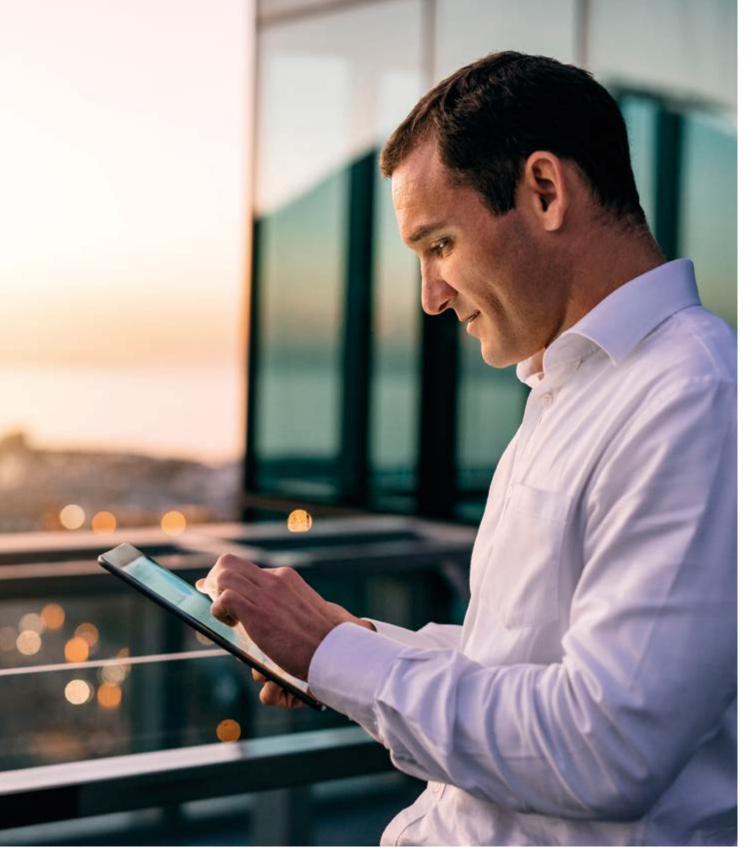
BMS interface with P-Link

BMS interface with Panasonic communication bus helps you to get significant savings.

In addition to reducing the time of configuration and installation, the potential mistakes can be avoided.

Easy to use and reliable interfaces for a straightforward integration.







Modbus®

Home automation



Direct connection to P-Communication bus

- No need for additional gateway (CZ-CFUNC2)
- Significant 50 % cost saving for BMS interface*
- · Avoid mistakes and reduce configuration time.
- * In the case of PAW-AC2-BAC-16P by Panasonic calculation.

Easy configuration

- Single configuration tool for all models (Intesis MAPS)
- · Firmware updates with new improvements and features
- · Scan: Automatic identification of the units present in the VRF system
- Front cover LED indicators provide easy to check communication status.

Upgraded specifications

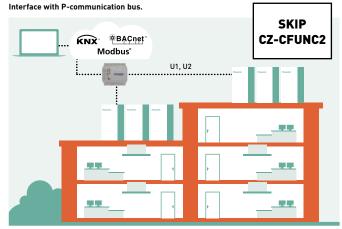
- Outdoor unit's signal available for the integration
- BACnet: Version 14 and BTL Certified
- Datalogging through external USB port (for service)

Direct connection to P-Communication bus

The interface can provide faster, cheaper, easier solution in your projects!

Old interface. WNX BACnet Modbus' Up to 30 OU, 64 IU per line CZ-CFUNC2 U1, U2

Maximum 128 indoor units can be connected. Panasonic Gateway, CZ-CFUNC2 is required.



U1U2 link is connected directly to IntesisBox. Support from 16 to 128 per each box.

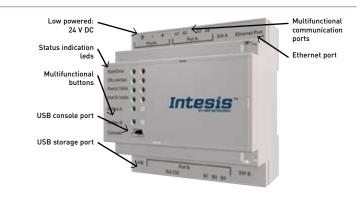
New! Home automation compatibility for Smart Home systems for PAW-AC2-MBS

Drivers available for:

- · AMX
- · Control4
- · eedomus
- Elan
- · Fibaro
- ·iRidium
- $\cdot \ \mathsf{Eedom}$
- · RTI
- · Savant

Creston, Kuju and Vera available soon.

Model for BACnet	Maximum number of indoor units connected			
PAW-AC2-BAC-16P	16 indoor units			
PAW-AC2-BAC-64P	64 indoor units			
PAW-AC2-BAC-128P	128 indoor units			
Model for Modbus	Maximum number of indoor units connected			
PAW-AC2-MBS-16P	16 indoor units			
PAW-AC2-MBS-64P	64 indoor units			
PAW-AC2-MBS-128P	128 indoor units			
Model for KNX	Maximum number of indoor units connected			
PAW-AC2-KNX-16P	16 indoor units			
PAW-AC2-KNX-64P	64 indoor units			



Version	Connectable indoor units	Connectable outdoor units	Nr. of P- Communication bus port
16	1-16	1-16	1
64	1-64	1-30	1
128	128 (1-64 / P- Communication bus port)	60 (1-30 / P- Communication bus port)	2

Control and connectivity

A wide variety of control options to meet the requirements of different applications.

Centralized control systems





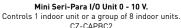








Connection with general equipment.





Communication Adaptor.
Up to 128 groups. Controls 128 units.
C7-CFUNC2

Domestic integration to P-Link - CZ-CAPRA1

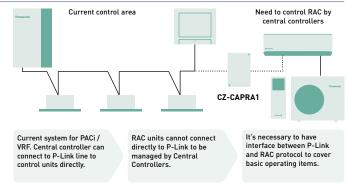
Can connect RAC range to P-Link. Full control is now possible.

Integrates any unit in big system control.

- · YKEA server room integration 1)
- · Small offices with domestic indoors
- Tender for refurbishment (old system Domestic and VRF in one installation)

1) When duty rotation using the remote controller is set up, CZ-CAPRA1 cannot be connected.





Basic operation items: ON / OFF, Mode select, Temperature setting, Fan speed, Flap setting, Remote control prohibit.

External input: ON / OFF control signal, Abnormal stop signal.

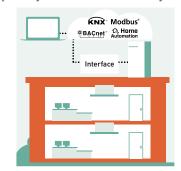
External output for Relay 11: Operation status (ON / OFF), Alarm status output.

1) Because current CN-CNT connector can not provide the power for external output relay, additional input power for external relay is necessary.

Easy connection to KNX, Modbus, Lonworks, BACnet and Propietary Home Automation Systems

Easy and reliable solution to integrate your Panasonic heating and cooling systems into any B.M.S or E.M.S. Fully bi-directional communications with all necessary parameters.

For more information, contact Panasonic.





			Econavi control	Built-in thermostat	Indoor units which can be controlled	Use limitations	Function ON / OFF	Mode setting	Fan speed setting	Temperature setting	Air flow direction	Permit/Prohibit switching	Weekly program	BMS protocol
Individual c	ontrollers													
Touch room controller for hotel with Dry Contacts	801	PAW-RE2C4-MOD-WH PAW-RE2C4-MOD-BK WH: White, BK: Black. Bespoke finish available on request.	_	V	1 indoor unit	_	V	~	V	V	-	V	_	Modbus + 4 digital I/O signals
Touch display control for hotel with Dry Contacts	801	PAW-RE2D4-WH PAW-RE2D4-BK WH: White, BK: Black. Bespoke finish available on request.	_	V	1 indoor unit	_	V	V	V	V	-	V	_	Stand Alone + 2 digital inputs
Design wired remote controller		CZ-RTC5B	v	V	1 group, 8 units	- Up to 2 controllers can be connected per group	V	v	v	V	v	_	v	_
		CZ-RTC6 Non-wireless	,	~	1 group, 8 units	Up to 2 controllers can be connected per group	~	,	~	~	,	_	_	_
Wired remote controller	25.	CZ-RTC6BL With Bluetooth®	,	~	1 group, 8 units	Up to 1 controller can be connected per group	~	,	~	~	~	_	~	_
	ara o lo	CZ-RTC6BLW With Wi-Fi and	,	~	1 group, 8 units	Up to 1 controller can be connected per group	~	,	V	~	,	_	~	_
Infrared remote controller	1 · · :	Bluetooth® CZ-RWS3 + CZ-RWRU3W CZ-RWS3 + CZ-RWRY3 CZ-RWS3 CZ-RWS3 + CZ-RWRL3 CZ-RWS3 + CZ-RWRD3 CZ-RWS3 + CZ-RWRT3 CZ-RWS3 + CZ-RWRC3	v	_	1 group, 8 units	- Up to 2 controllers can be connected per group	V	v	V	V	✓ 1]	_	_	-
Centralized	controllers													
System controller with weekly timer		CZ-64ESMC3	V	_	64 groups, maximum 64 units	Up to 10 controllers, can be connected to one system Main unit/sub unit (1 main unit + 1 sub unit) connection is possible Use without remote controller is possible	V	V	V	V	v 1)	V	V	-
Central ON / OFF controller		CZ-ANC3	-	-	16 groups, maximum 64 units	Up to 8 controllers (4 main units + 4 sub units) can be connected to one system Use without remote controller is impossible	V	-	-	-	-	V	-	-
Intelligent controller (touch screen/ web server)		CZ-256ESMC3	V	_	Main unit: 128. Up to 256 units can be expanded	Communication adaptor CZ-CFUNC2 is necessary for connection with more than 128 units	V	V	V	V	v 1)	V	V	-

^{1.} Setting is not possible when a remote controller unit is present (use the remote controller for setting). * All specifications subject to change without notice.

Individual controllers wired

CONEX wired remote controller

CZ-RTC6 // CZ-RTC6BL // CZ-RTC6BLW 13

- · 3 line-up. CZ-RTC6: Non-wireless, CZ-RTC6BL: Bluetooth®, CZ-RTC6BL: Wi-Fi and Bluetooth®
- · Intuitive control with stylish design profile
- · Clean face with full flat and black LCD display
- · Dimension (HxWxD): 86 x 86 x 25 mm

Panasonic H&C Control App 2).

- · Daily remote control operation via Bluetooth®
- · Quick and easy App set-up for system setting

Panasonic H&C Diagnosis App 3).

· Easy access to service parameters and service checker data via Bluetooth®

Basic operation.

- · Mode setting: Heat / Cool / Dry / Fan / Auto
- · Temperature setting
- · Fan speed: 5 levels
- · Air flow direction
- · nanoe™ X and Econavi setting
- · Weekly program 4]

- 1) Available from Autumn 2020, compatible with new PACi NX Series.
 2) CZ-RTC6BL or CZ-RTC6BLW required.
 3) A service checker interface is required and available from Autumn 2020. Compatible with new PACi NX Series.
- 4) Can be set from Panasonic H&C Control App.





Room controller for hotel rooms

PAW-RE2C4-MOD-WH // PAW-RE2C4-MOD-BK

- · Easy to install
- \cdot Cost effective installation as all electrical cables are centralised on this remote
- · Architect inspired attractive design
- · Direct connection to the Indoor unit with all primary functions of indoor unit available
- \cdot 2 options available: Stand alone and Modbus communication
- · Colours: WH: White. BK: Black
- · Room controller: 4 digital inputs and 4 digital outputs

From this remote controller.

The lighting, card contact, motion detector, window contact and the air conditioning are controlled.

Energy saving functions included on the device.

- · Turns OFF air conditioning and lighting when room is unoccupied
- · Disables air conditioning when window is open
- · Maximum/minimum setpoint temperature configurable

Fast and simple set up.

Set up is simple and easy for room controllers. But it is extremely easy and quick with touch models, which can be set up by using smartphone with NFC technology, even when control is not yet installed / powered.





Display control for hotel rooms

PAW-RE2D4-WH // PAW-RE2D4-BK

- · Easy to install
- · Cost effective installation as all electrical cables are centralised on this remote
- · Architect inspired attractive design
- · Direct connection to the Indoor unit with all primary functions of indoor unit available
- · Stand alone communication
- · Colours: WH: White. BK: Black
- · Basic hotel function: 2 digital inputs

From this remote controller.

The card contact, motion detector, window contact and the air conditioning are controlled.

Energy saving functions included on the device.

- · Disables air conditioning when window is open
- · Maximum/minimum setpoint temperature configurable

Fast and simple set up.

Set up with smartphone with NFC technology, even when control is not yet installed/powered.





Design wired remote controller

CZ-RTC5B

- · Power consumption monitor (only for PACi)
- · Flat face design and touch sensor switch for stylish design and operating usability
- · Functions such as for energy saving and monitoring and for service use are available on the full dot LCD (3,5" display)
- · Improved illumination
- · White LED backlit
- · Blink when alarm occurs

Datanavi.

- · Scan and save AC system info
- · Easy access to manual database
- · Commissioning, F-Gas check data history
- * Panasonic App is required on your smartphone.

Basic Operation.

- · Operation
- \cdot Mode
- · Temperature setting
- · Air flow volume
- · Air flow direction

Timer function.

- · Outing function
- · Weekly program timer
- · Easy ON / OFF timer
- · Time display

Energy saving.

- · Outing function
- · Temperature setting range limitation
- · Temperature auto return
- · OFF remind
- · Schedule demand control
- · Energy saving mode
- · Energy monitoring

Others.

- · Key lock
- · Ventilation fan control
- · Display contrast adjustment
- · Remote controller sensor
- Quiet operation mode
- · Prohibit setting control from central controller
- · Rotation / back-up control





- Power consumption monitoring is available for all PACi systems except R410A PACi
- * Rotation and back-up control with CZ-RTC5B is available for all PACi systems.

Individual controllers wireless

Infrared remote controller

CZ-RWS3 + CZ-RWRU3W // CZ-RWS3 + CZ-RWRY3 // CZ-RWS3 // CZ-RWS3 + CZ-RWRL3 // CZ-RWS3 + CZ-RWRD3 // CZ-RWS3 + CZ-RWRC3

- · Easy installation for the 4 Way Cassette type simply by replacing the corner part
- · 24 hour timer function
- · Remote controller by main remote controller and sub controller is possible (maximum 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit)
- · When CZ-RWS3 is used, infrared control becomes possible for all indoor units (1: when a separate receiver is set up in a different room, control from that room also becomes possible. 2: automatic operation by means of the emergency operation button is possible even when the remote controller has been lost or the batteries have been exhausted)
- · Operation of separate energy recovery ventilators (when commercial ventilation fans or heat-exchange ventilation fans have been installed, they can be operated with this remote controller (interlocked operation with the indoor unit or independent ventilation ON / OFF)















Remote sensor

CZ-CSRC3

- · This remote sensor can be connected to any PACi or VRF unit. Use it to detect the room temperature when no remote controller sensor or body sensor is used (connection to a system without a remote controller is possible)
- · For joint use with a remote controller switch, use the remote controller switch as main remote controller
- · Batch group control for up to 8 indoor units
- · Appearance design based on simplified remote controller chassis
- · Dimensions (HxWxD): 120 x 70 x 17 mm
- · Weight: 70 g
- Temperature/Humidity range: 0 °C to 40 °C / 20 % to 80 % (no condensation) (indoor use only)
- Power supply: 16 V DC (supplied from indoor unit)
- · Maximum number of connectable indoor units: Up to 8 units



Control co	ntents	Part name, model No.	Quantity	
Standard control	Control of the various operations of the indoor unit by wired or infrared remote controller Cooling or heating mode of the outdoor unit is decided by the first priority of the remote controller Switching between remote controller sensor and body sensor is possible	High spec wired remote controller: CZ-RTC5B CONEX wired remote controller: CZ-RTC6 // CZ-RTC6BL // CZ-RTC6BLW Infrared remote controller: CZ-RWS3 + CZ-RWRU3W // CZ-RWS3 + CZ-RWRL3 // CZ-RWS3	1 unit each	
(1) Group control	Up to 8 units can be connected to 1 remote controller Operation of all indoor units in the same mode	High spec wired remote controller: CZ-RTC5B CONEX wired remote controller: CZ-RTC6 // CZ-RTC6BL // CZ-RTC6BLW Infrared remote controller: CZ-RWS3 + CZ-RWRU3W // CZ-RWS3 + CZ-RWRL3 // CZ-RWS3	8 units	
(2) Main/ sub. remote controller	Maximum 2 remote controllers per indoor unit The button pressed last has priority Timer setting is possible even with the sub remote controller	Main or sub.: High spec wired remote controller: CZ-RTC5B CONEX wired remote controller: CZ-RTC6 // CZ-RTC6BL // CZ-RTC6BLW Infrared remote controller: CZ-RWS3 + CZ-RWRU3W // CZ-RWS3 + CZ-RWRL3 // CZ-RWS3	As required	

Centralised controllers

System controller with schedule timer

CZ-64ESMC3

Operation with various functions from central station.

Panasonic unveils state-of-the-art digital controller.

Panasonic's innovative and easy to use interface that offers full functionality with an integrated schedule timer and system controller, making managing heating and cooling systems easier than ever before. The CZ-64ESMC3 includes Panasonic's popular schedule timer, which gives users full flexibility over when they want their property heated or cooled. Users can adjust the system for holidays, pausing operations for long periods of time so that energy isn't wasted heating or cooling an empty home or office. The controller also allows six operations per day to be programmed.

Mix of current 2 controllers: System controller + schedule timer.

System controller will be designed by taking priority on these 2 operations with following technical key points:

- Same operation feeling as wired remote controller by touch-key panel
- · High visibility and usability by full-dot LCD
- \cdot Based on high wired remote controller
- · Maximum 64 group of indoor units, individual control for 64 units
- · 4 zone control; 1 zone = maximum 16 groups
- · Several energy saving function (based on CZ-RTC5B)
- · 6 timer program per day for 1 week (7 days) operation (total 6 x 7= 42 programs)
- Basic setting items (Temperature, Mode, Fan speed, Flap position) can be set by same manner as CZ-RTC5B

Function list:

Central control functions:

- · Central control / individual setting
- Start-stop prohibition for remote controller
- Start-stop / Mode change / Temperature setting prohibition for remote controller
- Mode change / Temperature setting prohibition for remote controller
- Mode change prohibition for remote controller
- Select items for prohibition
- · Filter information
- Filter sign
- Filter sign reset
- · Ventilation setting

Timer functions and external I/0:

- · Weekly timer
- Timer setting enable / disable
- Copy of timer setting
- · Maintenance
- External signal (Start / Stop) (Demand control)
- Centralized control master-slave setting
- Alarm history
- · Initial setting
- Clock

Energy saving, maintenance and operating functions:

- · Energy saving control
- Econavi ON / OFF
- $\cdot \ Filter \ information$
- Filter sign and hour counter display
- · Maintenance
- Service contact
- · Initial setting
- Clock display setting
- Name Setting
- Operation lock setting
- Operation sound setting
- LCD contrast setting
- LCD backlight setting
- Select displayed language (EN/FR/IT/ES/DE)
- Administrator password
- $\cdot \ \mathsf{Setting} \ \mathsf{information} \ \mathsf{list}$



ECONAVI

Sample display image / Operation status display

Operation Status ALL





Operation Status ZONE



.. ...



ON / OFF controller

CZ-ANC3

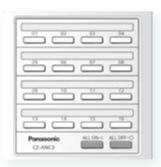
Only ON / OFF operation from central station.

- · 16 groups of indoor units can be controlled
- · Collective control and individual group (unit) control can also be performed
- · Up to 8 ON / OFF controller (4 main, 4 sub) can be installed in one link system
- · The operation status can be determined immediately
- Dimensions (HxWxD): 121 x 122 x 14 + 52 mm (embedding dimension)

Power supply: 220 to 240 V AC.

I/O part: Remote input (effective voltage: within 24 V DC): All ON / OFF. Remote output (allowable voltage: within 30 V DC): ON, Alarm.

Note: As operation mode and temperature settings are not possible with the ON / OFF controller, it must be used together with a remote controller, a system controller etc.



Centralised controllers

Intelligent controller (touch screen panel)

CZ-256ESMC3

Simplified load distribution ratio (LDR) for each tenant.

Dimensions (HxWxD): 240 x 280 x 20 (+60) mm.

Power supply: Single phase 100-240 V ~ 50/60 Hz.

Maximum number of connectable indoor units: 256 units (maximum per link: 64 units).

Maximum number of connectable outdoor units: 120 units (maximum per link: 30 units).

· Central control device: Up to 10 units

Enlarged display screen: 10,4 inch touch-panel colour LCD. Pursuing visibility, ease of use. Retrieve data from USB memory: Place the USB port inside the panel (USB memory available in stores).

Communication adaptor: CZ-CFUNC2*.

* CZ-CFUNC2 is required to connect more than 128 indoor units.

Functions:

- · Graph display (trends, comparisons)
- · Econavi ON / OFF
- · Outdoor unit quiet operation ON / OFF
- Energy saving functions: Set temperature auto return settings, Auto shut OFF, Set temperature range limit settings, Energy saving for PAC current value, etc.
- · Event control (such as equipment linkage)
- · Performs closing at end of any period

Operation and status.

You can check to operational status (ON / OFF, operating mode, alarms, etc.) of all indoor units and outdoor units in real time. You can also select indoor units to change their settings.

Operation scheduling.

You can register daily operation schedules (ON / OFF time, operating modes, set temperatures, etc.) for individual indoor units or groups of indoor units.

Operations can be schedule for up to 2 years in advance.

$\label{local_local_local} \textbf{Load distribution calculation for each tenant.}$

- · Air-conditioner load distribution ratio is calculated for each unit (tenant) with used energy consumption data (m³, kWh)
- · Calculated data is stored as a CSV type file
- \cdot Data from the last 365 days is stored

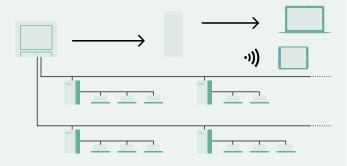
Web application. Web access and control from remote station.

- · Accessing from remote PC
- · You can monitor/operate system by using web browser

Remote controller.

The LAN terminal on this unit enables you connect it to a network. Connecting to Internet will enable you to operate the unit and check the status using a PC from a remote location*.

* Remote access rights and additional IT infrastructure / programming may be required.



Back-up tool to save your commissioning time.

Various data such as distribution, setting, \log history etc. can be saved by CSV file.

Setting data of CSV file is available to edit and import to the controller again.

You can save time for commissioning and change setting flexibly and easily by your PC.

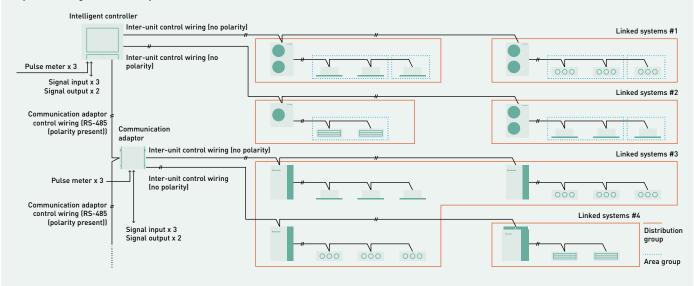
- · Customize data
- · Data recovery

Data can be imported again by general USB.



ECONAVI

System configuration example.



P-AIMS core software

CZ-CSWKC2 / P-AIMS core software.

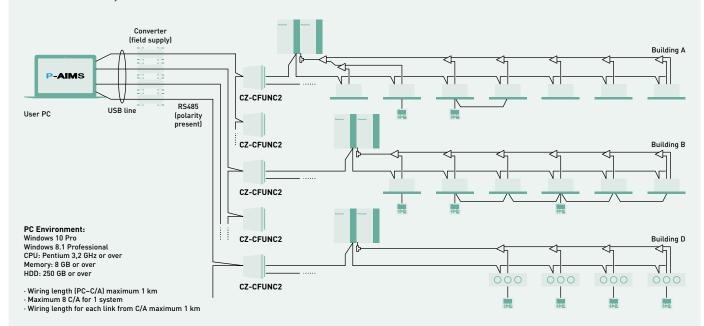
Centralised software to control up to 1024 indoor units.

Functions of basic software.

- · Standard remote controller for all indoor units.
- · Many timer schedule programs can be set on the calender.
- · Detailed information display for alarms.
- · CSV file output with alarm history, operating status.
- · Automatic data back-up to HDD.

P-AIMS is suitable for large shopping centers and universities with many areas/ buildings. 1 "P-AIMS" PC can have 4 independent systems at once.

Each system can have maximum 8 C/A units, and control maximum 512 units. In total, 1024 indoor units can be controlled by 1 "P-AIMS" PC.



P-AIMS optional software CZ-CSWAC2 / P-AIMS consumption calculation extension.

- · Air-conditioner load distribution ratio is calculated for each unit (tenant) with used energy consumption data (m³, kWh)
- · Calculated data is stored as a CSV type file
- · Data from the last 365 days is stored

P-AIMS optional software CZ-CSWWC2 / P-AIMS web application extension.

- · Accessing P-AIMS software from remote PC
- · You can monitor/operate ECOi System by using web browser [Internet Explorer]

P-AIMS optional software CZ-CSWGC2 / P-AIMS layout display extension.

- · Operating status monitor is available on the layout display
- · Object's layout and indoor unit's location can be checked at once
- \cdot Each unit can be controlled by virtual remote controller on the display
- · Maximum 4 layout screens are shown at once

P-AIMS optional software CZ-CSWBC2 / P-AIMS BACnet extension.

- \cdot Can communicate with other equipment by BACnet protocol
- \cdot ECOi System can be controlled by both BMS and P-AIMS
- · Maximum 255 indoor units can be connected to 1 PC (that has P-AIMS basic and BACnet software).



With 4 upgrade packages the basic software can be upgraded to suit individual requirements.



Centralised controllers

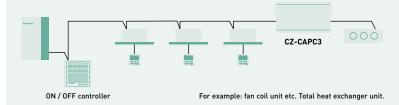
Local adaptor for ON / OFF control

CZ-CAPC3

Connection with general equipment.

· Control and status monitoring is possible for individual indoor unit (or any external electrical device up to 250 V AC, 10 A) by contact signal



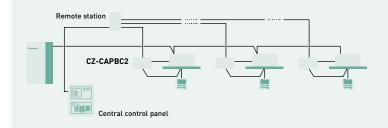


Mini Seri-Para I/O Unit 0 -10 V

CZ-CAPBC2

Connection with general equipment.

- · Control and status monitoring is possible for individual indoor unit (1 group)
- In addition to operation and stop, there is a digital input function for air speed and operation mode
- · Temperature setting and measuring of the indoor suction temperature can be performed from central monitoring
- \cdot Power is supplied from the T10 terminal of the indoor units
- \cdot The analog input for demand of the outdoor capacity by 20 steps (from 40 % to 120 %) by 0-10 V
- \cdot The analog input for temperature setting is 0 to 10 V, or 0 to 140 Ohm
- · Separate power supply also is possible (in case of suction temperature measuring)
- * Ask to your distributor.





Communication adaptor for VRF connectivity

CZ-CFUNC2

This communication interface is required to connect a ECOi and GHP systems to a BMS. An additional interface is needed to convert the information into KNX / Modbus / BACnet language. CZ-CFUNC2 is very easy to operate and to connect to the Panasonic P-Link, which is the ECOi bus. From the CZ-CFUNC2, all the indoor and outdoor units of the installation can be easily control. Two linked wiring systems can be connected to one CZ-CFUNC2.

Dimensions (HxWxD): 260 x 200 x 68 mm



 $^{{}^{*}}$ As this is not a splash-proof design, it must be installed indoors or in the control panel, etc.

PACi and VRF connectivity

Controls and connectivities are the key to offer better comfort and price. Panasonic offers its customers cutting-edge technology, specially designed to ensure our air conditioning systems deliver optimal performance.





PACi, ECOi and ECO G connectivity

The interface has been designed specifically for Panasonic and provides complete monitoring, control and full functionality of the line-up from IntesisHome, KNX, Modbus, BACnet and LonWorks installations.

This connectivity solution with "PAW" model names is made by a third party company, please contact Panasonic for more information.

	Room controller	Interface	BMS Type	Maximum number of indoor units connected
	SER8150R0B1194 / SER8150R5B1194		Modbus / BACnet	1 Unit/group
F00: / P40:	PAW-RE2C4-MOD-WH / PAW-RE2C4-MOD-BK		Modbus	1 Unit/group
ECOi / PACi indoor units		PAW-RC2-KNX-1i	KNX	1 (1 Group of indoor units)
		PAW-RC2-MBS-1	Modbus RTU 1)	1 (1 Group of indoor units)
		PAW-RC2-MBS-4	Modbus	4 Indoor/groups
		PAW-RC2-BAC-1	BACnet	1
		PAW-AC2-KNX-16P	KNX	16
		PAW-AC2-KNX-64P	KNX	64
		PAW-AC2-MBS-16P	Modbus	16
		PAW-AC2-MBS-64P	Modbus	64
PACi / ECOi / ECO G		PAW-AC2-MBS-128P	Modbus	128
P-Link		PAW-AC2-BAC-16P	BACnet	16
		PAW-AC2-BAC-64P	BACnet	64
		PAW-AC2-BAC-128P	BACnet	128
		CZ-CLNC2	LonWorks	16 Groups of maximum 8 indoor units, in tota maximum 64 indoor units

¹⁾ Interface Modbus RTU/TCP is needed in case if Modbus TCP connection. PAW-MBS-TCP2RTU (ModBus RTU Slave devices). 2) Interface CZ-CFUNC2 needed.

Airzone. Control of the hide-aways

Airzone has developed interfaces to easily connect to Panasonic Commercial hide-away units. Ensuring optimum performance, comfort and energy savings, the new system is efficient and easy to install.

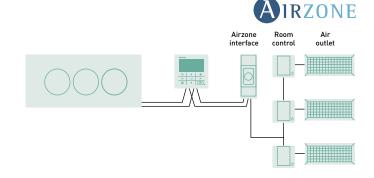
Airzone full range of accessories for any duct project.













ECOi, ECO G and PACi connectivity indoor units

PCB's and cables for ECOi, ECO G and PACi indoor units.

Name of the cables	Function	Comment
CZ-T10	All T10 functions	Requires field supplied accessory
PAW-FDC	Operate external fan	Requires field supplied accessory
PAW-0CT	All option monitoring signals	Requires field supplied accessory
CZ-CAPE2	3-Pipe control PCB	Requires additional wires from spare part supply
PAW-EXCT	Forced Thermo OFF/Leakage D.	Requires field supplied accessory

Name of the PBC	Function	Comment
PAW-T10	All T10 functions	Allows easy connection "Plug & Play"
PAW-PACR3	Redundancy of 2 or 3 systems; for ECOi and PACi	Redundancy of 2 or 3 ECOi or PACi systems including temperature monitoring, error indication, back-up, alternative run

T10 connector (CN061)

CZ-T10

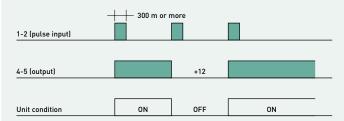
Panasonic has developed an optional accessory (consisting of plug + wires) called CZ-T10 to enable an easy connection to this T10 connector.

Connecting an ECOi indoor unit to an external device is easy. The T10 terminal featured in the electronic circuit board of all indoor units enables digital connection to external devices.



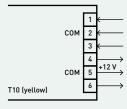
T10 terminal specification (T10: CN015 at indoor unit PCB).

- · Control items: 1. Start / stop input
 - 2. Remote controller prohibit input
 - 3. Start signal output
 - 4. Alarm signal output



NOTE: The wire length from indoor unit to the relay must be within 2,0 m. Pulse signal changeable to static by cutting jumper JP001.

- · Condition:
- 1. 1-2 (pulse input): Unit ON / OFF condition switching with a pulse signal. (1 pulse signal: shortage status more than 300 msec. or
- 2. 2-3 (static input): open / operation with remote is permitted (normal condition) close / remote controller is prohibited
- 3. 4-5 (static output): 12 V output during the unit ON / no output at
- 4. 5-6 (static output): 12 V output when some errors occur / no output at normal
- · Example of wiring:

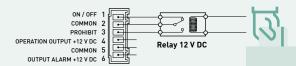


Usage example.

Forced OFF control.

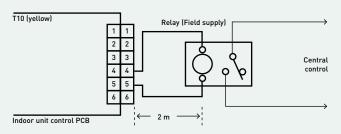
- Term 1 and 2: Free contact for ON / OFF signal (cut *JP1* for static signal) when the hotel card is it connected the contact must be close (the unit can be used).
- Term 2 and 3: Free contact to prohibit all function in the remote controller install in the room when the hotel card is it removed the contact must be closed (the unit can not work).

Terminal = T10



Operation ON / OFF signal output.

- · Condition:
- 4-5 (static output): 12 V output during the unit ON / no output at
- · Example of wiring:



Note: The wire length from indoor unit to the Relay must be within 2,0 m. Pulse signal changeable to static by cutting jumper JP001.
* PACi-NX series is not compatible.

Fan drive connector (CN032)

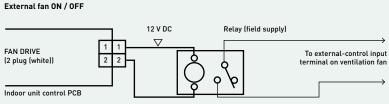
PAW-FDC

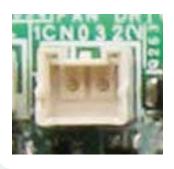
Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-FDC to enable an easy connection to this fan drive connector (CN032).

Operating the ventilation fan from the remote controller

- \cdot Start / stop of external ventilation and total heat exchanger fans
- · Works even if indoor unit is stopped
- \cdot In case of group control \rightarrow all fans will operate; no individual control





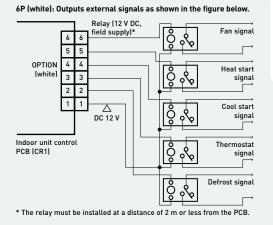


Option connector (CN060) output external signals

PAW-OCT

Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-OCT to enable an easy connection to this Option Connector (CN060).

With the combination of the T10 and the option CN060 an external control of the indoor units is possible!





EXCT connector (CN009)

PAW-EXCT

Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-EXCT to enable an easy connection to this EXCT Connector (CN009).

A) With static input.

→ STATIC INPUT → THERMO OFF → ENERGY SAVING

2P plug (red): Can be used for demand control. When input is present, forces the unit to operate with the thermostat OFF.

Note: The length of the wiring from the indoor unit control PCB to the relay must be $2\ m$ or less.

B) Example: In connection with a refrigerant sensor.

- $\cdot \ \mathsf{Signal} \ \mathsf{from} \ \mathsf{leakage} \ \mathsf{detector} \colon \mathsf{non} \ \mathsf{voltage} \text{,} \ \mathsf{static}.$
- \cdot Indoor unit setting: Code 0b ightarrow 1
- · Connector for leak detector: EXCT
- · Outdoor unit setting:

Code C1 \rightarrow 1 power output if alarm from O2 connector 230 V Code C1 \rightarrow 2 power output if alarm from O2 connector 0 V

· Displayed alarm message P14

EXCT [2P plug [red]] Indoor unit control PCB Relay (field supply) Relay coil signal CN009 Leakage! Room 1 Room 2 Ref. detector

ECO i - W





Discover a new era of ECOi, the ECOi-W. Heat pumps and cooling only chillers

Panasonic introduces the new ECOi-W heat pumps and cooling only chiller series.

These new series provides a wide variety of HVAC system solutions, to meet all of your residential, commercial and industrial needs.

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ECOi-W, the solution for hotels, offices and industry	→ 422
Panasonic Certified Quality	→ 424
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U - 045/055/065/075 CW	→ 432
U - 090/105/125 CW	→ 434
U - 140/150/170/190/210 CW	→ 436
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ECOi-W cooling only outdoor units	
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U - 045/055/065/075 CV	→ 442
U - 090/105/125 CV	→ 444
U - 140/150/170/190/210 CV	→ 446
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ECOi-W meets the customer's needs, with these fully customisable heat pumps and cooling only chillers

Unrivaled reliability and quality.

Panasonic solutions can be enjoyed for years to come, even in the most extreme climates. Panasonic does not compromise on product quality, safety or durability, in order to provide the ultimate comfort when you need it most.



There is a reason to choose Panasonic as your partner.

ECOi-W

Panasonic does not compromise on product quality, always strives for 100 % quality.

ECOi-W series offers smart technology meeting your needs at home and business.

Energy saving



High seasonal efficiency in cooling mode.SEER follows COMMISSION REGULATION (EU) No 2016/2281.



High seasonal efficiency in heating mode. SCOP follows COMMISSION REGULATION (EU) No 813/2013.



EC motor green ventilation.

Range of fan coil with improved efficiency with optional EC

High performance and comfortability



Super quiet.

Extra quiet operation is available as standard (with sizes 20 – 40, 140 - 210).



Bluefin.

Bluefin coil comes as standard on all heat pump models. The life time of coils have been extended thanks to the hydrophilic coating.



Ultimate customisation.

Various pump, hydraulic, ambient options offered, plus many more Ultimate customization for your needs and environment.



Automatic fan operation.

The microprocessor control automatically adjusts the fan speed as a function of the operating conditions.



Down to -17 °C in heating mode.

The ECOi-W system works in heating mode at outdoor temperature down to $-17~^{\circ}\text{C}$.



Up to 50 °C in cooling mode.

The ECOi-W system works in cooling mode at outdoor temperature up to 50 °C.



Defrost limiting cycle (140 - 210).

Each pair of coils can be defrosted wisely while the other pair of coils are running in heating

mode.

This alternated defrost cycle ensures stable hot water even at low ambient conditions.

High connectivity



BMS connectivity.

The communication port can be integrated into the ECOi-W system and provides easy connection and control Modbus RTU is equipped as standard. Modbus TCP/IP, BACnet IP and BACnet MSTP as optional availability.

Reliable quality



Quality certified by Panasonic.

Panasonic does not compromise on product quality, safety, durability in order to provide the ultimate comfort when you need it most.



Eurovent certified performance.

The performance of ECOi-W Series has been certified by Eurovent to prove the high quality and high performance by Panasonic.

https://www.eurovent-certification.com/



ECOi-W Series are compliant with ErP regulation. SEER follows COMMISSION REGULATION (EU) No

2016/2281. SCOP follows COMMISSION REGULATION (EU) No

813/2013

Support materials for customers

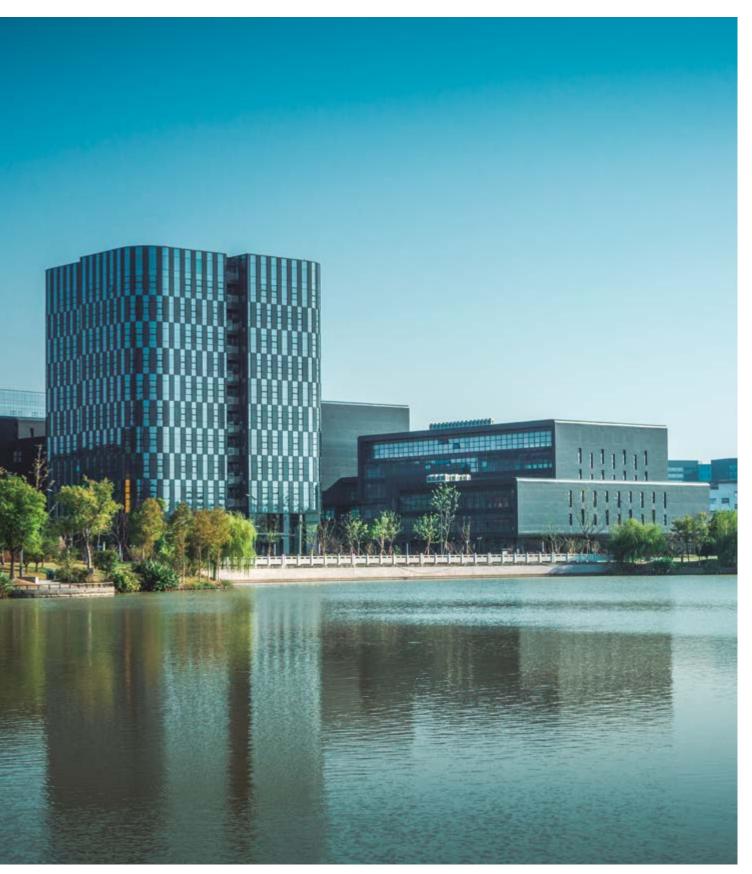
AutoCAD 2D files and BIM models for ECOi-W full range is readily available at Panasonic PROClub.

https://www.panasonicproclub.com



ECOi-W, the solution for hotels, offices and industry

ECOi-W provides the optimal performance in any climatic condition.



1

High energy saving and comfort

- · High SEER / SCOP
- · Quiet operation
- Integration with ECOi VRF systems via BMS control
- NEW! Centralized remote management system

High flexibility

- · Capacity range from 20 to 210 kW
- · Customisable design
- Operating range: -17 °C (heating) to 50 °C (cooling)
- · Wide range of hydraulic options
- Wide range of communication protocols

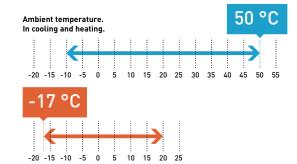
High quality

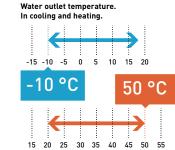
- Defrost limiting coil design (140 to 210 kW)
- Optimised design for service and maintenance
- · Compact footprint

Operating conditions

Panasonic ECOi-W provides a wide operating range from -17 °C in heating to 50 °C in cooling.

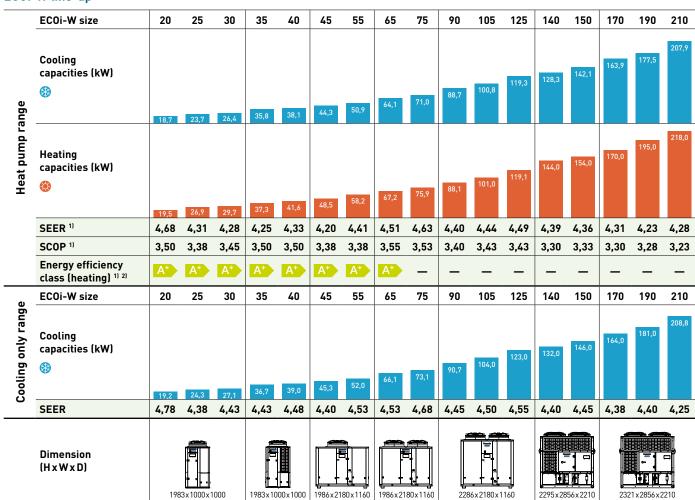
Water outlet temperature in cooling: A uniqueness of ECOi-W, is the water outlet temperature down to -10 °C in cooling. It can ensure the operation temperature of the process equipment in factories.





Cooling: Outside air temperature (°C (DB)). Heating: Outside air temperature (°C (WB)).

EC0i-W line-up



¹⁾ Those are the data with variable flow. 2) Following Eurovent and COMMISSION REGULATION (EU) No 811/2013 for low-temperature heat pumps. Scale from A+++ to D, as of 26th September 2019.

Panasonic Certified Quality

Panasonic does not compromise on product quality, safety or durability, in order to provide the ultimate comfort when you need it most.





Class A pump

Units can be equipped with an efficient pump. A wide range of single and double pump, plus pump drive option is available.

Axial AC/EC fan

The microprocessor control automatically adjusts the fan speed as a function of the operating conditions.

SWEP BP heat exchanger

Very compact & long durability of SWEP Braze Plate Heat Exchanger.
Unique design for the size 140 - 210 improving frost protection and efficiency.



Model type supplied may vary.

Energy recovery

The "Desuperheater" option consists of a stainless-steel brazed plate heat exchanger which is mounted in series between the compressors and the air-cooled condenser. It can supply hot water up to 50°C free-of-charge while operating in the cooling mode, thanks to the partial recovery of condensation heat that would otherwise be rejected to the external heat source.

The unit's efficiency is increased as condensing pressure can be reduced due to air cooled condenser becoming oversized.

* Optional. Available in 45-125.

Simple user friendly control

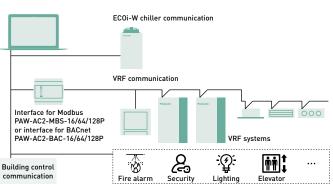
In addition to basic control functions...

- Intelligent logic control for inlet water temperature
- Night setback operation to reduce electrical consumption and noise
- · Automatic test operation at the push of a button

BMS integration

Modbus RTU as standard.

Modbus TCP/IP, BACnet IP and BACnet
MSTP as optional availability.
Integrated systems with ECOi-W
Chiller, VRF and BMS control can be offered.



1odbus



Victaulic grooved connection

Victaulic Installation-Ready™ couplings assure proper piping installation. Optimised design to reduce installation effects, including noise and vibration attenuation.

- * Available in 140-210. ** Threaded Victaulic connection kit (PAW-SYSVICTH) is optional.

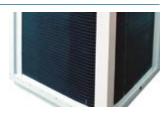


Model type supplied may vary.

Bluefin for more durability

Bluefin hygrophillic coating improves defrost performance and reduces damage for a longer life time.





Low noise

ECOi-W series is equipped with the compressor phonic insulation box as a standard.

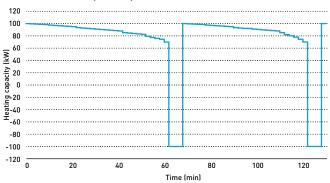
* Standard in 20-40, 140-210. Optional in



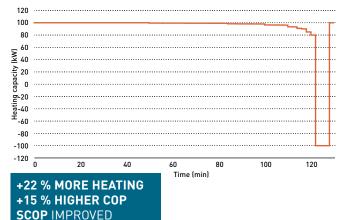
Defrost limiting coil design

- · Fin space increased to prevent the coil freezing
- · Number of rows increased to maintain the same capacity in standard conditions
- · Designed to decrease freezing frequency as soon as outdoor air temperature goes below 7 °C
- * Available in heat pump range size 140-210.

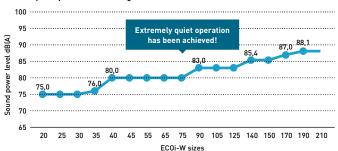
Standard coil: 2 defrost cycles every 130 min.



Special coil design: 1 defrost cycle every 130 min.



ECOi-W quiet operation in full range.



^{*} Performance with standard fans. In the range 45-125, noise performance without low noise option.

Solutions for Hospitals

ECOi-W Series offers a reliable solution with an optimised design for service and maintenance, making it ideal for hospital applications. Remote monitoring through the ECOi-W Cloud offers enhanced service support and a highly efficient fan coil range delivers increased comfort.





High quality heat pumps and cooling only chillers.

ECOi-W Series provides a fully customisable design to meet the business application needs, with a capacity range from 20 kW to 210 kW. Reliable quality and an optimised design for service and maintenance are ideal for a hospital project.



A wide variety of fan coils.

A wide variety of units to suit your needs, with flexible installation options. High efficiency and low noise operation allows for optimum comfort.

Operation in heating and cooling is possible.



ECOi-W Cloud - remote monitoring.

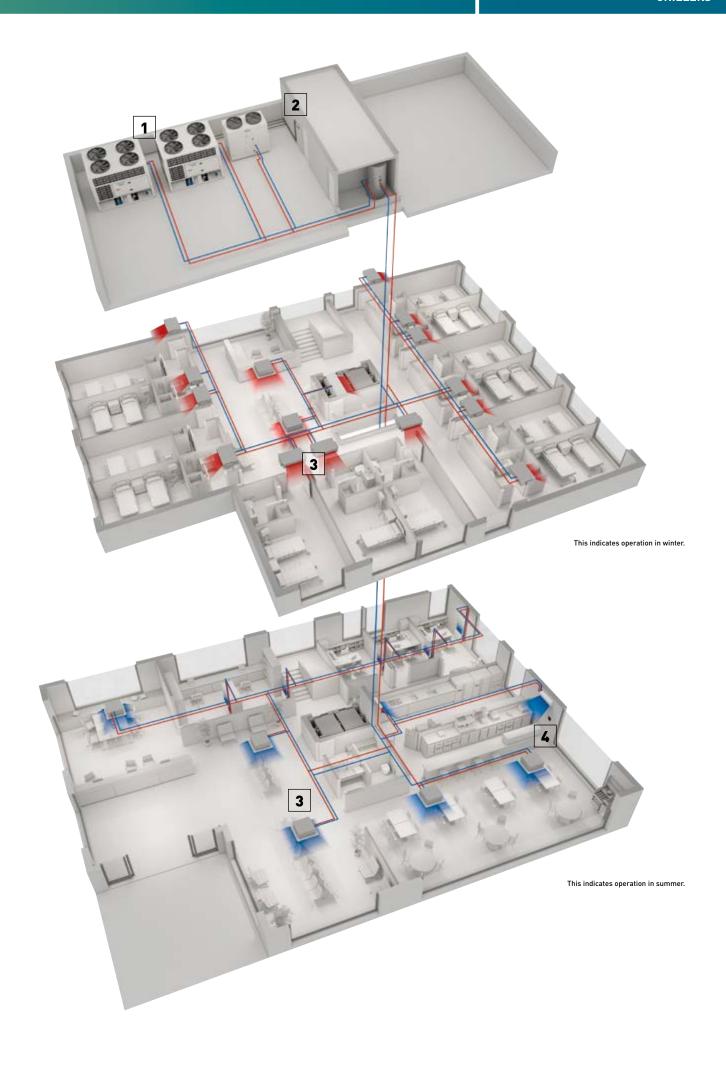
This control provides remote access, in real time, to optimise service and maintenance work.

It is a useful solution for a project requiring high levels of safety and non-stop operation, such as hospitals.



Intuitive controllers for fan coils.

Controllers with sophisticated designs provide a user friendly interface. An easy and low cost integration to building management systems.



Range of ECOi-W outdoor units

Page	Outdoor units	20 kW	25 kW	30 kW	35 kW	40 kW	45 kW	55 kW	65 kW	75 kW	
	ECOi-W 20 to 40										
P. 430	Heat pump	U-020CWNB U-020CWBS	U-025CWNB U-025CWBS	U-030CWNB U-030CWBS	U-035CWNB U-035CWBS	U-040CWNB U-040CWBS					
P. 440	Cooling only	U-020CVNB U-020CVBS	U-025CVNB U-025CVBS	U-030CVNB U-030CVBS	U-035CVNB U-035CVBS	U-040CVNB U-040CVBS					

EC0i-W 45 to 75



P. 432	Heat pump		U-055CWNB U-055CWBM	U-065CWNB U-065CWBM	
P. 442	Cooling only	U-045CVNB U-045CVBM		U-065CVNB U-065CVBM	

EC0i-W 90 to 125

P. 434	Heat pump
D ///	Cooling only
г. 444	only

EC0i-W 140 to 210

P. 436	Heat pump
P. 446	Cooling only

90 kW	105 kW	125 kW	140 kW	150 kW	170 kW	190 kW	210 kW	



U-090CWNB	U-105CWNB	U-125CWNB
U-090CWBM	U-105CWBM	U-125CWBM
U-090CVNB	U-105CVNB	U-125CVNB
U-090CVBM	U-105CVBM	U-125CVBM



U-140CWNB	U-150CWNB	U-170CWNB	U-190CWNB	U-210CWNB
U-140CWBL	U-150CWBL	U-170CWBL	U-190CWBL	U-210CWBL
U-140CVNB	U-150CVNB	U-170CVNB	U-190CVNB	U-210CVNB
U-140CVBL	U-150CVBL	U-170CVBL	U-190CVBL	U-210CVBL





U - 020/025/030/035/040 CW

Cooling capacity: 19,4 to 37,4 kW Heating capacity: 19,5 to 41,6 kW

Compact and powerful heat pump chiller series with Panasonic quality verification.

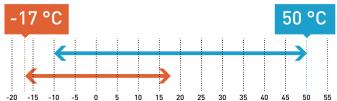
ECOi-W Series guarantees quiet operation.



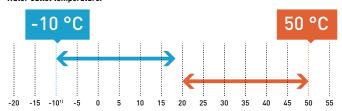
- · High seasonal efficiency in cooling and heating
- · Eurovent certified
- Ambient temperature operating range: -10 to +50 °C in cooling, -17 to +20 °C in heating
- \cdot Water outlet temperature range: -10 to +18 °C in cooling, +20 to +50 °C in heating
- · Super quiet operation
- · Optimised design for service and maintenance
- · Simple user friendly control as standard
- · Modbus RTU as standard
- **Technical focus**
- · Chiller type: heat pump
- Compressor type (number of compressors): Scroll compressors (2)
- · Refrigerant type: R410A · Refrigerant circuit: 1
- · Fan type (number of fans): axial fan (1)
- · Heat exchanger: stainless steel plate heat exchanger
- \cdot Flow switch, water safety & air purge valves included
- · Water filter included (mandatory to be installed on site)
- · Night mode setting to save energy and reduce noise level
- · Water compensation curve control
- · Bluefin anti-corrosion coating
- · Optional hydraulic kit

- · Optional finned coil treatment
- · Optional Modbus TCP/IP, BACnet IP and BACnet MSTP
- · Optional remote LAN connection





Water outlet temperature.



Cooling: Outside air temperature [°C [DB]). Heating: Outside air temperature [°C [WB]). * With glycol $45\,\%$ maximum, $5\,$ °C without glycol.

Available options

Options				
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump	Variable twin speed 1]	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
	Variable capacity	Water isolation valves	Rubber pads	Power supply w/o neutral
	Constant outlet pressure		Spring damper	Modbus TCP/IP
	Constant differential pressure		All seasons	BACnet MSTP
			Nordic pack	BACnet IP
			High pressure fan 2)	Remote LAN connection
				Desuperheater 33



REFER TO PAGE 438 TO SEE MORE OPTIONS FOR HEAT PUMP OUTDOOR UNITS







Optional Shut off valves kit for model 20 - 40. PAW-SYSSOV1

Model			20	25	30	35	40
Standard without buffer tank			U-020CWNB	U-025CWNB	U-030CWNB	U-035CWNB	U-040CWNB
With buffer tank			U-020CWBS	U-025CWBS	U-030CWBS	U-035CWBS	U-040CWBS
	Voltage	٧	400	400	400	400	400
Power supply	Phase		Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50
Cooling capacity 1)		kW	18,7	23,7	26,4	35,8	38,1
Input power 1]		kW	5,9	7,7	9,4	12,3	13,1
Total EER 100 % 1)			3,15	3,07	2,81	2,92	2,91
SEER 2] 3]			4,68	4,31	4,28	4,25	4,33
η _{s,c} 2) 3)		%	184	169	168	167	170
Heating capacity 4]		kW	19,5	26,9	29,7	37,3	41,6
Input power 4]		kW	6,1	9,3	9,9	13,2	13,5
SCOP 3) 5)			3,50	3,38	3,45	3,50	3,50
η _{s,h} 3) 5)		%	137	132	135	137	137
Energy efficiency class (Scale A+++ to D) 6)			A+	A+	A+	A+	A+
Startup type			Direct	Direct	Direct	Direct	Direct
Maximum operating current		A	17,7	22,2	24,3	31,8	33,8
Startup current w/o softstarter / w softstarter		A	53/20	64/35	77/41	118/53	119/54
Sound power (w standard fans)		dB(A)	75,0	75,0	75,0	76,0	76,0
Sound pressure (w standard fans) 7)		dB(A)	42.8	42,8	42,8	43,8	43.8
Dimension (w standard fans) w/o buffer tank	HxWxD	mm	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000
Dimension (w standard fans) w buffer tank	HxWxD	mm	1983 x 1000 x 1507	1983 x 1000 x 1507	1983 x 1000 x 1507	1983 x 1000 x 1507	1983 x 1000 x 1507
Weight (w 1 pump) w/o buffer tank		kg	280	290	320	330	335
Weight (w 1 pump) w buffer tank		kg	345	355	385	395	400
Refrigerant (R410A)		kg	8,4	8,4	8,4	9,1	9,2
Number of refrigerant circuit		y	1	1	1	1	1
Compressors		-	•		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Number			2	2	2	2	2
Туре			Scroll	Scroll	Scroll	Scroll	Scroll
Part load step		%	0/50/100	0/50/100	0/50/100	0/50/100	0/50/100
Crankcase heater		W	2 x 40	2 x 40	2 x 49	2x49	2x49
Evaporator			2,40	2740	2,47	2747	2,47
Number			1	1	1	1	1
Туре			Plate	Plate	Plate	Plate	Plate
Nominal water flow (cooling)		m³/h	3,35	4,36	4,64	6,16	6,44
Water pressure drop (cooling)		kPa	23	37	22	37	40
Water volume		1	1,78	1,78	2,55	2,55	2,55
Antifreeze heater		W	30	30	30	30	30
Coils							
Number			1	1	1	1	1
Frontal surface		m²	2,4	2,4	2,4	2,8	2,8
Number of rows			2,4	2	2	2	2
Fans standard							
Number			1	1	1	1	1
Air flow		m³/h	9000	13000	13000	16000	16000
Rotation speed		r.p.m.	900	900	900	650	650
Power input (each fan)		W.	620	940	940	930	930
Water connections		V V	020	740	740	730	730
Type			Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded	Male gas threaded
			BSPP ISO 228	BSPP ISO 228	BSPP ISO 228	BSPP ISO 228	BSPP ISO 228
Inlet - diameter		Inch	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2

 Type
 Male gas threaded BSPP ISO 228
 Male gas threaded BSPP ISO 228

 Inlet - diameter
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1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Those are the data with variable flow. 4) Data refers to 45 °C leaving warm water temperature and 7 °C ambient coil air temperature with 87 % R.H., according EN14511 standard. 5) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 6) Following Eurovent and COMMISSION REGULATION (EU) No 811/2013 for low-temperature heat pumps. Scale from A++++ to D, as of 26th September 2019. 7) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape. * w: with, w/o: without.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glande for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV1	Shut off valves kit for model 20 - 40





























U - 045/055/065/075 CW

Cooling capacity: 46,8 to 71,6 kW Heating capacity: 48,5 to 75,9 kW

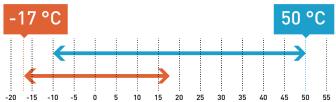
High seasonal efficiency in cooling, maximum SEER 4,63 in this range. ECOi-W Series offers a variety of options to meet your needs.



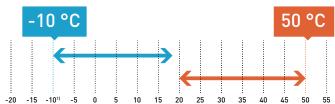
- · High seasonal efficiency in cooling and heating
- · Eurovent certified
- · Ambient temperature operating range: -10 to +50 °C in cooling, -17 to +20 °C in heating
- \cdot Water outlet temperature range: -10 to +18 °C in cooling, +20 to +50 °C in heating
- · Optional extra-low noise kit available
- · Optimised design for service and maintenance
- · Simple user friendly control as standard
- · Modbus RTU as standard
- **Technical focus**
- · Chiller type: heat pump
- Compressor type (number of compressors): Scroll compressors (2)
- · Refrigerant type: R410A · Refrigerant circuit: 1
- \cdot Fan type (number of fans): axial fan (1 for 45/55, 2 for 65/75)
- · Heat exchanger: stainless steel plate heat exchanger
- · Flow switch, water safety & air purge valves included
- · Water filter included (mandatory to be installed on site)
- · Night mode setting to save energy and reduce noise level
- · Water compensation curve control

- · Bluefin anti-corrosion coating
- · Optional hydraulic kit
- · Optional Desuperheater for free hot water up to 50 °C
- · Optional finned coil treatment
- · Optional Modbus TCP/IP, BACnet IP and BACnet MSTP
- · Optional remote LAN connection

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature [°C [DB]). Heating: Outside air temperature [°C [WB]). * With glycol $45\,\%$ maximum, $5\,$ °C without glycol.

Available options

Options				
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump	Fixed speed	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
Double pump	Variable twin speed	Water isolation valves	Outdoor coil protection grid	Power supply w/o neutral
	Variable capacity	Electrical heater low power (only	Rubber pads	Modbus TCP/IP
	Constant outlet pressure	with buffer tank)	Spring damper	BACnet MSTP
	Constant differential pressure	Electrical heater high power (only with buffer tank)	All seasons fan control	BACnet IP
			Extra-low noise kit	Remote LAN connection
			High pressure fan	Container transport
				Refrigerant gauge
				Desuperheater



REFER TO PAGE 438 TO SEE MORE OPTIONS FOR HEAT PUMP OUTDOOR UNITS







Optional Shut off valves kit for model 45 - 75. PAW-SYSSOV2

Model			45	55	65	75
Standard without buffer tank			U-045CWNB	U-055CWNB	U-065CWNB	U-075CWNB
With buffer tank			U-045CWBM	U-055CWBM	U-065CWBM	U-075CWBM
	Voltage	٧	400	400	400	400
Power supply	Phase	,	Three phase	Three phase	Three phase	Three phase
,	Frequency	Hz	50	50	50	50
Cooling capacity 1)		kW	44,3	50,9	64,1	71,0
Input power 1]		kW	15,9	18,0	21,8	24,0
Total EER 100 % 1)			2,78	2,83	2,95	2,96
SEER 2) 3)			4,20	4,41	4,51	4,63
η _{s,c} 2) 3)		%	165	174	177	182
Heating capacity 4]		kW	48,5	58,2	67,2	75,9
Input power 4)		kW	17,3	20,4	22,5	24,3
SCOP 3) 5)			3,38	3,38	3,55	3,53
η _{s,h} 3) 5)		%	132	132	139	138
Energy efficiency class (Scale A+++ to D) 6			A+	A+	A+	_
Startup type			Direct	Direct	Direct	Direct
Maximum operating current		Α	40,2	44,2	59,4	64,4
Startup current w/o softstarter / w softstarter		A	133/66	140/73	201/101	206/106
Sound power (w standard fans)		dB(A)	80,0	80,0	80,0	80,0
Sound pressure (w standard fans) 7)		dB(A)	47,8	47,8	47,8	47,8
Dimension (w standard fans) w/o buffer tank	HxWxD	mm	1986 x 2180 x 1160	1986 x 2180 x 1160	1986 x 2180 x 1160	1986 x 2180 x 1160
Dimension (w standard fans) w buffer tank	HxWxD	mm	1986 x 2680 x 1160	1986 x 2680 x 1160	1986 x 2680 x 1160	1986 x 2680 x 1160
Weight (w 1 pump) w/o buffer tank		kg	540	550	610	620
Weight (w 1 pump) w buffer tank		kg	700	710	770	780
Refrigerant (R410A)		kg	14,5	14,9	18,9	19,0
Number of refrigerant circuit		9	1	1	1	1
Compressors			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	•
Number			2	2	2	2
Туре			Scroll	Scroll	Scroll	Scroll
Part load step		%	0/50/100	0/43/57/100	0/40/60/100	0/45/55/100
Crankcase heater		W	2x66	2x66	2x66	2x66
Evaporator		- ''	2,00	2,000	2,00	2,700
Number			1	1	1	1
Туре			Plate	Plate	Plate	Plate
Nominal water flow (cooling)		m³/h	8,06	9,18	11,30	12,31
Water pressure drop (cooling)		kPa	30	35	28	37
Water volume		ı	4,10	4,10	6,10	6,10
Antifreeze heater		W	30	30	2x30	2x30
Coils		**			2,700	2,00
Number			1	1	2	2
Frontal surface		m²	4,20	4,20	5,55	5,55
Number of rows		111	2	2	2	2
Fans standard			<u> </u>	<u> </u>		
Number			1	1	2	2
Air flow		m³/h	22500	22500	30000	30000
Rotation speed			790	790	650	650
Power input (each fan)		r.p.m. W	1650	1650	930	930
Water connections		VV	1000	1000	/30	730
water connections			Mala and Original Con-	Mala and the first	Mala and the first	Mala a 10 1
Туре			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
<u> </u>		In als				
Inlet - diameter		Inch	2	2	2	2
Outlet - diameter		Inch	2	2	2	2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Those are the data with variable flow. 4) Data refers to 45 °C leaving warm water temperature and 7 °C ambient coil air temperature with 87 % R.H., according EN14511 standard. 5) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 6) Following Eurovent and COMMISSION REGULATION (EU) No 811/2013 for low-temperature heat pumps. Scale from A+++ to D, as of 26th September 2019. 7) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape. * w: with, w/o: without.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glande for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV2	Shut off valves kit for model 45 - 75

























U - 090/105/125 CW

Cooling capacity: 91,4 to 121,9 kW Heating capacity: 88,1 to 119,1 kW

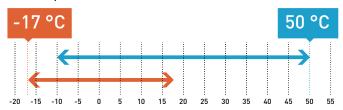
Customizable design gives high flexibility. Wide range of communication protocols fulfill the requirements in hotels, offices, industry applications.



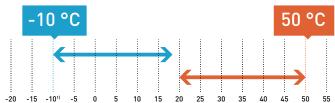
- · High seasonal efficiency in cooling and heating
- · Eurovent certified
- Ambient temperature operating range: -10 to +50 °C in cooling, -17 to +20 °C in heating
- \cdot Water outlet temperature range: -10 to +18 °C in cooling, +20 to +50 °C in heating
- · Optional extra-low noise kit available
- · Optimised design for service and maintenance
- · Simple user friendly control as standard
- · Modbus RTU as standard
- **Technical focus**
- · Chiller type: heat pump
- Compressor type (number of compressors): Scroll compressors (2)
- Refrigerant type: R410ARefrigerant circuit: 1
- · Fan type (number of fans): axial fan (2)
- · Heat exchanger: stainless steel plate heat exchanger
- \cdot Flow switch, water safety & air purge valves included
- · Water filter included (mandatory to be installed on site)
- · Night mode setting to save energy and reduce noise level
- · Water compensation curve control

- · Bluefin anti-corrosion coating
- · Optional hydraulic kit
- · Optional Desuperheater for free hot water up to 50 °C
- · Optional finned coil treatment
- · Optional Modbus TCP/IP, BACnet IP and BACnet MSTP
- · Optional remote LAN connection

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature [°C [DB]). Heating: Outside air temperature [°C [WB]). * With glycol $45\,\%$ maximum, $5\,$ °C without glycol.

Available options

Options						
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options		
Pump Single pump	Fixed speed	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter		
Double pump	Variable twin speed	Water isolation valves	Outdoor coil protection grid	Power supply w/o neutral		
Pump Single pump Double pump	Variable capacity	Electrical heater low power (only	Rubber pads	Modbus TCP/IP BACnet MSTP BACnet IP		
	Constant outlet pressure	with buffer tank)	Spring damper			
	Constant differential pressure	Electrical heater high power (only	All seasons fan control			
		with buffer tank)	Extra-low noise kit	Remote LAN connection		
			High pressure fan	Container transport		
				Refrigerant gauge		
				Desuperheater		



REFER TO PAGE 438 TO SEE MORE OPTIONS FOR HEAT PUMP OUTDOOR UNITS







Optional Shut off valves kit for model 90 - 125. PAW-SYSSOV3

Model			90	105	125
Standard without buffer tank			U-090CWNB	U-105CWNB	U-125CWNB
With buffer tank			U-090CWBM	U-105CWBM	U-125CWBM
	Voltage	V	400	400	400
Power supply	Phase		Three phase	Three phase	Three phase
***	Frequency	Hz	50	50	50
Cooling capacity 1]		kW	88,7	100,8	119,3
Input power 1]		kW	30,6	34,8	40,4
Total EER 100 % 1)			2,90	2,89	2,96
SEER 2) 3)			4,40	4,44	4,49
η _{s,c} ^{2) 3)}		%	173	175	177
Heating capacity 4		kW	88,1	101,0	119,1
Input power 4]		kW	33,8	38,4	45,5
SCOP 315)		KVV	3,40	3,43	3,43
η _{s,h} 3) 5)		%	133	134	134
,		70			· · · · · · · · · · · · · · · · · · ·
Startup type			Direct	Direct	Direct
Maximum operating current		Α	77,9	86,0	102,0
Startup current w/o softstarter / w softstarter		Α	265/127	312/146	345/183
Sound power (w standard fans)		dB(A)	83,0	83,0	83,0
Sound pressure (w standard fans) 6)		dB(A)	50,8	50,8	50,8
Dimension (w standard fans) w/o buffer tank	HxWxD	mm	2286 x 2180 x 1160	2286 x 2180 x 1160	2286 x 2180 x 1160
Dimension (w standard fans) w buffer tank	HxWxD	mm	2286 x 2680 x 1160	2286 x 2680 x 1160	2286 x 2680 x 1160
Weight (w 1 pump) w/o buffer tank		kg	790	900	920
Weight (w 1 pump) w buffer tank		kg	950	1060	1080
Refrigerant (R410A)		kg	22,0	27,0	28,5
Number of refrigerant circuit			1	1	1
Compressors					
Number			2	2	2
Туре			Scroll	Scroll	Scroll
Part load step		%	0/45/55/100	0/38/62/100	0/33/67/100
Crankcase heater		W	66/82	66/95	66/95
Evaporator					
Number			1	1	1
Туре			Plate	Plate	Plate
Nominal water flow (cooling)		m³/h	15,73	18,25	20,95
Water pressure drop (cooling)		kPa	26	34	45
Water volume		l	10,80	10,80	10,80
Antifreeze heater		W	2x30	2x30	2x30
Coils					
Number			2	2	2
Frontal surface		m²	6,4	6,4	6.4
Number of rows			2	3	3
Fans standard		,	<u> </u>	<u>_</u>	<u> </u>
Number			2	2	2
Air flow		m³/h	42000	42000	42000
			790	790	790
Rotation speed Power input (each fan)		r.p.m. W	1650	1650	1650
		VV	1600	1 0 0 0	1 000
Water connections			M.I. II I DODD 100 000	M	M. I. I. DODD 100 00
Type				Male gas threaded BSPP ISO 228	
		Inch	21/2	21/2	21/2
Inlet - diameter Outlet - diameter		Inch	21/2	21/2	21/2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application childers. 3) Those are the data with variable flow. 4) Data refers to 45 °C leaving warm water temperature and 7 °C ambient coil air temperature with 87 % R.H., according EN14511 standard. 5) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 6) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape. * w: with, w/o: without.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glande for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV3	Shut off valves kit for model 90 - 125

























U - 140/150/170/190/210 CW

Cooling capacity: 125,4 to 195,4 kW Heating capacity: 143,7 to 217,6 kW

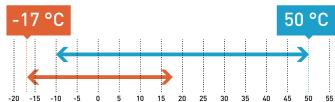
Heat pump chiller series with powerful operation by 4 scroll compressors. Maximum water outlet temperature in heating is up to 50 $^{\circ}$ C. Defrost limiting design ensures to provide stable hot water even at low ambient conditions.



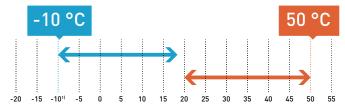
- · Smart defrost: Defrost limiting design to ensure a constant water outlet temperature even at very low temperatures
- · High seasonal efficiency in cooling and heating
- · Eurovent certified
- \cdot Ambient temperature operating range: -10 to +50 °C in cooling, -17 to +20 °C in heating
- · Water outlet temperature range: -10 to +18 °C in cooling,
- +20 to +50 °C in heating
- · Super quiet operation
- · Victaulic water connections
- \cdot Optimised design for service and maintenance
- · Simple user friendly control as standard
- · Modbus RTU as standard
- · Modbus TCP/IP as standard
- **Technical focus**
- · Chiller type: heat pump
- · Compressor type (number of compressors): Scroll compressors (4)
- · Refrigerant type: R410A
- · Refrigerant circuit: 2
- · Fan type (number of fans): axial fan (4)
- $\cdot \ \text{Heat exchanger: stainless steel plate heat exchanger}$
- · Flow switch, water safety & air purge valves included
- · Water filter included (mandatory to be installed on site)
- · Night mode setting to save energy and reduce noise level

- · Water compensation curve control
- · Bluefin anti-corrosion coating
- · Optional hydraulic kit
- · Optional Desuperheater for free hot water up to 50 °C*
- · Optional finned coil treatment
- · Optional gauges hydraulic and refrigerant
- · Optional BACnet
- · Remote LAN connection as standard
- * Available on special order only, please contact your local Panasonic sales representative.

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature [°C [DB]). Heating: Outside air temperature [°C [WB]). * With glycol 45 % maximum, 5 °C without glycol.

Available options

Options				
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump low pressure	Fixed speed	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
Single pump high pressure	Variable twin speed	Water isolation valves	Outdoor coil protection grid	Power supply w/o neutral
Double pump low pressure	Variable capacity	Hydraulic gauges	Rubber pads	Modbus TCP/IP
Double pump high pressure	Constant outlet pressure		Spring damper	BACnet IP
	Constant differential pressure		All seasons fan control	Container transport
			Nordic pack	Refrigerant gauge
			High pressure fan	



1 DEFROST CYCLE EVERY 130 MINUTES.

Heating Capacity: +22 % Integrated COP: +15 % Improved SCOP Class REFER TO PAGE 438 TO SEE MORE OPTIONS FOR HEAT PUMP OUTDOOR UNITS



Optional remote control.
PAW-SYSREMKIT

Model			140	150	170	190	210
Standard without buffer tank			U-140CWNB	U-150CWNB	U-170CWNB	U-190CWNB	U-210CWNB
With buffer tank			U-140CWBL	U-150CWBL	U-170CWBL	U-190CWBL	U-210CWBL
	Voltage	V	400	400	400	400	400
Power supply	Phase		Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50
Cooling capacity 1]		kW	128,3	142,1	163,9	177,5	207,9
Input power 1]		kW	43,2	47,7	54,7	61,3	69,7
Total EER 100 % 1)			2,97	2,98	2,99	2,90	2,98
SEER 2) 3)			4,39	4,36	4,31	4,23	4,28
η _{s,c} 2) 3)		%	173	171	169	166	168
Heating capacity 4)		kW	144,0	154,0	170,0	195,0	218,0
Input power 4)		kW	45,7	50,3	55,5	67,4	78,3
SCOP 3) 5)			3,30	3,33	3,30	3,23	3,23
η _{s,h} 3) 5)		%	129	130	129	128	126
Startup type			Direct	Direct	Direct	Direct	Direct
Maximum operating current		A	108,0	119,0	136,0	153,0	170,0
Startup current w/o softstarter / w softstarter		A	251/130	262/141	324/161	341/178	396/201
Sound power (w standard fans)		dB(A)	85,4	85,4	87,0	88,1	88,1
Sound pressure (w standard fans) 6)		dB(A)	53,4	53,4	55,0	56,1	56,1
Dimension (w standard fans) w/o buffer tank	HxWxD	mm	2295 x 2856 x 2210	2295 x 2856 x 2210			
Dimension (w standard fans) w buffer tank	HxWxD	mm	2295 x 3666 x 2210	2295 x 3666 x 2210			
Weight (w 1 low Pa pump) w/o buffer tank		kg	1570	1580	1680	1750	2020
Weight (w 1 low Pa pump) w buffer tank		kg	1700	1710	1810	1880	2150
Refrigerant (R410A)		kg	2 x 24,7	2 x 24,7	24,7/33,3	2 x 33,3	2 x 33,3
Number of refrigerant circuit		9	2	2	2	2	2
Compressors		-					
Number			4	4	4	4	4
Туре			Scroll	Scroll	Scroll	Scroll	Scroll
·/F-		·	0 / 24 / 26 / 48 / 50	0 / 23 / 27 / 46 / 50	0 / 20 / 24 / 44 / 45	0 / 22 / 28 / 44 / 50	
Part load step		%	/ 52 / 74 / 76 / 100	/54/73/77/100	/55 / 69 / 80 / 100	/56 / 72 / 78 / 100	/62/69/81/100
Crankcase heater		W	4 x 66	4 x 66	3x66/82	2x82/2x66	2x95/2x66
Evaporator							
Number			1	1	1	1	1
Туре			Plate	Plate	Plate	Plate	Plate
Nominal water flow (cooling)		m³/h	21,56	23,65	25,95	30,24	33,62
Water pressure drop (cooling)		kPa	33	39	24	32	40
Water volume		l	8,49	8,49	12,21	12,21	12,21
Antifreeze heater		W	60	60	120	120	120
Coils							
Number			4	4	4	4	4
Frontal surface		m²	11,88	11,88	11,88	11,88	11,88
Number of rows			2+2	2+2	2+3	3+3	3+3
Fans standard							
Number		·	4	4	4	4	4
Air flow		m³/h	56000	56000	71000	86000	83000
Rotation speed		r.p.m.	900	900	900	900	900
Power input (each fan)		W	940	940	940 - 1650	1650	1650
Water connections		**	740	740	740 1030	1000	1000
_			Victaulic	Victaulic	Victaulic	Victaulic	Victaulic
Type Inlet - diameter		Inch	21/2	21/2	21/2	21/2	21/2
Outlet - diameter		Inch	2 1/2	21/2	21/2	21/2	21/2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Those are the data with variable flow. 4) Data refers to 45 °C leaving warm water temperature and 7 °C ambient coil air temperature with 87 % R.H., according EN14511 standard. 5) Following COMMISSION REGULATION (EU) No 813/2013 for low-temperature heat pumps. 6) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape. * with without

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glande for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSVICTH	Victaulic connection kit for model 140 - 210



























Options for heat pump outdoor units

0-4:	T	Ref.	Description .						- 14-	del					
	Option Type		Description	20	75	00	105	125							
1	Capacity	14/	D/10A Good and best more	20	25	30	35	40	45	55	65	75	90	105	125
2	Refrigerant and compressor type		R410A, fixed speed, heat pump	-	C+4	C+4	C+4	C+4	C+4	C+4	C+4	C+4	C+4		C+4
2	Deffer to all outline	NB DC	No buffer	Std	Std	Std	Std	Std	510	Std	510	Std	Std	Std	Std
3	Buffer tank option	BS	Buffer tank (small)	•	•	•	•	•							
		ВМ	Buffer tank (medium)	Cr-l	Ct-l	Ct-l	Ct-l	Crd		Ct-l		- -			
,	D		No pump	Std	Std	Std	Std	510	Std	Std	Std	Std	Std		Std
4	Pump option		Single pump	•	•	•	•	•	•	•	•	•	•	•	
			Double pump						•	•	•	•	•	•	•
			Pump drive - fixed speed						Std	Std	Std	Std	Std	Std	Std
			Pump drive - variable twin speed (single pump)	•	•	•	•	•	•	•	•	•	•	•	_•
		Pump drive - variable twin speed (double pump)							•	•	•	•	•	•	•
5	Pump drive option		Pump drive - variable speed capacity (single pump)	•	•	•	•	•	•	•	•	•	•	•	_•
	r r r r		Pump drive - variable speed capacity (double pump)						•	•	•	•	•	•	•
			Pump drive - constant outlet pressure (single pump)	•	•	•	•	•	•	•	•	•	•	•	•
			Pump drive - constant outlet pressure (double pump)						•	•	•	•	•	•	•
			Pump drive - constant differential pressure (single pump) 11	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0	S0
			No hydraulic options	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
			Low water pressure sensor ²	•	•	•	•	•	•	•	•	•	•	•	•
6 1	Hydraulic options		Water isolation valves	•	•	•	•	•	•	•	•	•	•	•	•
			Electric heater - low power (buffer tank required)						•	•	•	•	•	•	•
			Electric heater - high power (buffer tank required)						•	•	•	•	•	•	•
			No ambient options	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
			Finned coil treatment - epoxy	•	•	•	•	•	•	•	•	•	•	•	•
			Outdoor coil protection grid	•	•	•	•	•	•	•	•	•	•	•	•
			Rubber pads	•	•	•	•	•	•	•	•	•	•	•	•
7	Ambient options		Spring damper	•	•	•	•	•	•	•	•	•	•	•	•
			Fan speed control (FSC)	•	•	•	•	•	•	•	•	•	•	•	•
			Nordic pack ^{3]}	•	•	•	•	•							
			Low noise	Std	Std	Std	Std	Std	•	•	•	•	•	•	•
			High pressure fan ⁴⁾	S0	•	•	•	•	•	•	•	•	•	•	•
			No miscellaneous options	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
			Soft starter	•	•	•	•	•	•	•	•	•	•	•	•
			Power supply w/o neutral 5)	S0	S0	SO	SO	SO	S0	SO	SO	SO	S0	S0	SO
			Standard BMS option (Modbus RTU)	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
			Modbus TCP/IP	•	•	•	•	•	•	•	•	•	•	•	•
8	Miscellaneous options		BACnet MSTP	•	•	•	•	•	•	•	•	•	•	•	•
	1 2 2		BACnet IP	•	•	•	•	•	•	•	•	•	•	•	•
			Remote LAN connection	•	•	•	•	•	•	•	•	•	•	•	•
			Container transport						•	•	•	•	•	•	•
			Refrigerant gauge						•	•	•	•	•	•	-

¹⁾ Constant differential pump drive options are only available on a special order and requires additional production time. Please contact your local sales representative.
2) Supplied loose for unit w/o pump.
3) The Nordic pack is not required on models 45 - 125 due to model design.
4) High pressure fan is not available on model 20 due to body design.
5) Power supply without Neutral is only available on a special order basis, and requires additional production time. Please contact your local sales representative.
6) Inclusion of desuperheater will extend standard production time, please contact your local Panasonic sales representative for details.

Std: Standard item included.
•: Optional item that can be selected.

S0: Special order item.



Options table 140 - 210

Option	Туре	Ref.	Description			Model		
1	Capacity			140	150	170	190	210
2	Refrigerant and compressor type	W	R410A, fixed speed, heat pump	•	•	•	•	•
	D "	NB	No buffer	Std	Std	Std	Std	Std
3	B Buffer tank option		Buffer tank (large)	•	•	•	•	•
			No pump	Std	Std	Std	Std	Std
			Single pump low pressure	•	•	•	•	•
4	Pump option		Single pump high pressure	•	•	•	•	•
			Double pump low pressure	•	•	•	•	•
			Double pump high pressure	•	•	•	•	•
			Pump drive - fixed speed 1)	Std	Std	Std	Std	Std
			Pump drive - variable twin speed (single pump)	•	•	•	•	•
			Pump drive - variable twin speed (double pump)	•	•	•	•	•
			Pump drive - variable speed capacity (single pump)	•	•	•	•	•
5	Pump drive option		Pump drive - variable speed capacity (double pump)	•	•	•	•	•
			Pump drive - constant outlet pressure (single pump)	•	•	•	•	•
			Pump drive - constant outlet pressure (double pump)	•	•	•	•	•
			Pump drive - constant differential pressure (single pump) 21	S0	S0	S0	S0	SO
			Pump drive - constant differential pressure (double pump) 21	S0	S0	S0	S0	S0
			No hydraulic options	Std	Std	Std	Std	Std
,	6 Hydraulic options		Low water pressure sensor 31	•	•	•	•	•
0			Water isolation valves	•	•	•	•	•
			Hydraulic gauges	•	•	•	•	•
			No ambient options	Std	Std	Std	Std	Std
			Finned coil treatment - epoxy	•	•	•	•	•
			Outdoor coil protection grid 41	•	•	•	•	•
7	Ambient options		Rubber pads	•	•	•	•	•
1	Ambient options		Spring damper	•	•	•	•	•
			Fan speed control (FSC)	•	•	•	•	•
			Nordic pack	•	•	•	•	•
			Low noise	Std	Std	Std	Std	Std
			No miscellaneous options	Std	Std	Std	Std	Std
			Soft starter	•	•	•	•	•
			Power supply w/o neutral	•	•	•	•	•
			Standard BMS option (Modbus RTU)	Std	Std	Std	Std	Std
8	Miscellaneous options		Modbus TCP/IP	•	•	•	•	•
			BACnet IP	•	•	•	•	•
			Remote LAN connection	Std	Std	Std	Std	Std
			Container transport	•	•	•	•	•
			Refrigerant gauge	•	•		•	

¹⁾ Fixed speed pump drive is standard when selecting a pump. Please select an alternative pump drive if required.
2) Constant differential pump drive options are only available on a special order and requires additional production time. Please contact your local sales representative.
3) Supplied loose for unit w/o pump.
4) Not available when using Nordic pack.

Std: Standard item included.
•: Optional item that can be selected.
SO: Special order item.





U - 020/025/030/035/040 CV

Cooling capacity: 19,3 to 40,9 kW

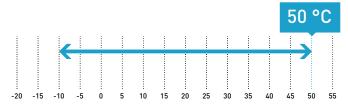
Compact and highly efficient chiller series, with SEER up to 4.78.



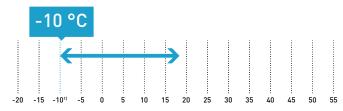
- · High seasonal efficiency
- · Ambient temperature operating range: -10 to +50 °C
- · Water outlet temperature range: -10 to +18 °C
- · Super quiet operation
- · Optimised design for service and maintenance
- · Simple user friendly control as standard
- · Modbus RTU as standard
- **Technical focus**
- · Chiller type: cooling only
- · Compressor type (number of compressors): Scroll compressors (2)
- · Refrigerant type: R410A
- · Refrigerant circuit: 1
- · Fan type (number of fans): axial fan (1)
- $\cdot \ \text{Heat exchanger: stainless steel plate heat exchanger}$
- · Flow switch, water safety & air purge valves included
- · Water filter included (mandatory to be installed on site)
- · Night mode setting to save energy and reduce noise level
- · Water compensation curve control
- · Optional hydraulic kit
- · Optional Desuperheater for free hot water up to 50 °C*
- · Optional finned coil treatment

- · Optional Modbus TCP/IP, BACnet IP and BACnet MSTP
- · Optional remote LAN connection
- * Available on special order only, please contact your local Panasonic sales representative.

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature (°C (DB)).
* With glycol 45 % maximum, 5 °C without glycol.

Available options

Options				
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump (as standard)	Fixed speed 1]	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
	Variable twin speed	Water isolation valves	Rubber pads	Power supply w/o neutral
	Variable capacity	- ·	Spring damper	Modbus TCP/IP
	Constant outlet pressure		All seasons	BACnet MSTP
	Constant differential pressure		High pressure fan 2)	BACnet IP
				Remote LAN connection
				Desuperheater 3)

¹⁾ Available for non-EU installation. 2) Available on models 25 - 40. 3) Available on special order only, please contact your local Panasonic sales representative.



REFER TO PAGE 448 TO SEE MORE OPTIONS FOR COOLING ONLY OUTDOOR UNITS







Optional Shut off valves kit for model 45 - 75. PAW-SYSSOV2

					_		
Model			20	25	30	35	40
Standard without buffer tank			U-020CVNB	U-025CVNB	U-030CVNB	U-035CVNB	U-040CVNB
With buffer tank			U-020CVBS	U-025CVBS	U-030CVBS	U-035CVBS	U-040CVBS
	Voltage	٧	400	400	400	400	400
Power supply	Phase		Three phase	Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50	50
Cooling capacity 11		kW	19,2	24,3	27,1	36,7	39,0
Input power 1]		kW	5,9	7,7	9,3	12,2	13,0
Total EER 100 % 1)			3,25	3,17	2,90	3,01	3,00
SEER 2)			4,78	4,38	4,43	4,43	4,48
η _{s,c} 2)		%	188	172	174	174	176
Startup type			Direct	Direct	Direct	Direct	Direct
Maximum operating current		Α	17,7	22,2	24,3	31,8	33,8
Startup current w/o softstarter / w softstarter		A	53/28	64/35	77/49	118/53	119/54
Sound power (w standard fans)		dB(A)	75,0	75,0	75,0	76,0	76,0
Sound pressure (w standard fans) 3)		dB(A)	42,8	42,8	42,8	43,8	43,8
Dimension (w standard fans) w/o buffer tank	HxWxD	mm	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000	1983 x 1000 x 1000
Dimension (w standard fans) w buffer tank	HxWxD	mm	1983 x 1000 x 1507	1983 x 1000 x 1507	1983 x 1000 x 1507	1983 x 1000 x 1507	1983 x 1000 x 1507
Weight (w 1 pump) w/o buffer tank		kg	265	275	305	315	320
Weight (w 1 pump) w buffer tank		kg	330	340	370	380	385
Refrigerant (R410A)		kg	6,5	8,4	8,4	9,1	9,2
Number of refrigerant circuit			1	1	1	1	1
Compressors					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Number			2	2	2	2	2
Type			Scroll	Scroll	Scroll	Scroll	Scroll
Part load step		%	0/50/100	0/50/100	0/50/100	0/50/100	0/50/100
Crankcase heater		W	2 x 40	2 x 40	2 x 49	2 x 49	2 x 49
Evaporator							
Number			1	1	1	1	1
Туре			Plate	Plate	Plate	Plate	Plate
Nominal water flow (cooling)		m³/h	3,35	4,36	4.64	6,16	6.44
Water pressure drop (cooling)		kPa	23	37	22	37	40
Water volume		l	1,78	1,78	2,55	2,55	2,55
Antifreeze heater		W	30	30	30	30	30
Coils							
Number			1	1	1	1	1
Frontal surface		m²	2,4	2,4	2,4	2,8	2,8
Number of rows			2	2	2	2	2
Fans standard							
Number			1	1	1	1	1
Air flow		m³/h	9000	13000	13000	16000	16000
Rotation speed		r.p.m.	900	900	900	650	650
Power input (each fan)		W	620	940	940	930	930
Water connections		.,	020	740	740	700	,,,,
Туре			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet - diameter		Inch	11/2	11/2	11/2	11/2	11/2
		Inch	1 1/2	1 1/2	11/2	1 1/2	1 1/2
Outlet - diameter		inch	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2

Туре		BSPP ISO 228				
Inlet - diameter	Inch	1 1/2	1 1/2	1 1/2	1 1/2	11/2
Outlet - diameter	Inch	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape.

* w: with, w/o: without. ** The data are calculated with variable flow.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glande for mobile (2/4G) antenna (3 m)

Tservice wireless fee for 1 year
Shut off valves kit for model 20 - 40



















U - 045/055/065/075 CV

Cooling capacity: 49,8 to 75,8 kW

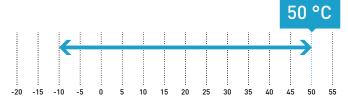
High seasonal efficiency and wide range options to meet the exact requirements of your project.



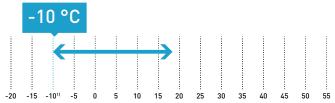
- · High seasonal efficiency
- · Ambient temperature operating range: -10 to +50 °C
- · Water outlet temperature range: -10 to +18 °C
- · Optional extra-low noise kit available
- · Optimised design for service and maintenance
- · Simple user friendly control as standard
- · Modbus RTU as standard

- · Optional finned coil treatment
- · Optional Modbus TCP/IP, BACnet IP and BACnet MSTP
- · Optional remote LAN connection

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature (°C (DB)).

* With glycol 45 % maximum, 5 °C without glycol.

Technical focus

- · Chiller type: cooling only
- Compressor type (number of compressors): Scroll compressors (2)
- · Refrigerant type: R410A
- · Refrigerant circuit: 1
- \cdot Fan type (number of fans): axial fan (1 for 45/55, 2 for 65/75)
- · Heat exchanger: stainless steel plate heat exchanger
- \cdot Flow switch, water safety & air purge valves included
- · Water filter included (mandatory to be installed on site)
- · Night mode setting to save energy and reduce noise level
- · Water compensation curve control
- · Optional hydraulic kit
- \cdot Optional Desuperheater for free hot water up to 50 °C

Available options

Options					
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options	
Single pump	Fixed speed 1]	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter	
Double pump	Variable twin speed	Water isolation valves	Outdoor coil protection grid	Power supply w/o neutral	
	Variable capacity		Rubber pads	Modbus TCP/IP	
	Constant outlet pressure		Spring damper	BACnet MSTP	
	Constant differential pressure		All seasons fan control	BACnet IP	
			Extra-low noise kit	Remote LAN connection	
			High pressure fan	Container transport	
				Refrigerant gauge	
				Desuperheater	

1) Available for non-EU installation.



REFER TO PAGE 448 TO SEE MORE OPTIONS FOR COOLING ONLY OUTDOOR UNITS







Model			45	55	65	75
Standard without buffer tank			U-045CVNB	U-055CVNB	U-065CVNB	U-075CVNB
With buffer tank			U-045CVBM	U-055CVBM	U-065CVBM	U-075CVBM
	Voltage	٧	400	400	400	400
Power supply	Phase		Three phase	Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50	50
Cooling capacity 1)		kW	45,3	52,0	66,1	73,1
Input power 1]		kW	15,4	17,6	21,7	24,0
Total EER 100 % ¹⁾		,	2,95	2,96	3,05	3,05
SEER 2)			4,40	4,53	4,53	4,68
η _{s,c} 2)		%	173	178	178	184
Startup type			Direct	Direct	Direct	Direct
Maximum operating current		A	40.2	44.2	58.4	64.4
Startup current w/o softstarter / w softstarter		Α	133,2/65,8	140,2/72,8	201,4/101,0	206,4/106,0
Sound power (w standard fans)		dB(A)	80,0	80,0	80,0	80,0
Sound pressure (w standard fans) 3		dB(A)	47,8	47,8	47,8	47,8
Dimension (w standard fans) w/o buffer tank	HxWxD	mm	1986 x 2180 x 1160	1986 x 2180 x 1160	1986 x 2180 x 1160	1986 x 2180 x 1160
Dimension (w standard fans) w buffer tank	HxWxD	mm	1986 x 2680 x 1160	1986 x 2680 x 1160	1986×2680×1160	1986 x 2680 x 1160
Weight (w 1 pump) w/o buffer tank	=	kg	515	520	580	590
Weight (w 1 pump) w buffer tank		kg	675	680	740	750
Refrigerant (R410A)		kg	14,5	14,9	18,9	19,0
Number of refrigerant circuit		9	1	1	1	1
Compressors				· · · · · · · · · · · · · · · · · · ·	·	
Number		,	2	2	2	2
Type			Scroll	Scroll	Scroll	Scroll
Part load step		%	0/50/100	0/43/57/100	0/40/60/100	0/45/55/100
Crankcase heater		W	2x66	2x66	2x66	2x66
Evaporator						
Number			1	1	1	1
Туре			Plate	Plate	Plate	Plate
Nominal water flow (cooling)		m³/h	8.06	9,18	11,30	12,31
Water pressure drop (cooling)		kPa	30	35	28	37
Water volume		1	4,10	4,10	6,10	6,10
Antifreeze heater		W	30	30	2x30	2x30
Coils						
Number			1	1	2	2
Frontal surface		m²	4,20	4,20	5,55	5,55
Number of rows			2	2	2	2
Fans standard			<u>-</u>	<u>=</u>		<u>-</u>
Number			1	1	2	2
Air flow		m³/h	22500	22500	30000	30000
Rotation speed		r.p.m.	790	790	650	650
Power input (each fan)		W	1650	1650	930	930
Water connections		•••	1000	1000	750	700
Type			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
<u> </u>						
Inlet - diameter		Inch	2	2	2	2
Outlet - diameter		Inch	2	2	2	2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape.

* w: with, w/o: without. ** The data are calculated with variable flow.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glande for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV2	Shut off valves kit for model 45 - 75















U - 090/105/125 CV

Cooling capacity: 97,0 to 129,8 kW

Customizable design gives high flexibility. Wide range of communication protocols fulfill the requirements in hotels, offices, industry applications.



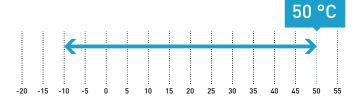
- · High seasonal efficiency
- · Ambient temperature operating range: -10 to +50 °C
- · Water outlet temperature range: -10 to +18 °C
- · Optional extra-low noise kit available
- · Optimised design for service and maintenance
- · Simple user friendly control as standard
- · Modbus RTU as standard

- · Optional finned coil treatment
- · Optional Modbus TCP/IP, BACnet IP and BACnet MSTP
- · Optional remote LAN connection

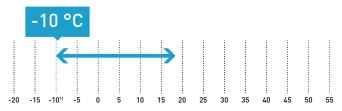
Technical focus

- · Chiller type: cooling only
- · Compressor type (number of compressors): Scroll
- compressors (2)
 Refrigerant type: R410A
- · Refrigerant circuit: 1
- · Fan type (number of fans): axial fan (2)
- · Heat exchanger: stainless steel plate heat exchanger
- · Flow switch, water safety & air purge valves included
- · Water filter included (mandatory to be installed on site)
- · Night mode setting to save energy and reduce noise level
- · Water compensation curve control
- · Optional hydraulic kit
- · Optional Desuperheater for free hot water up to 50 °C

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature (°C (DB)).
* With glycol 45 % maximum, 5 °C without glycol.

Available options

Options				
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump	Fixed speed 11	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
Double pump	Variable twin speed	Water isolation valves	Outdoor coil protection grid	Power supply w/o neutral
	Variable capacity		Rubber pads	Modbus TCP/IP
	Constant outlet pressure		Spring damper	BACnet MSTP
	Constant differential pressure		All seasons fan control	BACnet IP
		_	Extra-low noise kit	Remote LAN connection
			High pressure fan	Container transport
				Refrigerant gauge
				Desuperheater



REFER TO PAGE 448 TO SEE MORE OPTIONS FOR COOLING ONLY OUTDOOR UNITS







Optional Shut off valves kit for model 90 - 125. PAW-SYSSOV3

Model			90	105	125
Standard without buffer tank			U-090CVNB	U-105CVNB	U-125CVNB
With buffer tank			U-090CVBM	U-105CVBM	U-125CVBM
	Voltage	٧	400	400	400
Power supply	Phase		Three phase	Three phase	Three phase
	Frequency	Hz	50	50	50
Cooling capacity 1)		kW	90,7	104,0	123,0
Input power 1]		kW	30,6	34,9	40,6
Total EER 100 % 1)			2,96	2,98	3,03
SEER 2)			4,45	4,50	4,55
η _{s,c} 2)		%	175	177	179
Startup type			Direct	Direct	Direct
Maximum operating current		Α	77,9	86,0	102,0
Startup current w/o softstarter / w softstarter		Α	264,9/127,3	312,0/145,8	350,0/182,6
Sound power (w standard fans)		dB(A)	83,0	83,0	83,0
Sound pressure (w standard fans) 3)		dB(A)	50,8	50,8	50,8
Dimension (w standard fans) w/o buffer tank	HxWxD	mm	2286 x 2180 x 1160	2286 x 2180 x 1160	2286 x 2180 x 1160
Dimension (w standard fans) w buffer tank	HxWxD	mm	2286 x 2680 x 1160	2286 x 2680 x 1160	2286 x 2680 x 1160
Weight (w 1 pump) w/o buffer tank		kg	750	855	875
Weight (w 1 pump) w buffer tank		kg	910	1015	1035
Refrigerant (R410A)		kg	22,0	27,0	28,5
Number of refrigerant circuit			1	1	1
Compressors					
Number			2	2	2
Туре		-	Scroll	Scroll	Scroll
Part load step		%	0/45/55/100	0/38/62/100	0/33/67/100
Crankcase heater		W	66/82	66/95	66/95
Evaporator					
Number		-	1	1	1
Туре			Plate	Plate	Plate
Nominal water flow (cooling)		m³/h	15,73	18,25	20,95
Water pressure drop (cooling)		kPa	26	34	45
Water volume		l	10,80	10,80	10,80
Antifreeze heater		W	2x30	2×30	2×30
Coils					
Number			2	2	2
Frontal surface		m²	6,4	6,4	6,4
Number of rows			2	3	3
Fans standard					
Number			2	2	2
Air flow		m³/h	42000	42000	42000
Rotation speed		r.p.m.	790	790	790
Power input (each fan)		W	1650	1650	1650
Water connections				. 	
Туре			Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228	Male gas threaded BSPP ISO 228
Inlet - diameter		Inch	21/2	21/2	21/2
Outlet - diameter		Inch	21/2	21/2	21/2
			- 1/ -	- 1/ -	- 1/ -

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application childers. 3) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape.

* w: with, w/o: without. ** The data are calculated with variable flow.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glande for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSSOV3	Shut off valves kit for model 90 - 125















U - 140/150/170/190/210 CV

Cooling capacity: 134,0 to 208,8 kW

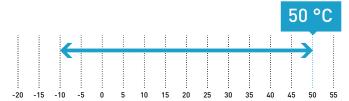
Powerful and efficient operation with 4 scroll compressors and superior flexibility with plug and play hydraulic options.



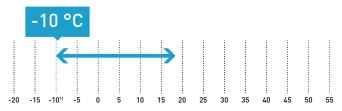
- · High seasonal efficiency
- · Ambient temperature operating range: -10 to +50 °C
- · Water outlet temperature range: -10 to +18 °C
- · Super quiet operation
- · Victaulic water connections
- · Optimised design for service and maintenance
- · Simple user friendly control as standard
- · Modbus RTU as standard
- · Modbus TCP/IP as standard
- **Technical focus**
- · Chiller type: cooling only
- · Compressor type (number of compressors): Scroll compressors (4)
- · Refrigerant type: R410A · Refrigerant circuit: 2
- · Fan type (number of fans): axial fan (4)
- · Heat exchanger: stainless steel plate heat exchanger
- · Flow switch, water safety & air purge valves included
- · Water filter included (mandatory to be installed on site)
- · Night mode setting to save energy and reduce noise level
- · Water compensation curve control
- · Optional hydraulic kit

- · Optional gauges hydraulic and refrigerant
- · Optional BACnet
- · Remote LAN connection as standard

Ambient temperature.



Water outlet temperature.



Cooling: Outside air temperature (°C (DB)).
* With glycol 45 % maximum, 5 °C without glycol.

· Optional finned coil treatment

Available options

Options				
Pump	Pump drive	Hydraulic options	Ambient options	Miscellaneous options
Single pump Low Pressure	Fixed speed 1)	Low water pressure sensor	Finned coil treatment - epoxy	Soft starter
Single pump High Pressure	Variable twin speed	Water isolation valves	Outdoor coil protection grid	Power supply w/o neutral
Double pump Low Pressure	Variable capacity	Hydraulic gauges	Rubber pads	Modbus TCP/IP
Double pump High Pressure	Constant outlet pressure		Spring damper	BACnet IP
	Constant differential pressure		All seasons fan control	Container transport
			High pressure fan 2)	Refrigerant gauge

¹⁾ Available for non-EU installation. 2) Available on special order only, please contact your local Panasonic sales representative



REFER TO PAGE 448 TO SEE MORE OPTIONS FOR COOLING ONLY OUTDOOR UNITS



Optional remote control.
PAW-SYSREMKIT

With buffer tank Voltage V 4.040 W 4.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 2.00 6.00 2.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 1.00	Model			140	150	170	190	210
Power supply Velocity Velocity 400 400 400 400 100 100 100 100 100 200 200 200 30 200 200 200 200 200 30 200	Standard without buffer tank			U-140CVNB	U-150CVNB	U-170CVNB	U-190CVNB	U-210CVNB
Power supply Pages The phase Three phase	With buffer tank			U-140CVBL	U-150CVBL	U-170CVBL	U-190CVBL	U-210CVBL
Pequancy Hz S0 S0 S0 S0 S0 S0 S0 S		Voltage	٧	400	400	400	400	400
Mart	Power supply	Phase		Three phase	Three phase	Three phase	Three phase	Three phase
Input power		Frequency	Hz	50	50	50	50	50
Start ER 100 % " 3,06 3,07 2,99 2,96 2,	Cooling capacity 1)		kW	132,0	146,0	164,0	181,0	208,0
SEER® 4,00 4,45 4,38 4,40 1,25 172 173 187 <th< td=""><td>Input power 1]</td><td></td><td>kW</td><td>43,1</td><td>47,6</td><td>54,8</td><td>61,1</td><td>69,8</td></th<>	Input power 1]		kW	43,1	47,6	54,8	61,1	69,8
N_2 173 178 179 <td>Total EER 100 % 1)</td> <td></td> <td></td> <td>3,06</td> <td>3,07</td> <td>2,99</td> <td>2,96</td> <td>2,98</td>	Total EER 100 % 1)			3,06	3,07	2,99	2,96	2,98
	SEER 2)			4,40	4,45	4,38	4,40	4,25
Maximum operating current A 108,0 119,0 136,0 153,0 150,0 Startup current w/o softstarter / wo softstarter / so testandar fans) dBIAI 88,4 85,4 87,0 88,1 88,1 Sound power live standard fans) dBIAI 88,4 85,4 87,0 88,1 88,1 Sound power live standard fans) dBIAI 88,4 53,4 57,0 56,1 56,1 Dimension live standard fans) w/o buffer tank HxWx mm 2295x2855x2210 2295x2855x2210 2295x2855x2210 2295x2855x2210 2295x3855x2210 2295x2855x2210 2295x2855x2210 2295x2855x2210 2295x2855x2210 2295x285x25x220	η _{s,c} ²⁾		%	173	175	172	173	167
Startup current \(\sigma \) softstarter \(Startup type			Direct	Direct	Direct	Direct	Direct
Sound power (w standard fans)	Maximum operating current		Α	108,0	119,0	136,0	153,0	170,0
Sound pressure w standard fans and w buffer tank HxWx mm 2979.x8856x210 2979.x8666x210 2979	Startup current w/o softstarter / w softstarter		Α	251/130	262/141	324/161	341/178	396/201
Dimension (w standard fans) w/o buffer tank HxWxD mm 2295x2856x2210 2295x2856x2210 2295x2866x2210 2295x2866x2210 2295x3666x2210 2295x3666x221	Sound power (w standard fans)		dB(A)	85,4	85,4	87,0	88,1	88,1
Dimension (w standard fans) w buffer tank M x w m	Sound pressure (w standard fans) 3)		dB(A)	53,4	53,4	55,0	56,1	56,1
Weight [w] low Pa pumply wb buffer tank kg 1510 1520 1610 1680 1920 Weight [w] low Pa pumply wb buffer tank kg 1640 1650 1740 1810 2070 Rerigerant REA10AI kg 2x247 2x247 2x247 2x333 2x333 2x333 Number of refrigerant circuit 2<	Dimension (w standard fans) w/o buffer tank	HxWxD	mm	2295 x 2856 x 2210	2295 x 2856 x 2210	2295 x 2856 x 2210	2295 x 2856 x 2210	2295 x 2856 x 2210
Weight In Jow Papumpl w buffer tank kg 1640 1650 1740 1810 200 Refrigerant (R410A) kg 2x24,7 2x24,7 2x4/73,3 2x33,3 2x33,3 Number of refrigerant circuit 2 <td< td=""><td>Dimension (w standard fans) w buffer tank</td><td>HxWxD</td><td>mm</td><td>2295 x 3666 x 2210</td><td>2295 x 3666 x 2210</td><td>2295 x 3666 x 2210</td><td>2295 x 3666 x 2210</td><td>2295 x 3666 x 2210</td></td<>	Dimension (w standard fans) w buffer tank	HxWxD	mm	2295 x 3666 x 2210	2295 x 3666 x 2210	2295 x 3666 x 2210	2295 x 3666 x 2210	2295 x 3666 x 2210
Refrigerant [R410A] kg 2x24,7 2x24,7 24,7/33,3 2x33,3 2x33,3 Number of refrigerant circuit 2 3	Weight (w 1 low Pa pump) w/o buffer tank		kg	1510	1520	1610	1680	1940
Refrigerant [R410A] kg 2x24,7 2x24,7 24,7/33,3 2x33,3 2x33,3 Number of refrigerant circuit 2	Weight (w 1 low Pa pump) w buffer tank		kg	1640	1650	1740	1810	2070
Number of refrigerant circuit 2 2 2 2 2 2 2 2 2	Refrigerant (R410A)			2 x 24,7	2 x 24,7	24,7/33,3	2 x 33,3	2 x 33,3
Number 4 4 4 4 4 4 4 4 4 4 4 5crott Scrott	Number of refrigerant circuit			2	2	2	2	2
Type Scroll Scroll <td>Compressors</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Compressors							
Part load step % 0/24/26/48/50 /52/74/76/100 0/23/27/46/50 /55/69/80/100 0/22/28/44/50 /52/78/100 0/19/31/38/88/10 Crankcase heater W 4 x 66 4 x 66 3 x 66/82 2 x 82/2 x 66 2 x 95/2 x x Evaporator V 4 x 66 4 x 66 3 x 66/82 2 x 82/2 x 66 2 x 95/2 x x Number 1 2 <td>Number</td> <td></td> <td>,</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td>	Number		,	4	4	4	4	4
Part load step % /52/74/76/100 /54/73/77/100 /55/69/80/100 /56/72/78/100 /62/69/81/75/20 Crankcase heater W 4 x 66 4 x 66 3 x 66/82 2 x 82/2 x 66 2 x 95/2 x 82/2 x 60 3 x 96/2 x 95/2 x 82/2 x 60 3 x 96/2 x 95/2 x 82/2 x 60 3 x 96/2 x 95/2 x 82/2 x 95/2 x	Туре			Scroll	Scroll	Scroll	Scroll	Scroll
Number 1	Part load step		%					0 / 19 / 31 / 38 / 50 / 62 / 69 / 81 / 100
Number 1 <td>Crankcase heater</td> <td></td> <td>W</td> <td>4 x 66</td> <td>4 x 66</td> <td>3 x 66/82</td> <td>2 x 82/2 x 66</td> <td>2 x 95/2 x 66</td>	Crankcase heater		W	4 x 66	4 x 66	3 x 66/82	2 x 82/2 x 66	2 x 95/2 x 66
Type Plate 33,62 Water pressure drop (cooling) kPa 33 39 24 32 40 Water volume l 8,49 8,49 12,21	Evaporator							
Nominal water flow (cooling) m³/h 21,56 23,65 25,95 30,24 33,62 Water pressure drop (cooling) kPa 33 39 24 32 40 Water volume L 8,49 8,49 12,21 12,21 12,21 Antifreeze heater W 60 60 120 120 120 Coils Number 4<	Number			1	1	1	1	1
Water pressure drop (cooling) kPa 33 39 24 32 40 Water volume I 8,49 8,49 12,21 12,21 12,21 Antifreeze heater W 60 60 120 120 120 Coits Number 4	Туре			Plate	Plate	Plate	Plate	Plate
Water pressure drop (cooling) kPa 33 39 24 32 40 Water volume I 8,49 8,49 12,21 12,21 12,21 Antifreeze heater W 60 60 120 120 120 Coils Number 4	Nominal water flow (cooling)		m³/h	21,56	23,65	25,95	30,24	33,62
Antifreeze heater W 60 60 120 120 120 Coits V 60 60 120 120 120 Number 4	Water pressure drop (cooling)		kPa				32	40
Coils Number 4 8 11,88	Water volume		l	8,49	8,49	12,21	12,21	12,21
Number 4 4 4 4 4 4 4 4 4 4 4 4 5 4 4 4 4 4 11,88 1	Antifreeze heater		W	60	60	120	120	120
Frontal surface m² 11,88	Coils							
Number of rows 2+2 2+2 2+3 3+3 3+3 Fans standard Number 4 9 900 900 900 900 900 900 900 900 900 1650 16	Number			4	4	4	4	4
Number of rows 2+2 2+2 2+3 3+3 3+3 Fans standard Number 4 9 900 900 900 900 900 900 900 900 900 900 165	Frontal surface		m²	11,88	11,88	11,88	11,88	11,88
Fans standard Number 4 9 900<	Number of rows						· · · · · · · · · · · · · · · · · · ·	3+3
Air flow m³/h 56000 56000 71000 86000 83000 Rotation speed r.p.m. 900 900 900 900 900 Power input (each fan) W 940 940 940-1650 1650 1650 Water connections Type Victaulic Victaulic Victaulic Victaulic Victaulic Victaulic Inlet - diameter Inch 21/2 21/2 21/2 21/2 21/2 21/2 21/2	Fans standard		-					
Air flow m³/h 56000 56000 71000 86000 83000 Rotation speed r.p.m. 900 900 900 900 900 Power input (each fan) W 940 940 940-1650 1650 1650 Water connections Type Victaulic Victaulic Victaulic Victaulic Victaulic Victaulic Inlet - diameter Inch 21/2 21/2 21/2 21/2 21/2 21/2 21/2	Number			4	4	4	4	4
Power input (each fan) W 940 940 940 - 1650 1650 1650	Air flow		m³/h	56000	56000	71000	86000	83000
Power input (each fan) W 940 940 940 - 1650 1650 1650 Water connections Type Victaulic Victaulic Victaulic Victaulic Victaulic Victaulic Victaulic 21/2 21/2 21/2 21/2 21/2 21/2 21/2 21/2	Rotation speed		r.p.m.	900	900	900	900	900
Water connections Victaulic								
TypeVictaulicVictaulicVictaulicVictaulicVictaulicVictaulicInlet - diameterInch21/221/221/221/221/2				· · · · · · · · · · · · · · · · · · ·	<u> </u>			
Inlet - diameter Inch 21/2 21/2 21/2 21/2 21/2 21/2				Victaulic	Victaulic	Victaulic	Victaulic	Victaulic
	71		Inch					
	Outlet - diameter		Inch	21/2	21/2	21/2	21/2	21/2

1) Data refers to 7 °C leaving chilled water temperature and 35 °C condenser air temperature, according EN14511 standard. 2) Following COMMISSION REGULATION (EU) No 2016/2281 for comfort application chillers. 3) Sound pressure levels calculated at 10 meters. Sound pressure levels refer to ISO standard 3744 with parallel piped shape.

* w: with, w/o: without. ** The data are calculated with variable flow.

Accessories	
PAW-SYSREMKIT	Remote control
PAW-CM000SP041	Cloudgate plug and play IP65 box mobile 4G Europe
PAW-CM000K0001	Extension kit and cable glande for mobile (2/4G) antenna (3 m)

Accessories	
PAW-00SRTS011	Tservice wireless fee for 1 year
PAW-SYSVICTH	Victaulic connection kit for model 140 - 210















Options for cooling only outdoor units

Optio	ns table 20 - 125														
Option	Туре	Ref.	Description						Мо	del					
1	Capacity			20	25	30	35	40	45	55	65	75	90	105	125
2	Refrigerant and compressor type	٧	R410A, fixed speed, cooling only	•	•	•	•	•	•	•	•	•	•	•	•
		NB	No buffer	Std											
3	Buffer tank option	BS	Buffer tank (small)	•	•	•	•	•							
		ВМ	Buffer tank (medium)						•	•	•	•	•	•	•
			No pump 1)	Std											
4	Pump option		Single pump	•	•	•	•	•	•	•	•	•	•	•	•
			Double pump						•	•	•	•	•	•	•
			Pump drive - fixed speed ²⁾												
			Pump drive - variable twin speed (single pump) 3)	•	•	•	•	•	•	•	•	•	•	•	•
			Pump drive - variable twin speed (double pump)						•	•	•	•	•	•	•
_			Pump drive - variable speed capacity (single pump)	•	•	•	•	•	•	•	•	•	•	•	•
5	Pump drive option		Pump drive - variable speed capacity (double pump)						•	•	•	•	•	•	•
			Pump drive - constant outlet pressure (single pump)	•	•	•	•	•	•	•	•	•	•	•	•
			Pump drive - constant outlet pressure (double pump)						•	•	•	•	•	•	•
			Pump drive - constant differential pressure (single pump) 4	S0											
			No hydraulic options	Std											
6	Hydraulic options		Low water pressure sensor 5)	•	•	•	•	•	•	•	•	•	•	•	•
			Water isolation valves	•	•	•	•	•	•	•	•	•	•	•	•
			No ambient options	Std											
			Finned coil treatment - epoxy	•	•	•	•	•	•	•	•	•	•	•	•
			Outdoor coil protection grid	•	•	•	•	•	•	•	•	•	•	•	•
7	A bitti		Rubber pads	•	•	•	•	•	•	•	•	•	•	•	•
7	Ambient options		Spring damper	•	•	•	•	•	•	•	•	•	•	•	•
			Fan speed control (FSC)	•	•	•	•	•	•	•	•	•	•	•	•
			Low noise	Std	Std	Std	Std	Std	•	•	•	•	•	•	•
			High pressure fan 6)	S0	•	•	•	•	•	•	•	•	•	•	•
			No miscellaneous options	Std											
			Soft starter	•	•	•	•	•	•	•	•	•	•	•	•
			Power supply w/o neutral 7]	S0											
			Standard BMS option (Modbus RTU)	Std											
			Modbus TCP/IP	•	•	•	•	•	•	•	•	•	•	•	•
8	Miscellaneous options		BACnet MSTP	•	•	•	•	•	•	•	•	•	•	•	•
			BACnet IP	•	•	•	•	•	•	•	•	•	•	•	•
			Remote LAN connection	•	•	•	•	•	•	•	•	•	•	•	•
			Container transport						•	•	•	•	•	•	•
			Refrigerant gauge						•	•	•	•	•	•	•
			Desuperheater 8		•	•	•	•	•	•	•	•		•	•

Std: Standard item included.
•: Optional item that can be selected.
SO: Special order item.

¹⁾ The system may be supplied without a pump, but in order to meet EU ErP compliance, the installation must include a variable speed pump.

2) Fixed speed pump drive on cooling only chiller, is only suitable for installation outside of the EU due to ErP compliance.

3) Variable twin speed drive is supplied as standard with models 20 - 40, when selecting single pump option. Please select alternate pump drive if required.

4) Constant differential pump drive options are only available on a special order and requires additional production time. Please contact your local sales representative.

5) Supplied loose for unit w/o pump.

6) High pressure fan is not available on model 20 due to body design.

7) Power supply without Neutral is only available on a special order basis, and requires additional production time. Please contact your local sales representative.

8) Inclusion of desuperheater will extend standard production time, please contact your local Panasonic sales representative for details.



Options table 140 - 210

Option	Туре	Ref.	Description			Model		
1	Capacity			140	150	170	190	21
2	Refrigerant and compressor type	٧	R410A, fixed speed, cooling only	•	•	•	•	•
0	D. (()) ()	NB	No buffer	Std	Std	Std	Std	Sto
3	Buffer tank option	BL	Buffer tank (large)	•	•	•	•	•
			No pump 1]	Std	Std	Std	Std	Sto
			Single pump low pressure	•	•	•	•	•
4	Pump option		Single pump high pressure	•	•	•	•	•
			Double pump low pressure	•	•	•	•	•
			Double pump high pressure	•	•	•	•	•
			Pump drive - fixed speed ^{2]}					
			Pump drive - variable twin speed (single pump)	•	•	•	•	•
			Pump drive - variable twin speed (double pump)	•	•	•	•	•
			Pump drive - variable speed capacity (single pump)	•	•	•	•	•
5	Pump drive option		Pump drive - variable speed capacity (double pump)	•	•	•	•	•
			Pump drive - constant outlet pressure (single pump)	•	•	•	•	•
			Pump drive - constant outlet pressure (double pump)	•	•	•	•	•
			Pump drive - constant differential pressure (single pump) 3)	S0	S0	S0	S0	SO
			Pump drive - constant differential pressure (double pump) 31	S0	S0	S0	S0	SO
			No hydraulic options	Std	Std	Std	Std	Sto
,			Low water pressure sensor 43	•	•	•	•	•
6	Hydraulic options		Water isolation valves	•	•	•	•	•
			Hydraulic gauges	•	•	•	•	•
			No ambient options	Std	Std	Std	Std	Sto
			Finned coil treatment - epoxy	•	•	•	•	•
			Outdoor coil protection grid	•	•	•	•	•
7	Ambient options		Rubber pads	•	•	•	•	•
			Spring damper	•	•	•	•	•
			Fan speed control (FSC)	•	•	•	•	•
			Low noise	Std	Std	Std	70 190 190 100 100 100 100 100 100	Sto
			No miscellaneous options	Std	Std	Std	Std	Sto
			Soft starter	•	•	•	•	•
			Power supply w/o neutral	•	•	•	•	•
			Standard BMS option (Modbus RTU)	Std	Std	Std	Std	Sto
8	Miscellaneous options		Modbus TCP/IP	•	•	•	•	•
			BACnet IP	•	•	•	•	•
			Remote LAN connection	Std	Std	Std	Std	Sto
			Container transport	•	•	•	•	•
			Refrigerant gauge	•		•		•

¹⁾ The system may be supplied without a pump, but in order to meet EU ErP compliance, the installation must include a variable speed pump.

2) Fixed speed pump drive on cooling only chiller, is only suitable for installation outside of the EU due to ErP compliance.

3) Constant differential pump drive options are only available on a special order and requires additional production time. Please contact your local sales representative.

4) Supplied loose for unit w/o pump.

Std: Standard item included.
•: Optional item that can be selected.
S0: Special order item.

Explore the new range of fan coils. Designed to fit with your environment and enhance comfort

Panasonic introduces the new range of fan coils.

The key to this range is to provide performance and comfort and the ability to fit seamlessly within your environment.



Fan coils highlighted features. Available in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location.



- Innovation for an optimum comfort

 Range of fan coil for heating and cooling with capacities from 0,5 to 21,9 kW in cooling and from 0,6 to 21,5 kW in heating. Bring full year comfort with water based systems.
- Energy efficient and low noise fan

 Dynamically balanced and specially designed fans, reinforced acoustic insulation and optimised fan speed staging for lower noise levels.

 Improved efficiency with optional EC fan motor.
- Quality and efficient coil
 Constructed from staggered copper tubes, mechanically expanded into aluminium fins, providing maximum heat transfer efficiency, durability and hygiene.
- Flexible installation

 Various types of unit to fit your needs with flexible installation options. A choice of service side for hydraulic connections, piping configuration and horizontal or vertical installation for ducted units.

Offering a great range of capacities and performance, available in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location. Whether the requirements are for cooling only, or for both heating and cooling, there is a fan coil to suit. With a variety of piping and fan configuration, the range is capable of meeting the most stringent of requirements. Line up available in AC and EC fans, it is possible to achieve both powerful performance, but with sustainability in mind.

Controllers with sophisticated designs, provide a user friendly interface while enabling an easy and low cost integration to building management systems.



PAW-FC-RC1 Optional wired remote controller for AC fan, 2-pipe and 4-pipe application.



PAW-FC-TC903Optional wired remote controller for AC fan 2-pipe application.

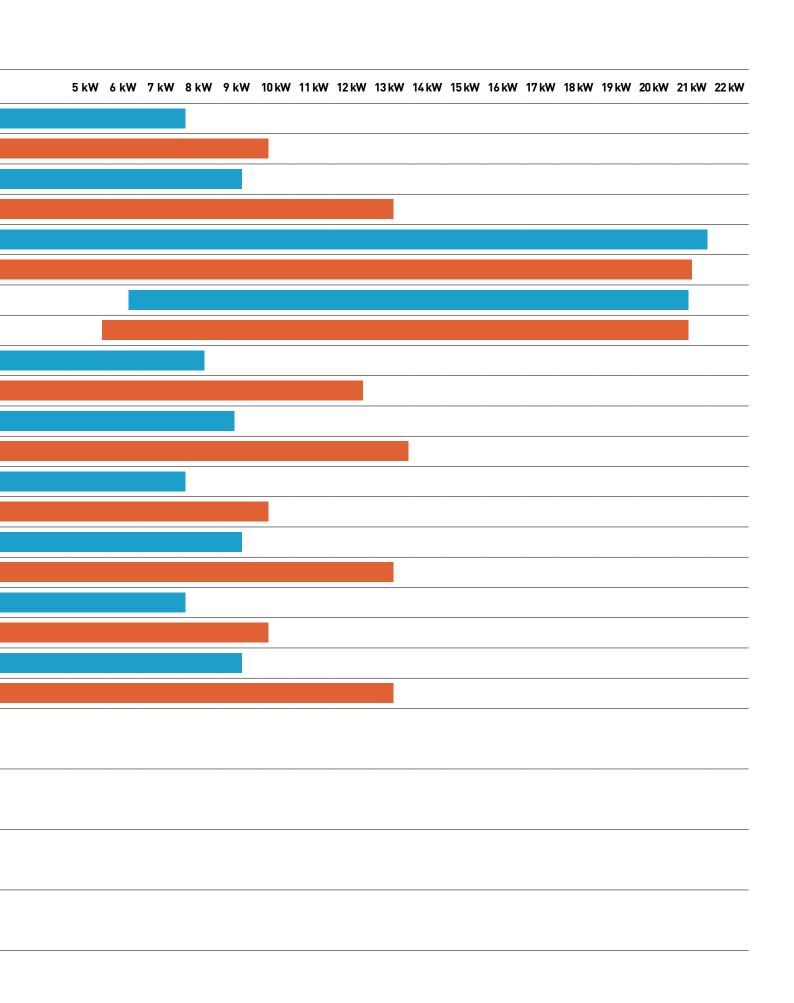


PAW-FC-907TC Optional wired remote controller for EC fan, 2-pipe and 4-pipe application.

Range of fan coils

Page		Fan Type	Operation	Capacity range	0 kW	1 kW	2 kW	3 kW	4 kW
	Ducted	– AC	Cooling	0,7 to 8,1 kW					
P. 454		AC	Heating	0,7 to 10,3 kW					
P. 454		F0	Cooling	0,5 to 9,6 kW					
		EC	Heating	0,6 to 13,6 kW					
	High static pressure ducted	4.0	Cooling	4,1 to 21,9 kW					
D /F/		- AC	Heating	4,7 to 21,5 kW					
P. 456			Cooling	6,6 to 21,4 kW					
		EC	Heating	5,9 to 21,4 kW					
	4 way cassette	4.0	Cooling	1.4 to 8,6 kW					
P. 458	5-11	– AC	Heating	1,1 to 12,8 kW					
P. 458	1	F.C.	Cooling	1,4 to 9,4 kW					
		EC	Heating	1,1 to 14,0 kW					
	Ceiling chassis	4.0	Cooling	0,7 to 8,1 kW					
P. 460		– AC ————	Heating	0,7 to 10,3 kW					
P. 40U		EC	Cooling	0,5 to 9,6 kW					
		EC	Heating	0,6 to 13,6 kW					
	Floor-standing chassis	– AC	Cooling	0,7 to 8,1 kW					
D //2			Heating	0,7 to 10,3 kW					
P. 462		EC	Cooling	0,5 to 9,6 kW					
		EC	Heating	0,6 to 13,6 kW					
	Wall-mounted	_	Cooling	1,0 to 3,9 kW					
P. 464		AC		1,0 to 3,7 kvv					
P. 404		AC	Heating	1,4 to 4,1 kW					
			пеанну	1,4 to 4,1 KVV					
	Smart fan coils	_	Cooling	0,2 to 1,7 kW					
P. 465		AC		0,2 to 1,7 KVV					
1.400		AU	Heating	0,2 to 1,7 kW					

Values indicated are for the full operating range. The data shown within the tables following are indicative of specific installation conditions. For full details relating to performance and operating conditions, please refer to the technical data manual.



Fan coils - ducted (AC)







Optional controller. Wired remote controller. PAW-FC-903TC



Optional controller. Advanced wired remote controller. PAW-FC-RC1

Colar cooling capacity	2-pipe - Left connection (PA)	W-)		FC2A-D010L	FC2A-D020L	FC2A-D030L	FC2A-D040L	FC2A-D050L	FC2A-D060L	FC2A-D070L	FC2A-D080L
Sensible cooling capacity Lo/Med/Hi	2-pipe - Right connection (PA	W-)		FC2A-D010R	FC2A-D020R	FC2A-D030R	FC2A-D040R	FC2A-D050R	FC2A-D060R	FC2A-D070R	FC2A-D080R
Maine flow Lo/Med/Hi Vh 14/172/50 12/13/289 17/213/289 17/214/1430 206/141/540 294/544/798 484/784/1003 587/1081/1252 798/1081/126 197/172/573 197/174/573	Total cooling capacity 1]	Lo/Med/Hi	kW	0,7/1,0/1,5	0,7/1,2/1,7	1,0/2,0/2,5	1,2/2,4/3,2	1,7/3,2/4,6	2,7/4,6/5,8	3,4/6,1/7,3	4,6/6,1/8,1
Mate pressure drop	Sensible cooling capacity 1)	Lo/Med/Hi	kW	0,5/0,8/1,1	0,6/0,9/1,3	0,8/1,5/1,9	0,9/1,8/2,3	1,2/2,2/3,3	1,9/3,3/4,5	2,4/4,3/5,1	3,4/4,6/6,3
Heating capacity Image Lo Med Hi MW 0,91,14/2,0 0,91,15/2,2 1,3/2,4/3,1 1,4/2,9/4,0 2,1/4,1/5,7 3,1/5,3/7,1 4,3/7,9/3, 5,9/8,1/11,	Water flow	Lo/Med/Hi	l/h	124/172/250	127/213/289	172/341/430	206/413/547	296/544/798	466/784/1003	587/1058/1252	798/1048/1400
PCA-D010 PCA-D020	Water pressure drop	Lo/Med/Hi	kPa	10,7/19,5/39,2	1,9/3,9/6,3	6,3/19,3/28,8	5,4/17,1/28,0	7,5/22,8/46,9	13,9/37,4/60,2	4,8/15,4/21,5	11,9/19,3/32,5
PCAB-D010R PCAB-D020R PCAB-D030R PCAB-D030R PCAB-D050R PCA	Heating capacity 2)	Lo/Med/Hi	kW	0,9/1,4/2,0	0,9/1,5/2,2	1,3/2,4/3,1	1,4/2,9/4,0	2,1/4,1/5,7	3,1/5,3/7,1	4,3/7,9/9,3	5,9/8,1/11,6
	4-pipe - Left connection (PA)	W-)		FC4A-D010L	FC4A-D020L	FC4A-D030L	FC4A-D040L	FC4A-D050L	FC4A-D060L	FC4A-D070L	FC4A-D080L
Sensible cooling capacity Lo/Med/Hi	4-pipe - Right connection (PA	W-)		FC4A-D010R	FC4A-D020R	FC4A-D030R	FC4A-D040R	FC4A-D050R	FC4A-D060R	FC4A-D070R	FC4A-D080R
Mater flow	Total cooling capacity 1]	Lo/Med/Hi	kW	0,7/0,9/1,3	0,6/1,1/1,6	1,0/1,9/2,4	1,1/2,3/3,0	1,7/3,0/4,3	2,6/4,4/5,6	3,3/5,9/6,9	4,5/5,9/8,0
Mater pressure drop	Sensible cooling capacity 1)	Lo/Med/Hi	kW	0,5/0,7/1,0	0,5/0,8/1,2	0,8/1,5/1,8	0,8/1,7/2,2	1,2/2,2/3,1	1,8/3,2/4,3	2,3/4,2/4,9	3,3/4,4/6,2
Heating capacity 3	Water flow	Lo/Med/Hi	l/h	114/159/225	109/192/268	165/327/414	194/388/517	284/522/748	449/756/967	575/1019/1193	775/1020/1380
Mater flow Lo / Med / Hi Uh 79/127/178 100/146/190 164/232/274 160/273/354 251/401/508 325/505/633 456/626/736 673/93/122 672/179/1378 33.1/63.777 650und tevels Sound tevels Lo / Med / Hi dB 3/40/49 31/43/50 30/45/52 30/44/51 34/46/56 38/51/58 43/56/61 50/55/64 30/66/39 30/65/62 30/44/51 34/46/56 38/51/58 43/56/61 50/55/64 30/66/39 30/45/52 30/44/51 34/46/56 38/51/58 43/56/61 50/55/64 30/66/39 30/45/52 30/44/51 34/46/56 38/51/58 43/56/61 50/55/64 30/66/39 34/47/52 41/46/55 56/60 36/6	Water pressure drop	Lo/Med/Hi	kPa	8,3/15,2/29,0	1,5/3,4/5,6	3,0/9,5/14,4	6,4/22,3/36,8	4,2/12,8/25,1	10,2/27,7/44,5	5,9/17,9/24,4	19,3/31,1/53,6
Name	Heating capacity 2)	Lo/Med/Hi	kW	0,5/0,7/1,0	0,6/0,9/1,1	1,0/1,4/1,6	0,9/1,6/2,1	1,5/2,3/3,0	1,9/2,9/3,7	2,7/3,6/4,3	3,9/5,6/7,1
Sound levels Sound power	Water flow	Lo/Med/Hi	l/h	79/127/178	100/146/190	164/232/274	160/273/354	251/401/508	325/505/633	456/626/736	673/963/1226
Cooling Cool	Water pressure drop	Lo/Med/Hi	kPa	1,9/3,5/5,6	1,5/3,2/5,3	5,1/9,0/11,9	9,2/26,5/42,7	10,7/24,6/29,5	20,3/43,9/52,9	67,2/117,9/137,8	33,1/63,7/75
Column C	Sound levels		-								
Number N	Global sound power	Lo/Med/Hi	dB(A)	33/40/49	31/43/50	30/45/52	30/44/51	34/46/56	38/51/58	43/56/61	50/55/64
Number	Global sound pressure 3)	Lo/Med/Hi	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52	41/46/55
Column C	Fan										
Air flow 4-pipe	Number			1	1	1	2	2	2	2	3
Pa 55 55 65 85 85 85 115 125 70	Air flow 2-pipe	Lo/Med/Hi	m³/h	111/190/283	105/179/265	138/274/390	173/357/499	253/486/716	350/640/933	480/893/1064	660/936/1397
Filter G2 G2 G2 G2 G2 G2 G2 G	Air flow 4-pipe	Lo/Med/Hi	m³/h	95/168/253	89/161/241	132/263/369	162/335/467	242/466/671	334/614/885	470/859/1012	634/905/1370
	Maximum external pressure		Pa	55	55	65	85	85	115	125	70
Power supply	Filter			G2	G2	G2	G2	G2	G2	G2	G2
Phase Single phas	Electrical data										
Frequency		Voltage	٧	230	230	230	230	230	230	230	230
Power consumption 2-pipe	Power supply	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Power consumption 4-pipe		Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Water connections Type Female gas threaded 20 20 20	Power consumption 2-pipe	Lo/Med/Hi	W	13/24/36	10/18/29	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147	90/112/188
Type Female gas threaded 20 3/4 1/2 1/2	Power consumption 4-pipe	Lo/Med/Hi	W	13/24/36	10/18/28	16/37/44	15/37/55	28/54/70	37/74/104	53/99/145	90/112/188
threaded thr	Water connections										
Cooling Inch 1/2 1/2 1/2 1/2 1/2 1/2 1/2 3/4 3/4	Туре				9		9	9	9		Female gas threaded
4-pipe Heating Inch 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	2-pipe		Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
Dimension HxWxD mm 220 x 570 x 220 x 570 x 220 x 730 x 220 x 730 x 220 x 938 x 220 x 1122 x 220 x 1307 x 220 x 1121 x 220 x 1316 x 230 x 2	, .	Cooling	Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
Dimension HxWxD mm 220 x 570 x 220 x 570 x 220 x 730 x 220 x 938 x 220 x 1122 x 220 x 1307 x 220 x 1121 x 220 x 1316 320 320 320 320 320 320 320 320 320 320	4-pipe	Heating	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Dimension HxWxD mm 430 430 430 430 430 430 530 530	Dimension and weight										
Neight 2/4-pipes kg 13/14 13/14 15/16 20/22 22/24 26/28 27/29 38/40	Dimension	HxWxD	mm								220 x 1316 x 530
	Weight	2 / 4-pipes	kg	13/14	13/14	15/16	20/22	22/24	26/28	27/29	38/40

¹⁾ According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds.
Values indicated are for 0 Pa external static pressure, for additional pressure characteristics, please refer the selection software.

Technical focus

- \cdot Cooling capacity from 0,7 to 8,1 kW
- · Heating capacity from 0,7 to 10,3 kW
- · 5-speed AC fan motor(s)

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C

- · 2 and 4-pipe configurations
- · Left or right hand arrangements
- · Ease of installation
- · Very low acoustic levels
- \cdot 2 way or 3 way ON / OFF valves
- · Auxiliary drain pan
- · Air intake with removable grid
- · G2 filter



Fan coils - ducted (EC)









Optional controller. Wired remote controller for EC fans. PAW-FC-907TC

2-pipe - Left connection (PAV	N-)		FC2E-D010L	FC2E-D020L	FC2E-D030L	FC2E-D040L	FC2E-D050L	FC2E-D060L	FC2E-D070L	FC2E-D080L	FC2E-F040L
2-pipe - Right connection (PA	W-)		FC2E-D010R	FC2E-D020R	FC2E-D030R	FC2E-D040R	FC2E-D050R	FC2E-D060R	FC2E-D070R	FC2E-D080R	FC2E-F040R
Total cooling capacity 1)	Lo/Med/Hi	kW	0,6/1,2/2,1	0,6/1,4/2,4	0,9/2,1/3,1	1,3/2,9/4,2	1,3/4,0/5,0	2,0/4,5/5,2	2,7/5,9/6,9	5,1/6,5/8,8	3,6/6,6/9,2
Sensible cooling capacity 1)	Lo/Med/Hi	kW	0,5/1,1/1,9	0,5/1,1/1,9	0,6/1,6/2,4	1,0/2,1/3,0	1,1/3,0/3,7	1,4/3,5/4,0	2,0/4,3/5,2	3,7/4,8/6,6	2,9/6,1/9,1
Water flow	Lo/Med/Hi	l/h	107/210/356	110/237/406	148/354/532	230/506/722	231/685/743	341/767/800	463/1008/1098	879/1111/1254	627/1142/1575
Water pressure drop	Lo/Med/Hi	kPa	8,2/28,2/76,9	1,5/4,6/11,0	5,0/20,5/42,1	6,4/24,4/46,3	4,9/35,1/41,0	7,8/35,8/38,8	3,0/14,0/16,6	14,1/21,4/26,6	10,6/51,2/93,8
Heating capacity 2)	Lo/Med/Hi	kW	0,8/1,6/2,9	0,9/1,9/3,3	1,0/2,2/3,4	1,4/3,0/5,3	1,7/5,2/5,5	2,3/5,9/6,1	3,8/7,3/8,2	6,2/8,0/9,3	4,4/8,3/11,8
4-pipe - Left connection (PAV	N-)		FC4E-D010L	FC4E-D020L	FC4E-D030L	FC4E-D040L	FC4E-D050L	FC4E-D060L	FC4E-D070L	FC4E-D080L	FC4E-F040L
4-pipe - Right connection (PA	W-)		FC4E-D010R	FC4E-D020R	FC4E-D030R	FC4E-D040R	FC4E-D050R	FC4E-D060R	FC4E-D070R	FC4E-D080R	FC4E-F040R
Total cooling capacity 1)	Lo/Med/Hi	kW	0,5/1,1/1,9	0,6/1,2/2,2	0,8/1,9/2,9	1,2/2,7/4,0	1,2/3,6/4,6	1,8/4,1/4,9	2,6/5,1/6,4	5,0/6,2/9,6	3,3/6,4/8,8
Sensible cooling capacity 1)	Lo/Med/Hi	kW	0,4/0,9/1,7	0,4/1,0/1,8	0,6/1,5/2,2	0,9/1,9/2,8	1,0/2,8/3,5	1,2/3,2/3,8	1,9/3,8/4,8	3,6/4,6/7,2	2,7/5,6/8,0
Water flow	Lo/Med/Hi	l/h	92/185/327	97/206/375	129/321/493	205/457/681	212/625/686	306/707/749	443/886/977	855/1070/1242	567/1093/1511
Water pressure drop	Lo/Med/Hi	kPa	5,8/20,1/59,2	1,3/3,7/9,7	4,0/9,2/19,7	6,3/29,6/60,1	2,5/17,9/21,3	5,1/24,3/27,2	3,5/13,6/16,5	22,9/33,9/44,3	10,0/47,2/86,7
Heating capacity 2)	Lo/Med/Hi	kW	0,4/0,8/1,4	0,6/0,9/1,5	1,0/1,4/1,8	1,2/2,0/2,8	1,6/2,4/2,5	1,4/2,9/3,1	2,5/3,4/3,6	4,5/5,9/6,9	2,5/4,5/6,2
Water flow	Lo/Med/Hi	l/h	76/140/235	95/161/255	166/243/304	204/350/483	267/416/438	233/503/531	434/583/614	767/1011/1194	432/783/1065
Water pressure drop	Lo/Med/Hi	kPa	1,8/4,0/8,4	1,4/3,8/9,4	5,3/9,7/14,1	15,6/41,8/76,3	11,9/26,3/28,9	11,5/43,6/48,1	61,5/103,8/113,9	42,1/69,7/95,1	30,6/107,6/214,8
Sound levels											
Global sound power	Lo/Med/Hi	dB(A)	34/47/60	34/47/60	31/50/59	29/44/52	30/51/57	32/54/58	40/54/59	51/56/64	42/58/68 ^{3]}
Global sound pressure 41	Lo/Med/Hi	dB(A)	25/38/51	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55	23/39/52
Fan					•						
Number			1	1	1	2	2	2	2	3	1
Air flow 2-pipe	Lo/Med/Hi	m³/h	108/228/417	98/234/413	145/380/585	170/412/678	203/645/816	245/737/912	350/850/1050	685/927/1398	592/1284/1935
Air flow 4-pipe	Lo/Med/Hi	m³/h	91/199/379	84/200/380	123/342/540	148/369/627	185/587/646	205/668/716	329/798/894	660/884/1079	523/1222/1864
Maximum external pressure		Pa	75	75	75	105	70	105	115	115	190
Filter			G2	G2	G2	G2	G2	G2	G2	G2	G2
Electrical data											
	Voltage	V	230	230	230	230	230	230	230	230	230
Power supply	Voltage Phase	V	230 Single phase	230 Single phase	230 Single phase	230 Single phase	230 Single phase	230 Single phase	230 Single phase	230 Single phase	
Power supply		V Hz									
Power supply Power consumption 2-pipe	Phase	•	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Phase Frequency	Hz	Single phase 50/60	Single phase 50/60	Single phase 50/60	Single phase 50/60	Single phase 50/60	Single phase 50/60	Single phase 50/60	Single phase 50/60	Single phase 50/60
Power consumption 2-pipe	Phase Frequency Lo/Med/Hi	Hz W	Single phase 50/60 5/11/41	Single phase 50/60 5/13/41	Single phase 50/60 4/16/42	Single phase 50/60 2/13/43	Single phase 50/60 4/24/46	Single phase 50/60 2/30/54	Single phase 50/60 11/44/77	Single phase 50/60 23/42/108	Single phase 50/60 11/62/197
Power consumption 2-pipe Power consumption 4-pipe	Phase Frequency Lo/Med/Hi	Hz W	Single phase 50/60 5/11/41	Single phase 50/60 5/13/41	Single phase 50/60 4/16/42	Single phase 50/60 2/13/43	Single phase 50/60 4/24/46	Single phase 50/60 2/30/54	Single phase 50/60 11/44/77	Single phase 50/60 23/42/108	Single phase 50/60 11/62/197
Power consumption 2-pipe Power consumption 4-pipe Water connections	Phase Frequency Lo/Med/Hi	Hz W	50/60 5/11/41 5/11/39 Female gas	50/60 5/13/41 5/13/40 Female gas	50/60 4/16/42 6/15/40 Female gas	Single phase 50/60 2/13/43 2/12/42 Female gas	Single phase 50/60 4/24/46 2/23/44 Female gas	Single phase 50/60 2/30/54 2/28/52 Female gas	50/60 11/44/77 11/43/75 Female gas	Single phase 50/60 23/42/108 22/41/116 Female gas	50/60 11/62/197 11/60/188 Female gas
Power consumption 2-pipe Power consumption 4-pipe Water connections Type 2-pipe	Phase Frequency Lo/Med/Hi	Hz W W	Single phase 50/60 5/11/41 5/11/39 Female gas threaded	Single phase 50/60 5/13/41 5/13/40 Female gas threaded	Single phase 50/60 4/16/42 6/15/40 Female gas threaded	Single phase 50/60 2/13/43 2/12/42 Female gas threaded	Single phase 50/60 4/24/46 2/23/44 Female gas threaded	Single phase 50/60 2/30/54 2/28/52 Female gas threaded	Single phase 50/60 11/44/77 11/43/75 Female gas threaded	50/60 23/42/108 22/41/116 Female gas threaded	50/60 11/62/197 11/60/188 Female gas threaded
Power consumption 2-pipe Power consumption 4-pipe Water connections Type	Phase Frequency Lo/Med/Hi Lo/Med/Hi	Hz W W	Single phase 50/60 5/11/41 5/11/39 Female gas threaded 1/2	50/60 5/13/41 5/13/40 Female gas threaded	Single phase 50/60 4/16/42 6/15/40 Female gas threaded 1/2	Single phase 50/60 2/13/43 2/12/42 Female gas threaded 1/2	Single phase 50/60 4/24/46 2/23/44 Female gas threaded 1/2	Single phase 50/60 2/30/54 2/28/52 Female gas threaded 1/2	50/60 11/44/77 11/43/75 Female gas threaded	50/60 23/42/108 22/41/116 Female gas threaded 3/4	50/60 11/62/197 11/60/188 Female gas threaded 3/4
Power consumption 2-pipe Power consumption 4-pipe Water connections Type 2-pipe	Phase Frequency Lo/Med/Hi Lo/Med/Hi	Hz W W	Single phase 50/60 5/11/41 5/11/39 Female gas threaded 1/2 1/2	Single phase 50/60 5/13/41 5/13/40 Female gas threaded 1/2 1/2	Single phase 50/60 4/16/42 6/15/40 Female gas threaded 1/2 1/2	Single phase 50/60 2/13/43 2/12/42 Female gas threaded 1/2 1/2	Single phase 50/60 4/24/46 2/23/44 Female gas threaded 1/2 1/2	Single phase 50/60 2/30/54 2/28/52 Female gas threaded 1/2 1/2	Single phase 50/60 11/44/77 11/43/75 Female gas threaded 3/4 3/4	Single phase 50/60 23/42/108 22/41/116 Female gas threaded 3/4 3/4	Single phase 50/60 11/62/197 11/60/188 Female gas threaded 3/4 3/4
Power consumption 2-pipe Power consumption 4-pipe Water connections Type 2-pipe 4-pipe	Phase Frequency Lo/Med/Hi Lo/Med/Hi	Hz W W	Single phase 50/60 5/11/41 5/11/39 Female gas threaded 1/2 1/2	Single phase 50/60 5/13/41 5/13/40 Female gas threaded 1/2 1/2	Single phase 50/60 4/16/42 6/15/40 Female gas threaded 1/2 1/2	Single phase 50/60 2/13/43 2/12/42 Female gas threaded 1/2 1/2	Single phase 50/60 4/24/46 2/23/44 Female gas threaded 1/2 1/2 1/2	Single phase 50/60 2/30/54 2/28/52 2/28/52 Female gas threaded 1/2 1/2 1/2	Single phase 50/60 11/44/77 11/43/75 11/43/75 Female gas threaded 3/4 3/4 1/2	Single phase 50/60 23/42/108 22/41/116 Female gas threaded 3/4 3/4	Single phase 50/60 11/62/197 11/60/188 Female gas threaded 3/4 3/4 1/2

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound power levels indicated are from return and radiated measurements. 4) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds. Values indicated are for 0 Pa external static pressure, for additional pressure characteristics, please refer the selection software.

Technical focus

- · Cooling capacity from 0,5 to 9,6 kW
- · Heating capacity from 0,6 to 13,6 kW
- Low energy consumption EC fan(s)

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C

- · 2 and 4-pipe configurations
- $\cdot \ Left \ or \ right \ hand \ arrangements$
- \cdot Can be installed both horizontally and vertically*
- \cdot Ease of installation
- $\cdot \ \text{Very low acoustic levels} \\$
- \cdot 2 way or 3 way ON / OFF valves
- · Auxiliary drain pan
- · Air intake with removable grid
- · G2 filter
- $ilde{ t}$ PAW-FC2E-F040 and PAW-FC4E-F040 may only be installed horizontally.





Fan coils - High static pressure ducted (AC)





Optional controller. Wired remote controller. PAW-FC-903TC



Optional controller. Advanced wired remote controller. PAW-FC-RC1

2-pipe - Left connection			PAW-FC2A-E070L	PAW-FC2A-E150L	PAW-FC2A-E180L	PAW-FC2A-E210L	PAW-FC2A-E240L*	PAW-FC2A-E270L*
2-pipe - Right connection			PAW-FC2A-E070R	PAW-FC2A-E150R	PAW-FC2A-E180R	PAW-FC2A-E210R	PAW-FC2A-E240R*	PAW-FC2A-E270R*
Total cooling capacity 1]	Lo/Med/Hi	kW	4,4/5,5/6,4	5,6/11,5/14,2	4,9/11,5/15,0	5,2/13,7/18,6	14,3/19,8/23,3	15,8/23,0/27,5
Sensible cooling capacity 1)	Lo/Med/Hi	kW	3,12/5,1	3,9/9,2/12,2	3,7/9,5/13,1	3,5/9,9/13,7	10,3/14,9/17,8	11,0/16,3/19,7
Water flow	Lo/Med/Hi	l/h	749/951/1095	966/1979/2437	837/1979/2589	899/2357/3201	2468/3410/4015	2718/3951/4740
Water pressure drop	Lo/Med/Hi	kPa	26,5/42,5/56,2	5,5/19,9/29,3	4,4/19,6/32,0	4,9/28,8/51,5	13,8/25,2/34,2	12,8/25,2/35,3
Heating capacity 2]	Lo/Med/Hi	kW	5,4/8,6/12,7	6,2/14,2/20,0	6,3/16,3/23,2	6,1/16,5/23,4	17,2/26,3/32,6	17,9/27,5/33,7
4-pipe - Left connection			PAW-FC4A-E070L	PAW-FC4A-E150L	PAW-FC4A-E180L	PAW-FC4A-E210L	PAW-FC4A-E240L*	PAW-FC4A-E270L*
4-pipe - Right connection			PAW-FC4A-E070R	PAW-FC4A-E150R	PAW-FC4A-E180R	PAW-FC4A-E210R	PAW-FC4A-E240R*	PAW-FC4A-E270R*
Total cooling capacity 1]	Lo/Med/Hi	kW	4,0/5,4/6,0	5,3/10,1/11,9	5,5/11,2/13,6	5,9/14,4/18,8	13,3/17,7/20,5	14,3/19,9/23,4
Sensible cooling capacity 1]	Lo/Med/Hi	kW	2,8/4,1/4,7	3,7/8,4/10,9	3,9/9,1/12,0	4,0/10,6/14,5	9,9/13,9/16,3	10,3/14,9/17,8
Water flow	Lo/Med/Hi	l/h	680/924/1035	919/1739/2044	951/1928/2335	1013/2478/3241	2291/3053/3526	2464/3427/4032
Water pressure drop	Lo/Med/Hi	kPa	29,7/52,1/64,4	4,1/13,5/18,4	4,7/17,4/25,0	6,6/35,2/59,1	14,5/25,0/33,0	12,8/23,3/31,5
Heating capacity 2]	Lo/Med/Hi	kW	3,7/6,0/7,4	5,3/11,8/15,9	5,3/11,9/15,9	5,3/11,9/16,0	7,2/11,1/13,5	7,2/11,1/13,5
Water flow	Lo/Med/Hi	l/h	636/1029/1266	906/2038/2746	911/2045/2745	916/2051/2747	1242/1910/2329	1242/1910/2329
Water pressure drop	Lo/Med/Hi	kPa	14,2/30,7/43,6	39,0/167,6/293,0	23,9/100,8/174,3	24,2/101,4/174,6	45,8/87,8/120,3	28,3/53,3/72,5
Sound levels								
Sound power return + radiated	Lo/Med/Hi	dB(A)	54/60/63	52/66/72	54/66/74	52/66/72	65/73/75	65/73/75
Sound power discharge	Lo/Med/Hi	dB(A)	53/59/62	52/64/71	52/64/71	52/64/71	64/72/75	64/72/75
Sound pressure 3]	Lo/Med/Hi	dB(A)	33/39/42	31/45/51	31/45/51	31/45/51	44/52/54	44/52/54
Fan								
Number			1	1	1	11	1	1
Air flow 2-pipe	Lo/Med/Hi	m³/h	680/1091/1562	676/2110/3197	676/2110/3197	676/2110/3197	1927/3130/3923	1927/3130/3923
Air flow 4-pipe	Lo/Med/Hi	m³/h	552/1132/1496	676/2110/3197	676/2110/3197	676/2110/3197	1927/3130/3923	1927/3130/3923
Maximum external pressure		Pa	110	200	200	200	220	220
Filter			G3	G3	G3	G3	G3	G3
Electrical data	,			,	,	,		,
	Voltage	V	230	230	230	230	230	230
Power supply	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption	Lo/Med/Hi	W	132/182/222	180/421/675	180/421/675	180/421/675	420/530/673	420/530/673
Water connections								
Туре				Gas Male threaded	Gas Male threaded			
2-pipe		Inch	1/2	1	1 1/4	1 1/4	1 1/4	1 1/4
4-pipe	Cooling	Inch	1/2	1	1	1	1 1/4	1 1/4
	Heating	Inch	1/2	3/4	3/4	3/4	3/4	3/4
Dimension and weight								
Dimension	HxWxD	mm	250 x 698 x 1200	375 x 798 x 1380	375 x 798 x 1380	375 x 798 x 1380	450 x 798 x 1500	450 x 798 x 1500
Weight		kg	42	63	65	67	76	80

¹⁾ According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3] Informative data: Considering an hypothetical sound attenuation of the room and installation of 21 dB

Technical focus

- · 6 sizes
- · Cooling capacity from 4,1 to 21,9 kW
- · Heating capacity from 4,7 to 21,5 kW
- · 5-speed AC fan motor

- · 2 and 4-pipe, left and right hand configurations
- · Static pressure up to 220Pa
- · Double skin insulation
- \cdot 2 way or 3 way ON / OFF valves
- · Auxiliary drain pan
- · Air intake with removable grid
- · G3 filter

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C



and installation of 21 dB.

Values indicated are for 50 Pa external static pressure, for additional pressure characteristics, please refer the selection software.

* High fan speed used for capacity, water flow, sound and air flow values.

Fan coils - High static pressure ducted (EC)





Optional controller. Wired remote controller for EC fans. PAW-FC-907TC

2-pipe - Left connection			PAW-FC2E-E150L	PAW-FC2E-E180L	PAW-FC2E-E210L	PAW-FC2E-E240L	PAW-FC2E-E270L
2-pipe - Right connection			PAW-FC2E-E150R	PAW-FC2E-E180R	PAW-FC2E-E210R	PAW-FC2E-E240R	PAW-FC2E-E270R
Total cooling capacity 1)	Lo/Med/Hi	kW	7,0/11,3/14,5	7,8/13,1/17,3	8,6/14,2/19,0	9,3/16,1/20,3	10,2/18,1/23,1
Sensible cooling capacity 1)	Lo/Med/Hi	kW	5,2/9,1/12,1	5,7/10,3/14,1	6,1/10,9/15,0	6,7/12,4/16,2	7,2/13,6/17,8
Water flow	Lo/Med/Hi	l/h	1207/1945/2498	1351/2259/2979	1476/2451/3275	1592/2766/3498	1751/3120/3972
Water pressure drop	Lo/Med/Hi	kPa	11,5/19,3/30,7	6,1/24,9/41,5	6,0/31,0/53,8	6,3/17,1/26,4	5,9/16,4/25,4
Heating capacity 2)	Lo/Med/Hi	kW	88/15,8/20,7	9,5/17,9/24,3	10,0/19,4/26,8	11,1/20,8/27,5	11,7/22,8/30,4
4-pipe - Left connection			PAW-FC4E-E150L	PAW-FC4E-E180L	PAW-FC4E-E210L	PAW-FC4E-E240L	PAW-FC4E-E270L
4-pipe - Right connection			PAW-FC4E-E150R	PAW-FC4E-E180R	PAW-FC4E-E210R	PAW-FC4E-E240R	PAW-FC4E-E270R
Total cooling capacity 1)	Lo/Med/Hi	kW	5,9/9,1/11,6	6,6/10,2/13,0	7,9/12,6/16,4	8,4/14,0/17,5	8,9/15,3/19,5
Sensible cooling capacity 1]	Lo/Med/Hi	kW	4,5/7,6/10,1	4,9/8,4/11,2	5,8/9,9/13,4	6,2/11,0/14,2	6,5/11,8/15,5
Water flow	Lo/Med/Hi	l/h	1011/1567/2005	1141/1764/2243	1361/2175/2826	1447/2409/3020	1529/2641/3359
Water pressure drop	Lo/Med/Hi	kPa	4,9/11,1/17,7	6,5/14,7/23,2	7,6/27,5/45,4	6,2/15,9/24,5	5,5/14,5/22,4
Heating capacity ^{2]}	Lo/Med/Hi	kW	3,6/5,8/7,3	6,1/10,0/12,8	6,1/10,1/12,9	4,8/8,3/10,3	4,7/8,2/10,5
Water flow	Lo/Med/Hi	l/h	621/991/1264	1052/1729/2211	1057/1734/2227	832/1421/1780	804/1407/1804
Water pressure drop	Lo/Med/Hi	kPa	20,7/45,6/70,1	30,7/74,1/116,4	30,8/74,5/118,0	19,6/55,9/78,7	7,2/33,9/48,9
Sound levels							
Sound power return + radiated	Lo/Med/Hi	dB(A)	56/67/74	56/67/74	56/67/74	58/69/76	58/69/76
Sound power discharge	Lo/Med/Hi	dB(A)	56/65/74	56/65/74	56/65/74	58/67/76	58/67/76
Sound pressure 3)	Lo/Med/Hi	dB(A)	35/46/52	35/46/52	35/46/52	37/48/54	37/48/54
Fan							
Number			1	1	1	1	1
Air flow 2-pipe	Lo/Med/Hi	m³/h	1071/2418/3583	1071/2418/3583	1071/2418/3583	1227/2700/3829	1227/2700/3829
Air flow 4-pipe	Lo/Med/Hi	m³/h	1071/2418/3583	1071/2418/3583	1071/2418/3583	1227/2700/3829	1227/2700/3829
Maximum external pressure		Pa	300	300	300	300	300
Filter			G3	G3	G3	G3	G3
Electrical data							
	Voltage	٧	230	230	230	230	230
Power supply	Phase		Single phase				
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Power consumption	Lo/Med/Hi	W	67/172/246	67/172/246	67/172/246	64/237/364	64/237/364
Water connections							
Туре			Gas Male threaded				
2-pipe		Inch	1	1 1/4	1 1/4	1 1/4	1 1/4
/ nine	Cooling	Inch	1	1	1	1 1/4	1 1/4
4-pipe	Heating	Inch	3/4	3/4	3/4	3/4	3/4
Dimension and weight							
Dimension	HxWxD	mm	375 x 798 x 1380	375 x 798 x 1380	375 x 798 x 1380	450 x 798 x 1500	450 x 798 x 1500
Weight		kg	63	65	67	76	80

¹⁾ According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) Informative data: Considering an hypothetical sound attenuation of the room and installation of 21 dB

Technical focus

- · 5 sizes
- · Cooling capacity from 6,6 to 19,9 kW
- · Heating capacity from 5,9 to 21,4 kW
- · Low energy consumption EC fan

- · 2 and 4-pipe, left and right hand configurations
- · Static pressure up to 300Pa
- · Double skin insulation
- \cdot 2 way or 3 way ON / OFF valves
- $\cdot \ \text{Auxiliary drain pan}$
- · Air intake with removable grid
- · G3 filter

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C





Values indicated are for 50 Pa external static pressure, for additional pressure characteristics, please refer the selection software.



Fan coils - 4 way cassette (AC)



Optional controller. Wired remote controller. PAW-FC-903TC



Optional controller. Advanced wired remote controller. PAW-FC-RC1

2-pipe			PAW-FC2A-U020-2	PAW-FC2A-U030-2	PAW-FC2A-U040-2	PAW-FC2A-U050-2	PAW-FC2A-U060-2	PAW-FC2A-U070-2
Total cooling capacity 1)	Lo/Med/Hi	kW	1,5/1,8/2,4	1,9/2,7/4,0	2.8/3.5/4.7	3.4/4.4/6.1	3.7/5.4/7.2	4.0/6.5/8.6
Sensible cooling capacity 1)	Lo/Med/Hi	kW	1,3/1,5/2,0	1,4/2,2/3,0	2,1/2,6/3,6	2,6/3,4/4,8	2,7/4,0/5,4	3,0/4,8/6,4
Water flow	Lo/Med/Hi	l/h	265/303/404	323/493/683	478/597/801	576/762/142	636/937/1233	695/1111/1476
Water pressure drop	Lo/Med/Hi	kPa	4,3/6,8/10,9	3,6/8,5/14,4	6,9/11,2/18,3	8.4/13.0/21.9	3,4/7,5/11,5	5,6/13,0/20,5
Heating capacity 2)	Lo/Med/Hi	kW	2,2/2,5/3,2	2,3/3,7/4,5	3,7/4,6/6,2	4,5/6,0/8,1	4,5/7,4/10,0	5,2/9,2/12,0
4-pipe	Lo, Med, M	1000	PAW-FC4A-U020-2			-,070,070,1		PAW-FC4A-U070-2
Total cooling capacity 1)	Lo/Med/Hi	kW	1,4/1,5/2,0	2,0/2,7/3,4	2,5/3,3/4,0	_	3,0/4,9/6,6	3,2/6,0/7,5
Sensible cooling capacity 1)	Lo/Med/Hi	kW	1,2/1,4/1,8	1,5/2,1/2,6	2,0/2,6/3,2	_	2,3/3,8/5,1	2,5/4,6/5,9
Water flow	Lo/Med/Hi	l/h	232/258/359	342/465/576	437/563/683	_	511/851/1137	543/1030/1294
Water pressure drop	Lo/Med/Hi	kPa	6,6/8,9/13,6	4,4/8,3/11,6	6,7/11,2/15,3	_	6,0/13,9/22,2	7,1/18,9/27,5
Heating capacity 2)	Lo/Med/Hi	kW	0,8/0,9/1,2	2,2/3,1/3,8	3,0/3,5/4,1		3,7/5,5/7,0	4,5/7,1/8,9
Water flow	Lo/Med/Hi	l/h	132/153/201	374/530/658	521/603/699		636/939/1210	776/1214/1540
Water pressure drop	Lo/Med/Hi	kPa	25,7/33,4/53,6	13,7/24,2/35	24,2/30,9/39,8		7,6/13,8/20,7	10,2/20,8/30,9
Sound levels	Lo, med, m	I G	20,7700,4700,0	10,77 24,27 00	24,2700,7707,0		7,07 10,07 20,7	10,2720,0700,7
Global sound power 2-pipe	Lo/Med/Hi	dB(A)	36/40/49	35/47/53	42/48/57	35/40/49	38/46/54	40/52/59
Global sound power 4-pipe	Lo/Med/Hi	dB(A)	36/40/49	35/47/53	42/48/57	-	38/46/54	40/52/59
Global sound pressure 2-pipe 3	Lo/Med/Hi	dB(A)	27/31/40	26/35/44	33/39/48	26/31/40	29/37/45	31/43/50
Global sound pressure 4-pipe 3	Lo/Med/Hi	dB(A)	27/31/40	26/35/44	33/39/48	_	29/37/45	31/43/50
Fan	20,1100,111	45(7.1)	2,701,40	20,00,44	33, 37, 13		27,07,40	017 107 00
Number			1	1	1	1	1	1
Air flow	Lo/Med/Hi	m³/h	360/450/659	320/504/734	486/626/900	529/720/979	500/824/1159	601/1080/1447
Filter			G1	G1	G1	G1	G1	G1
Electrical data								
	Voltage	V	230	230	230	230	230	230
Power supply	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
,	Frequency	Hz	50	50	50	50	50	50
Power consumption 2-pipe	Lo/Med/Hi	W	25/35/58	17/34/58	38/58/99	28/41/66	34/61/88	44/92/125
Power consumption 4-pipe	Lo/Med/Hi	W	25/35/58	17/34/58	38/58/99	_	34/61/88	44/92/125
Water connections								
Туре			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2-pipe		Inch	3/4	3/4	3/4	1	1	1
	Cooling	Inch	3/4	3/4	3/4	_	1	1
4-pipe	Heating	Inch	1/2	1/2	1/2	_	3/4	3/4
Dimension and weight			· · · · · · · · · · · · · · · · · · ·					*
Dimension including panel	HxWxD	mm	334 x 720 x 720	334 x 720 x 720	334 x 720 x 720	339 x 960 x 960	339 x 960 x 960	339 x 960 x 960
Weight		kg	14,8	16,5	16,5	37,1	37,1	39,6
Panel reference			PAW-FC-KPY2040	PAW-FC-KPY2040	PAW-FC-KPY2040	PAW-FC-KPU5070	PAW-FC-KPU5070	PAW-FC-KPU5070

¹⁾ According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) According to Eurovent standard. Air: 20 °C. Water in / out: 45 °C / 40 °C. 3) Information data considering an hypothetical sound attenuation of the room and installation of -9 dB[A].

Technical focus

- · 6 sizes*
- · Cooling capacity from 1,4 to 8,6 kW
- · Heating capacity from 1,1 to 12,8 kW
- · 3-speed AC fan motor

- · 2 and 4-pipe configurations
- · Very low acoustic levels
- · Quick access, by simply removing the front grille
- · All connections: located at the same side
- Galvanized steel sheet with thermal and acoustical insulation, avoiding condensation on the casing and providing good sound attenuation
- · Cleanable synthetic-type air filter

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C

st 5 sizes available for 4-pipe configuration.



Fan coils - 4 way cassette (EC)





Optional controller. Wired remote controller for EC fans. PAW-FC-907TC

2-pipe			PAW-FC2E-U020-2	PAW-FC2E-U030-2	PAW-FC2E-U040-2	PAW-FC2E-U050-2	PAW-FC2E-U060-2	PAW-FC2E-U070-2
Total cooling capacity 1)	Lo/Med/Hi	kW	1,6/1,8/2,4	1,9/2,9/4,0	2,8/3,5/4,7	3,4/4,4/6,1	3,7/5,5/7,2	4,1/6,5/9,6
Sensible cooling capacity 1)	Lo/Med/Hi	kW	1,3/1,5/2,0	1,4/2,2/3,1	2,1/2,7/3,6	2,6/3,5/4,7	2,7/4,1/5,4	3,0/4,9/7,2
Water flow	Lo/Med/Hi	l/h	267/306/409	325/497/688	481/604/808	579/765/1050	640/944/1243	700/1119/1649
Water pressure drop	Lo/Med/Hi	kPa	4,2/6,9/11,2	3,5/8,6/14,6	6,8/11,4/18,6	8,4/13,1/22,2	3,4/7,6/11,7	5,8/13,1/24,6
Heating capacity 2]	Lo/Med/Hi	kW	2,2/2,5/3,2	2,3/3,7/4,5	3,7/4,6/6,2	4,5/6,0/8,1	4,5/7,4/10,0	5,2/9,2/13,0
4-pipe	20,1100,111			PAW-FC4E-U030-2		_		PAW-FC4E-U070-2
Total cooling capacity 1)	Lo/Med/Hi	kW	1,4/1,5/2,0	2,0/2,7/3,4	2,6/3,2/4,0	_	3,0/5,0/6,6	3,2/6,1/7,9
Sensible cooling capacity 1)	Lo/Med/Hi	kW	1,2/1,4/1,9	1,5/2,1/2,6	2,1/2,6/3,3		2,3/3,8/5,1	2,6/4,7/6,3
Water flow	Lo/Med/Hi	l/h	234/262/344	344/464/581	442/556/690	_	516/858/1144	549/1041/1366
Water pressure drop	Lo/Med/Hi	kPa	6,6/9,1/14,0	4,4/8,2/11,7	6,7/10,9/15,5	_	6,0/14,1/22,4	7,2/19,2/30,1
Heating capacity 2)	Lo/Med/Hi	kW	0,8/0,9/1,2	2,2/3,1/3,8	3,0/3,5/4,1	_	3,7/5,5/7,0	4,5/7,1/9,8
Water flow	Lo/Med/Hi	l/h	132/153/201	374/530/658	521/603/699	_	636/939/1210	776/1214/1686
Water pressure drop	Lo/Med/Hi	kPa	25,7/33,4/53,6	13,7/24,2/35	24,2/30,9/39,8	_	7,6/13,8/20,7	10,2/20,8/36
Sound levels			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,,,,,,			, , , , , ,	
Global sound power 2-pipe	Lo/Med/Hi	dB(A)	36/40/49	35/47/53	42/48/57	35/40/49	38/46/54	40/52/59
Global sound power 4-pipe	Lo/Med/Hi	dB(A)	36/40/49	35/44/53	42/48/57		38/46/54	40/52/59
Global sound pressure 2-pipe 3)	Lo/Med/Hi	dB(A)	27/31/40	26/35/44	33/39/48	26/31/40	29/37/45	31/43/50
Global sound pressure 4-pipe 3	Lo/Med/Hi	dB(A)	27/31/40	26/35/44	33/39/48		29/37/45	31/43/50
Fan								
Number			1	1	1	1	1	1
Air flow	Lo/Med/Hi	m³/h	360/450/659	320/504/734	486/626/900	529/720/979	500/824/1159	601/1080/1598
Filter			G1	G1	G1	G1	G1	G1
Electrical data								
	Voltage	V	230	230	230	230	230	230
Power supply	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50	50	50
Power consumption 2-pipe	Lo/Med/Hi	W	9/13/29	7/14/32	13/22/57	7/12/25	9/23/25	11/40/115
Power consumption 4-pipe	Lo/Med/Hi	W	9/13/29	7/14/32	13/22/57	_	9/23/46	11/40/115
Water connections								
Туре			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
2-pipe		Inch	3/4	3/4	3/4	1	1	1
	Cooling	Inch	3/4	3/4	3/4	_	1	1
4-pipe	Heating	Inch	1/2	1/2	1/2	_	3/4	3/4
Dimension and weight								
Dimension including panel	HxWxD	mm	334 x 720 x 720	334 x 720 x 720	334 x 720 x 720	339 x 960 x 960	339 x 960 x 960	339 x 960 x 960
Weight		kg	14,8	16,5	16,5	37,1	37,1	39,6
Panel reference			PAW-FC-KPY2040	PAW-FC-KPY2040	PAW-FC-KPY2040	PAW-FC-KPU5070	PAW-FC-KPU5070	PAW-FC-KPU5070

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) According to Eurovent standard. Air: 20 °C. Water in / out: 45 °C / 40 °C. 3) Information data considering an hypothetical sound attenuation of the room and installation of -9 dB(A).

Technical focus

- · 6 sizes*
- · Cooling capacity from 1,4 to 9,4 kW
- · Heating capacity from 1,1 to 14,0 kW
- · Low energy consumption EC fan

- \cdot 2 and 4-pipe configurations
- · Very low acoustic levels
- · Quick access, by simply removing the front grille
- · All connections: located at the same side
- Galvanized steel sheet with thermal and acoustical insulation, avoiding condensation on the casing and providing good sound attenuation
- · Cleanable synthetic-type air filter

Operating limits		
Entering water temperature	From 5 to 90 °C	
Indoor air temperature	From 5 to 32 °C	

^{* 5} sizes available for 4-pipe configuration.





Fan coils - ceiling chassis (AC)





Optional controller. Wired remote controller. PAW-FC-903TC



Optional controller. Advanced wired remote controller. PAW-FC-RC1

2-pipe - Left connection (PAV	V-)		FC2A-T010L	FC2A-T020L	FC2A-T030L	FC2A-T040L	FC2A-T050L	FC2A-T060L	FC2A-T070L	FC2A-T080L
2-pipe - Right connection (PA)	W-)		FC2A-T010R	FC2A-T020R	FC2A-T030R	FC2A-T040R	FC2A-T050R	FC2A-T060R	FC2A-T070R	FC2A-T080R
Total cooling capacity 1]	Lo/Med/Hi	kW	0,7/1,0/1,5	0,7/1,2/1,7	1,0/2,0/2,5	1,2/2,4/3,2	1,7/3,2/4,6	2,7/4,6/5,8	3,4/6,1/7,3	4,6/6,1/8,1
Sensible cooling capacity 13	Lo/Med/Hi	kW	0,5/0,8/1,1	0,6/0,9/1,3	0,8/1,5/1,9	0,9/1,8/2,3	1,2/2,2/3,3	1,9/3,3/4,5	2,4/4,3/5,1	3,4/4,6/6,3
Water flow	Lo/Med/Hi	l/h	124/172/250	127/213/289	172/341/430	206/413/547	296/544/798	466/784/1003	587/1058/1252	798/1048/1400
Water pressure drop	Lo/Med/Hi	kPa	10,7/19,5/39,2	1,9/3,9/6,3	6,3/19,3/28,8	5,4/17,1/28,0	7,5/22,8/46,9	13,9/37,4/60,2	4,8/15,4/21,5	11,9/19,3/32,5
Heating capacity 2]	Lo/Med/Hi	kW	0,9/1,4/2,0	0,9/1,5/2,2	1,3/2,4/3,1	1,4/2,9/4,0	2,1/4,1/5,7	3,1/5,3/7,1	4,3/7,9/9,3	5,9/8,1/11,6
4-pipe - Left connection (PAV	V-)		FC4A-T010L	FC4A-T020L	FC4A-T030L	FC4A-T040L	FC4A-T050L	FC4A-T060L	FC4A-T070L	FC4A-T080L
4-pipe - Right connection (PA)	W-)		FC4A-T010R	FC4A-T020R	FC4A-T030R	FC4A-T040R	FC4A-T050R	FC4A-T060R	FC4A-T070R	FC4A-T080R
Total cooling capacity 13	Lo/Med/Hi	kW	0,7/0,9/1,3	0,6/1,1/1,6	1,0/1,9/2,4	1,1/2,3/3,0	1,7/3,0/4,3	2,6/4,4/5,6	3,3/5,9/6,9	4,5/5,9/8,0
Sensible cooling capacity 13	Lo/Med/Hi	kW	0,5/0,7/1,0	0,5/0,8/1,2	0,8/1,5/1,8	0,8/1,7/2,2	1,2/2,2/3,1	1,8/3,2/4,3	2,3/4,2/4,9	3,3/4,4/6,2
Water flow	Lo/Med/Hi	l/h	114/159/225	109/192/268	165/327/414	194/388/517	284/522/748	449/756/967	575/1019/1193	775/1020/1380
Water pressure drop	Lo/Med/Hi	kPa	8,3/15,2/29,0	1,5/3,4/5,6	3,0/9,5/14,4	6,4/22,3/36,8	4,2/12,8/25,1	10,2/27,7/44,5	5,9/17,9/24,4	19,3/31,1/53,6
Heating capacity 2)	Lo/Med/Hi	kW	0,5/0,7/1,0	0,6/0,9/1,1	1,0/1,4/1,6	0,9/1,6/2,1	1,5/2,3/3,0	1,9/2,9/3,7	2,7/3,6/4,3	3,9/5,6/7,1
Water flow	Lo/Med/Hi	l/h	79/127/178	100/146/190	164/232/274	160/273/354	251/401/508	325/505/633	456/626/736	673/963/1226
Water pressure drop	Lo/Med/Hi	kPa	1,9/3,5/5,6	1,5/3,2/5,3	5,1/9,0/11,9	9,2/26,5/42,7	10,7/24,6/29,5	20,3/43,9/52,9	67,2/117,9/137,8	33,1/63,7/75
Sound levels										
Global sound power	Lo/Med/Hi	dB(A)	33/40/49	31/43/50	30/45/52	30/44/51	34/46/56	38/51/58	43/56/61	50/55/64
Global sound pressure 3)	Lo/Med/Hi	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52	41/46/55
Fan										
Number			1	1	1	2	2	2	2	3
Air flow 2-pipe	Lo/Med/Hi	m³/h	111/190/283	105/179/265	138/274/390	173/357/499	253/486/716	350/640/933	480/893/1064	660/936/1397
Air flow 4-pipe	Lo/Med/Hi	m³/h	95/168/253	89/161/241	132/263/369	162/335/467	242/466/671	334/614/885	470/859/1012	634/905/1370
Filter			G2							
Electrical data										
	Voltage	٧	230	230	230	230	230	230	230	230
Power supply	Phase		Single phase							
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption 2-pipe	Lo/Med/Hi	W	13/24/36	10/18/29	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147	90/112/188
Power consumption 4-pipe	Lo/Med/Hi	W	13/24/36	10/18/28	16/37/44	15/37/55	28/54/70	37/74/104	53/99/145	90/112/188
Water connections										
Water connections Type			Female gas threaded							
		Inch								
Type 2-pipe	Cooling	Inch Inch	threaded							
Туре	Cooling Heating		threaded 1/2	threaded 1/2	threaded 1/2	threaded 1/2	threaded 1/2	threaded 1/2	threaded 3/4	threaded 3/4
Type 2-pipe		Inch	threaded 1/2 1/2	threaded 1/2 1/2	threaded 1/2 1/2	threaded 1/2 1/2	threaded 1/2 1/2	1/2 1/2	threaded 3/4 3/4	threaded 3/4 3/4
Type 2-pipe 4-pipe		Inch	threaded 1/2 1/2	threaded 1/2 1/2	threaded 1/2 1/2	threaded 1/2 1/2	threaded 1/2 1/2	1/2 1/2	threaded 3/4 3/4	threaded 3/4 3/4

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds.

Technical focus

- · Cooling capacity from 0,7 to 8,1 kW
- · Heating capacity from 0,7 to 10,3 kW
- · 5-speed AC fan motor(s)

- · 2 and 4-pipe configurations
- · Left or right hand arrangements
- · Ease of installation
- · Very low acoustic levels
- \cdot 2 way or 3 way ON / OFF valves
- · Auxiliary drain pan
- · Air intake with removable grid
- · G2 filter

Operating limits		
Entering water temperature	From 5 to 90 °C	
Indoor air temperature	From 5 to 32 °C	



Fan coils - ceiling chassis (EC)





2-pipe - Left connection (PA)	W-)		FC2E-T010L	FC2E-T020L	FC2E-T030L	FC2E-T040L	FC2E-T050L	FC2E-T060L	FC2E-T070L	FC2E-T080L
2-pipe - Right connection (PA	W-)		FC2E-T010R	FC2E-T020R	FC2E-T030R	FC2E-T040R	FC2E-T050R	FC2E-T060R	FC2E-T070R	FC2E-T080R
Total cooling capacity 1)	Lo/Med/Hi	kW	0,6/1,2/2,1	0,6/1,4/2,4	0,9/2,1/3,1	1,3/2,9/4,2	1,3/4,0/5,0	2,0/4,5/5,2	2,7/5,9/6,9	5,1/6,5/8,8
Sensible cooling capacity 1)	Lo/Med/Hi	kW	0,5/1,1/1,9	0,5/1,1/1,9	0,6/1,6/2,4	1,0/2,1/3,0	1,1/3,0/3,7	1,4/3,5/4,0	2,0/4,3/5,2	3,7/4,8/6,6
Water flow	Lo/Med/Hi	l/h	107/210/356	110/237/406	148/354/532	230/506/722	231/685/743	341/767/800	463/1008/1098	879/1111/1254
Water pressure drop	Lo/Med/Hi	kPa	8,2/28,2/76,9	1,5/4,6/11,0	5,0/20,5/42,1	6,4/24,4/46,3	4,9/35,1/41,0	7,8/35,8/38,8	3,0/14,0/16,6	14,1/21,4/26,6
Heating capacity 2)	Lo/Med/Hi	kW	0,8/1,6/2,9	0,9/1,9/3,3	1,0/2,2/3,4	1,4/3,0/5,3	1,7/5,2/5,5	2,3/5,9/6,1	3,8/7,3/8,2	6,2/8,0/9,3
4-pipe - Left connection (PA)	W-)		FC4E-T010L	FC4E-T020L	FC4E-T030L	FC4E-T040L	FC4E-T050L	FC4E-T060L	FC4E-T070L	FC4E-T080L
4-pipe - Right connection (PA	W-)		FC4E-T010R	FC4E-T020R	FC4E-T030R	FC4E-T040R	FC4E-T050R	FC4E-T060R	FC4E-T070R	FC4E-T080R
Total cooling capacity 1)	Lo/Med/Hi	kW	0,5/1,1/1,9	0,6/1,2/2,2	0,8/1,9/2,9	1,2/2,7/4,0	1,2/3,6/4,6	1,8/4,1/4,9	2,6/5,1/6,4	5,0/6,2/9,6
Sensible cooling capacity 1)	Lo/Med/Hi	kW	0,4/0,9/1,7	0,4/1,0/1,8	0,6/1,5/2,2	0,9/1,9/2,8	1,0/2,8/3,5	1,2/3,2/3,8	1,9/3,8/4,8	3,6/4,6/7,2
Water flow	Lo/Med/Hi	l/h	92/185/327	97/206/375	129/321/493	205/457/681	212/625/686	306/707/749	443/886/977	855/1070/1242
Water pressure drop	Lo/Med/Hi	kPa	5,8/20,1/59,2	1,3/3,7/9,7	4,0/9,2/19,7	6,3/29,6/60,1	2,5/17,9/21,3	5,1/24,3/27,2	3,5/13,6/16,5	22,9/33,9/44,3
Heating capacity 2)	Lo/Med/Hi	kW	0,4/0,8/1,4	0,6/0,9/1,5	1,0/1,4/1,8	1,2/2,0/2,8	1,6/2,4/2,5	1,4/2,9/3,1	2,5/3,4/3,6	4,5/5,9/6,9
Water flow	Lo/Med/Hi	l/h	76/140/235	95/161/255	166/243/304	204/350/483	267/416/438	233/503/531	434/583/614	767/1011/1194
Water pressure drop	Lo/Med/Hi	kPa	1,8/4,0/8,4	1,4/3,8/9,4	5,3/9,7/14,1	15,6/41,8/76,3	11,9/26,3/28,9	11,5/43,6/48,1	61,5/103,8/113,9	42,1/69,7/95,1
Sound levels										
Global sound power	Lo/Med/Hi	dB(A)	34/47/60	34/47/60	31/50/59	29/44/52	30/51/57	32/54/58	40/54/59	51/56/64
Global sound pressure 33	Lo/Med/Hi	dB(A)	25/38/51	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55
Fan										
Number			1	1	1	2	2	2	2	3
Air flow 2-pipe	Lo/Med/Hi	m³/h	108/228/417	98/234/413	145/380/585	170/412/678	203/645/816	245/737/912	350/850/1050	685/927/1398
Air flow 4-pipe	Lo/Med/Hi	m³/h	91/199/379	84/200/380	123/342/540	148/369/627	185/587/646	205/668/716	329/798/894	660/884/1079
Filter			G2							
Electrical data										
	Voltage	V	230	230	230	230	230	230	230	230
Power supply	Phase		Single phase							
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption 2-pipe	Lo/Med/Hi	W	5/11/41	5/13/41	4/16/42	2/13/43	4/24/46	2/30/54	11/44/77	23/42/108
Power consumption 4-pipe	Lo/Med/Hi	W	5/11/39	5/13/40	6/15/40	2/12/42	2/23/44	2/28/52	11/43/75	22/41/116
Water connections										
Туре			Female gas threaded							
2-pipe		Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
, .	Cooling	Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
4-pipe	Heating	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Dimension and weight										
Dimension	HxWxD	mm	225 x 766 x 477	225 x 766 x 477	225 x 951 x 477	225 x 1136 x 477	225 x 1321 x 477	225 x 1506 x 477	225 x 1319 x 477	225 x 1506 x 477
Weight	2 / 4-pipes	kg	19/20	19/20	22/23	27/29	30/32	35/37	35/37	47/49

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds.

Technical focus

- · Cooling capacity from 0,5 to 9,6 kW
- · Heating capacity from 0,6 to 13,6 kW
- Low energy consumption EC fan(s)

- · 2 and 4-pipe configurations
- · Left or right hand arrangements
- · Ease of installation
- · Very low acoustic levels
- \cdot 2 way or 3 way ON / OFF valves
- · Auxiliary drain pan
- · Air intake with removable grid
- · G2 filter

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C







Fan coils - floor-standing chassis (AC)



Optional controller. Wired remote controller. PAW-FC-903TC



Optional controller. Advanced wired remote controller. PAW-FC-RC1

2-pipe - Left connection (PA)	N-)		FC2A-P010L	FC2A-P020L	FC2A-P030L	FC2A-P040L	FC2A-P050L	FC2A-P060L	FC2A-P070L	FC2A-P080L
2-pipe - Right connection (PA	(W-)		FC2A-P010R	FC2A-P020R	FC2A-P030R	FC2A-P040R	FC2A-P050R	FC2A-P060R	FC2A-P070R	FC2A-P080R
Total cooling capacity 1]	Lo/Med/Hi	kW	0,7/1,0/1,5	0,7/1,2/1,7	1,0/2,0/2,5	1,2/2,4/3,2	1,7/3,2/4,6	2,7/4,6/5,8	3,4/6,1/7,3	4,6/6,1/8,1
Sensible cooling capacity 1)	Lo/Med/Hi	kW	0,5/0,8/1,1	0,6/0,9/1,3	0,8/1,5/1,9	0,9/1,8/2,3	1,2/2,2/3,3	1,9/3,3/4,5	2,4/4,3/5,1	3,4/4,6/6,3
Water flow	Lo/Med/Hi	l/h	124/172/250	127/213/289	172/341/430	206/413/547	296/544/798	466/784/1003	587/1058/1252	798/1048/1400
Water pressure drop	Lo/Med/Hi	kPa	10,7/19,5/39,2	1,9/3,9/6,3	6,3/19,3/28,8	5,4/17,1/28,0	7,5/22,8/46,9	13,9/37,4/60,2	4,8/15,4/21,5	11,9/19,3/32,5
Heating capacity 2)	Lo/Med/Hi	kW	0,9/1,4/2,0	0,9/1,5/2,2	1,3/2,4/3,1	1,4/2,9/4,0	2,1/4,1/5,7	3,1/5,3/7,1	4,3/7,9/9,3	5,9/8,1/11,6
4-pipe - Left connection (PA)	W-)		FC4A-P010L	FC4A-P020L	FC4A-P030L	FC4A-P040L	FC4A-P050L	FC4A-P060L	FC4A-P070L	FC4A-P080L
4-pipe - Right connection (PA	W-)		FC4A-P010R	FC4A-P020R	FC4A-P030R	FC4A-P040R	FC4A-P050R	FC4A-P060R	FC4A-P070R	FC4A-P080R
Total cooling capacity 1]	Lo/Med/Hi	kW	0,7/0,9/1,3	0,6/1,1/1,6	1,0/1,9/2,4	1,1/2,3/3,0	1,7/3,0/4,3	2,6/4,4/5,6	3,3/5,9/6,9	4,5/5,9/8,0
Sensible cooling capacity 1)	Lo/Med/Hi	kW	0,5/0,7/1,0	0,5/0,8/1,2	0,8/1,5/1,8	0,8/1,7/2,2	1,2/2,2/3,1	1,8/3,2/4,3	2,3/4,2/4,9	3,3/4,4/6,2
Water flow	Lo/Med/Hi	l/h	114/159/225	109/192/268	165/327/414	194/388/517	284/522/748	449/756/967	575/1019/1193	775/1020/1380
Water pressure drop	Lo/Med/Hi	kPa	8,3/15,2/29,0	1,5/3,4/5,6	3,0/9,5/14,4	6,4/22,3/36,8	4,2/12,8/25,1	10,2/27,7/44,5	5,9/17,9/24,4	19,3/31,1/53,6
Heating capacity 2)	Lo/Med/Hi	kW	0,5/0,7/1,0	0,6/0,9/1,1	1,0/1,4/1,6	0,9/1,6/2,1	1,5/2,3/3,0	1,9/2,9/3,7	2,7/3,6/4,3	3,9/5,6/7,1
Water flow	Lo/Med/Hi	l/h	79/127/178	100/146/190	164/232/274	160/273/354	251/401/508	325/505/633	456/626/736	673/963/1226
Water pressure drop	Lo/Med/Hi	kPa	1,9/3,5/5,6	1,5/3,2/5,3	5,1/9,0/11,9	9,2/26,5/42,7	10,7/24,6/29,5	20,3/43,9/52,9	67,2/117,9/137,8	33,1/63,7/75
Sound levels										
Global sound power	Lo/Med/Hi	dB(A)	33/40/49	31/43/50	30/45/52	30/44/51	34/46/56	38/51/58	43/56/61	50/55/64
Global sound pressure 3)	Lo/Med/Hi	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52	41/46/55
Fan										
Number			1	1	1	2	2	2	2	3
Air flow 2-pipe	Lo/Med/Hi	m³/h	111/190/283	105/179/265	138/274/390	173/357/499	253/486/716	350/640/933	480/893/1064	660/936/1397
Air flow 4-pipe	Lo/Med/Hi	m³/h	95/168/253	89/161/241	132/263/369	162/335/467	242/466/671	334/614/885	470/859/1012	634/905/1370
Filter			G2	G2	G2	G2	G2	G2	G2	G2
Electrical data										
	Voltage	V	230	230	230	230	230	230	230	230
Power supply	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption 2-pipe	Lo/Med/Hi	W	13/24/36	10/18/29	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147	90/112/188
		v	10, 21, 00	10/10/2/	10/3//43	10/3//00	20/33/72	077707100	33/100/14/	70/112/100
Power consumption 4-pipe	Lo/Med/Hi	W	13/24/36	10/18/28	16/37/45	15/37/55	28/54/70	37/74/104	53/99/145	90/112/188
Power consumption 4-pipe Water connections	Lo/Med/Hi									
	Lo/Med/Hi									
Water connections Type	Lo/Med/Hi		13/24/36 Female gas	10/18/28 Female gas threaded	16/37/44 Female gas	15/37/55 Female gas	28/54/70 Female gas threaded	37/74/104 Female gas	53/99/145 Female gas	90/112/188 Female gas
Water connections Type 2-pipe	Lo/Med/Hi Cooling	W	13/24/36 Female gas threaded	10/18/28 Female gas	16/37/44 Female gas threaded	15/37/55 Female gas threaded	28/54/70 Female gas	37/74/104 Female gas threaded	53/99/145 Female gas threaded	90/112/188 Female gas threaded
Water connections Type		W	13/24/36 Female gas threaded 1/2	10/18/28 Female gas threaded 1/2	16/37/44 Female gas threaded 1/2	15/37/55 Female gas threaded 1/2	28/54/70 Female gas threaded 1/2	37/74/104 Female gas threaded 1/2	53/99/145 Female gas threaded 3/4	90/112/188 Female gas threaded 3/4
Water connections Type 2-pipe	Cooling	Inch	13/24/36 Female gas threaded 1/2 1/2	10/18/28 Female gas threaded 1/2 1/2	16/37/44 Female gas threaded 1/2 1/2	15/37/55 Female gas threaded 1/2 1/2	28/54/70 Female gas threaded 1/2 1/2	37/74/104 Female gas threaded 1/2 1/2	Female gas threaded 3/4 3/4	90/112/188 Female gas threaded 3/4 3/4
Water connections Type 2-pipe 4-pipe	Cooling	Inch	13/24/36 Female gas threaded 1/2 1/2	10/18/28 Female gas threaded 1/2 1/2	16/37/44 Female gas threaded 1/2 1/2	15/37/55 Female gas threaded 1/2 1/2	28/54/70 Female gas threaded 1/2 1/2	37/74/104 Female gas threaded 1/2 1/2	Female gas threaded 3/4 3/4	90/112/188 Female gas threaded 3/4 3/4
Water connections Type 2-pipe 4-pipe Dimension and weight	Cooling Heating	Inch Inch Inch	13/24/36 Female gas threaded 1/2 1/2 1/2 477 x 225 x	Female gas threaded 1/2 1/2 1/2 766 x 225 x	Female gas threaded 1/2 1/2 1/2 1/2 477 x 225 x	15/37/55 Female gas threaded 1/2 1/2 1/2 1/2 477 x 225 x	28/54/70 Female gas threaded 1/2 1/2 1/2 1/2 477 x 225 x	37/74/104 Female gas threaded 1/2 1/2 1/2 1/2 477 x 225 x	Female gas threaded 3/4 3/4 1/2 575 x 225 x	90/112/188 Female gas threaded 3/4 3/4 1/2 575 x 225 x

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3} The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds. 4) Without support feet.

Technical focus

- · Cooling capacity from 0,7 to 8,1 kW
- · Heating capacity from 0,7 to 10,3 kW
- · 5-speed AC fan motor(s)

- · 2 and 4-pipe configurations
- · Left or right hand arrangements
- · Ease of installation
- · Very low acoustic levels
- \cdot 2 way or 3 way ON / OFF valves
- $\cdot \ \mathsf{Auxiliary} \ \mathsf{drain} \ \mathsf{pan}$
- · Air intake with removable grid
- · G2 filter
- · PAW-FC-SFS feet for floor-standing units

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C



Fan coils - floor-standing chassis (EC)





Optional controller. Wired remote controller for EC fans. PAW-FC-907TC

2-pipe - Left connection (PAV	V-)		FC2E-P010L	FC2E-P020L	FC2E-P030L	FC2E-P040L	FC2E-P050L	FC2E-P060L	FC2E-P070L	FC2E-P080L
2-pipe - Right connection (PA	W-)		FC2E-P010R	FC2E-P020R	FC2E-P030R	FC2E-P040R	FC2E-P050R	FC2E-P060R	FC2E-P070R	FC2E-P080R
Total cooling capacity 1)	Lo/Med/Hi	kW	0,6/1,2/2,1	0,6/1,4/2,4	0,9/2,1/3,1	1,3/2,9/4,2	1,3/4,0/5,0	2,0/4,5/5,2	2,7/5,9/6,9	5,1/6,5/8,8
Sensible cooling capacity 1)	Lo/Med/Hi	kW	0,5/1,1/1,9	0,5/1,1/1,9	0,6/1,6/2,4	1,0/2,1/3,0	1,1/3,0/3,7	1,4/3,5/4,0	2,0/4,3/5,2	3,7/4,8/6,6
Water flow	Lo/Med/Hi	l/h	107/210/356	110/237/406	148/354/532	230/506/722	231/685/743	341/767/800	463/1008/1098	879/1111/1254
Water pressure drop	Lo/Med/Hi	kPa	8,2/28,2/76,9	1,5/4,6/11,0	5,0/20,5/42,1	6,4/24,4/46,3	4,9/35,1/41,0	7,8/35,8/38,8	3,0/14,0/16,6	14,1/21,4/26,6
Heating capacity 2]	Lo/Med/Hi	kW	0,8/1,6/2,9	0,9/1,9/3,3	1,0/2,2/3,4	1,4/3,0/5,3	1,7/5,2/5,5	2,3/5,9/6,1	3,8/7,3/8,2	6,2/8,0/9,3
4-pipe - Left connection (PAV	V-)		FC4E-P010L	FC4E-P020L	FC4E-P030L	FC4E-P040L	FC4E-P050L	FC4E-P060L	FC4E-P070L	FC4E-P080L
4-pipe - Right connection (PA	W-)		FC4E-P010R	FC4E-P020R	FC4E-P030R	FC4E-P040R	FC4E-P050R	FC4E-P060R	FC4E-P070R	FC4E-P080R
Total cooling capacity 1)	Lo/Med/Hi	kW	0,5/1,1/1,9	0,6/1,2/2,2	0,8/1,9/2,9	1,2/2,7/4,0	1,2/3,6/4,6	1,8/4,1/4,9	2,6/5,1/6,4	5,0/6,2/9,6
Sensible cooling capacity 1)	Lo/Med/Hi	kW	0,4/0,9/1,7	0,4/1,0/1,8	0,6/1,5/2,2	0,9/1,9/2,8	1,0/2,8/3,5	1,2/3,2/3,8	1,9/3,8/4,8	3,6/4,6/7,2
Water flow	Lo/Med/Hi	l/h	92/185/327	97/206/375	129/321/493	205/457/681	212/625/686	306/707/749	443/886/977	855/1070/1242
Water pressure drop	Lo/Med/Hi	kPa	5,8/20,1/59,2	1,3/3,7/9,7	4,0/9,2/19,7	6,3/29,6/60,1	2,5/17,9/21,3	5,1/24,3/27,2	3,5/13,6/16,5	22,9/33,9/44,3
Heating capacity 2)	Lo/Med/Hi	kW	0,4/0,8/1,4	0,6/0,9/1,5	1,0/1,4/1,8	1,2/2,0/2,8	1,6/2,4/2,5	1,4/2,9/3,1	2,5/3,4/3,6	4,5/5,9/6,9
Water flow	Lo/Med/Hi	l/h	76/140/235	95/161/255	166/243/304	204/350/483	267/416/438	233/503/531	434/583/614	767/1011/1194
Water pressure drop	Lo/Med/Hi	kPa	1,8/4,0/8,4	1,4/3,8/9,4	5,3/9,7/14,1	15,6/41,8/76,3	11,9/26,3/28,9	11,5/43,6/48,1	61,5/103,8/113,9	42,1/69,7/95,1
Sound levels										
Global sound power	Lo/Med/Hi	dB(A)	34/47/60	34/47/60	31/50/59	29/44/52	30/51/57	32/54/58	40/54/59	51/56/64
Global sound pressure 3	Lo/Med/Hi	dB(A)	25/38/51	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55
Fan										
Number			1	1	1	2	2	2	2	3
Air flow 2-pipe	Lo/Med/Hi	m³/h	108/228/417	98/234/413	145/380/585	170/412/678	203/645/816	245/737/912	350/850/1050	685/927/1398
Air flow 4-pipe	Lo/Med/Hi	m³/h	91/199/379	84/200/380	123/342/540	148/369/627	185/587/646	205/668/716	329/798/894	660/884/1079
Filter			G2							
Electrical data										
	Voltage	٧	230	230	230	230	230	230	230	230
Power supply	Phase		Single phase							
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption 2-pipe	Lo/Med/Hi	W	5/11/41	5/13/41	4/16/42	2/13/43	4/24/46	2/30/54	11/44/77	23/42/108
Power consumption 4-pipe	Lo/Med/Hi	W	5/11/39	5/13/40	6/15/40	2/12/42	2/23/44	2/28/52	11/43/75	22/41/116
Water connections										
Туре			Female gas threaded							
2-pipe	-	Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
	Cooling	Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
4-pipe	Heating	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Dimension and weight										
Dimension 4)	HxWxD	mm	477 x 225 x 766	766 x 225 x 477	477 x 225 x 951	477 x 225 x 1136	477 x 225 x 1321	477 x 225 x 1506	575 x 225 x 1319	575 x 225 x 1506
			700	4//	731	1130	1321	1300	1017	1 300

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds. 4) Without support feet.

Technical focus

- · Cooling capacity from 0,5 to 9,6 kW
- · Heating capacity from 0,6 to 13,6 kW
- Low energy consumption EC fan(s)

- · 2 and 4-pipe configurations
- · Left or right hand arrangements
- · Ease of installation
- · Very low acoustic levels
- \cdot 2 way or 3 way ON / OFF valves
- · Auxiliary drain pan
- · Air intake with removable grid
- · G2 filter
- · PAW-FC-SFS feet for floor-standing units

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C





Fan coils - wall-mounted (AC)





Optional controller. Wired remote controller. PAW-FC-903TC



Optional controller. Advanced wired remote controller. PAW-FC-RC1



Infrared remote supplied with IR versions. IR Controller

•			PAW-FC2A-K007	PAW-FC2A-K009	PAW-FC2A-K018	PAW-FC2A-K022
2-pipe			PAW-FC2A-K007IR	PAW-FC2A-K009IR	PAW-FC2A-K018IR	PAW-FC2A-K022IR
Total cooling capacity 1)	Lo/Med/Hi	kW	1,0/1,3/1,7	1,6/1,7/2,4	2,8/3,0/3,5	2,9/3,1/3,9
Sensible cooling capacity 1]	Lo/Med/Hi	kW	0,7/1,0/1,2	1,2/1,3/1,9	2,1/2,3/2,7	2,3/2,5/3,1
Water flow	Lo/Med/Hi	l/h	172/231/287	270/291/418	483/508/609	502/535/669
Water pressure drop	Lo/Med/Hi	kPa	18,6/24,9/30,9	18,5/27,0/40,0	34,6/41,3/55,6	37,2/33,7/45,2
Heating capacity 2)	Lo/Med/Hi	kW	1,4/1,7/2,0	1,7/2,0/2,7	2,9/3,2/4,0	3,1/3,7/4,4
Sound levels						
Sound power	Lo/Med/Hi	dB(A)	45/49/51	47/52/57	49/53/59	56/59/63
Sound pressure 3)	Lo/Med/Hi	dB(A)	32/36/38	34/39/44	40/43/46	43/46/50
Fan						
Number			1	1	1	1
Air flow	Lo/Med/Hi	m³/h	282/321/360	367/413/551	532/592/680	617/709/850
Filter			G1	G1	G1	G1
Electrical data						
	Voltage	V	230	230	230	230
Power supply	Phase		Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50
Fuse rating		Α	3	3	3	3
Power consumption	Lo/Med/Hi	W	39/42/62	30/47/59	44/50/55	50/55/70
Water connections						
Туре			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
Water connections		Inch	1/2	1/2	1/2	1/2
Dimension and weight						
Dimension	HxWxD	mm	275 x 180 x 845	275 x 180 x 845	298 x 200 x 940	298 x 200 x 940
Weight		kg	11	11	13	13

¹⁾ According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) According to Eurovent standard. Air: 20 °C. Water in / out: 45 °C / 40 °C. 3) Sound pressure considering a local of 100 m³ a reverberation time of 0,5 seconds and a distance of 1 m.

Technical focus

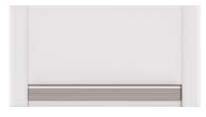
- · 4 sizes
- · Cooling capacity from 1,0 to 3,9 kW
- · Heating capacity from 1,4 to 4,1 kW
- · Version: 2-pipes, AC fan

- \cdot 2 way or 3 way valve ON / OFF
- · 3-speed AC fan motor
- · Silent unit for optimum customer comfort
- · Aesthetic design suitable for residential and hotel applications
- · Compatible with IR controller (supplied with IR versions)
- · Coil with hydrophilic fins to improve the condensate flow

Operating limits		
Entering water temperature	From 5 to 60 °C	
Indoor air temperature	From 6 to 40 °C	



Smart fan coils







			PAW-AAIR-200-2	PAW-AAIR-700-2	PAW-AAIR-900-2
Total cooling capacity	Lo/Med/Hi	kW	0,2/0,3/0,6	0,8/1,0/1,2	1,2/1,5/1,7
Sensible cooling capacity	Lo/Med/Hi	kW	0,2/0,3/0,5	0,6/0,9/1,1	1,1/1,4/1,6
Water flow	Lo/Med/Hi	kg/h	40,0/59,0/95,0	129,0/178,0/207,0	198,0/261,0/300,0
Water pressure drop	Lo/Med/Hi	kPa	0,4/2,0/2,9	1,0/2,0/2,0	6,0/9,0/12,0
Inlet water temperature		°C	10	10	10
Outlet water temperature		°C	15	15	15
Inlet air temperature		°C	27,0	27,0	27,0
Outlet air temperature	Lo/Med/Hi	°C	15,0/17,0/18,0	14,0/16,0/17,0	16,0/17,0/18,0
Relative humidity of inlet air		%	47	47	47
Total heating capacity	Lo/Med/Hi	kW	0,2/0,5/0,6	0,7/1,0/1,2	0,9/1,4/1,7
Water flow	Lo/Med/Hi	kg/h	37,3/80,8/98,0	121,8/177,5/204,3	152,4/244,2/292,9
Water pressure drop	Lo/Med/Hi	kPa	0,4/2,0/2,9	0,3/0,8/1,0	0,5/1,6/2,2
Inlet water temperature		°C	35	35	35
Outlet water temperature		°C	30	30	30
Inlet air temperature		°C	19,0	19,0	19,0
Outlet air temperature	Lo/Med/Hi	°C	38,9/32,0/30,0	33,3/31,8/30,6	30,2/31,1/30,6
Air flow	Lo/Med/Hi	m³/min	0,9/1,9/2,7	2,6/4,2/5,3	4,1/6,1/7,7
Maximum input power	Lo/Med/Hi	W	7,0/9,0/13,0	14,0/18,0/22,0	16,0/20,0/24,0
Sound pressure	Lo/Med/Hi	dB(A)	23/33/40	24/36/42	25/36/44
Dimension (HxWxD)		mm	735 x 579 x 129	935 x 579 x 129	1135 x 579 x 129
Net weight		kg	17	20	23
3 Ways valve included			Yes	Yes	Yes
Touch screen thermostat			Yes	Yes	Yes

^{*} Smart fan coils is produced by Innova.

Accessories		
PAW-AAIR-LEGS-1	Kits of 2 legs to protect the water pipings	

Access	ories
Access	01163

PAW-AAIR-RHCABLE

 $\label{thm:motion} \mbox{Motor connection cable for units with hydraulic connections on the right}$

Stylish floor-standing fan coils with advanced controller

The slimline of Smart fan coils delivers high efficiency climate control.

With a depth of just under 130 mm they are at the cutting edge of the market. Blending easily into the home, Smart fan coil's elegant design and product refinements are clear to see in every detail.

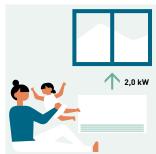
Exceptional ventilation efficiency means the motor uses considerably less energy (low wattage). The fan speed is continuously modulated by the temperature controller with proportional integral logic, with undoubted advantages for regulating the temperature and humidity in summer mode.

With standard cast radiators.



Water at 65 °C needed.

With Smart fan coil.



Water at 35 °C needed.

Technical focus

- · 4 operation modes (auto, silent, night-time and maximum ventilation speed)
- · Exclusive design
- · Extremely compact (only 129 mm deep)
- Cooling and dehumidification functions possible (drain is needed)
- · 3-way valve included (no overflow valve needed on the installation if more than 3 units installed)
- · Touch screen thermostat

All temperature curves and capacity are available on www.panasonicproclub.com



Control and connectivity



Simple user friendly control for outdoor units

A control panel with intuitive design is equipped on all ECOi-W systems as standard. The microprocessor based control has a new IHM logic and implements a smart handling for your demand.

$\begin{array}{c} \textbf{Basic operation.} \\ \cdot \text{ ON / OFF setting} \end{array}$

- · Cooling / Heating mode setting

Energy Saving.

- · Intelligent logic control for inlet water temperature
- · Night setback operation to reduce electrical consumption and noise
- · Part load operating mode
- · Maximum discharge temperature control

Service / Maintenance.

- · Automatic test operation at the push of a button
- · Alarm notice with the latest 10 alarms
- · Counter for operating hours of compressor and
- Compressor operating limits saved in a flash memory

Others.

· BMS compatible (RS485 ModBus RTU or BACnet MSTP protocol)



Remote control kit

PAW-SYSREMKIT

Simple remote control for the need to be installed remotely from the units.

- \cdot 8 lines of display with selectable blue and white back light
- · Push-and-roll knob for easy operation
- · Schedule function
- \cdot Alarm button with LED indicator
- · Firmware can be upgraded via USB interface



New remote monitoring service EC0i-W Cloud

PAW-CM000SP041.

Remote access in real time to optimise the service and maintenance work. Alarm notification via e-mail.

Reporting and graph visualization with 300 varieties.

Various LED signals on the hardware to check the status on site.

Technical focus:

- · Maximum 10 outdoor units connectable
- $\cdot \ \mathsf{Modbus} \ \mathsf{RTU} \ \mathsf{is} \ \mathsf{required}$
- · History of data interval up to 5 minutes
- · 4G SIM card fitted
- · IP65 casing
- · Optional antenna is available in the case that 4G signal is not good enough



Wired controllers for AC and EC fan coils

Advanced wired remote controller (AC)

PAW-FC-RC1

This advanced controller provides a higher level of comfort in heating. The sensor can be used as a water flow sensor, stopping the fan when the water temperature is low, avoiding cold drafts in winter.

Features:

- · For 2-pipe and 4-pipe, AC fan
- · Change Over function (cold draft prevention)
- · Room thermostat
- · 3 outputs, 230 V relays for fan control
- · 2 outputs, 230 V relays for heating / cooling control
- · Connection to BMS Modbus RTU slave
- · 1 DI for presence detection (key card switch)
- · 1 Al for sensor



Wired remote controller (EC)

PAW-FC-907TC

Stylish and sophisticated design with backlit LCD display, is suitable for installation within a wide variety of locations such as office, hotel and residential applications. By connecting the controller to the range of EC fan coils, the user can take advantage of the improved performance, higher levels of efficiency and thus improved energy savings.

Features:

- · For 2-pipe and 4-pipe, EC fan
- · Back lit LCD screen with touch control
- · Adjustable range EC fan control
- $\cdot \ Economiser$
- \cdot Connection to BMS via Modbus
- \cdot 1 DI for presence detection (key card switch)



Wired remote controller (AC)

PAW-FC-903TC

Feature rich and perfectly adapted to control AC fan coils, the PAW-FC-903TC is the addition for any fan coil. With intuitive user interface provided by the push button control and large LCD display, it will fit seamlessly with almost any location.

Features:

- · For 2-pipe, AC fan
- · Back lit LCD screen
- \cdot 3 speed control relay, for fan
- · Economizer



Accessories and control

Wired remote controller for outdoor units

Remote monitoring service EC0i-W Cloud



Remote control for the need to be installed remotely from the units.

PAW-SYSREMKIT



Cloudgate plug and play IP65 box mobile 4G Europe.

PAW-CM000SP041



Extension kit and cable glande for mobile (2/4G) antenna (3 m).

PAW-CM000K0001

Tservice wireless fee for 1 year.

Periodic prepaid subscriptions identified by software "tokens" loaded in customer's private portal.

Victaulic connection kit

PAW-00SRTS011

Shut off valves



Shut off valves kit for model 20 - 40.

PAW-SYSSOV1

Shut off valves kit for model 45 - 75.

PAW-SYSSOV2

Shut off valves kit for model 90 - 125.

PAW-SYSSOV3

Victaulic connection kit for model 140 - 210.

PAW-SYSVICTH

Wired remote controller for fan coil



Wired remote controller for fan coil.

PAW-FC-903TC



Advanced wired remote controller for fan coil.

PAW-FC-RC1



Wired remote controller for EC fan coil.

PAW-FC-907TC

Fan coil ceiling, floor-standing and ducted valve accessories

2 way valve + drain pan for 2-pipe ceiling, floor-standing and ducted models 010-060.	2 way valve + drain pan for 2-pipe ceiling, floor-standing and ducted models 070-080.	2 way valve + drain pan for 2-pipe ducted model F040.	
PAW-FC-2WY-11/55-1	PAW-FC-2WY-65/90-1	PAW-FC-2WY-F040	
3 way valve + drain pan for 2-pipe ceiling, floor-standing and ducted models 010-060. PAW-FC-3WY-11/55-1	3 way valve + drain pan for 2-pipe ceiling, floor-standing and ducted models 070-080. PAW-FC-3WY-65/90-1	3 way valve + drain pan for 2-pipe ducted model F040. PAW-FC-3WY-F040	
2 way valve + drain pan for 4-pipe ceiling, floor-standing and ducted models 010-060.	2 way valve + drain pan for 4-pipe ceiling, floor-standing and ducted models 070-080.	2 way valve + drain pan for 4-pipe ducted model F040.	
PAW-FC4-2WY-010	PAW-FC4-2WY-070	PAW-FC4-2WY-F040	
3 way valve + drain pan for 4-pipe ceiling, floor-standing and ducted model 010.	3 way valve + drain pan for 4-pipe ceiling, floor-standing and ducted models 020-060.	3 way valve + drain pan for 4-pipe ceiling, floor-standing and ducted models 070-080.	
PAW-FC4-3WY-010	PAW-FC4-3WY-020	PAW-FC4-3WY-070	

3 way valve + drain pan for 4-pipe model F040	ducted					
PAW-FC4-3WY-F040						
	Fa	an coil high static du	cted valve accessori	es		
2 way valve + drain pan for 2-pipe static ducted models E070.	high	2 way valve + drain pa static ducted models E			e + drain pan for 2-pipe high ed models E210-E240.	
———— PAW-FC2-2WY-E070		PAW-FC-2WY-150		PAW-FC2-2W	Y-E210	
3 way valve + drain pan for 2-pipe static ducted models E070.	high	3 way valve + drain pa static ducted models E			e + drain pan for 2-pipe high ed models E210-E240.	
PAW-FC2-3WY-E070		PAW-FC-3WY-150		PAW-FC2-3W	Y-E210	
2 way valve + drain pan for 4-pipe static ducted model E070.	high	2 way valve + drain pa static ducted models E			e + drain pan for 4-pipe high ed models E210-E240.	
PAW-FC4-2WY-E070		PAW-FC4-2WY-E150		PAW-FC4-2WY-E210		
3 way valve + drain pan for 4-pipe static ducted model E070.	high	3 way valve + drain pan for 4-pipe high static ducted models E150-E180.		3 way valve + drain pan for 4-pipe high static ducted models E210-E240.		
PAW-FC4-3WY-E070		PAW-FC4-3WY-E150		PAW-FC4-3WY-E210		
		Fan coil cassette	valve accessories			
2 way valve + drain pan for 2-pipe cassette models U020-U040.	_	e + drain pan for 2-pipe nodels U050-U070.	3 way valve + drain par cassette models U020-		3 way valve + drain pan for 2-pipe cassette models U050-070.	
PAW-FC2-2WY-U020	PAW-FC2-2W	Y-U050	PAW-FC2-3WY-U020		PAW-FC2-3WY-U050	
2 way valve + drain pan for 4-pipe cassette models U020-U040.	_	e + drain pan for 4-pipe nodels U050-U070.	3 way valve + drain pan for 4-pipe cassette models U020-U040.		3 way valve + drain pan for 4-pipe cassette models U050-U070.	
PAW-FC4-2WY-U020	PAW-FC4-2W	Y-U050	PAW-FC4-3WY-U020		PAW-FC4-3WY-U050	
		Fan coil wall-mount	ed valve accessories	5	I	
2 way valve for 2-pipe wall-mount	ed K007-K0	22.	3 way valve for 2-pipe	wall-mount	ed k007-K022.	
PAW-FC2-2WY-K007		 PAW-FC2-3WY-K007				
		Smart fan coi	l accessories			
Kits of 2 legs to protect the water	pipings.		Motor connection cable for units with hydraulic connections on the right.			
PAW-AAIR-LEGS-1			PAW-AAIR-RHCABLE			









Panasonic condensing units - CR Series with natural refrigerant

Panasonic's CO₂ condensing units - CR Series provide the ideal solution for supermarkets, convenience stores and gas stations.

Keeping food always fresh at right temperature in showcases or cold rooms is a very critical point. And one of the biggest challenges for those retailers has been the expensive effects of refrigeration breakdowns which can result in costly product wastage.

Panasonic PACi NX Elite can cool rooms down to 8 °C

Panasonic PACi NX Elite offers a high quality and efficient solution for high temperature refrigeration applications for facilities such as wine cellars, food processing facilities and supermarkets.

Choose the sustainable green solution by Panasonic	→ 472
Natural solution with high energy saving	→ 474
A sustainable refrigeration systems in your food retail	→ 476
The safe refrigeration systems for your healthcare business	→ 477
CO ₂ transcritical condensing units - CR Series	→ 478
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Range of CO ₂ condensing units - CR Series	→ 482
CO. Condensing units - CR Series	→ 483

Panasonic PACi NX Elite can cool rooms down to 8 °C	→ 484
Bringing nature's balance indoors	→ 486
PACi NX Series Elite wall-mounted Inverter+ · R32	→ 488
PACi NX Series Elite 4 way 90x90 cassette Inverter+ · R32	→ 489
PACi NX Series Elite ceiling Inverter+ · R32	→ 490
PACi NX Series Elite adaptive ducted unit Inverter+ · R32	→ 491











Choose the sustainable green solution by Panasonic

Environmentally friendly CO₂ condensing units - CR Series.



	CO ₂ co	Medium temperature solutions with PACi NX			
MT/LT Type	MT Type	MT/LT Type	MT Type	MT/LT Type	
	_				
	- (11)	- (11)			0 0 0
	.000	.000			
		Capacity range (kW)		Capacity range (kW)
4 (MT) / 2 (LT)	7,5	8 (MT) / 4 (LT)	15	16 (MT) / 8 (LT)	2,1 to 23,2
		Low temperature			Low temperature
V	_	~	_	~	_
		Medium temperatur	e		Medium temperature
_	~	~	_	V	V
		High Temperature			High Temperature
_	_	_	_	_	V
		Heat recovery port			Heat recovery port
_	~	~	_	~	_
	ET (Evaporat	ion Temperature) se	t points range		Room temp. set point
-45 ~ -5 °C	-20 ~ -5 °C	-45 ~ -5 °C	-20 ~ -5 °C	-45 ~ -5 °C	+8 ~ +24 °C WB
	Ro	oom size example (m	13)*		Room size example (m²)*
40 (MT) / 10 (LT)	80	80 (MT) / 20 (LT)	200	200 (MT) / 50 (LT)	From 6

st Room size is reference. Please contact to authorized Panasonic dealer for calculation.

Energy saving



Natural CO, / R744.

R744 refrigerant provides higher energy saving and lower CO₂ emission compared to R404A. Zero ODP and GWP=1 means natural substance



Inverter-

Inverter Plus System classification highlights Panasonic's highest performing systems



High efficiency compressor.

Powerful 2-stage CO₂ rotary compressor by Panasonic It delivers high performance all year around.

High connectivity



BMS connectivity.

The system can by supervised with major monitoring system.

High performance and comfortability



Systems operate extremely quiet. Minimum 33 dB(A) @10 m with 4 HP model.



Operating range up to 43 °C.

The system operates up to 43 °C, allowing for installation in various locations.



Anti corrosion coating.

Selectable fin type with or without an anti corrosion coating. The anti corrosion coating prevents salt damage for a longer lifespan.



The heat recovery port is available to cut running costs as optional. By utilizing exhausted heat generated by refrigeration to the energy source for heating.



Automatic fan

Microprocessor control automatically adjusts the outdoor fan speed in CO₂ systems for efficient operation.



warranty.

We guarantee the outdoor unit compressors in the entire range for five years.

Why CO, ?: Natural refrigerant

EU F-Gas regulation is a key priority for European countries. It ensures compliance with the Kigali Amendment supporting international climate commitments on greenhouse gases and leading the global transition to climate-friendly HFC-free technologies. Carbon dioxide (R744) is regaining its place in the refrigeration world. Driven by environmental concerns, legislation now requires increased adoption of 'alternative' refrigerants, such as CO₃.

CO₂ is an environmentally-friendly solution, with zero ODP and "GWP" (Global Warming Potential)=1 means natural substance in the atmosphere.

In Europe a step-by-step HFC reduction has been in place since the F-Gas regulation was introduced in 2015. Countries all over the world have actively been preparing to enact the necessary domestic legislation to implement the agreement to reduce the use of HFCs.

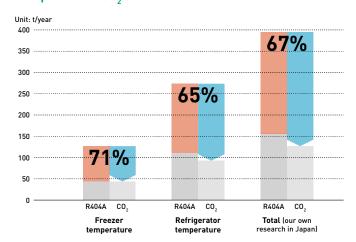
Panasonic is now able to provide a solution in Europe with CO2 refrigeration systems to prevent global warming and to support environment-friendly retail operations.

The following table shows how well R744 (CO₂) performs regarding environmental impact and safety.

ODP (Ozone Depletion Potential) = 0 - GWP (Global Warming Potential) = 1.

		Next generation refrigerant	Current refrigerant			
	CO ₂	Ammonia	Isobutane	R410A	R404A	
ODP	0	0	0	0	0	
GWP	1	0	4	2090	3920	
Flammability	Non flammable	Light flammable	Flammable	Non flammable	Non flammable	
Toxicity	No	Yes	No	No	No	

Comparison of CO, emissions





Direct influence 1) Indirect influence 2) CO, EMISSION 67 % Reduction

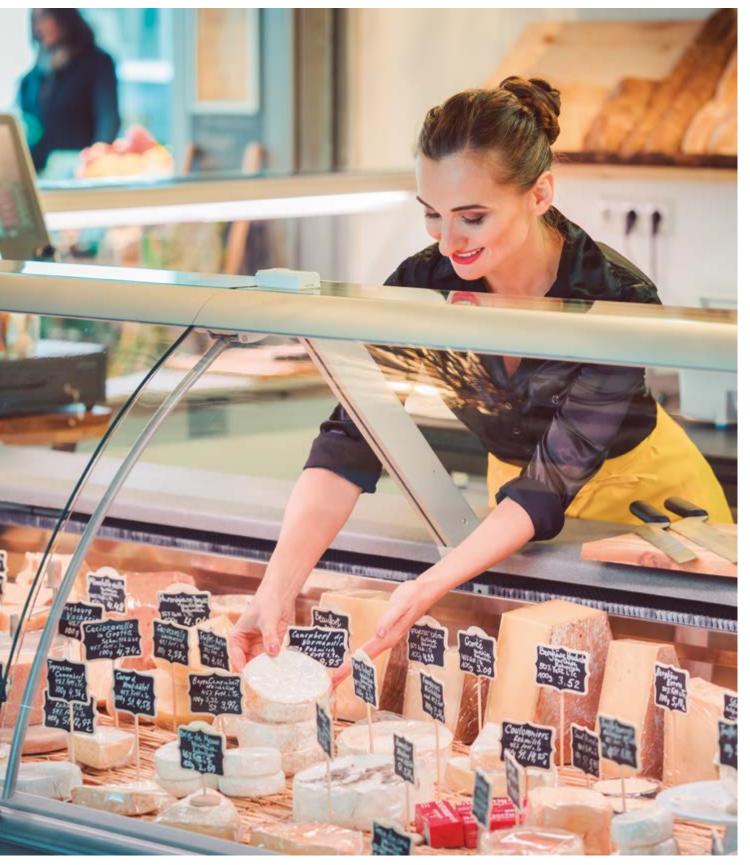
1) Direct influence presents the effect of refrigerant leakage comparing R744 (CO.) with R404A.

Indirect influence presents the effect of reinigeralit teakage comparing K744 (CO₂) with 12 Indirect influence presents CO₂ emissions linked to power consumption of CO₂ unit and conventional units.

By Panasonic research in Japan. Comparing 6 shops average for R404A inverter multi condensing

Natural solution with high energy saving

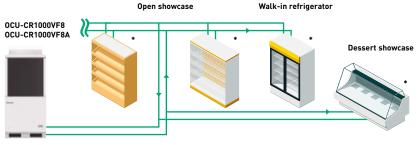
Panasonic CO₂ condensing units - CR Series with natural refrigerant: The environmentally friendly and reliable solution for convenience stores, supermarket, gas stations and cold rooms.



Showcases

Convenience stores, supermarkets, service stations.





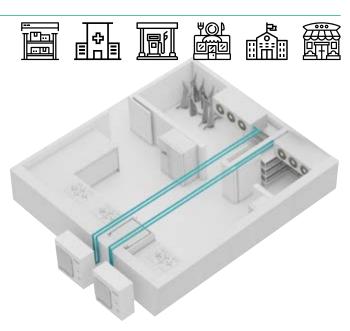
^{*} Controllers: PAW-CO2-PANEL-C or local supply.

Cold room application to keep food fresh

Multiple installation capabilities. Unparalleled flexibility:

- · Food retail applications (c-store, supermarkets, gasstations)
- · Food service applications (restaurants, canteens, schools)
- · Non-food applications (warehousing, industrial storage, healthcare)





Cold room application integrated with PACi NX Series

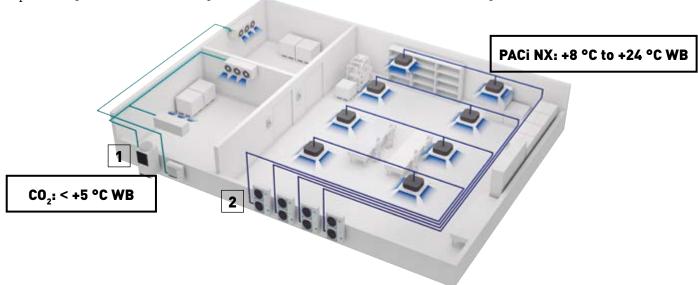
Panasonic offers various solutions for cold rooms by combining a wide range of products. Integrated with PACi NX Series, it allows for flexible design and installation.







PACi NX Series for cooling rooms between 8 °C WB and 24 °C.



A sustainable refrigeration systems in your food retail

 ${
m CO}_2$ refrigerant is the choice to curb carbon footprint of any business organization, especially to food retailers, to whom it brings key advantages. Panasonic professional strongly supports your projects to meet customer's request!



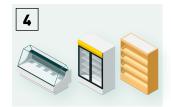
10 HP MT TYPE (0CU-CR1000VF8).



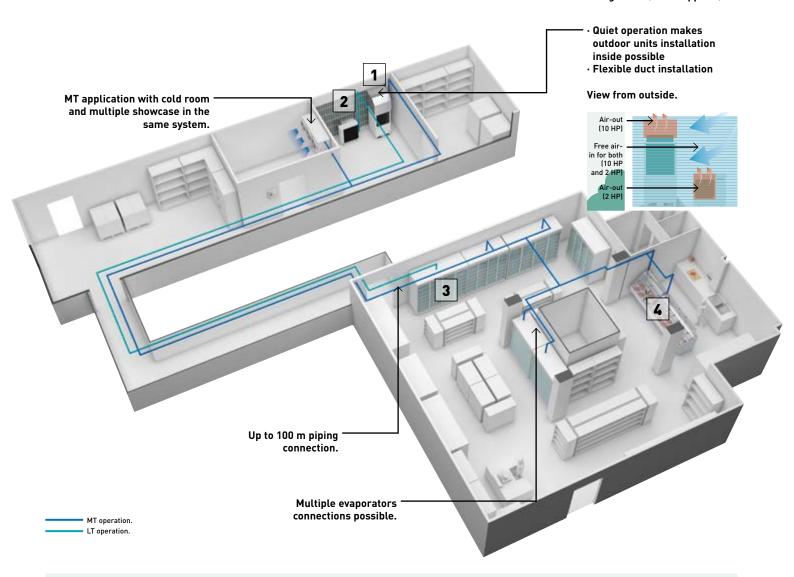
2 HP MT/LT TYPE (OCU-CR200VF5A).



Reach-in freezer (field supplied).



Serve-over counters, showcase and walk-in refrigerator (field supplied).





Nolan's Supermarket.

A particular focus of the project was to create a state-of-the-art refrigeration system operating on the 'Zero Ozone Depletion' plus ultra-low GWP of 1 natural refrigerant ${\rm CO_2}$ and as part of the scheme.

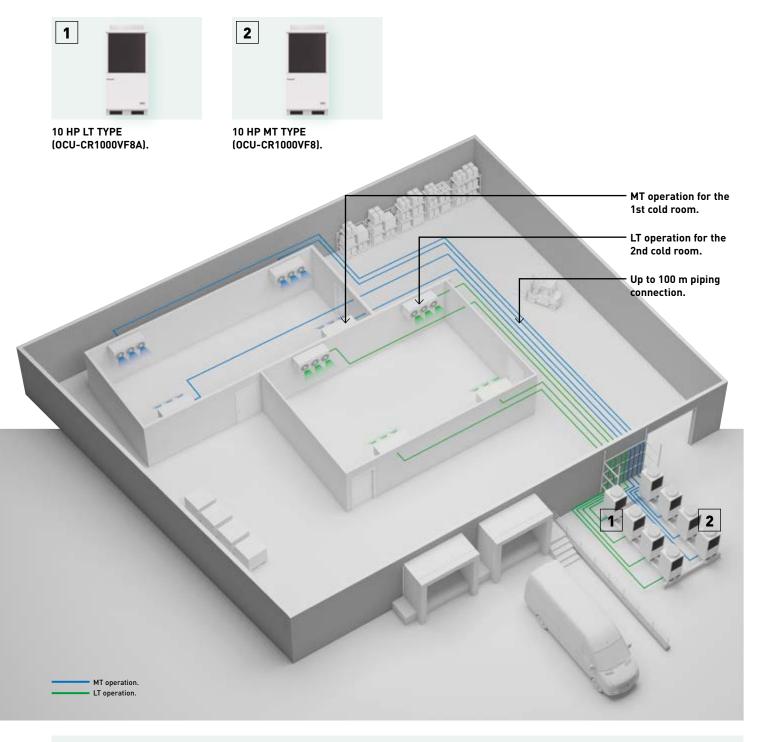
Panasonic units also has several unique thermo-physical properties.

The high performance, reliable and ultimately very efficient.

The safe refrigeration systems for your healthcare business

 ${\rm CO_2}$ is the right refrigerant to curb carbon footprint of any business organization. In addition, there are advantages specially for healthcare business.

The project example shows one of the warehouse in the healthcare laboratory which requires several cold rooms there to keep bio-products safely.





STEMCELL Technologies.

STEMCELL Technologies is a global biotechnology company that develops, manufactures and sells products and provides services that support academic and industrial scientists.

Panasonic ${\rm CO_2}$ condensing units - CR Series have been chosen to fulfill the expectation of environmental-friendly and safety requirements.

The products with reliable quality and high performance was also an essential point.

CO₂ transcritical condensing units - CR Series

4 HP MT/LT Type, a new line-up in CR Series, offers a wide range of refrigeration systems, meeting the specific needs of small retail stores.



Superior efficiency with reliable quality

- Panasonic has combined the 2-stage compressor with the split cycle for increased efficiency
- High seasonal performance.
 SEPR: Maximum 3,83 in cooling,
 1,92 in freezing 1)
- High COP at high ambient temperature

1) 200VF5A.

Flexible installation

- Set-points at medium or low temperature available depending on applications
- · Compact unit
- · Silent operation
- · Long piping length: Maximum 100 m 2)
- · High external static pressure 2)
- Transfer pressure control for stable electric expansion valve control in showcases ²

2) 1000VF8/8A.

Heat recovery port as renewable energy

- Maximum 16,7 kW of heating for free
- Optional possibility to get subsidy (depending on location)
- Easy connection process

Superior cooling capacity at each evaporating temperature

 CO_2 transcritical condensing units - CR Series have a high cooling capacity at each set point. The CO_2 2-stage compressor developed by Panasonic is designed to compress CO_2 refrigerant twice; it reduces the load in operation by half (compared to 1-stage refrigerant compression) and delivers increased durability and reliability.

Units can be programmed to run at low and medium temperatures at initial set-up. These settings can then be modified by turning a simple and user friendly rotary switch to further enhance energy savings.

MT/LT TYPE 200VF5A - 4 kW / 2 kW

3,83
SEPR
COOLING*

1,92
SEPR
FREEZING*

* SEPR values has been tested at 3-part laboratory.

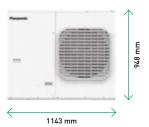




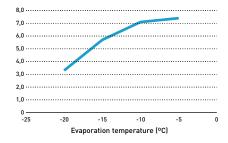
Evaporation temperature (°C)

MT TYPE 400VF8 - 7,5 kW

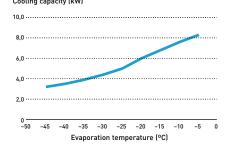
NEW MT/LT TYPE 400VF8A - 8 kW / 4 kW



OCU-CR400VF8(SL) 2). Cooling capacity (kW)



OCU-CR400VF8A(SL) 2).

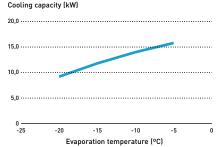


MT TYPE 1000VF8 - 15 kW

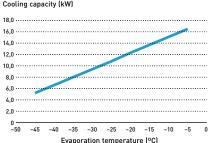
MT/LT TYPE 1000VF8A - 16 kW / 8 kW



OCU-CR1000VF8(SL) 2).



OCU-CR1000VF8A(SL) 2). Cooling capacity (kW)



temperature:18 °C.

¹⁾ Ambient temperature: 32 °C, 230 V, refrigerant: R744, suction gas

temperature: 18 °C. 2) Ambient temperature: 32 °C, 400 V, refrigerant: R744, suction gas

Technology by Panasonic

Excellent quality control established by skilled factory team. Reliability is our main target and therefore we offer compressor warranties of 5 years, and 2 year warranties on other components!



Reliable CO, technology by Panasonic

- · Reliable quality: Made in Japan
- · 10000 units sold and installed in 3700 retail operations such as convenience stores and supermarkets in Japan*
- · Excellent quality control established by skilled factory team
- · Panasonic offers 5 year warranties on compressors and 2 years on components
- · The 5 year compressor warranty matches the products long lifespan
- * As of the end of November 18.

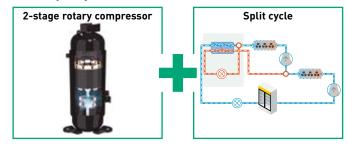
Panasonic's combined technology of the 2-stage compressor with the split cycle

The video

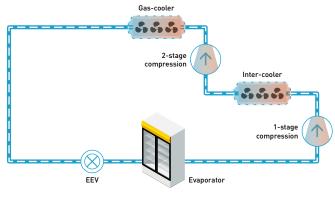
for detailed

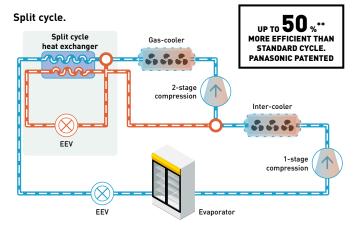
information is ready!

- · Panasonic 2-stage rotary compressor delivering powerful performance for more than 20 years
- · Split cycle* enhances cooling effect
- Available for 200VF5A and 1000VF8A models.
- ** In the case that the standard cycle with 1-stage rotary compressor was compared.



Standard cycle.





Heat recovery function for heating

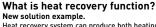
This function offers refrigeration combined with heating all in one system. The ground-breaking solution allows for increased opportunity to cut running costs by utilizing exhausted heat from refrigeration and transferring to the energy source for heating.

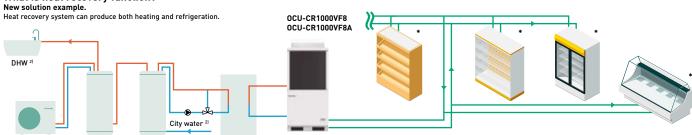
1) Under the condition: ambient temperature 32 °C, evaporation temperature -10 °C. 100 % Partial load.2) Local supply.

Water heat exchanger 2)

Sub-tank 2)

16,7 ĸw¹ OF HOT WATER FOR **FREE**





Heating outdoor 2)

Design support tool available in Panasonic PRO Club.

Panasonic has launched a new online calculator to support engineers, installers, and technicians to quickly make calculations when specifying solutions for commercial refrigeration systems. The calculator can be found on Panasonic's PRO Club.

- · Evaporation temperature selection
- · Cooling capacity calculator
- · Refrigerant pipe calculation
- · Electric expansion valves calculation
- · Refrigerant amount calculation

Ready to works on all devices, computers, tablets and smartphones!!



PRO Club **/**

www.panasonicproclub.com

or connect simply with your smartphone to the PRO Club using this QR



New control panel and electric expansion valves.

An intelligent controller has been redesigned with a compact chassis. This controller has the smart program especially for showcases and cold rooms.

Electric expansion valves (EEVs) are ready with 7 different sizes to meet precisely the field demand.



Intelligent controller with compact chassis.

- MPXPRO control fully pre-programmed for MT and LT on the same panel
- · Compact structure size: 300 x 220 x 120 mm
- Necessary cables, EEV stator, temperature and pressure probes as standard equipment
- Ultracap technology as standard equipment for emergency EEV's closing in the event of mains power failure
- Smart defrost functions, advanced superheat control, light and showcase curtain management, etc
- Own display user terminal plus keypad for programming, built-in switching power supply, Modbus, etc
- · Management of HACCP alarms

Model reference

PAW-C02-PANEL-C



Electric expansion valves (EEVs) line-up.

- EEV's E2V-CW with 3/8" ODF copper fittings for high pressure applications (CO₂)
- · Operation refrigerant temperature: -40 T 70 °C
- Maximum operating pressure for all the models 03, 05, 09, 11, 14, 18, 24 (MOP) 140 barg
- Maximum operating pressure difference for 03, 05, 09, 11, 14, 18, [MOPD] 120 bar and 24 [MOPD] 85 bar
- · Bipolar stator hermetic IP69K as standard equipment (supplied on panel)
- Mechanical strainer as standard equipment (500 mm mesh)
- Equipercentile control particularly effective at partial load with reliable operation even after 1,2 billion steps

Model reference

 PAW-E2V03CWAC0
 PAW-E2V11CWAC0
 PAW-E2V24CWAC0

 PAW-E2V05CWAC0
 PAW-E2V14CWAC0

PAW-E2V09CWAC0 PAW-E2V18CWAC0

Modbus compatibility with monitoring system

Panasonic CO_2 condensing units - CR Series can be supervised by major monitoring system such as CAREL, Eliwell, Danfoss and RDM. Monitoring system ensures the recording, monitoring and reporting of temperature conditions etc... of entire CO_2 condensing units - CR Series system at shops.

Monitoring system









Standard boss & boss-mini

AK-SM Series*

TelevisGo

DMTOUCH

M2M1-10 gateway (Model code: FDS021) is required in addition to the monitoring system.
 M2M1-10 gateway is a local supply.

New CO, service checker

The service checker is a useful tool which supports your technical tasks on the field such as commissioning, maintenance and troubleshooting for Panasonic CO_2 condensing units - CR Series. Panasonic will supply the DRX file where the Panasonic unit's library is included with the acquisition of the CO_2 service checker.

To use it, is necessary to download free Device Manager software from the Eliwell website:

Visit: https://www.eliwell.com/en/Family/DeviceManager.html using this QR.

Eliwell product name: Device Manager 100. Eliwell part number: DMP1000002000.





Main features:

- Reading and recording variable technical parameters
- Main technical parameters available*: pressures, temperatures, opening of expansion valves, states of solenoid valves, rotational speeds of the gas-cooler fan motor, frequency and compressor's current, etc.
- · Setting change of operating values possible
- · 2D graph visualization for the detailed analysis
- · Monitoring an alarm status, for example the status of the compressor oil level, etc.
- * Please check all the parameters available in the manual.

Model reference

PAW-C02-CHECKER

Range of CO₂ condensing units - CR Series

Outdoor	MT	4,0 kW	7,0 kW	8,0 kW	15,0 kW	16,0 kW
units	LT	2,0 kW		4,0 kW		8,0 kW

4 kW MT / LT (200VF5A)



OCU-CR200VF5A OCU-CR200VF5ASL

7,5 kW MT (400VF8)



OCU-CR400VF8 OCU-CR400VF8SL

7,5 kW MT / LT (400VF8A)



OCU-CR400VF8A OCU-CR400VF8ASL

15 kW MT (1000VF8)



OCU-CR1000VF8 OCU-CR1000VF8SL

16 kW MT / LT (1000VF8A)



OCU-CR1000VF8A OCU-CR1000VF8ASL

${\rm CO_2}$ Condensing units - CR Series









Standard outdoor unit			OCU-CR2	200VF5A	OCU-CR400VF8	OCU-CR	400VF8A	OCU-CR1000VF8	OCU-CR1	000VF8A
Anti corrosion coating outdoor unit		OCU-CR20	00VF5ASL	OCU-CR400VF8SL	OCU-CR400VF8ASL		OCU-CR1000VF8SL	OCU-CR10	00VF8ASL	
Type (MT: medium temp.	LT: low temp.)		MT (4 kW)	/ LT (2 kW)	MT (7,5 kW)	MT (8 kW)	/ LT (4 kW)	MT (15 kW)	MT (16 kW)	/ LT (8 kW)
	Voltage	V	220/23	30/240	380/400/415	380/4	00/415	380/400/415	380/40	00/415
Power supply	Phase		Single	phase	Three phase	Three phase		Three phase	Three	phase
	Frequency	Hz	5	0	50	Ę	i0	50	5	i0
Cooling capacity at ET -10	°C AT 32 °C	kW	3,	70	7,10	7	,7	14,00	15	,10
Cooling capacity at ET -35	5 °C AT 32 °C	kW	1,8	80	_	3	,8	_	8,	00
Evaporator connection			Mult	tiple	Multiple	Mul	tiple	Multiple	Mul	tiple
Evaporation temperature	Min ~ Max	°C	-45	~-5	-20~-5	-45	~-5	-20~-5	-45	~ -5
Ambient temperature	Min ~ Max	°C	-20 ~	-+43	-15~+43	-20	~ +45	-15~+43	-15-	~ +43
Refrigerant			R7	44	R744	R'	744	R744	R7	744
Design pressure liquid lin	ie	Мра	1	2	8		8	8		8
Design pressure suction I	ine	Мра	8	3	8		8	8		8
User system external ala input. Non-voltage contac	3		Ye	es	Yes	Y	es	Yes	Ye	es
Liquid tube electromagne	tic valve	Vac	220/23	30/240	220/230/240	220/2	30/240	220/230/240	220/23	30/240
Showcase operation ON / OFF signal. Digital input. Non-voltage contact			Yes		Yes	Yes		Yes	Yes	
Modbus communication l	ine (RS485)	Ports	2	2	2		2	2	2	
Compressor type			2- stage rotary		2- stage rotary	2- stage rotary		2- stage rotary	ry 2- stage rotary	
Dimension	HxWxD	mm	930 x 90	00 x 437	948 x 1143 x 609	948 x 11	43 x 609	1941 x 890 x 890	1941 x 890 x 890	
Net weight		Kg	7	0	136	1	36	293	32	20
D: : : :	Suction pipe Inch		3/8 (9,52)		1/2 (12,70)	1/2 (12,70)		3/4(19,05) 3/4(19,05)
Piping diameter	Liquid pipe	Inch (mm)	1/4(3/8(9,52) 1/2(12,70) 1/2(12,70) 3/4(19,05) 1/4(6,35) 3/8(9,52) 3/8(9,52) 5/8(15,88)		5/8 (15,88)				
Length of connection pipi	ng	m	2	5	50	Ę	i0	100 1]	100 1 100 1	
PED		CAT	I		II	II		II	I	I
Air flow		m³/min	54		59	59		220	22	20
External static pressure		Pa	17		50	50		58	58	
Heat recovery port			_		_	Yes		Yes —		es
Standard performance										
Ambient temperature		°C	3	2	32	3	12	32	3	12
Evaporating temperature		°C	-10	-35	-10	-10	-35	-10	-10	-35
Cooling capacity		kW	3,70	1,80	7,10	7,7	3,8	14,00	15,10	8,00
Power consumption		kW	1,79	1,65	4,00	4,5	3,8	8,20	8,20	7,57
Nominal load ampere		A	7,94	7,26	6,14	7,2	6,2	12,60	12,60	11,60
Sound pressure		dB(A)	35,5 2)	35,5 2)	33 ³⁾	33 3]	33 3)	36,0 4)	36,0 4] 36,0 4]	
Necessary accessories										
Drier filter liquid line, dia	lter liquid line, diameter 6,35 mm D-152T		Yes (included: delivered with the unit)		Yes (included: delivered with the unit)	Yes (included: delivered with the unit)			-	
Drier filter liquid line, dia 15,88 mm	meter	D-155T	_	_	_	Yes (included		Yes (included: delivered with the unit)		cluded: rith the unit)
Suction filter, diameter 19 diameter welding)	9,05 mm (outer	S-008T	_	-	Yes (included: delivered with the unit)		cluded: rith the unit)	Yes (included: delivered with the unit)		cluded: rith the unit)

1) PZ-68S (refrigeration oil) must be added if >50 m. 2) ET-10 °C, 65 S-1, 10 m from product. 3) ET-10 °C, 80 S-1, 10 m from product. 4) ET -10 °C, 60 S-1, 10 m from product.

Accessories							
PAW-C02-PANEL-C	Panel with MPXPRO control, stator, probes, etc.						
SPK-TU125	Tube connector adaptor for vacuum and service						
CZ-C02LBR0L500	Lubrication oil PZ-68S (0,5 L)						
PAW-E2V03CWAC0	Electric expansion valve 3,8" ODF high pressure without stator, size 3						
PAW-E2V05CWAC0	Electric expansion valve 3,8" ODF high pressure without stator, size 5						
PAW-E2V09CWAC0	Electric expansion valve 3,8" ODF high pressure without stator, size 9						
PAW-E2V11CWAC0	Electric expansion valve 3,8" ODF high pressure without stator, size 11						
PAW-E2V14CWAC0	Electric expansion valve 3,8" ODF high pressure without stator, size 14						
PAW-E2V18CWAC0	Electric expansion valve 3,8" ODF high pressure without stator, size 18						
PAW-E2V24CWAC0	Electric expansion valve 3,8" ODF high pressure without stator, size 24						
PAW-C02-CHECKER	CO ₂ service checker						

Spare parts for service and maintenance						
80203514138000	Suction filter S-008T, diameter 19.05 mm (outer diameter welding).					
80203517115003	Lubrication oil PZ-68S (4,0 L)*					
80203517117000	Lubrication oil PZ-68S (0,5 L)*					
80203513180000	Filter dryer D-152T (type CO-082-S)					
80203513179000	Filter dryer D-155T (type CO-085-S)					

^{*} You can find the PZ-68S oil "Safety Sheet" in the SAFETY section of our pipe selection software, available on our PRO Club platform.





















Panasonic PACi NX Elite can cool rooms down to 8 °C

Panasonic PACi NX Elite offers a high quality and efficient solution for high temperature refrigeration applications for facilities such as wine cellars, food processing facilities and supermarkets.

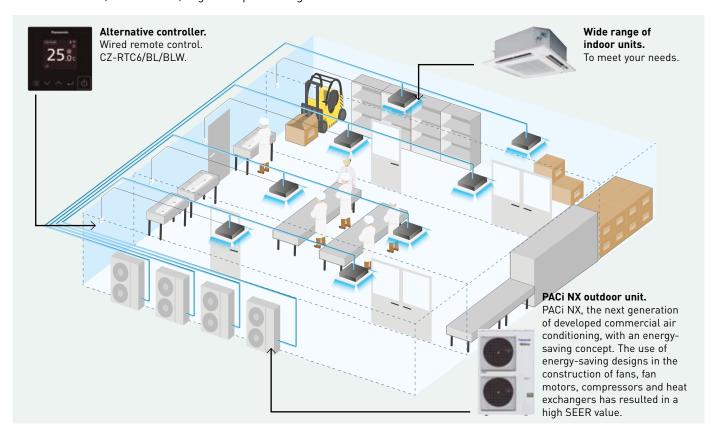


Solutions for cold rooms. Set the room temperature to 8 °C

Complete range from 2,1 to 23,2 kW. This unique solution is perfect for:

Wine cellars, ice cream factories, flower shops, supermarkets, grain stores, food storage, food processing, food distribution, lunchrooms, vegetable processing...

Just like all the indoor units in the PACi NX range, these units are compatible with all Panasonic control and monitoring solutions, which can be scaled from controlling a single zone to monitoring geographically distributed facilities.



- · Flexibility with different type of indoors
- · Benefits of hydroxyl radicals
- · Out of the box solution from Panasonic. Outdoor, indoor, controller comes as package
- · Provides wide scale of control options (individual, central, cloud)
- Redundancy for 2 systems with CONEX controller range and up to 3 systems with PAW-PACR3 optional redundancy controller

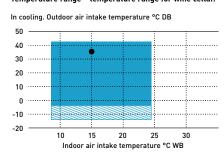


Wine cellars and special low temperature rooms

One of the main features of the PACi NX series is the possibility of adjusting the product for special applications, not just for regular cooling applications. The purpose of this product information is to explain in detail these special applications that need a cooling operation to maintain the room temperature at $+8 \sim +24$ °C WB (or $+10 \sim +30$ °C DB). In order to do this in terms of enthalpy, the indoor unit needs to be overdimensioned and certain parameters need to be adjustable.

Temperature range for wine cellar		
	Indoor	Outdoor
Cooling operation	+8 ~ +24 °C WB	-5 (-15) ~ 43 °C DB

Temperature range – temperature range for wine cellar.



Only allowed after installation of wind and snow vents.

Area where cooling capacity is established for this purpose.

Bringing nature's balance indoors



nanoe™ X, technology with the benefits of hydroxyl radicals.

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe $^{\text{TM}}$ X technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and more pleasant place to be.

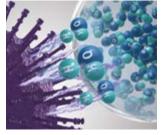


Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent – hydroxyl radicals – indoors to help create an ideal environment

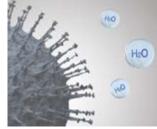
Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



1 | nanoe™ X reliably reaches pollutants.



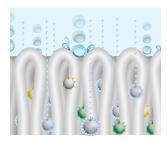
2 | Hydroxyl radicals denature pollutants



3 | Pollutants activity is inhibited.

What is unique about nanoe™ X?

Effective on fabrics and surfaces.



1 | At one billionth of a metre, nanoe™ X is much smaller than steam and can deeply penetrate cloth fabrics to deodorise.

Longer lifespan.



2 | Contained in tiny water particles, nanoe™ X has a longer lifespan to spread easily around the room.

Huge quantity.



3 | nanoe X Generator Mark 2 produces 9,6 trillion hydroxyl radicals per second. Greater amounts of hydroxyl radicals contained in nanoe™ X lead to higher performance on inhibition of pollutants.

Maintenance-free.



4 No maintenance, no replacement required. nanoe™ X is a filter free solution that does not require maintenance, as its atomisation electrode is enveloped with water during its generation process and it

is made with Titatium.

7 effects of nanoe™ X - Panasonic unique technology

Deodorises

Capacity to inhibit 5 types of pollutants

Moisturises















us substances Skin

Refer to https://aircon.panasonic.eu for more details and validation data.

nanoe™ X, internationally-validated technology in testing facilities

The effectiveness of nanoe™ X technology has been tested by 3rd party laboratories in Germany, France, Denmark, Malaysia and Japan.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect. nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.

Test results conducted under controlled laboratory conditions. Performance of nanoe™ X might differ in real life environment.

	Tested contents		Result	Capacity	Time	Testing organisation	Report No.
rne	Virus	Bacteriophage ФX174	99,7 % inhibited	Approx. 25 m ³	6 h	Kitasato Research Center for Environmental Science	24_0300_1
Airborne	Bacteria	Staphylococcus aureus	99,9 % inhibited	Approx. 25 m³	4 h	Kitasato Research Center for Environmental Science	2016_0279
		SARS-CoV-2	91,4 % inhibited	6,7 m³	8 h	Texcell (France)	1140-01 C3
		SARS-CoV-2	99,9 % inhibited	45 L	2 h	Texcell (France)	1140-01 A1
	Virus	Xenotropic murine leukemia virus	99,999 % inhibited	45 L	6 h	Charles River Biopharmaceutical Services GmbH	_
Adhered		Influenza (H1N1 subtype)	99,9 % inhibited	1 m³	2 h	Kitasato Research Center for Environmental Science	21_0084_1
Adhe		Bacteriophage ФX174	99,80% inhibited	25 m³	8 h	Japan Food Research Laboratories	13001265005-01
	Bacteria	Staphylococcus aureus	99,9 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Pollen	Ambrosia pollen	99,4 % inhibited	20 m³	8 h	Danish Technological Institute	868988
	Odours	Cigarette smoke odour	Odour intensity reduced by 2,4 levels	Approx. 23 m³	0,2 h	Panasonic Product Analysis Center	4AA33-160615-N04

First nanoe™ device was developed by Panasonic in 2003

Generator

nanoeTM

480 billion hydroxyl radicals/sec

Mark 1 - 2016

Mark 2 - 2019

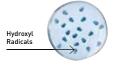
4,8 trillion hydroxyl radicals/sec

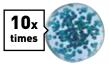
9,6 trillion hydroxyl radicals/sec

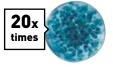
Improving Protection

2417

Ion particle structure







nanoe™ X

nanoe™ X: improving protection 24/7



Acts to clean the work area, such as meat or fish handling in hotel kitchens, food handling in industrial processes, laboratories, wine cellars, etc. So that the indoor environment can be a cleaner and more pleasant place to be all day long and keep the processes in better bacterial conditions.

nanoe™ X works together with the cooling function when during the day but can work independently when the area is not occupied.

Give the system the strength to increase the protection of persons, air, colds stuffs and working surfaces with nanoe TM X technology and convenient control via the Panasonic Comfort Cloud App.

Cleans the air even when there is no work activity.

Leave the nanoe™ X mode ON to inhibit certain pollutants and deodorize before start the work activity again.

Improves your environment and better protects the products handled when you are or not at work.

Enjoy a cleaner comfortable space both when working indoors and simply when it comes to better protecting products in the cold room.

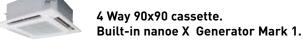
Panasonic Heating & Cooling Solutions is incorporating nanoe™ technology in a wide range of equipment



Wall-mounted.
Built-in nanoe X Generator Mark 2.



Built-in nanoe X Generator Mark 2.





Adaptive ducted unit.
Built-in nanoe X Generator Mark 2.

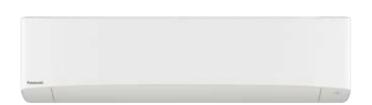


nne™ X as a standard

PACi NX Series Elite wall-mounted Inverter+ · R32

For light refrigeration applications.





							Low temperature			
Kit				36	50	60	71	100	125	140
Indoor u	nit - 1			S-6010PK3E	S-6010PK3E	S-6010PK3E	S-6010PK3Ex2	S-6010PK3E	S-6010PK3E	S-6010PK3E
Indoor u	nit - 2			_	_	_	_	S-6010PK3E	S-6010PK3E	S-6010PK3E
Outdoor	unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5/8	U-100PZH3E5/8	U-125PZH3E5/8	U-140PZH3E5/8
	Indoor	Cooling capacity	kW	3,50	4,90	5,80	6,90	9,30	11,60	13,60
	15 °C	EER		4,55	3,83	3,56	3,14	3,60	3,09	3,19
Outdoor	(WB)	Input power	kW	0,77	1,28	1,63	2,20	2,58	3,75	4,27
Outdoor	Indoor	Cooling capacity	kW	3,19	4,46	5,28	6,28	8,46	10,56	12,38
35 °C	12 °C	EER		4,22	3,55	3,30	2,91	3,35	2,87	2,96
(DB)	(WB)	Input power	kW	0,75	1,25	1,60	2,16	2,53	3,68	4,18
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,27	4,14	5,58	6,96	8,16
		EER		3,50	2,94	2,14	2,41	2,77	2,38	2,45
		Input power	kW	0,60	1,00	1,52	1,72	2,01	2,93	3,33
	Indoor	Cooling capacity	kW	3,75	5,24	5,92	La L7,04 E	U G 9,95	12,41	14,55
	15 °C	EER		5,29	4,45	3,86	3,40	4,19	3,60	3,70
	(WB)	Input power	kW	0,71	1,18	1,53	2,07	2,37	3,45	3,93
Outdoor	Indoor	Cooling capacity	kW	3,43	4,80	5,39	6,42	9,11	11,37	13,33
30 °C	12 °C	EER		4,95	4,17	3,60	3,17	3,93	3,37	3,47
(DB)	(WB)	Input power	kW	0,69	1,15	1,50	2,02	2,32	3,38	3,84
	Indoor	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	6,96	8,16
	8 °C	EER		3,90	3,28	2,97	2,61	3,09	2,65	2,73
	(WB)	Input power	kW	0,54	0,90	1,17	1,58	1,81	2,63	2,99
		Dimension (HxWxD)	mm	302 x 1120 x 236	302 x 1120 x 236					
Indoor ur	ndoor unit Net weight		kg	14	14	14	14	14	14	14
		nanoe X Generator		Mark 2	3,75 10,56 2,87 3,68 6,96 2,38 2,93 12,41 3,60 3,45 11,37 3,37 3,38 6,96 2,65 2,63 302×1120×236	Mark 2				
Outdoa:::	.mit	Dimension (HxWxD)	mm	695 x 875 x 320	695 x 875 x 320	695 x 875 x 320	996 x 940 x 340	1416 x 940 x 340	1416x940x340	1416 x 940 x 340
Outdoor	unit	Net weight	kg	42	42	43	65	98	98	98

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3	Infrared remote controller
PAW-PACR3	Interfaces to run 3 units on back-up and alternative run

Tray for condenser water compatible with outdoor elevation platform
Outdoor base ground support for noise and vibration absorption
Outdoor elevation platform 400 x 900 x 400 mm
Econavi energy savings sensor

Technical focus

- · Modern design with flat face and compact size
- · DC fan for better efficiency and control
- · Six directional piping outlet
- nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- · Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Closed discharge port

When the unit is turned OFF, the flap closes completely to prevent dust getting into the unit and to keep the equipment clean.

Quiet operation

These units are among the quietest in the industry, making them ideal for all types of installations.

Piping outlet in six directions

Piping outlet is possible in six directions of; right, right rear, right bottom, left, left rear and left bottom, making the installation work more flexible.

nanoe™ X as a standard.

PACi NX Series Elite 4 way 90x90 cassette Inverter+ · R32

For light refrigeration applications.



							Le	ow temperatu	re			
Kit				36	50	60	71	100	125	140	200	250
Indoor u	nit - 1			S-6071PU3E	S-6071PU3E	S-6071PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E	S-1014PU3E
Indoor u	nit - 2			_	_	_	_	_	_	S-1014PU3E	S-1014PU3E	S-1014PU3E
Outdoor	unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5/8	U-100PZH3E5/8	U-125PZH3E5/8	U-140PZH3E5/8	U-200PZH2E8	U-250PZH2E8
	Indoor	Cooling capacity	kW	3,50	4,90	5,80	6,90	9,30	11,60	13,60	18,50	23,20
	15 °C	EER		5,12	4,05	3,81	3,65	3,97	3,46	3,51	3,38	2,97
	(WB)	Input power	kW	0,68	1,21	1,52	1,89	2,34	3,35	3,88	5,48	7,82
Outdoor	Indoor	Cooling capacity	kW	3,19	4,46	5,28	6,28	8,46	10,56	12,38	16,84	21,11
35 °C	12 °C	EER		4,78	3,76	3,54	3,39	3,69	3,22	3,25	3,13	2,75
(DB)	(WB)	Input power	kW	0,67	1,19	1,49	1,85	2,29	3,28	3,80	5,37	7,66
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	9,43	8,16	11,10	13,92
		EER		3,96	3,12	2,94	2,81	3,06	2,21	2,70	2,60	2,28
		Input power	kW	0,53	0,94	1,19	1,47	1,83	4,27	3,03	4,27	6,10
	Indoor 15 °C	Cooling capacity	kW	3,75	5,24	5,92	G _{7,04} L ₆	a L 9, 95 E	U12,41L C	14,55	20,17	25,29
		EER		5,99	4,71	4,14	3,96	4,62	4,03	4,08	4,00	3,51
	(WB)	Input power	kW	0,63	1,11	1,43	1,78	2,15	3,08	3,57	5,04	7,19
Outdoor	Indoor	Cooling capacity	kW	3,43	4,80	5,39	6,42	9,11	11,37	13,33	18,50	23,20
30 °C	12 °C	EER		5,60	4,41	3,86	3,69	4,33	3,77	3,82	3,75	3,30
(DB)	(WB)	Input power	kW	0,61	1,09	1,40	1,74	2,11	3,02	3,49	4,93	7,04
	Indoor	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	6,96	8,16	11,10	13,92
	8 °C	EER		4,41	3,47	3,18	3,04	3,41	2,97	3,00	2,89	2,54
	(WB)	Input power	kW	0,48	0,85	1,09	1,36	1,64	2,35	2,72	3,84	5,47
		Dimension (HxWxD)	mm	256x840x840	256x840x840	256x840x840	319x840x840	319x840x840	319x840x840	319x840x840	319x840x840	319x840x840
Indoor ur	nit	Net weight	kg	19	19	20	20	25	25	25	25	25
		nanoe X Generator		Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1	Mark 1
Outdoor	ınit	Dimension (HxWxD)	mm	695x875x320	695x875x320	695x875x320	996x940x340	1416x940x340	1416x940x340	1416x940x340	1500x980x370	1500x980x370
Julauor	annt	Net weight	kg	42	42	43	65	98	98	98	117	128

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRU3W	Infrared remote controller and receiver

Accessories	
CZ-KPU3AW	Econavi exclusive panel
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-FDU3+CZ-ATU2	Fresh air-intake kit

Technical focus

- · High performance turbo fan
- · Econavi: An optional intelligent sensor to reduce waste of energy
- · nanoeTM X (Generator Mark 1= 4,8 trillion hydroxyl radicals/sec) as standard for better indoor air quality, indoor unit internal cleaning with nanoeTM X and dry operation
- · Lower noise in slow fan operation
- \cdot Light weight, easy piping and integrated drain pump for quick installation
- \cdot Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- · High volume fresh air input with optional air-intake plenum and chamber (CZ-FDU3+CZ-ATU2)



PACi NX Series Elite ceiling Inverter+ · R32

For light refrigeration applications.



							Le	ow temperatu	re			
Kit			36	50	60	71	100	125	140	200	250	
Indoor ur	nit - 1			S-6071PT3E	S-6071PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E	S-1014PT3E
Indoor ur	nit - 2			_	_	_	_	_	_	S-1014PT3E	S-1014PT3E	S-1014PT3E
Outdoor (unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5/8	U-100PZH3E5/8	U-125PZH3E5/8	U-140PZH3E5/8	U-200PZH2E8	U-250PZH2E8
	Indoor	Cooling capacity	kW	3,50	4,90	5,80	6,90	9,30	11,60	13,60	18,50	23,20
	15 °C	EER		4,67	3,71	3,63	3,67	3,92	3,30	3,45	3,32	2,92
	(WB)	Input power	kW	0,75	1,32	1,60	1,88	2,37	3,52	3,94	5,57	7,94
Outdoor	Indoor	Cooling capacity	kW	3,19	4,46	5,28	6,28	8,46	10,56	12,38	16,84	21,11
35 °C	12 °C	EER		4,33	3,45	3,37	3,41	3,64	3,06	3,21	3,08	2,71
(DB)	(WB)	Input power	kW	0,74	1,29	1,57	1,84	2,32	3,45	3,86	5,46	7,78
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	6,51	8,16	11,10	13,92
		EER		3,59	2,86	2,79	2,82	3,02	2,98	2,66	2,55	2,25
		Input power	kW	0,59	1,03	1,25	1,47	1,85	2,19	3,07	4,34	6,19
	Indoor 15 °C	Cooling capacity	kW	3,75	5,24	5,92	7,04	a L _{9,95} E	12,41	14,55	20,17	25,29
		EER		5,43	4,32	3,93	3,98	4,56	3,83	4,01	3,94	3,46
	(WB)	Input power	kW	0,69	1,21	1,50	1,77	2,18	3,24	3,62	5,12	7,30
Outdoor	Indoor	Cooling capacity	kW	3,43	4,80	5,39	6,42	9,11	11,37	13,33	18,50	23,20
30 °C	12 °C	EER		5,08	4,04	3,66	3,71	4,27	3,59	3,76	3,69	3,25
(DB)	(WB)	Input power	kW	0,68	1,19	1,47	1,73	2,13	3,17	3,55	5,01	7,15
	Indoor	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	6,96	8,16	11,10	13,92
	8 °C	EER		4,00	3,18	3,02	3,06	3,36	2,82	2,96	2,85	2,50
	(WB)	Input power	kW	0,53	0,92	1,15	1,35	1,66	2,46	2,76	3,90	5,56
		Dimension (HxWxD)	mm	235x1275x690	235x1275x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690	235x1590x690
Indoor ur	nit	Net weight	kg	34	34	40	40	40	40	40	40	40
		nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2				
0.44		Dimension (HxWxD)	mm	695x875x320	695x875x320	695x875x320	996x940x340	1416x940x340	1416x940x340	1416x940x340	1500x980x370	1500x980x370
Outdoor (unit	Net weight	kg	42	42	43	65	98	98	98	117	128

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRT3	Infrared remote controller and receiver

Tray for condenser water compatible with outdoor elevation platform
Outdoor base ground support for noise and vibration absorption
Outdoor elevation platform 400 x 900 x 400 mm
Econavi energy savings sensor

Technical focus

- · Wide air distribution for large rooms
- · Horizontal air flow reaches maximum 9,5 m
- · Fresh air connection available on the unit
- · Slim design with 235 m height fits narrow space
- · Silent operation
- · nanoeTM X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for better indoor air quality
- · Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®
- · Twin, Triple and Double-twin split options
- Easy connection and control of external fan or ERV using the connector PAW-FDC on the indoor unit PCB. The external device can be controlled by the remote control of the Panasonic indoor unit

Further comfort improvement with airflow distribution

Horizontal air flow reaches maximum 9,5 m. This is ideal for wide rooms.

The wide air discharge opening expands the air flow to the left and right. The unpleasant feeling caused when the air flow directly hits the human body is prevented by the "Draft prevention position", which changes the swing width, so that the degree of comfort is increased.

nance™ X as a standard.

PACi NX Series Elite adaptive ducted unit Inverter+ · R32

For light refrigeration applications.



							L	ow temperatu	re			
Kit	Kit			36	50	60	71	100	125	140	200	250
Indoor ur	nit - 1			S-6071PF3E	S-6071PF3E	S-6071PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E	S-1014PF3E
Indoor ur	nit - 2			_	_	_	_	_	_	S-1014PF3E	S-1014PF3E	S-1014PF3E
Outdoor	unit			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5/8	U-100PZH3E5/8	U-125PZH3E5/8	U-140PZH3E5/8	U-200PZH2E8	U-250PZH2E8
	Indoor	Cooling capacity	kW	3,50	4,90	5,80	0,00	9,30	11,60	13,60	18,50	23,20
	15 °C	EER		3,98	3,20	3,52	3,50	3,94	3,36	3,64	3,50	3,08
	(WB)	Input power	kW	0,88	1,53	1,65	1,97	2,36	3,45	3,74	5,29	7,54
Outdoor	Indoor	Cooling capacity	kW	3,19	4,46	5,28	6,28	8,46	10,56	12,38	16,84	21,11
35 °C	12 °C	EER		3,69	2,97	3,26	3,25	3,66	3,12	3,38	3,25	2,86
(DB)	(WB)	Input power	kW	0,86	1,50	1,62	1,93	2,31	3,38	3,67	5,18	7,39
	Indoor 8 °C (WB)	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	6,96	8,16	11,10	13,92
		EER		3,06	2,46	2,70	2,69	3,03	2,59	2,80	2,69	2,37
		Input power	kW	0,69	1,19	1,29	1,54	1,84	2,69	2,92	4,13	5,88
	Indoor 15 °C	Cooling capacity	kW	3,75	5,24	5,92	7,04	3 L 9,95 C	U12,41L G	14,55	20,17	25,29
		EER		4,63	3,72	3,81	3,80	4,58	3,91	4,23	4,14	3,65
	(WB)	Input power	kW	0,81	1,41	1,55	1,85	2,17	3,17	3,44	4,87	6,94
Outdoor	Indoor	Cooling capacity	kW	3,43	4,80	5,39	6,42	9,11	11,37	13,33	18,50	23,20
30 °C	12 °C	EER		4,33	3,49	3,55	3,54	4,29	3,66	3,96	3,89	3,42
(DB)	(WB)	Input power	kW	0,79	1,38	1,52	1,81	2,12	3,11	3,37	4,76	6,79
	Indoor	Cooling capacity	kW	2,10	2,94	3,48	4,14	5,58	6,96	8,16	11,10	13,92
	8 °C	EER		3,41	2,75	2,93	2,92	3,38	2,88	3,12	3,00	2,64
	(WB)	Input power	kW	0,62	1,07	1,19	1,42	1,65	2,42	2,62	3,70	5,28
		Dimension (HxWxD)	mm	250x1000x730	250x1000x730	250x1000x730	250x1400x730	250x1400x730	250x1400x730	250x1400x730	250x1400x730	250x1400x730
Indoor ur	nit	Net weight	kg	30	30	30	39	39	39	39	39	39
		nanoe X Generator		Mark 2	Mark 2	Mark 2	Mark 2	Mark 2				
Outdoor i	.mit	Dimension (HxWxD)	mm	695x875x320	695x875x320	695x875x320	996x940x340	1416x940x340	1416x940x340	1416x940x340	1500x980x370	1500x980x370
Outdoor (ınıt	Net weight	kg	42	42	43	65	98	98	98	117	128

Accessories	
CZ-RTC6	CONEX wired remote controller (non-wireless)
CZ-RTC6BL	CONEX wired remote controller with Bluetooth®
CZ-RTC6BLW	CONEX wired remote controller with Wi-Fi and Bluetooth®
CZ-RTC5B	Wired remote controller with Econavi function and datanavi
CZ-RWS3 + CZ-RWRC3	Infrared remote controller and receiver
PAW-WTRAY	Tray for condenser water compatible with outdoor elevation platform

Accessories	
PAW-GRDBSE20	Outdoor base ground support for noise and vibration absorption
PAW-GRDSTD40	Outdoor elevation platform 400 x 900 x 400 mm
CZ-CENSC1	Econavi energy savings sensor
CZ-56DAF2	Air outlet plenum for S-3650PF3E
CZ-90DAF2	Air outlet plenum for S-6071PF3E
CZ-160DAF2	Air outlet plenum for S-1014PF3E

Technical focus

- · 2 installation possibilities (horizontal / vertical)
- · Maximum external static pressure: 150 Pa
- · Selectable inlet air position (rear / bottom entry)
- \cdot Improved drain pan suitable for both horizontal / vertical installation
- · Drain pump included
- nanoe™ X (Generator Mark 2= 9,6 trillion hydroxyl radicals/sec) as standard for the long duct piping case*
- · Wired remote control CZ-RTC6BL allows easy system setting via Bluetooth®

2 installation possibilities (horizontal / vertical)

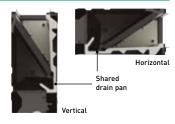
Vertical installation is newly available. ESP 150Pa, sufficient for remotely installing units away from the rooms.



Improved drain pan design

Drain pan is shared in both cases horizontal and vertical installation.

No need to modify the unit.



^{*} The performance of nanoe™ X air can be expected even by 10 m long duct by Panasonic internal survey.





Dimensions

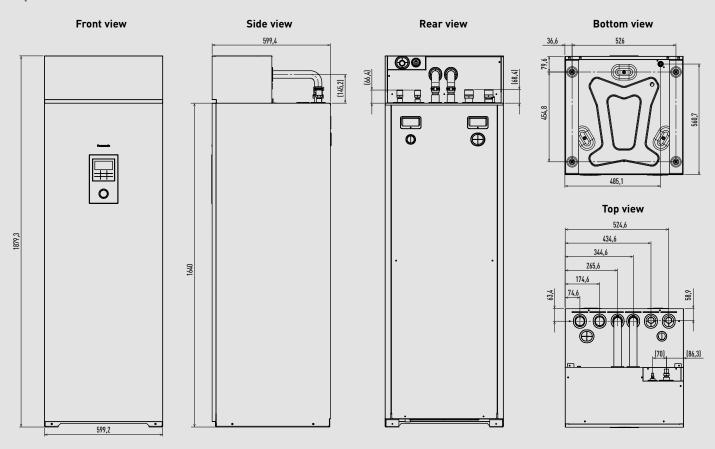
Aquarea	
Aquarea EcoFleX	→ 494
All in One H Generation	→ 495
All in One J Generation	\rightarrow 496
All in One Compact	→ 496
Hydraulic module J and H Generation	→ 497
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Outdoor units	→ 498
Smart fan coils	\rightarrow 500
Buffer tank	\rightarrow 501
Enamelled tanks	\rightarrow 501
Stainless steel tanks	\rightarrow 503
Heat recovery ventilation unit	→ 503
DHW Stand Alone	\rightarrow 504
Domestic	
Heatcharge VZ	\rightarrow 505
Etherea	\rightarrow 506
TZ super-compact	\rightarrow 508
BZ super-compact	→ 510
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Floor console	\rightarrow 512
Low static pressure hide-away	\rightarrow 513
Outdoor units Free Multi System Z	\rightarrow 514
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Commercial	
Wall-mounted Professional	→ 516
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4 way 60x60 cassette	→ 519
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Adaptive ducted unit	\rightarrow 524
High static pressure hide-away	\rightarrow 525
4 way 60x60 cassette	\rightarrow 526
Outdoor units	\rightarrow 526
PACi PRO-HT Tank	\rightarrow 530
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Mini EC0i LZ2 Series	→ 531
Mini EC0i LE2/LE1 Series	\rightarrow 532
2-Pipe EC0i EX ME2 Series	\rightarrow 533
3-Pipe EC0i EX MF3 Series	\rightarrow 533
ECO G GE3 Series	\rightarrow 534
ECO G GF3 Series	\rightarrow 535
3-Pipe Control Box Kit	\rightarrow 536
2-Pipe Hybrid EHP / GHP	→ 536
Water heat exchanger	→ 538
U2 Type 4 way 90x90 cassette	→ 539
Y3 Type 4 way 60x60 cassette	\rightarrow 540
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L1 Type 2 Way Cassette	\rightarrow 541
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F3 Type variable static pressure adaptive duct	→ 543
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M1 Type slim variable static pressu hide-away concealed duct	re → 545
E2 Type high static pressure hide-away	→ 546
	→ 546 → 546
pressure hide-away	
pressure hide-away Heat recovery with DX coil	→ 546
pressure hide-away Heat recovery with DX coil T2 Type ceiling	→ 546 → 547
pressure hide-away Heat recovery with DX coil T2 Type ceiling K2 Type wall-mounted	$\begin{array}{c} \rightarrow 546 \\ \rightarrow 547 \\ \rightarrow 548 \end{array}$
pressure hide-away Heat recovery with DX coil T2 Type ceiling K2 Type wall-mounted G1 Type floor console	$\begin{array}{c} \rightarrow 546 \\ \rightarrow 547 \\ \rightarrow 548 \\ \rightarrow 549 \end{array}$
pressure hide-away Heat recovery with DX coil T2 Type ceiling K2 Type wall-mounted G1 Type floor console P1 Type floor-standing	$ \begin{array}{r} $
pressure hide-away Heat recovery with DX coil T2 Type ceiling K2 Type wall-mounted G1 Type floor console P1 Type floor-standing R1 Type concealed floor-standing	$\begin{array}{c} \rightarrow 546 \\ \rightarrow 547 \\ \rightarrow 548 \\ \rightarrow 549 \\ \rightarrow 549 \\ \rightarrow 550 \\ \end{array}$
pressure hide-away Heat recovery with DX coil T2 Type ceiling K2 Type wall-mounted G1 Type floor console P1 Type floor-standing R1 Type concealed floor-standing Hydrokit for ECOi, water at 45 °C	$\begin{array}{c} \rightarrow 546 \\ \rightarrow 547 \\ \rightarrow 548 \\ \rightarrow 549 \\ \rightarrow 549 \\ \rightarrow 550 \\ \rightarrow 550 \end{array}$
pressure hide-away Heat recovery with DX coil T2 Type ceiling K2 Type wall-mounted G1 Type floor console P1 Type floor-standing R1 Type concealed floor-standing Hydrokit for ECOi, water at 45 °C ECOi PRO-HT Tank	$\begin{array}{c} \rightarrow 546 \\ \rightarrow 547 \\ \rightarrow 548 \\ \rightarrow 549 \\ \rightarrow 549 \\ \rightarrow 550 \\ \rightarrow 550 \\ \rightarrow 551 \end{array}$
pressure hide-away Heat recovery with DX coil T2 Type ceiling K2 Type wall-mounted G1 Type floor console P1 Type floor-standing R1 Type concealed floor-standing Hydrokit for ECOi, water at 45 °C ECOi PRO-HT Tank Smart fan coils	$\begin{array}{c} \rightarrow 546 \\ \rightarrow 547 \\ \rightarrow 548 \\ \rightarrow 549 \\ \rightarrow 549 \\ \rightarrow 550 \\ \rightarrow 550 \\ \rightarrow 551 \end{array}$
pressure hide-away Heat recovery with DX coil T2 Type ceiling K2 Type wall-mounted G1 Type floor console P1 Type floor-standing R1 Type concealed floor-standing Hydrokit for ECOi, water at 45 °C ECOi PRO-HT Tank Smart fan coils Ventilation	$\begin{array}{c} \rightarrow 546 \\ \rightarrow 547 \\ \rightarrow 548 \\ \rightarrow 549 \\ \rightarrow 549 \\ \rightarrow 550 \\ \rightarrow 550 \\ \rightarrow 551 \\ \rightarrow 551 \end{array}$
pressure hide-away Heat recovery with DX coil T2 Type ceiling K2 Type wall-mounted G1 Type floor console P1 Type floor-standing R1 Type concealed floor-standing Hydrokit for ECOi, water at 45 °C ECOi PRO-HT Tank Smart fan coils Ventilation AHU connection kit PACi NX	$\begin{array}{c} \rightarrow 546 \\ \rightarrow 547 \\ \rightarrow 548 \\ \rightarrow 549 \\ \rightarrow 549 \\ \rightarrow 550 \\ \rightarrow 550 \\ \rightarrow 551 \\ \rightarrow 551 \\ \end{array}$
pressure hide-away Heat recovery with DX coil T2 Type ceiling K2 Type wall-mounted G1 Type floor console P1 Type floor-standing R1 Type concealed floor-standing Hydrokit for ECOi, water at 45 °C ECOi PRO-HT Tank Smart fan coils Ventilation AHU connection kit PACi NX AHU Connection Kit	ightarrow 546 $ ightarrow 547$ $ ightarrow 548$ $ ightarrow 549$ $ ightarrow 550$ $ ightarrow 551$ $ ightarrow 551$ $ ightarrow 552$ $ ightarrow 552$
pressure hide-away Heat recovery with DX coil T2 Type ceiling K2 Type wall-mounted G1 Type floor console P1 Type floor-standing R1 Type concealed floor-standing Hydrokit for ECOi, water at 45 °C ECOi PRO-HT Tank Smart fan coils Ventilation AHU connection kit PACi NX AHU Connection Kit Energy recovery ventilation	
pressure hide-away Heat recovery with DX coil T2 Type ceiling K2 Type wall-mounted G1 Type floor console P1 Type floor-standing R1 Type concealed floor-standing Hydrokit for ECOi, water at 45 °C ECOi PRO-HT Tank Smart fan coils Ventilation AHU connection kit PACi NX AHU Connection Kit Energy recovery ventilation Heat recovery with DX coil	

VRF Systems

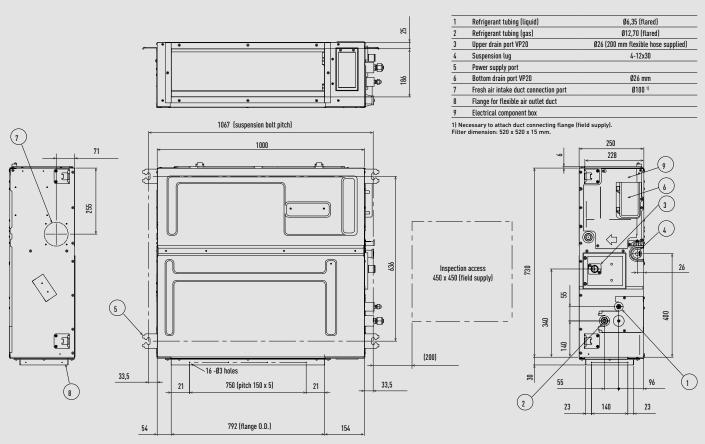
Control VRF Smart Connectivity+ \rightarrow 556 \rightarrow 558 Commercial Wi-Fi Adaptor Design wired remote controller \rightarrow 558 \rightarrow 558 Econavi sensor Remote sensor \rightarrow 558 \rightarrow 558 CONEX wired remote controller Intelligent controller (touch screen/web server) \rightarrow 558 Infrared remote controller \rightarrow 558 System controller with weekly timer \rightarrow 559 Seri-Para I/O unit for outdoor unit \rightarrow 559 Mini Seri-Para I/O Unit 0 -10 V \rightarrow 559 Central ON/OFF controller \rightarrow 559 Local adaptor for ON/OFF control \rightarrow 559 Communication adaptor \rightarrow 559 Chiller ECOi-W 20 to 40 with condenser fans standard \rightarrow 560 ECOi-W 20 to 40 with condenser fans standard and buffer tank \rightarrow 560 ECOi-W 45 to 55 with condenser fans standard \rightarrow 561 ECOi-W 45 to 55 with condenser fans standard and buffer tank \rightarrow 561 ECOi-W 65 to 75 with condenser fans standard \rightarrow 562 ECOi-W 65 to 75 with condenser fans standard and buffer tank \rightarrow 562 ECOi-W 90 to 125 with condenser fans standard \rightarrow 563 ECOi-W 90 to 125 with condenser fans standard and buffer tank \rightarrow 563 ECOi-W 140 to 210 without pump \rightarrow 564 EC0i-W 140 to 210 with 1 pump and buffer tank \rightarrow 565 Refrigeration CR Series 4,0 kW \rightarrow 566 CR Series 7,5 and 8,0 kW \rightarrow 566 CR Series 15,0 and 16,0 kW \rightarrow 567

Aquarea EcoFleX tank unit

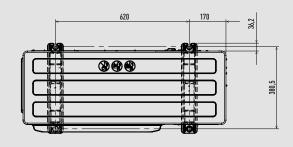


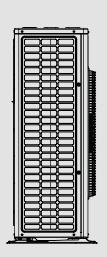
Unit: mm

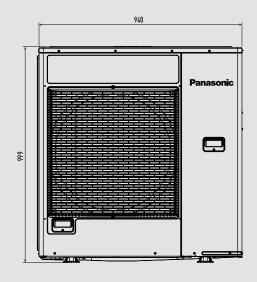
Aquarea EcoFleX ducted unit

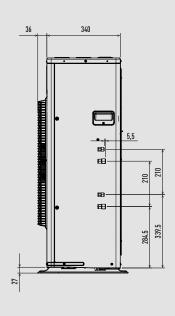


Aquarea EcoFleX outdoor unit





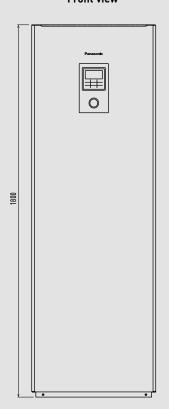


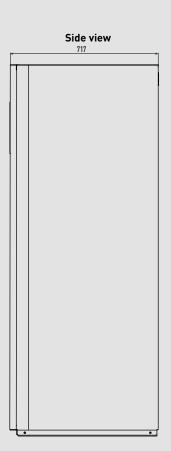


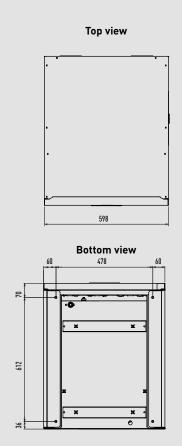
Unit: mm

Aquarea All in One H Generation

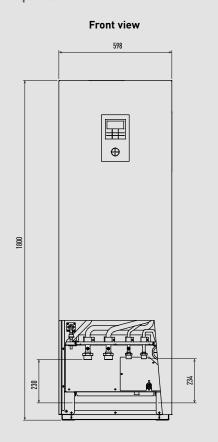
Front view

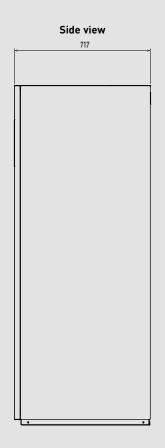


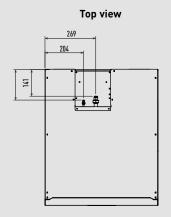


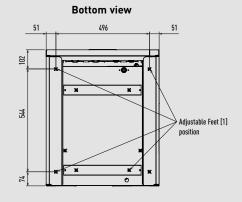


Aquarea All in One J Generation



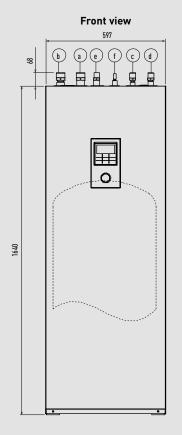


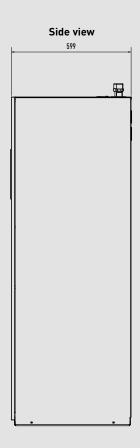


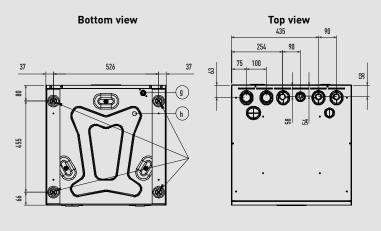


Unit: mm

Aquarea All in One Compact

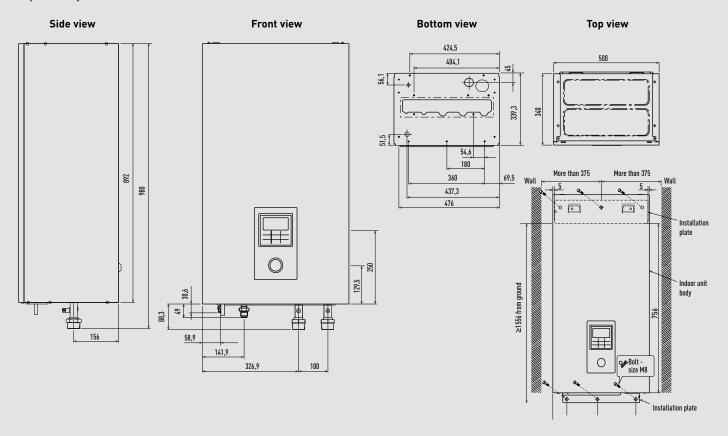






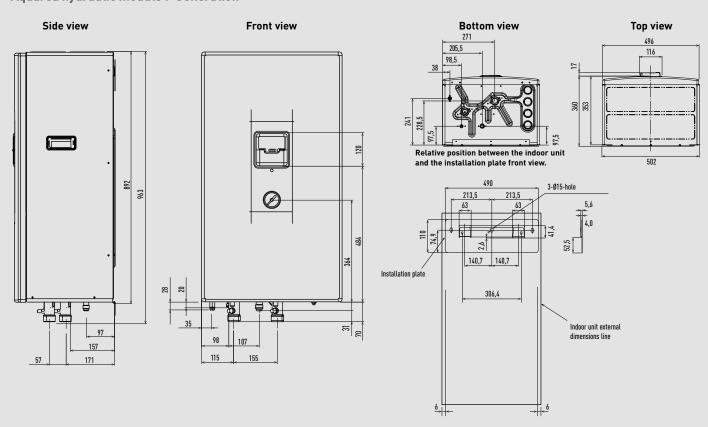
Tube connector	Function	Connector size	
a	Water inlet (from space heating/cooling)	R 11/4"	
b	Water outlet (to space heating/cooling)	R 11/4"	
С	Cold water inlet (domestic hot water tank)	R 3/4"	
d	Hot water outlet (domestic hot water tank)	R 3/4"	
е	Refrigerant gas	7/8-14UNF	
f	Refrigerant liquid	7/16-20UNF	
g	Domestic hot water tank discharge (drain tap) type: ball valve	Rc 1/2"	
h	Drain water hole		

Aquarea hydraulic module J and H Generation

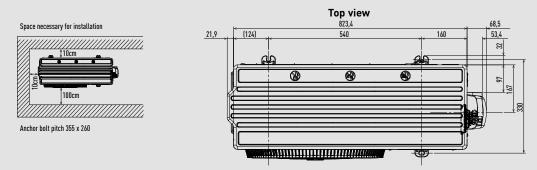


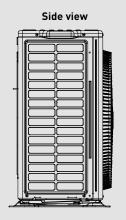
Unit: mm

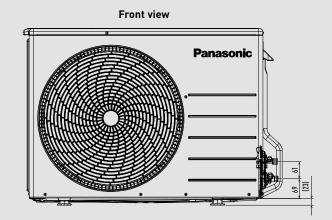
Aquarea hydraulic module F Generation

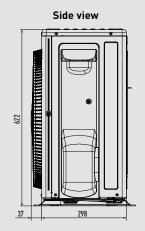


Aquarea High Performance Bi-bloc outdoor unit 3 and 5kW



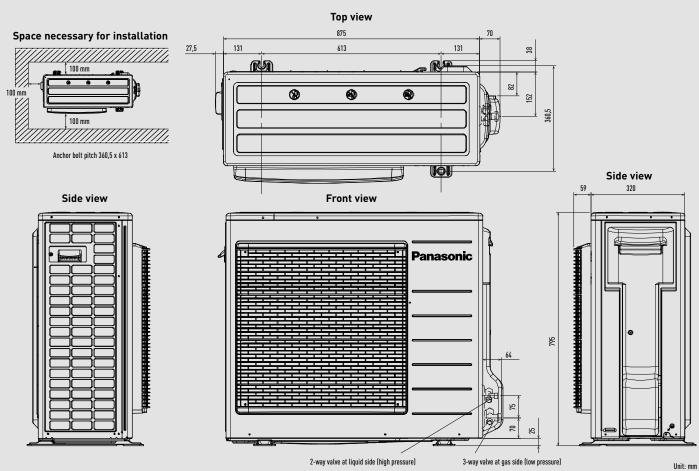




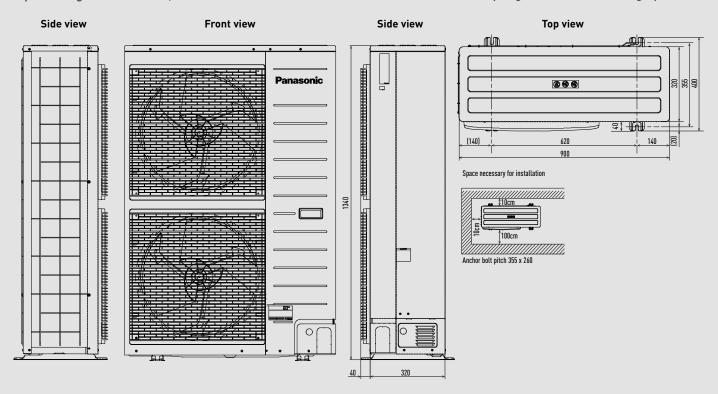


Unit: mm

Aquarea High Performance Bi-bloc outdoor unit 7 and 9kW



Aquarea High Performance, T-CAP and HT Bi-bloc outdoor unit from 9 to 16 kW (except High Performance 9 kW single phase)

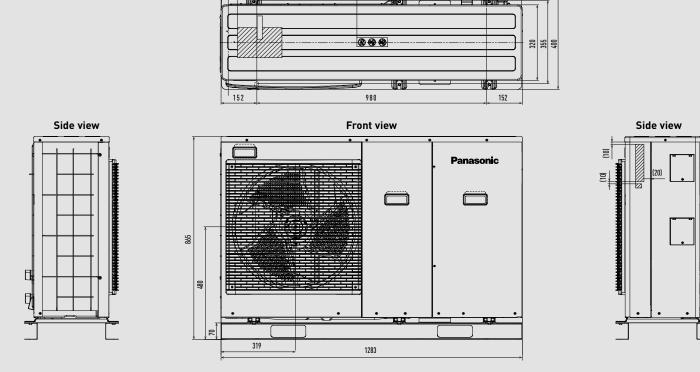


Unit: mm

Aquarea High Performance Mono-bloc outdoor unit from 5 to 9kW

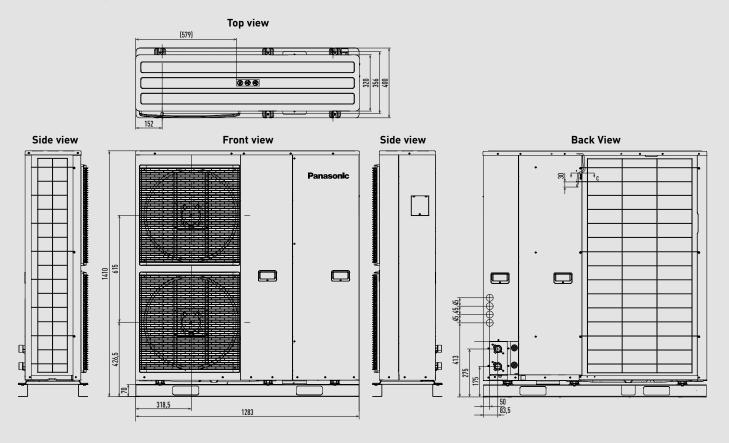
(10)

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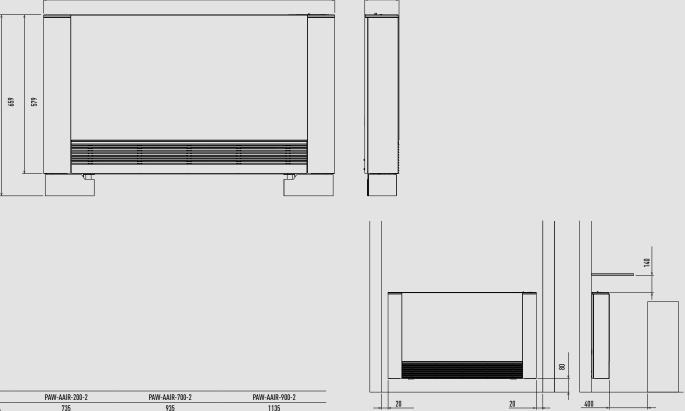
Top view

Aquarea High Performance, T-CAP and HT Mono-bloc outdoor unit and T-CAP Bi-bloc Super Quiet outdoor unit from 9 to 16 kW (except High Performance 9 kW)



Unit: mm

Smart fan coils

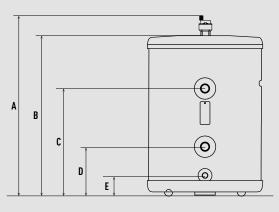


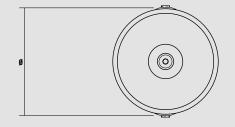
	PAW-AAIR-200-2	PAW-AAIR-700-2	PAW-AAIR-900-2
A	735	935	1135

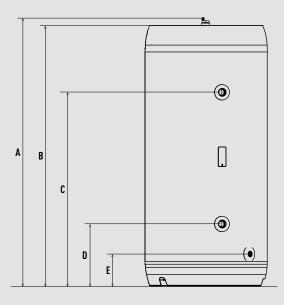
Buffer tank - PAW-BTANK50L-2 / PAW-BTANK100L / PAW-BTANK200L / PAW-BTANK300L

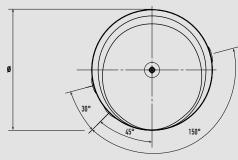
	A*	B*	С	D	E	Ø
PAW-BTANK50L-2	704	636	422	192	96	435
PAW-BTANK100L	1243	1175	962	192	96	435
PAW-BTANK200L	1340	1275	941	301	155	595
PAW-RTANK3001	1820	1755	1,621	301	155	595

Tolerance +/- 5 mm. * Total height tolerance +0 / -13 mm.





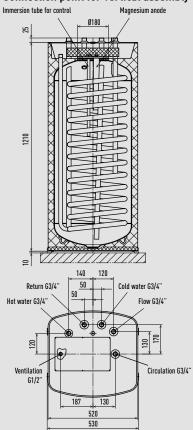




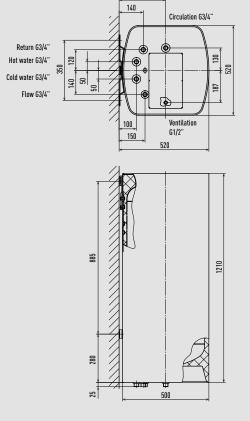
Unit: mm

Enamelled tank - PAW-TA15C1E5STD

Connection point for vertical assembly

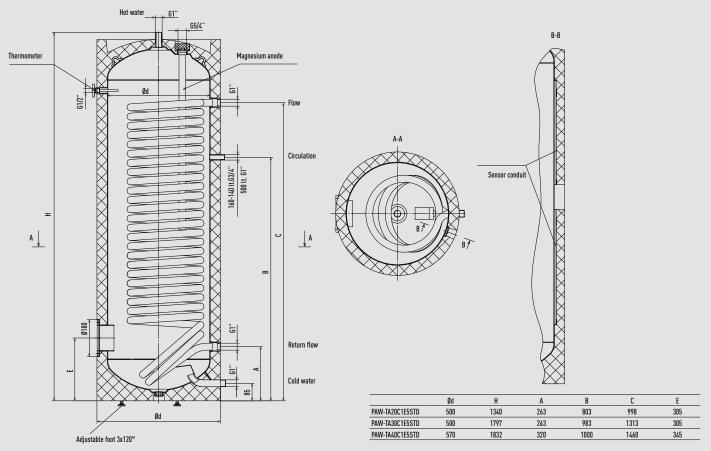


Connection point for hanging assembly



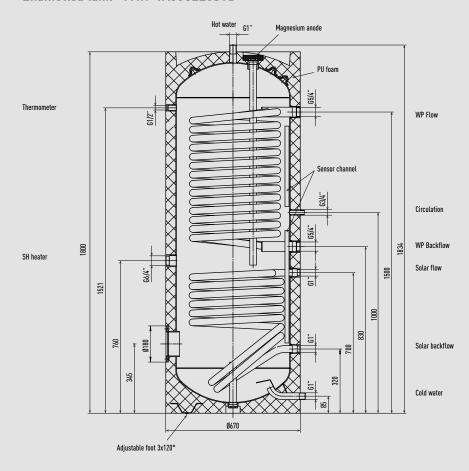
Unit: mm

Enamelled tanks - PAW-TA20C1E5STD / PAW-TA30C1E5STD / PAW-TA40C1E5STD

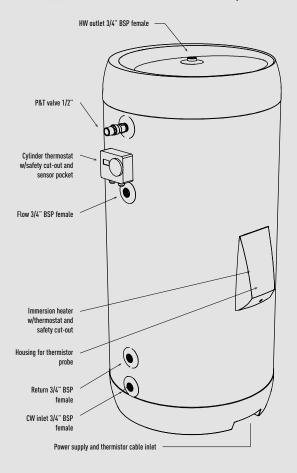


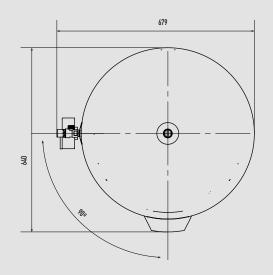
Unit: mm

Enamelled tank - PAW-TA30C2E5STD



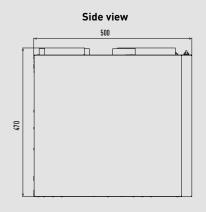
Stainless steel tanks - PAW-TD20C1E5 / PAW-TD30C1E5 / PAW-TD30C1E5-HI

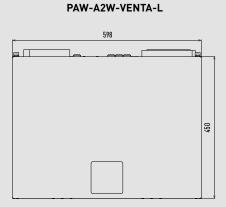


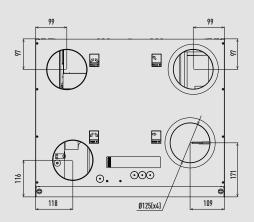


Unit: mm

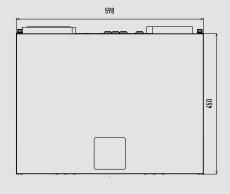
Heat recovery ventilation unit

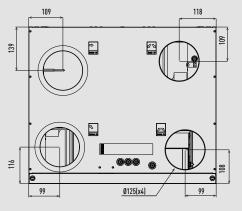






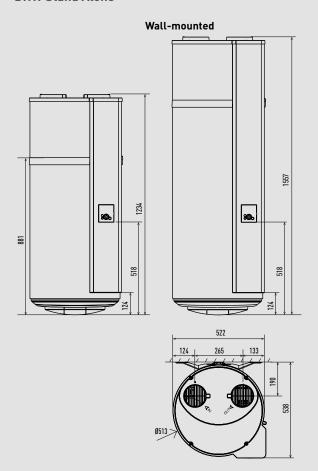
PAW-A2W-VENTA-R

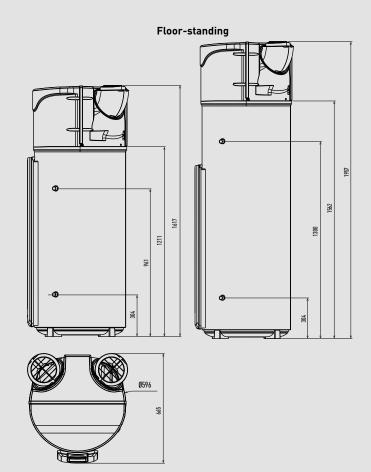




Unit: mm

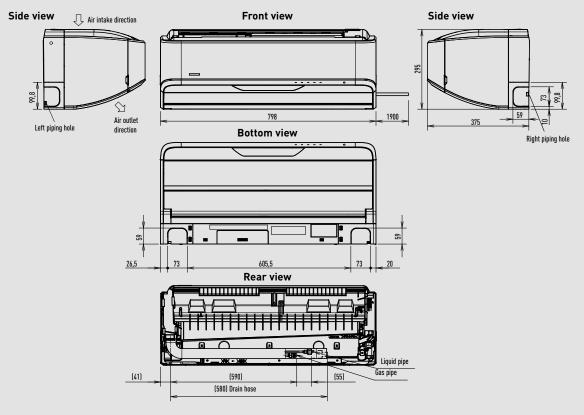
DHW Stand Alone

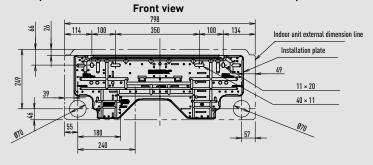


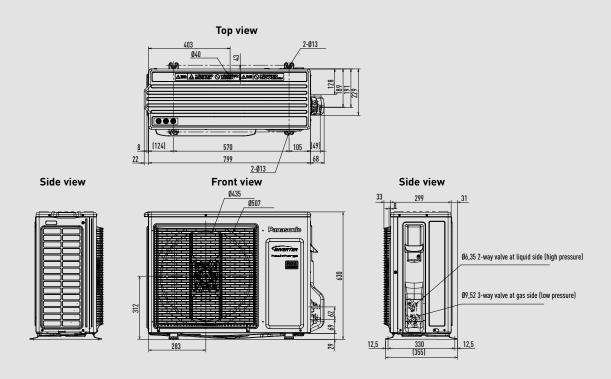


Unit: mm

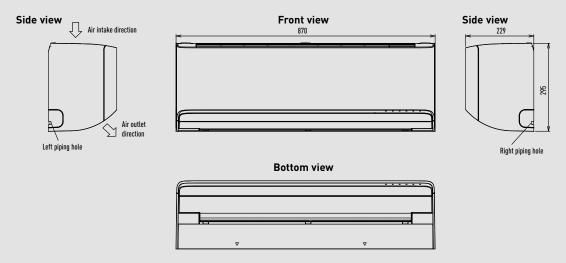
Wall-mounted Heatcharge VZ



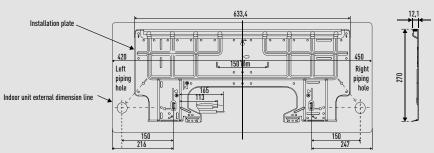


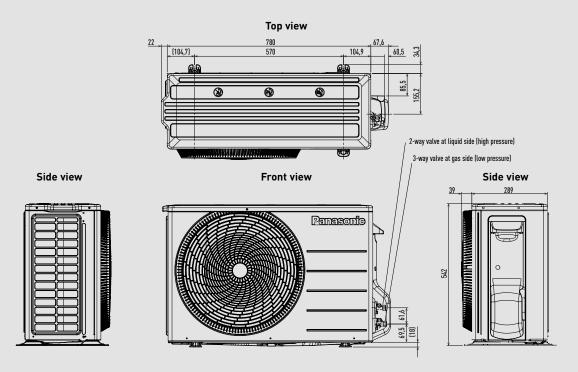


Wall-mounted Etherea (from 1,6 to 4,2 kW)

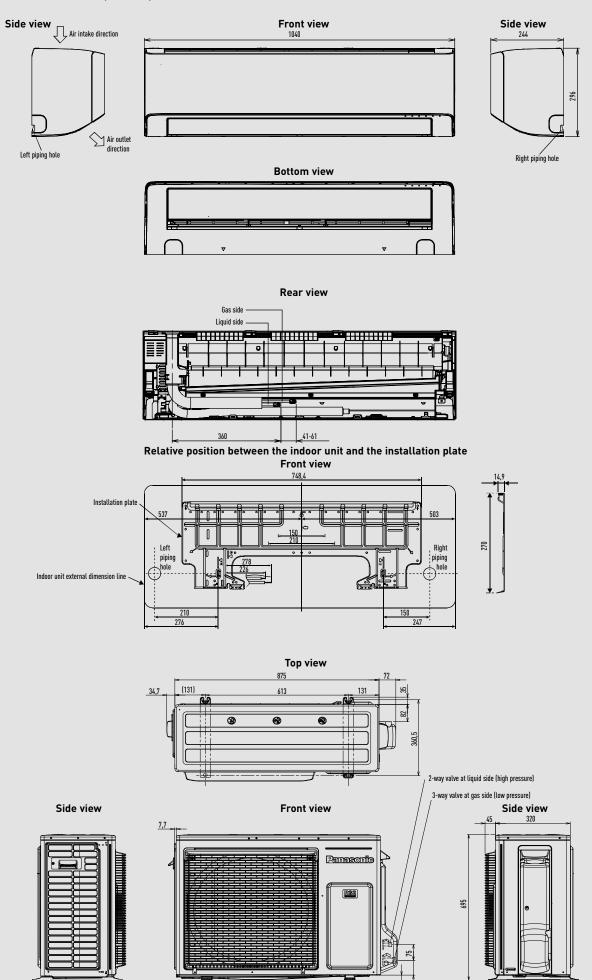


Rear view Gas side Liquid side 360 41-61

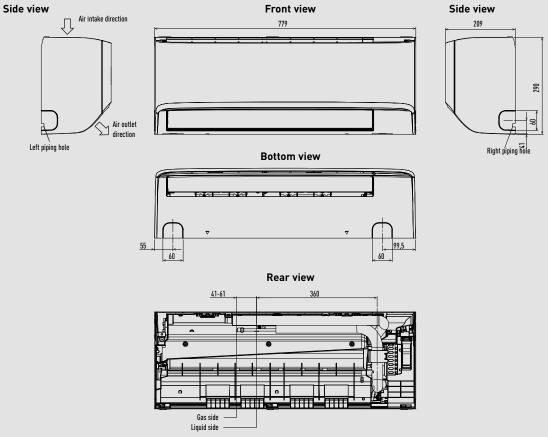


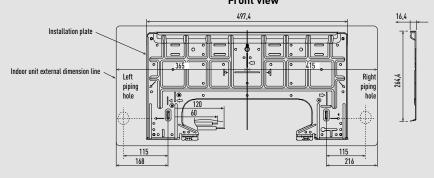


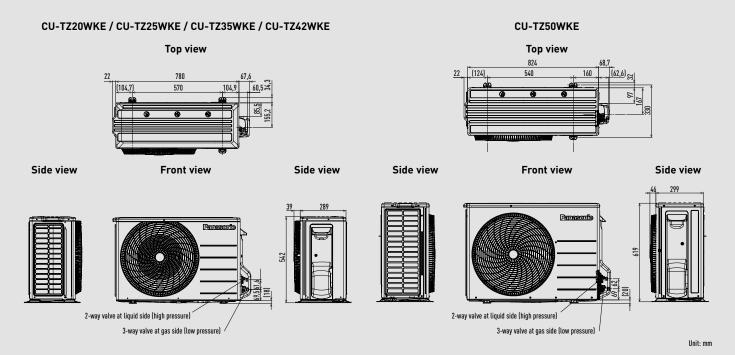
Wall-mounted Etherea (5,0 and 7,1 kW)



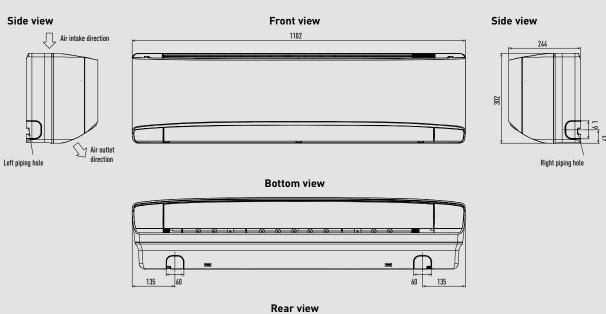
Wall-mounted TZ super-compact (from 1,6 to 5,0 kW)



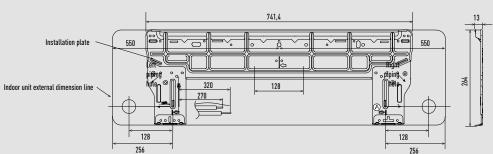


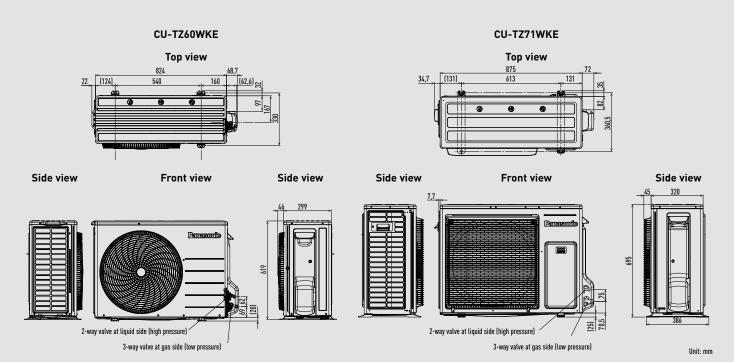


Wall-mounted TZ super-compact (6,0 and 7,1 kW)

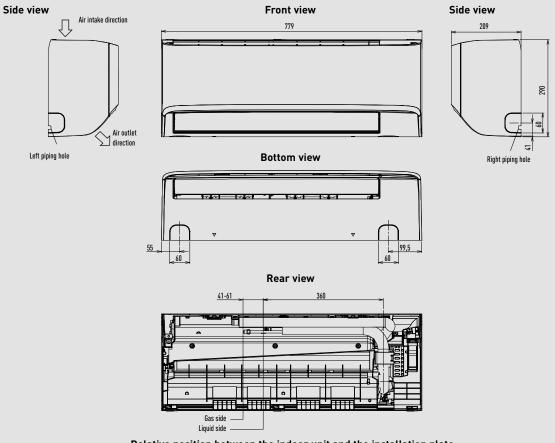


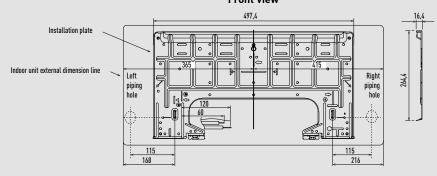
41-61 410

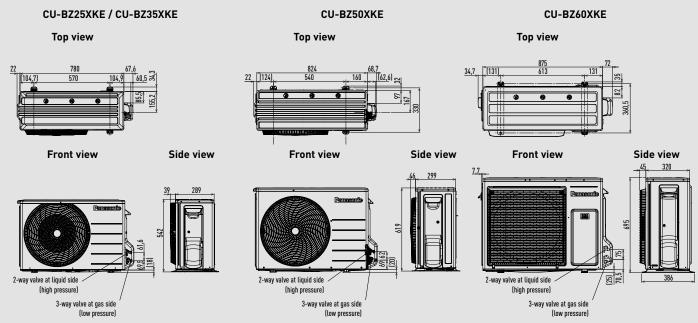




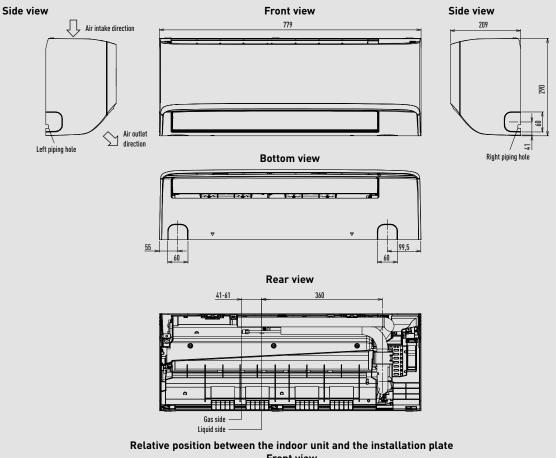
Wall-mounted BZ super-compact



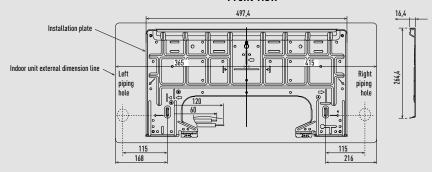


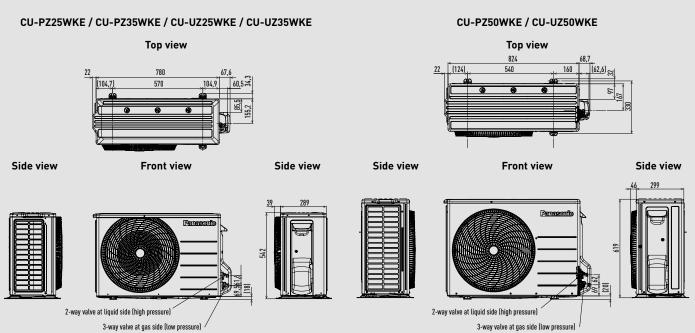


Wall-mounted UZ and PZ super-compact

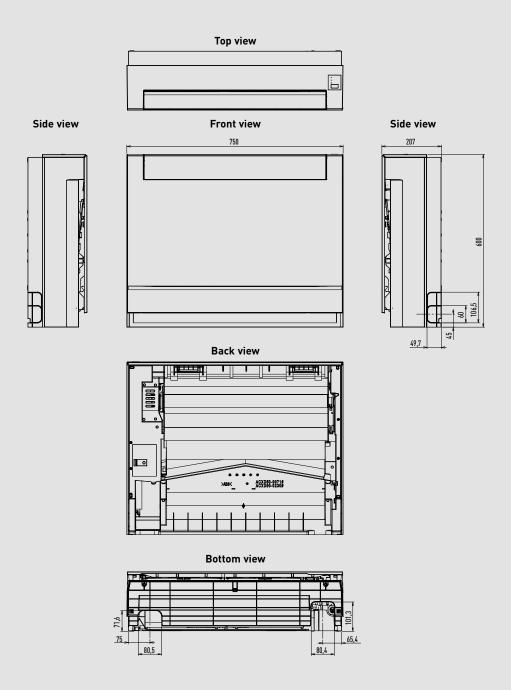


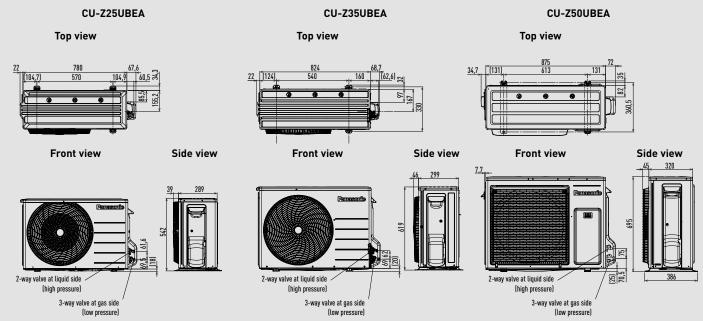
Front view



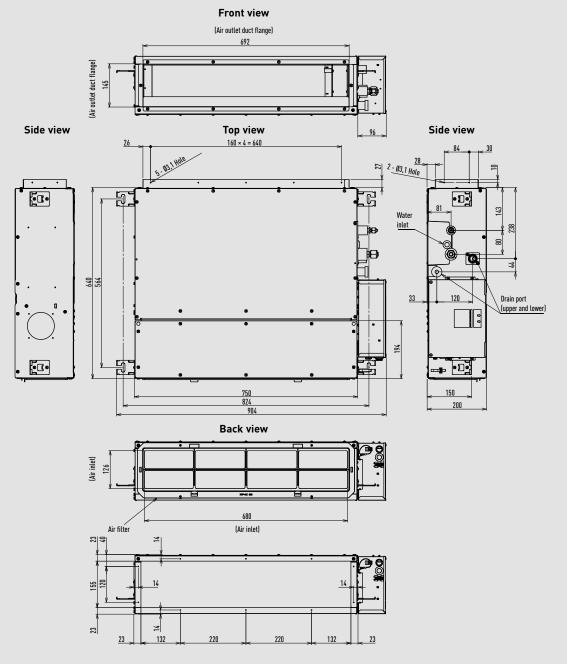


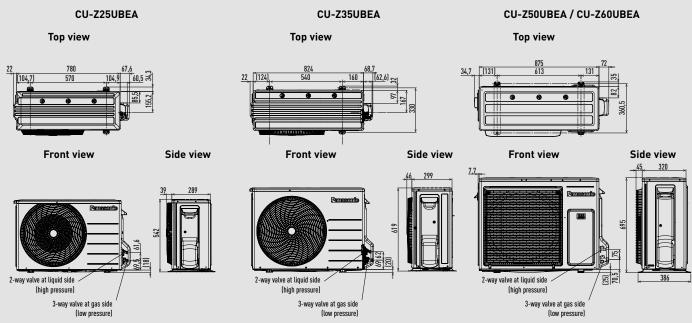
Floor console





Low static pressure hide-away

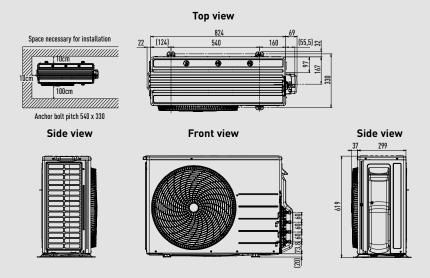




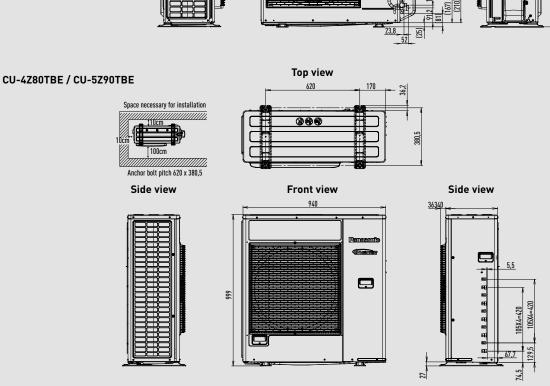
Unit: mm

Outdoor units Free Multi System Z

CU-2Z35TBE / CU-2Z41TBE / CU-2Z50TBE

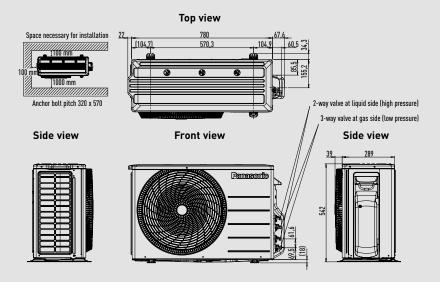


CU-3Z52TBE / CU-3Z68TBE / CU-4Z68TBE Top view Space necessary for installation 27,5 100 Anchor bolt pitch 360,5 x 613 Side view Front view 875 59 320 565

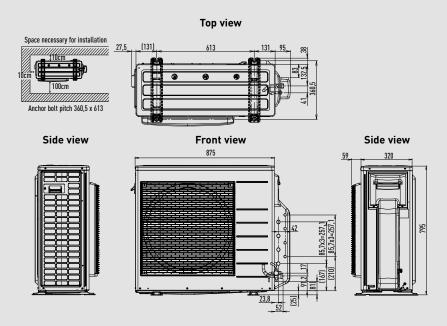


Outdoor units Multi Wall TZ

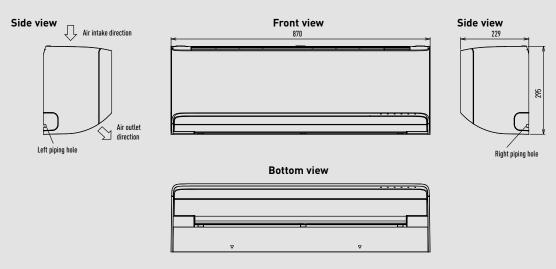
CU-2TZ41TBE / CU-2TZ50TBE

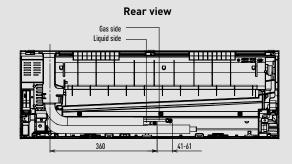


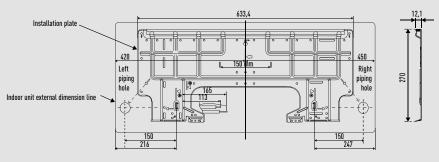
CU-3TZ52TBE

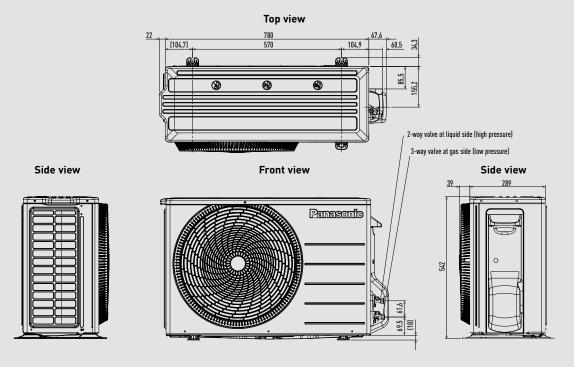


Wall-mounted Professional (from 2,5 to 4,2 kW)

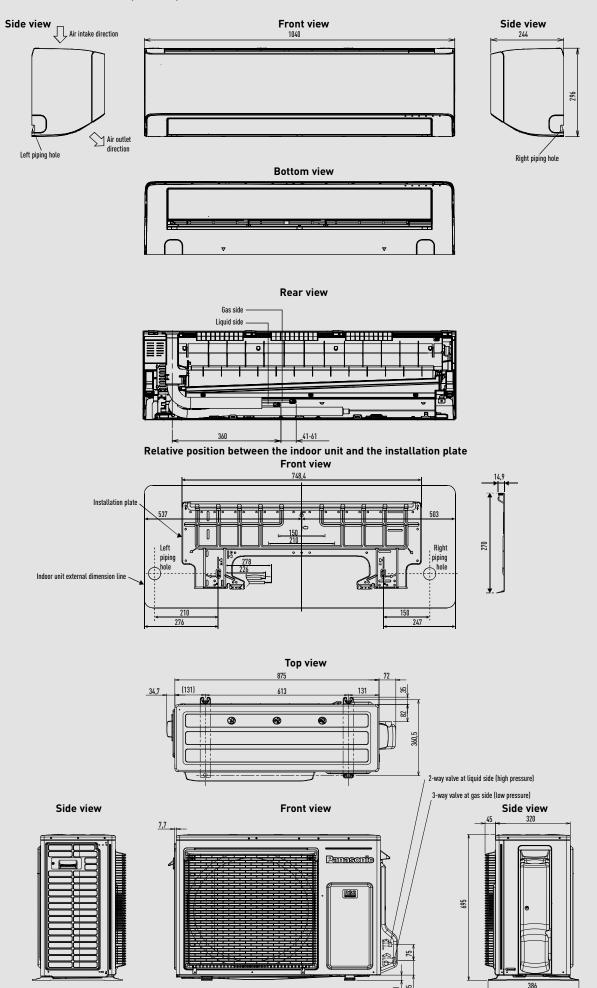




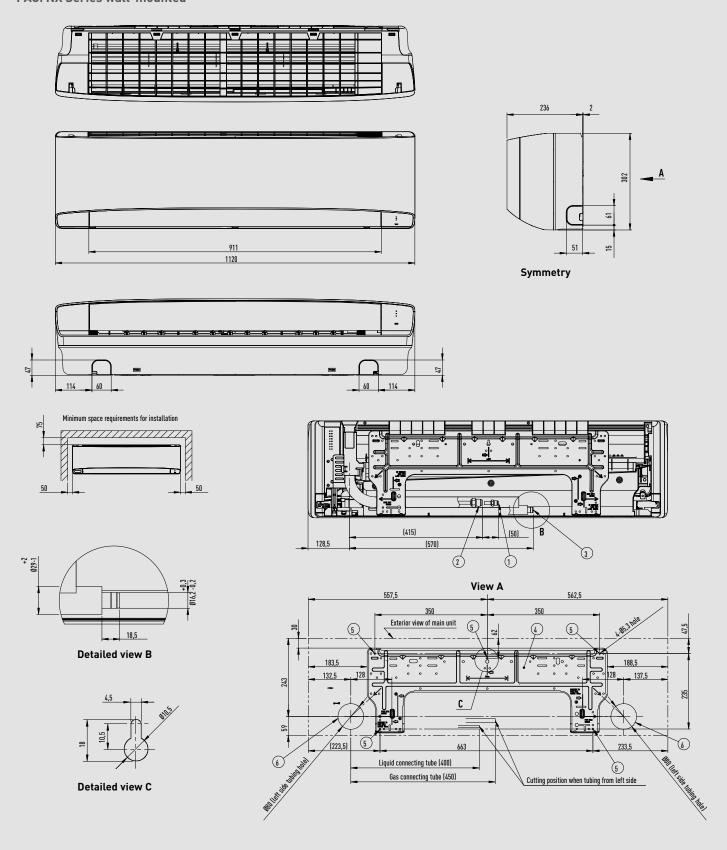




Wall-mounted Professional (5,0 and 7,1 kW)



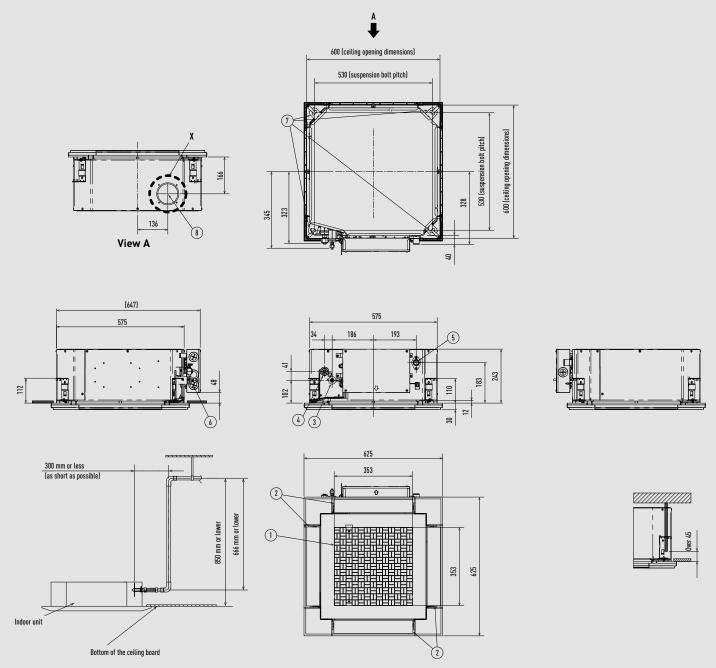
PACi NX Series wall-mounted



Тур	ee	S-3650PK3E	S-6010PU3E
1	Refrigerant tubing (liquid)	Ø6,35 (flared)	Ø9,52 (flared) 1)
2	Refrigerant tubing (gas)	Ø12,70 (flared)	60: Ø15,88 (flared) ²⁾ 71: Ø15,88 (flared) 100: Ø15,88 (flared)
3	Drain hose		
4	Rear panel		
5	Rear panel fixing holes (Ø5,3 holes or as shown in figure "C")		
6	Tubing and wiring holes (Ø80)		

¹⁾ When connecting with U-60P23E5, U-71P23E5 or U-60PZH3E5, connect the liquid socket tube (09,52 - 06,35) to the liquid tubing side indoor unit.
2) When connecting with U-60P23E5 or U-60PZH3E5, connect the gas socket tube (015,88 - 012,7) to the gas tubing side indoor unit.

PACi NX Series 4 way 60x60 cassette

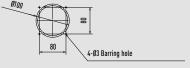


^{*} Length of supplied drain pipe= 250 mm.

Туре		25-50	60
1	Air intake grille		
2	Air outlet		
3	Refrigerant tubing (liquid)	Ø6,35 (flared)	Ø9,52 (flared) 1)
4	Refrigerant tubing (gas)	Ø12,70 (flared)	Ø15,88 (flared) ²⁾
5	Drain tube connection port VP20		
6	Power supply port		
7	Suspension bolt hole (4-11 x 26 slot)		
8	Fresh air intake duct connection port (Ø100) 3)		

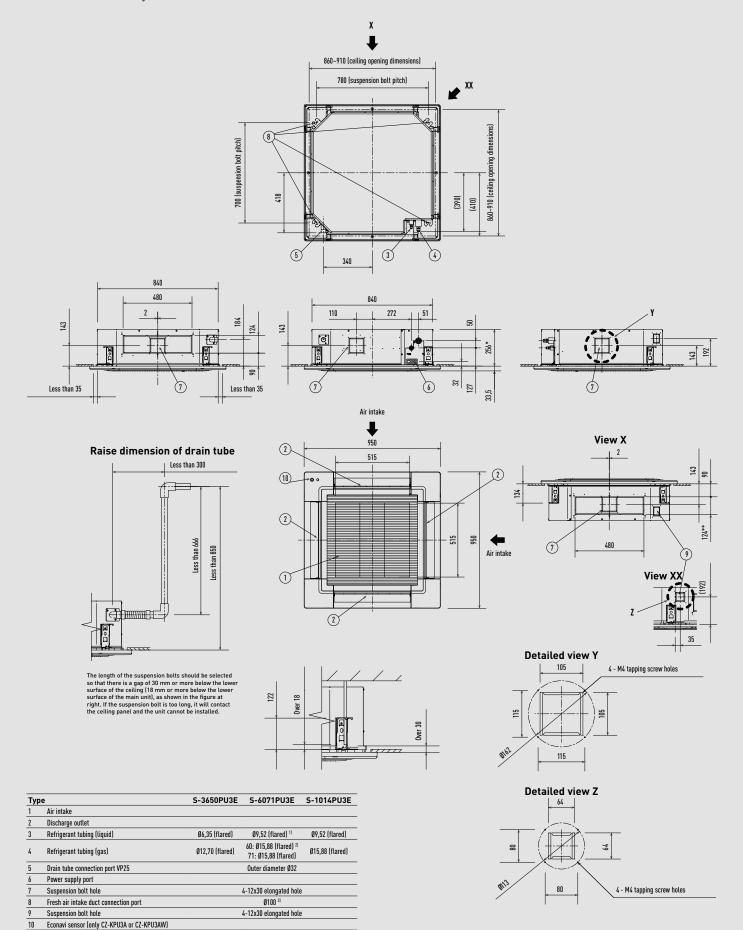
¹⁾ When connecting with U-60P23E5A or U-60PZH3E5, connect the liquid socket tube (Ø9,52-06,35) to the liquid tubing side indoor unit.
2) When connecting with U-60PZ3E5A or U-60PZH3E5, connect the gas socket tube (Ø15,88-Ø12,70) to the gas tubing side indoor unit.
3) Necessary to attach duct connecting flange (field supply).

Filter dimension: 362 x 362 x 15 mm.



Detailed view X

PACi NX Series 4 way 90x90 cassette



¹⁾ When connecting with U-60PZ3E5, U-71PZ3E5 or U-60PZH3E5, connect the liquid socket tube (09,52 - 06,35) to the liquid tubing side indoor unit.
2) When connecting with U-60PZ3E5 or U-60PZH3E5, connect the gas socket tube (015,88 - 012,7) to the gas tubing side

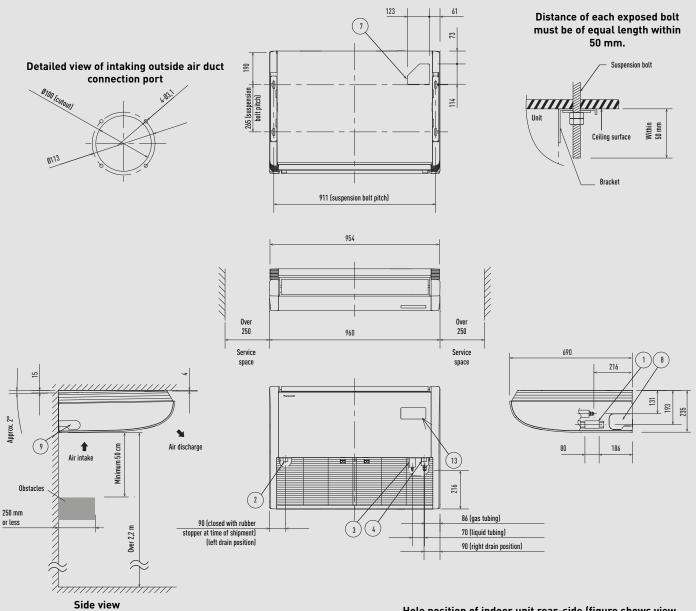
Filter dimension: 520 x 520 x 15 mm.

indoor unit.

3) Necessary to attach duct connecting flange (field supply).

^{* 319} mm for S-1014PU3E. ** 187 mm for S-1014PU3E

PACi NX Series ceiling (S-3650PT3E)



Drain port VP20 Inside diameter Ø26 mm, drain hose supplied Left drain position Refrigerant tubing (liquid) Ø6,35mm (flared) Refrigerant tubing (gas) Ø12,7mm (flared) Cover of rear tubing hole Ø100 mm Tubing hole on wall surface Upper side tubing port Right side drain hose outlet port (cutout) Left side drain hose outlet port (cutout) 10 Left-rear side drain hose outlet port (cutout) 11 Power inlet port

Ø100 mm (cutout)

14 Outside air intake duct connection port Filter dimension: 421 x 250 x 16 mm x 2 pcs.

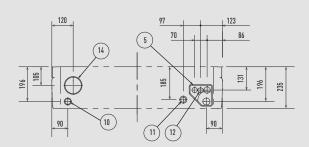
Remote control wiring and inter-unit wiring inlet port

Wireless remote controller receiver installation location

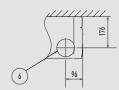
12

13

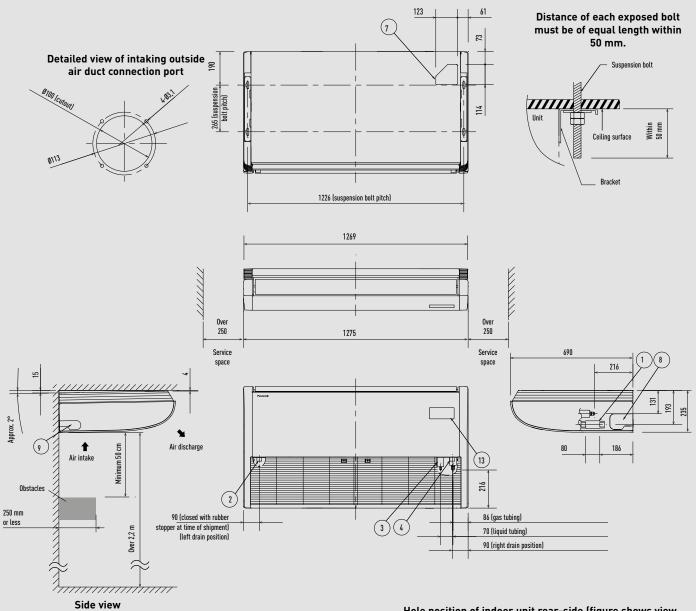
Hole position of indoor unit rear-side (figure shows view from front)



Tubing hole position on wall surface (figure shows view from front)



PACi NX Series ceiling (S-6071PT3E)



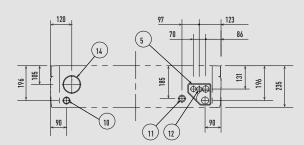
1	Drain port VP20	Inside diameter Ø26 mm, drain hose supplied
2	Left drain position	
3	Refrigerant tubing (liquid)	Ø9,52 (flared) 1)
4	Refrigerant tubing (gas)	Ø15,88 (flared) ²⁾
5	Cover of rear tubing hole	
6	Tubing hole on wall surface	Ø100 mm
7	Upper side tubing port	
8	Right side drain hose outlet port (cutout)	
9	Left side drain hose outlet port (cutout)	
10	Left-rear side drain hose outlet port (cutout)	
11	Power inlet port	
12	Remote control wiring and inter-unit wiring inlet port	
13	Wireless remote controller receiver installation location	

Ø100 mm (cutout)

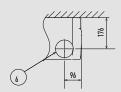
14 Outside air intake duct connection port

Filter dimension: 579 x 250 x 16 mm x 2 pcs.

Hole position of indoor unit rear-side (figure shows view from front)



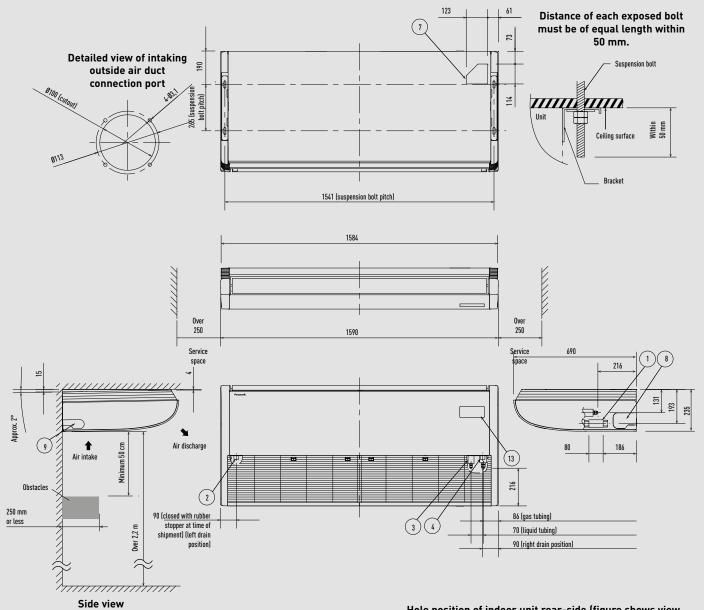
Tubing hole position on wall surface (figure shows view from front)



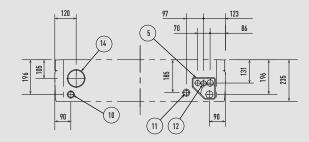
¹⁾ When connecting with U-60P23E5, U-71P23E5 or U-60P2H3E5, connect the liquid socket tube [Ø9,52 - Ø6,35] to the liquid tubing side indoor unit.

2) When connecting with U-60P23E5 or U-60P2H3E5, connect the gas socket tube [Ø15,88 - Ø12,7] to the gas tubing side indoor unit.

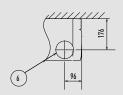
PACi NX Series ceiling (S-1014PT3E)



Hole position of indoor unit rear-side (figure shows view from front)



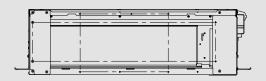
Tubing hole position on wall surface (figure shows view from front)

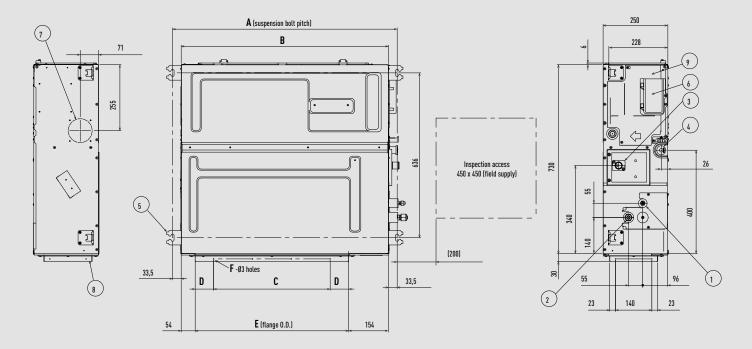


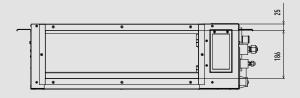
1	Drain port VP20	Inside diameter Ø26 mm, drain hose supplied
2	Left drain position	
3	Refrigerant tubing (liquid)	Ø9,52 (flared)
4	Refrigerant tubing (gas)	Ø15,88 (flared)
5	Cover of rear tubing hole	
6	Tubing hole on wall surface	Ø100 mm
7	Upper side tubing port	
8	Right side drain hose outlet port (cutout)	
9	Left side drain hose outlet port (cutout)	
10	Left-rear side drain hose outlet port (cutout)	
11	Power inlet port	
12	Remote control wiring and inter-unit wiring inlet port	
13	Wireless remote controller receiver installation location	<u> </u>
14	Outside air intake duct connection port	Ø100 mm (cutout)

Filter dimension: 736 x 250 x 16 mm x 2 pcs.

PACi NX Series adaptive ducted unit







					•
mm	mm	mm	mm	mm	Q'ty
867	800	450 (pitch 150 x 3)	71	592	12
1067	1000	750 (pitch 150 x 5)	21	792	16
1467	1400	1050 (pitch 150 x 7)	71	1192	20
	867 1067	867 800 1067 1000	867 800 450 (pitch 150 x 3) 1067 1000 750 (pitch 150 x 5)	867 800 450 (pitch 150 x 3) 71 1067 1000 750 (pitch 150 x 5) 21	867 800 450 (pitch 150 x 3) 71 592 1067 1000 750 (pitch 150 x 5) 21 792

Тур	e	S-3650PF3E	S-6071PF3E	S-1014PF3E
1	Refrigerant tubing (liquid)	Ø6,35 (flared)	Ø9,52 (flared) 1)	Ø9,52 (flared)
2	Refrigerant tubing (gas)	Ø12,70 (flared)	60: Ø15,88 (flared) ²⁾ 71: Ø15,88 (flared)	Ø15,88 (flared)
3	Upper drain port VP20	Ø26 (200 mm flexible hose supplied)		
4	Suspension lug	4-12x30		
5	Power supply port			
6	Bottom drain port VP20		Ø26 mm	
7	Fresh air intake duct connection port		Ø100 ³⁾	
8	Flange for flexible air outlet duct			
9	Electrical component box			

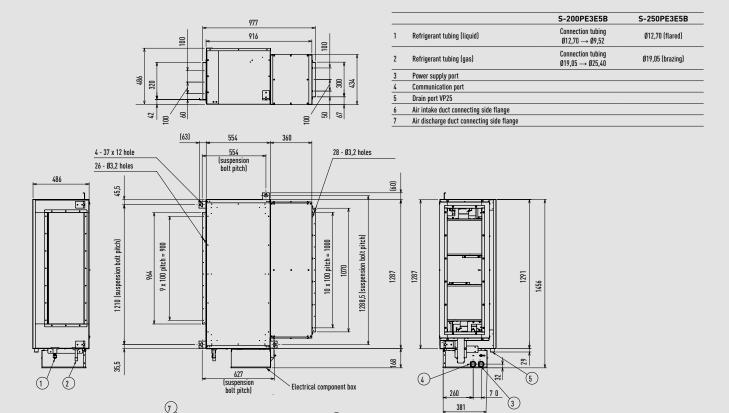
Filter dimension: 520 x 520 x 15 mm.

¹⁾ When connecting with U-60PZ3E5, U-71PZ3E5 or U-60PZH3E5, connect the liquid usocket tube [09,52 - 06,35] to the liquid tubing side indoor unit.
2) When connecting with U-60PZ3E5 or U-60PZH3E5, connect the gas socket tube [015,88 - 012,7] to the gas tubing side indoor unit.
3) Necessary to attach duct connecting flange (field supply).

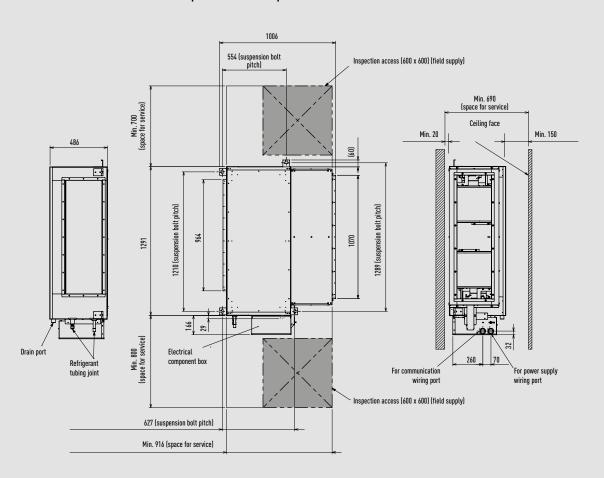
^{* 319} mm for S-1014PU3E. ** 187 mm for S-1014PU3E.

Big PACi high static pressure hide-away 20,0-25,0 kW

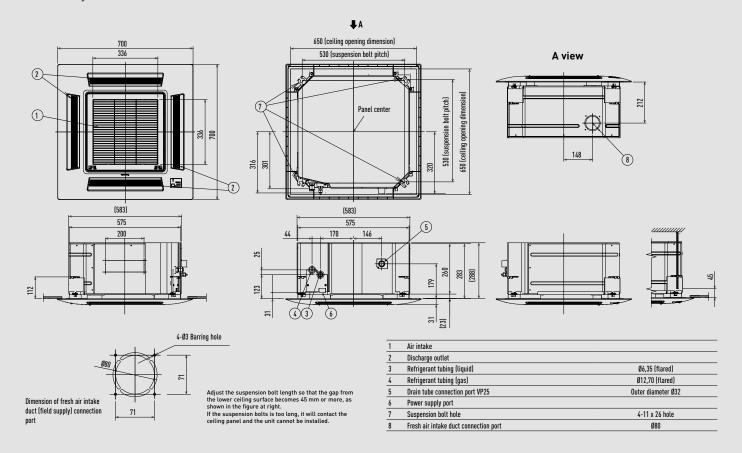
130



Dimensions of suspension bolt pitch and unit. Required Minimum Space for Installation and Service

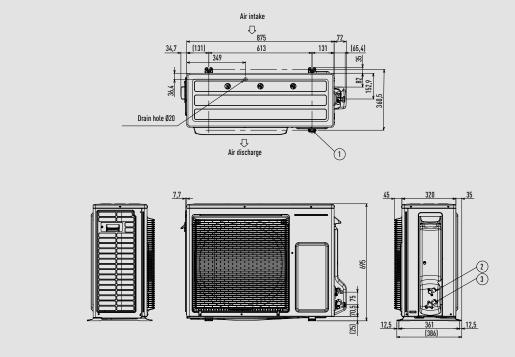


PACi 4 way 60x60 cassette



Unit: mm

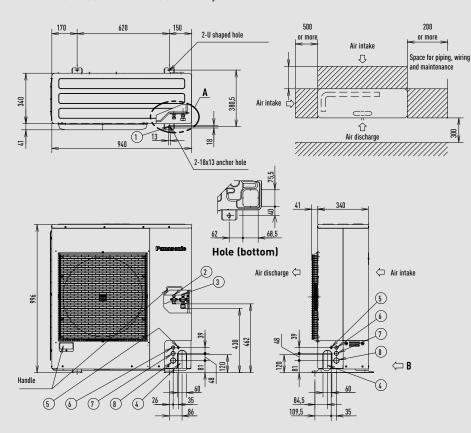
PACi NX Series Elite outdoor unit from 2,5 to 6,0 kW and Standard 6,0 and 7,1 kW



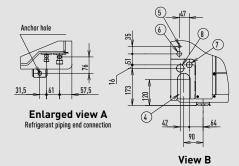
1	Mounting	hole (4-	R6,5	i), an	cho	r	bolt: M10
						$\overline{}$	

Refrigerant tubing (liquid tube), Ø6,35 (flared)
Refrigerant tubing (gas tube), Ø12,70 (flared). U-71PZ3E5, Ø15,88 (flared)

PACi NX Series Elite outdoor unit 7,1 kW

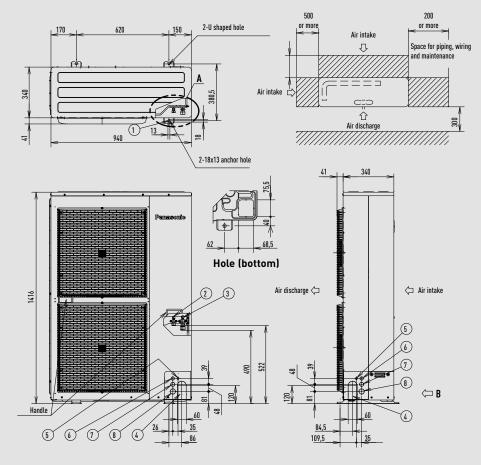


1	Mounting hole, anchor bolt: M10
2	Refrigerant tubing (liquid tube), Ø9,52 (flared)
3	Refrigerant tubing (gas tube), Ø15,88 (flared)
4	Refrigerant piping hole
5	Electrical wiring port (Ø13)
6	Electrical wiring port (ØØ22)
7	Electrical wiring port (Ø27)
8	Electrical wiring port (Ø35)

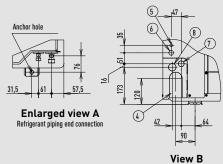


Unit: mm

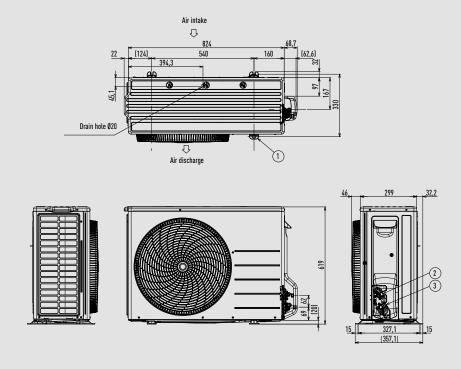
PACi NX Series Elite outdoor unit from 10,0 to 14,0 kW



1	Mounting hole, anchor bolt: M10
2	Refrigerant tubing (liquid tube), Ø9,52 (flared)
3	Refrigerant tubing (gas tube), Ø15,88 (flared)
4	Refrigerant piping hole
5	Electrical wiring port (Ø13)
6	Electrical wiring port (ØØ22)
7	Electrical wiring port (Ø27)
8	Electrical wiring port (Ø35)



PACi NX Series Standard outdoor unit 3,6 and 5,0 kW



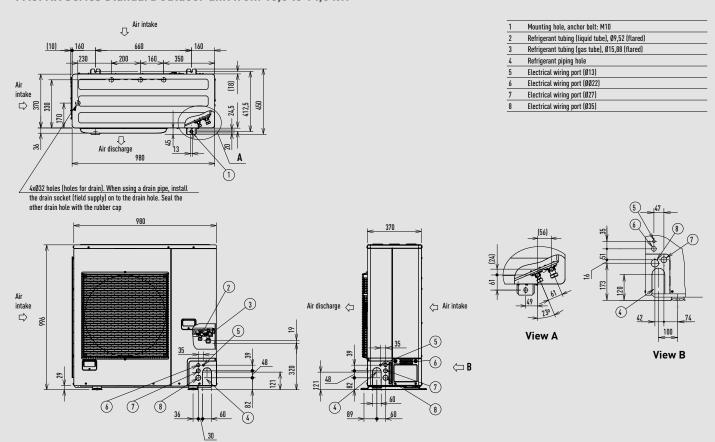
1	Mounting	g hole (4-	R6,5), anchor bolt: M1)
			4 4	

² Refrigerant tubing (liquid tube), Ø6,35 (flared)

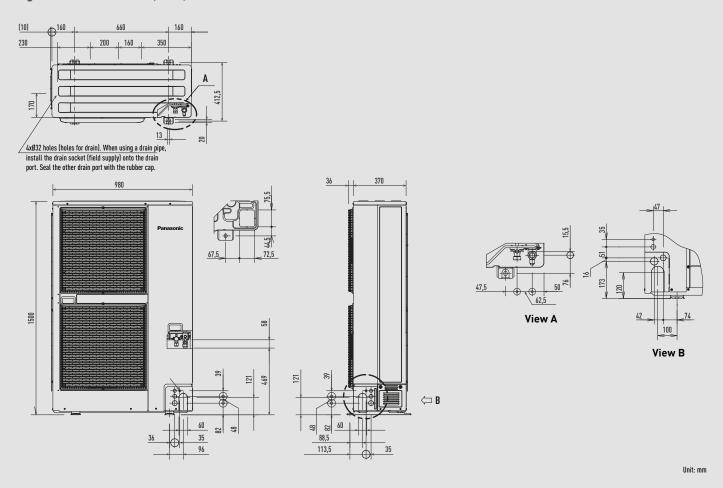
3 Refrigerant tubing (gas tube), Ø12,70 (flared)

Unit: mm

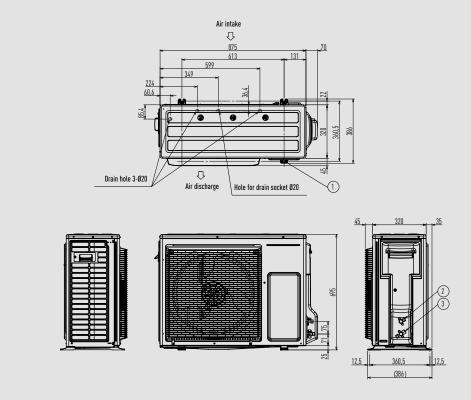
PACi NX Series Standard outdoor unit from 10,0 to 14,0 kW



Big PACi outdoor unit 20,0-25,0 kW



PACi Elite outdoor unit 3,6 and 5,0 kW



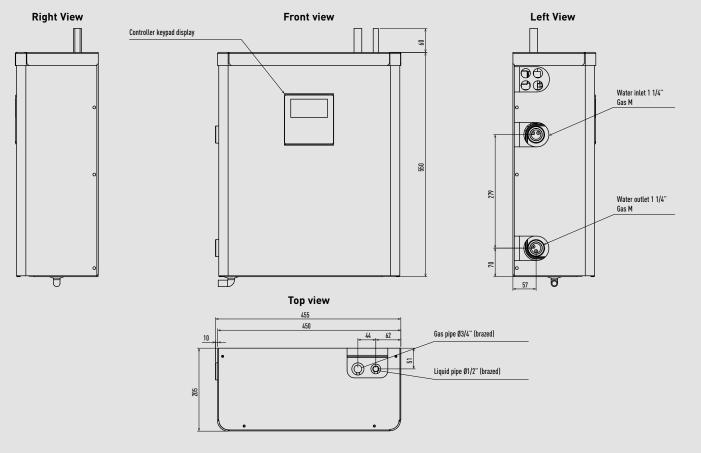
Mounting hole (4-R6,5), anchor bolt: M10 Refrigerant tubing (liquid tube), Ø6,35 (flared) Refrigerant tubing (gas tube), Ø12,70 (flared)

PACi PRO-HT Tank

PAW-VP750LDHW-1 PAW-VP1000LDHW-1 PAW-VP380L Rp 1" 1/2" R 2460 2210 Rp 11/4" R 2090 1/2" 1846 1/2" 1 1/4" 1475 _1426 1/2" 1305 1 1/4" _ 1275 1085 630 427 _630 -427 _276 _270 Rp 1 1/4" _170 Rp 1 1/4"

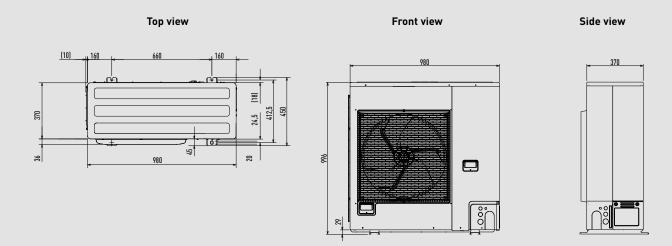
Note: R value indicates maximum overturning height.

PACi water heat exchanger



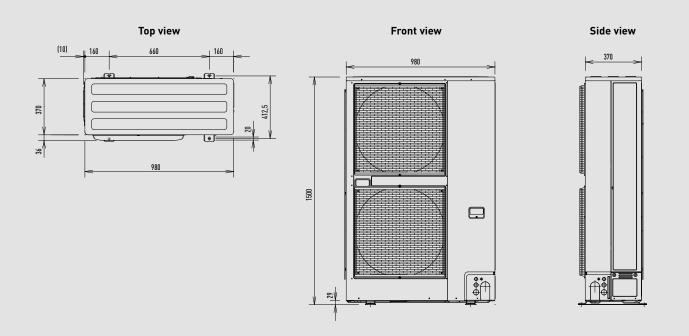
Unit: mm

Mini ECOi LZ2 Series 4 to 6 HP

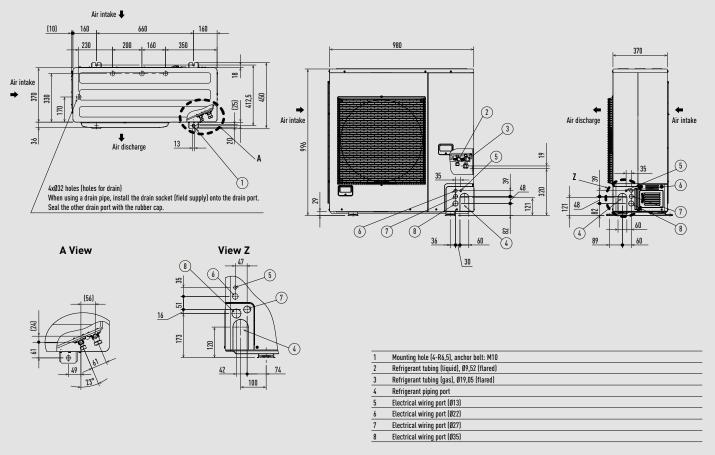


Unit: mm

Mini ECOi LZ2 Series 8 and 10 HP

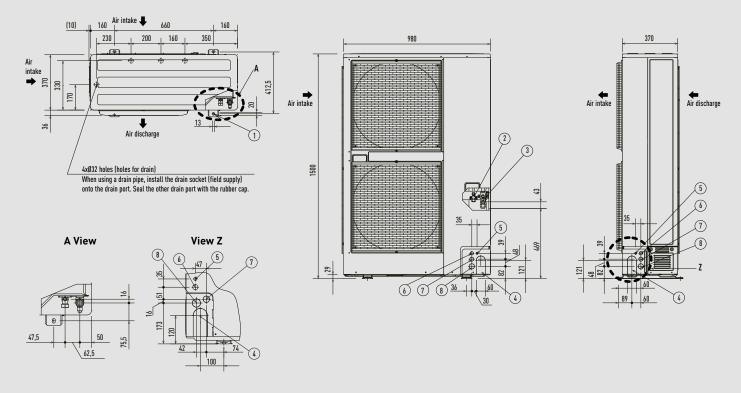


Mini ECOi LE2 Series High Efficiency 4 to 6 HP



Unit: mm

Mini ECOi LE1 Series High Efficiency 8 and 10 HP

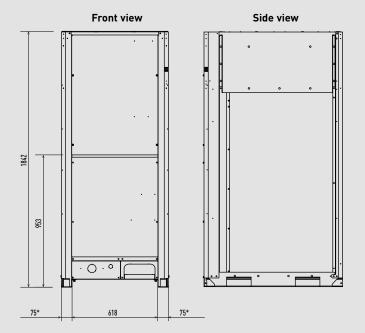


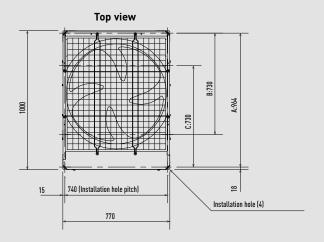
1	Mounting hole (4-R6,5), anchor bolt: M10
2	Refrigerant tubing (liquid), Ø9,52 (flared)
3	Refrigerant tubing (gas), Ø19,05 (flared)
4	Refrigerant piping port

5	Electrical wiring port (Ø13)
6	Electrical wiring port (Ø22)
7	Electrical wiring port (Ø27)
8	Electrical wiring port (Ø35)

The piping of the gas main has a diameter of Ø22,22, but the connection to the service valve of the outdoor unit has a diameter of Ø19,05, so a flare has to be used. Consequently, be sure to use the enclosed joint tube B and joint tube A in making connections (braze).

2-Pipe EC0i EX ME2 Series 8 and 10 HP



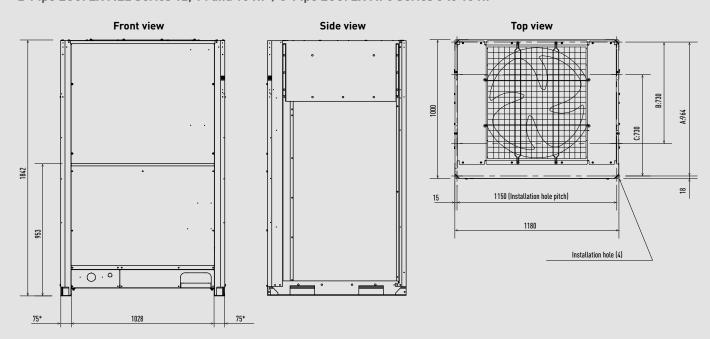


According to the installation site, you may choose the setting position in the depth direction of the anchor bolt from A, B or C.

- A: 964 (Installation hole pitch). The piping is routed out from the front. B: 730 (Installation hole pitch)*. The piping is routed out from the bottom. C: 730 (Installation hole pitch).

Unit: mm

2-Pipe ECOi EX ME2 Series 12, 14 and 16 HP / 3-Pipe ECOi EX MF3 Series 8 to 16 HP



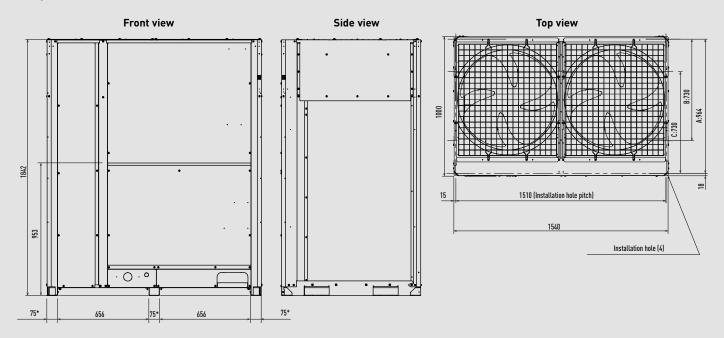
 $According \ to \ the \ installation \ site, \ you \ may \ choose \ the \ setting \ position \ in \ the \ depth \ direction \ of \ the \ anchor \ bolt \ from \ A, \ B \ or \ C.$

- A: 964 (Installation hole pitch). The piping is routed out from the front. B: 730 (Installation hole pitch)*. The piping is routed out from the bottom. C: 730 (Installation hole pitch).

^{*} Installation fixing bracket. Installation side.

^{*} Installation fixing bracket. Installation side.

2-Pipe EC0i EX ME2 Series 18 and 20 HP



According to the installation site, you may choose the setting position in the depth direction of the anchor bolt from A, B or C.

11)

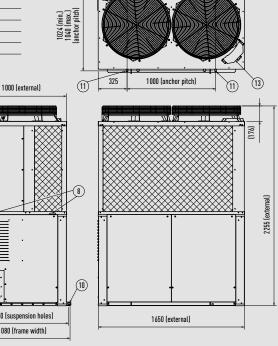
- A: 964 (Installation hole pitch). The piping is routed out from the front. B: 730 (Installation hole pitch)*. The piping is routed out from the bottom. C: 730 (Installation hole pitch).

Unit: mm

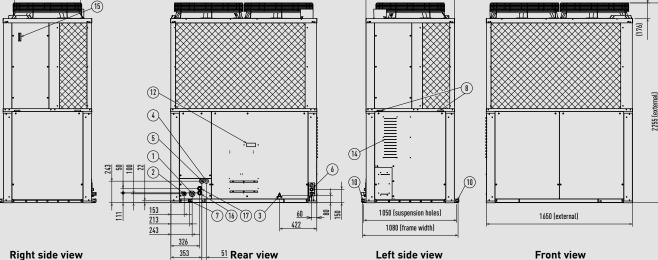
ECO G GE3 Series 16 and 20 HP

	Туре	16 HP	20 HP
1	Refrigerant tubing (gas)	02	3,58
2	Refrigerant tubing (liquid)	Ø12,70	Ø15,88
3	Exhaust gas drain port		liameter: Ø25 ssory)
4	Electrical power supply port	Ø	28
5	Inter-unit cable port	Ø	28
6	Fuel gas port	R	3/4
7	Condensation drain opening	Ø	20
8	Rain and condensation outlet		
	Ø744		

	Туре	16 HP	20 HP
9	Engine exhaust outlet		
10	Suspension holes 4-Ø20x30		
11	Anchor holes 4-22x30		
12	Segmented display		
13	Coolant intake (top)		
14	Air intake		
15	Coolant level		
16	Hot water inlet	Rp3	1/4
17	Hot water outlet	Rp3	1/4



Top view



Unit: mm

^{*} Installation fixing bracket. Installation side.

ECO G GE3 Series 25 and 30 HP

(12) 4

(5) 1

2

326 353

13) (5) (6)

2

3

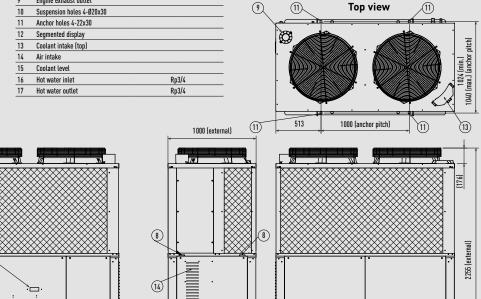
(8)

51 Rear view

353

Rear view

	Туре	25 HP	30 HP		Туре	25 HP	30 HP
1	Refrigerant tubing (gas)	Ø28,58	Ø31,75	9	Engine exhaust outlet		
2	Refrigerant tubing (liquid)	Ø15,88	Ø19,05	10	Suspension holes 4-Ø20x30		
3	Exhaust gas drain port	Hose outer diameter: Ø25 (accessory)		11	Anchor holes 4-22x30		
				12	Segmented display		
4	Electrical power supply port	Ø28		13	Coolant intake (top)		
5	Inter-unit cable port	Ø	28	14	Air intake		
6	Fuel gas port	R3	1/4	15	Coolant level		
7	Condensation drain opening	Ø	20	16	Hot water inlet	Rp3/	4
8	Rain and condensation outlet			17	Hot water outlet	Rp3/	4
	0744						1000 (exte



10

1050 (suspension holes) 1080 (frame width)

Left side view

Unit: mm

ECO G GF3 Series 16 and 20 HP

Ø744

Right side view

Right side view

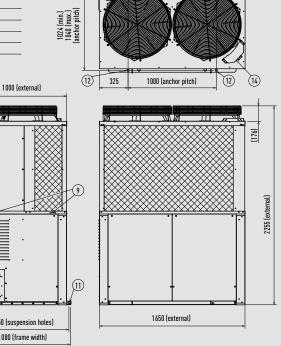
	Туре	16HP	20HP
1	Suction refrigerant tubing (gas)	Ø28	3,58
2	Discharge refrigerant tubing (gas)	Ø22,22	Ø25,40
3	Refrigerant tubing (liquid)	Ø19	,05
4	Exhaust gas drain port	Hose outer d	iameter: Ø25 ssory)
5	Electrical power supply port	Ø	28
	Inter-unit cable port	Ø	28
7	Fuel gas port	R3	3/4
}	Condensation drain opening	Ø	20

9	Rain and condensation outlet	
10	Engine exhaust outlet	
11	Suspension holes 4-Ø20x30	
12	Anchor holes 4-22x30	
13	Segmented display	
14	Coolant intake (top)	
15	Air intake	
16	Coolant level	
17	Hot water inlet	Rp3/4
18	Hot water outlet	Rp3/4

(15)

11,

(10)



2026 (external)

Front view

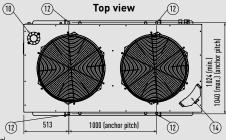
Top view

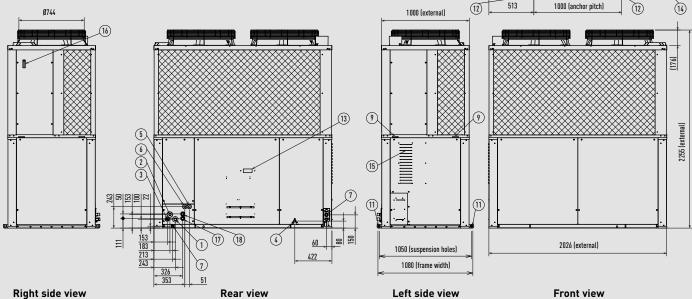
(12)

12

ECO G GF3 Series 25 HP

1	Suction Refrigerant tubing (gas)	Ø28,58	10	Engine exhaust outlet
2	Discharge Refrigerant tubing (gas)	Ø25,40	11	Suspension holes 4-Ø20x30
3	Refrigerant tubing (liquid)	Ø19,05	12	Anchor holes 4-22x30
4	Exhaust gas drain port	Hose outer diameter: Ø25	13	Segmented display
		(accessory)	14	Coolant intake (top)
5	Electrical power supply port	Ø28	15	Air intake
6	Inter-unit cable port	Ø28	16	Coolant level
7	Fuel gas port	R3/4	17	Hot water inlet
3	Condensation drain opening	Ø20	18	Hot water outlet
9	Rain and condensation outlet			



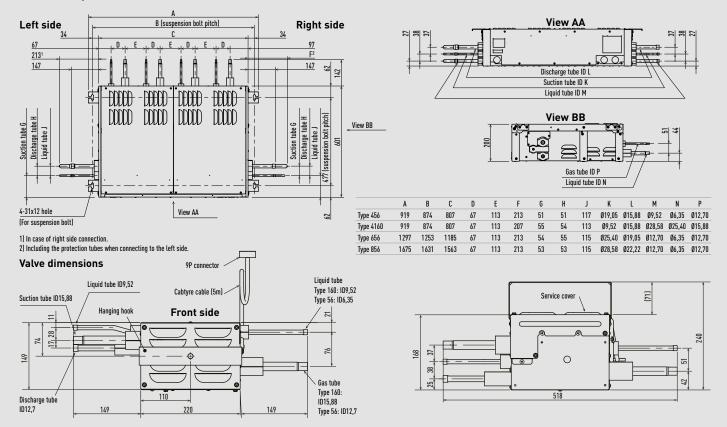


Rp3/4 Rp3/4

Unit: mm

3-Pipe Control Box Kit / Multiple connection type

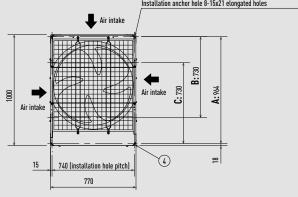
Heat recovery box dimensions

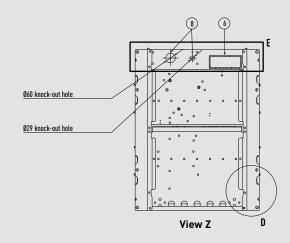


Unit: mm

2-Pipe Hybrid EHP - U-10MES2E8

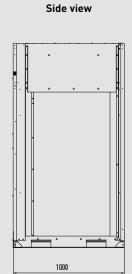
Top view Installation anchor hole 8-15x21 elongated holes

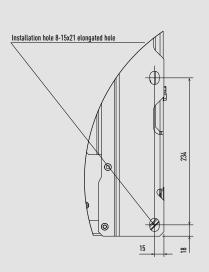




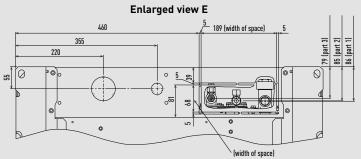
Front view 11) Electrical component box (10) 1842 953 353 75* 75*

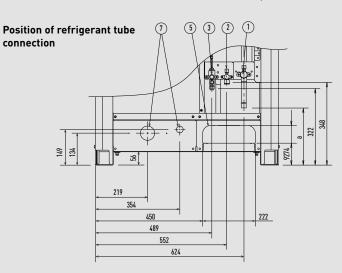
* Installation fixing bracket. Installation side.





Enlarged view D





1	Refrigerant tubing (gas), Ø22,22 (brazed)
2	Refrigerant tubing (liquid), Ø9,52 (flared)
3	Refrigerant tubing (balance), Ø6,35 (flared)
4	Installation holes(8-15x21 elongated holes), anchor bolts M12 or larger
5	Refrigerant tubing port (front: knock-out hole)
6	Refrigerant tubing port (bottom: slit hole)
7	Electrical wiring port (front: Ø60, Ø29 knock-out hole - for conduit connection)
8	Electrical wiring port (bottom: Ø60, Ø29 knock-out hole - for conduit connection)
9	Pressure outlet port (for high pressure: Ø7,94 Schrader type connection)

10 Pressure outlet port (for low pressure: Ø7,94 Schrader type connection)

11 Terminal plate

Terminal plate for inter-unit control wiring and/or inter-outdoor unit control wiring

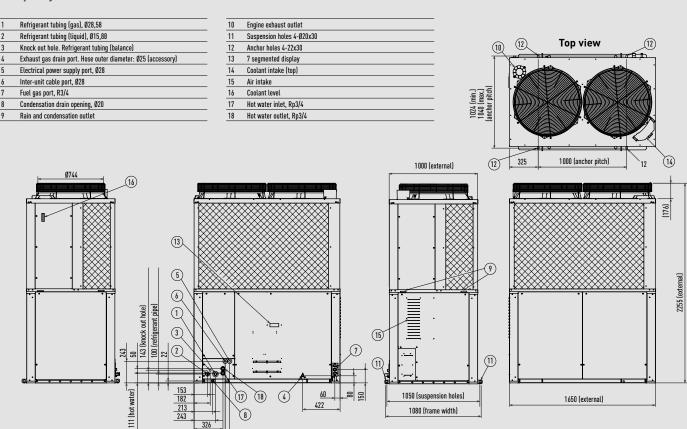
According to the installation site, you may choose the setting position in the depth direction of the anchor bolt from "A", "B" or "C".

A: 964 (Installation hole pitch) * The tubing is routed out from the front.

B: 730 (Installation hole pitch) * The tubing is routed out from the bottom.

C: 730 (Installation hole pitch)

2-Pipe Hybrid GHP - U-20GES3E5



Left side view

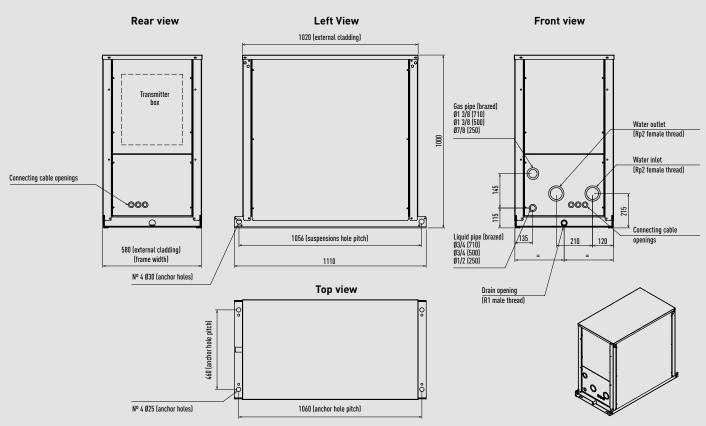
Rear view

Unit: mm

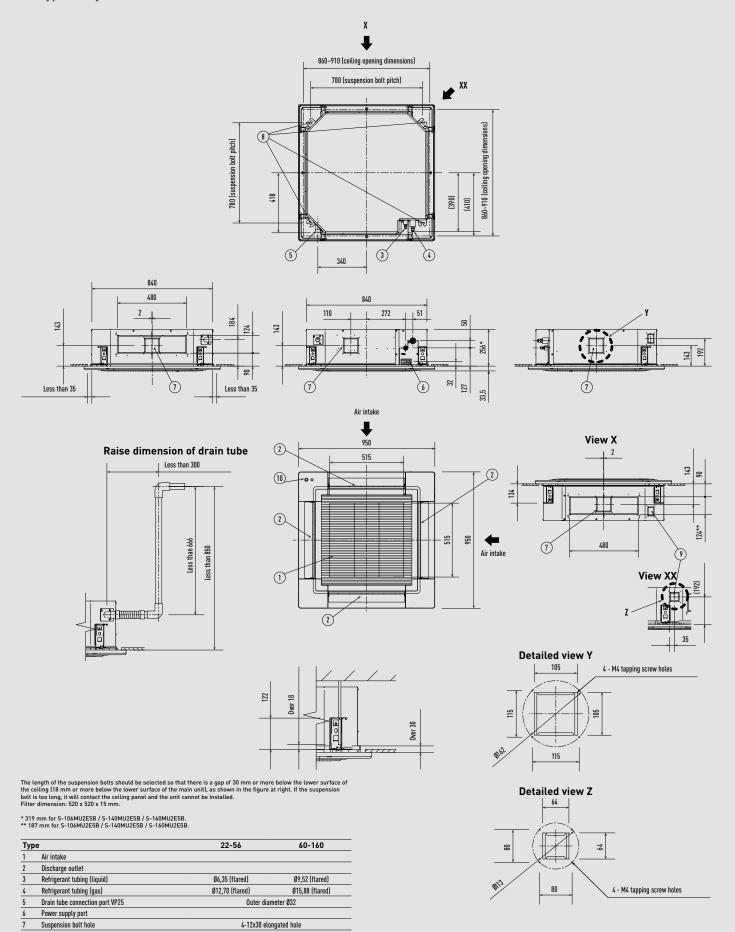
Front view

Water heat exchanger for chilled and hot water production

Right side view



U2 Type 4 way 90x90 cassette

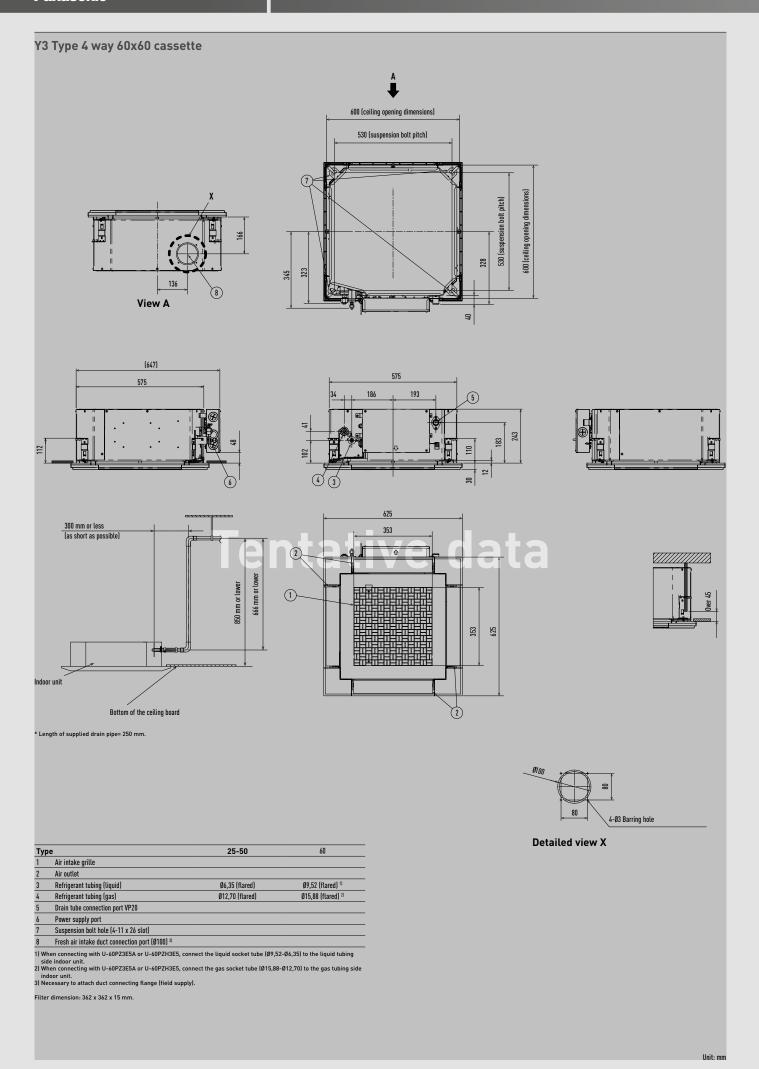


¹⁰ Econavi sensor (only CZ-KPU3A) 1) Necessary to attach duct connecting flange(field supplied).

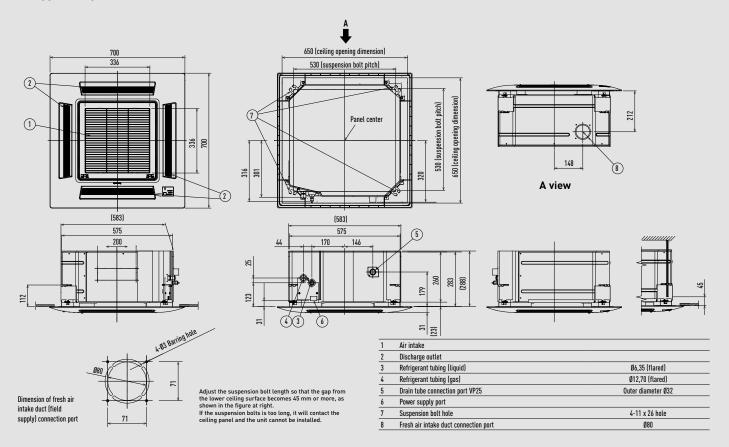
Ø100 1) 4-12x30 elongated hole

Suspension bolt hole Fresh air intake duct connection port

Suspension bolt hole

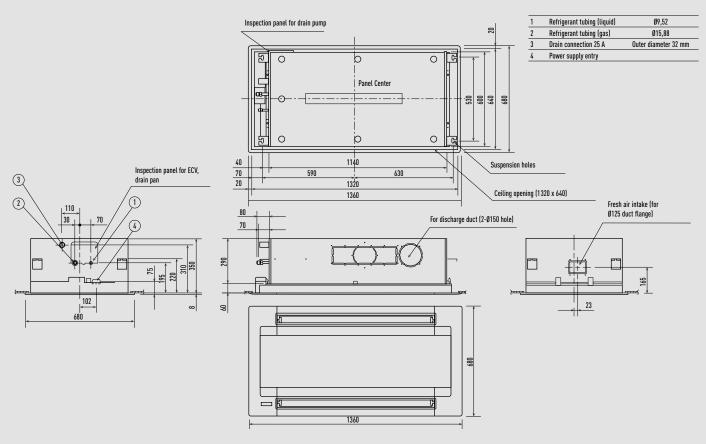


Y2 Type 4 way 60x60 cassette



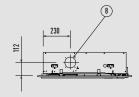
Unit: mm

L1 Type 2 Way Cassette

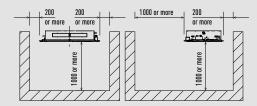


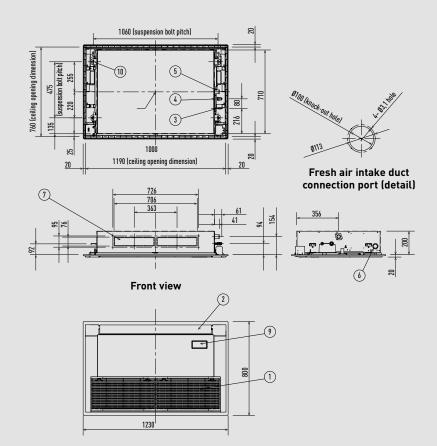
D1 Type 1 way cassette

		28-56	73						
1	Air intake grille								
2	Discharge outlet								
3	Refrigerant tubing (liquid)	Ø6,35 (flared)	Ø9,52 (flared)						
4	Refrigerant tubing (gas)	Ø12,70 (flared)	Ø15,88 (flared)						
5	Drain tube connection port VP25	Outer dia	meter32						
6	Power supply entry								
7	Discharge duct connection port (for desce	ending ceiling)							
8	Fresh air intake duct connection port Ø100								
9	Installation port for wireless remote cont	roller receiver							
10	Suspension bolt hole	4-12 x	30 mm						

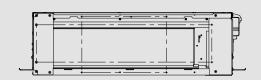


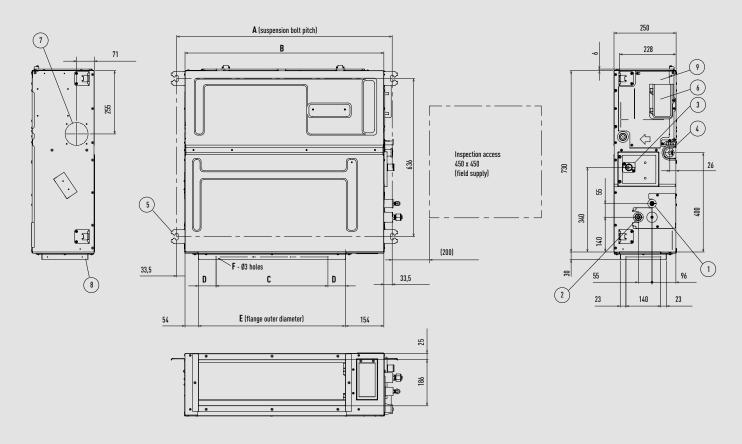
Required space for installation





F3 Type variable static pressure adaptive duct





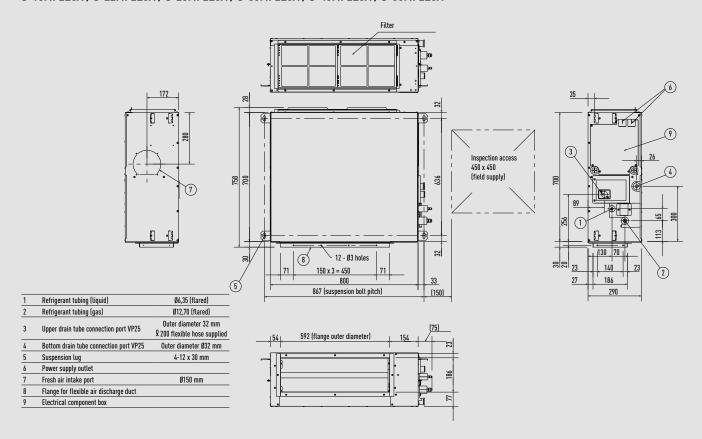
	Α	В	С	D	E	F
	mm	mm	mm	mm	mm	Q'ty
S-15MF3E5B, S-22MF3E5B, S-28MF3E5B, S-36MF3E5B, S-45MF3E5B, S-56MF3E5B S-15MF3E5A, S-22MF3E5A, S-28MF3E5A, S-36MF3E5A, S-45MF3E5A, S-56MF3E5A	867	800	450 (pitch 150 x 3)	71	592	12
S-60MF3E5B, S-73MF3E5B, S-90MF3E5B S-60MF3E5A, S-73MF3E5A, S-90MF3E5A	1067	1000	750 (pitch 150 x 5)	21	792	16
S-106MF3E5B, S-140MF3E5B, S-160MF3E5B S-106MF3E5A, S-140MF3E5A, S-160MF3E5A	1467	1400	1050 (pitch 150 x 7)	71	1192	20

Туре	15-90MF3E5B	106-160MF3E5B	15-56MF3E5A	60-160MF3E5A
1 Refrigerant tubing (liquid)	Ø6,35 (flared)	Ø9,52 (flared)	Ø12,70 (flared)	Ø15,88 (flared)
2 Refrigerant tubing (gas)				
3 Upper drain tube connection port VP20		Outer diameter 26 mm 200	mm flexible hose supplied	
4 Bottom drain tube connection port VP20		Outer diame	eter 26 mm	
5 Suspension lug		4-12 x	30 mm	
6 Power supply outlet				
7 Fresh air intake port		Ø100	mm*	
8 Flange for flexible air discharge duct				
9 Electrical component box				

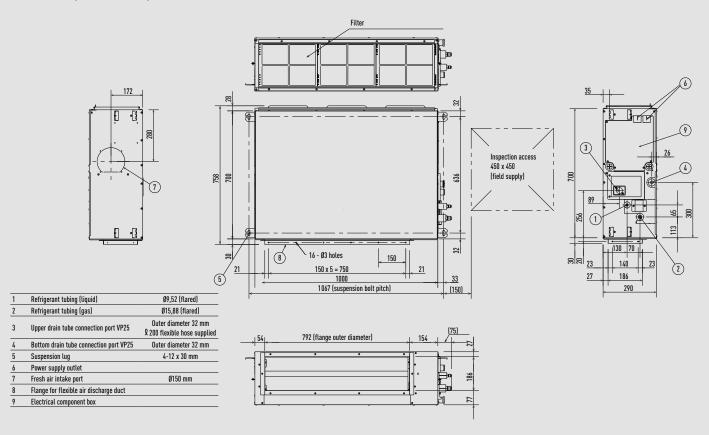
^{*} Necessary to attach duct connecting flange (field supply).

F2 Type variable static pressure hide-away

S-15MF2E5A / S-22MF2E5A / S-28MF2E5A / S-36MF2E5A / S-45MF2E5A / S-56MF2E5A

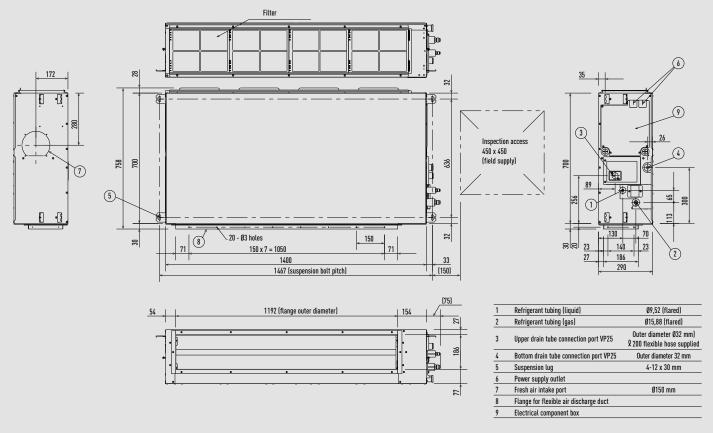


S-60MF2E5A / S-73MF2E5A / S-90MF2E5A



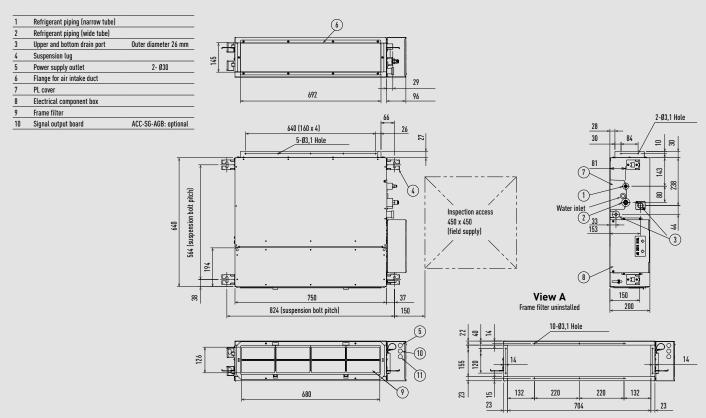
F2 Type variable static pressure hide-away

S-106MF2E5A / S-140MF2E5A / S-160MF2E5A

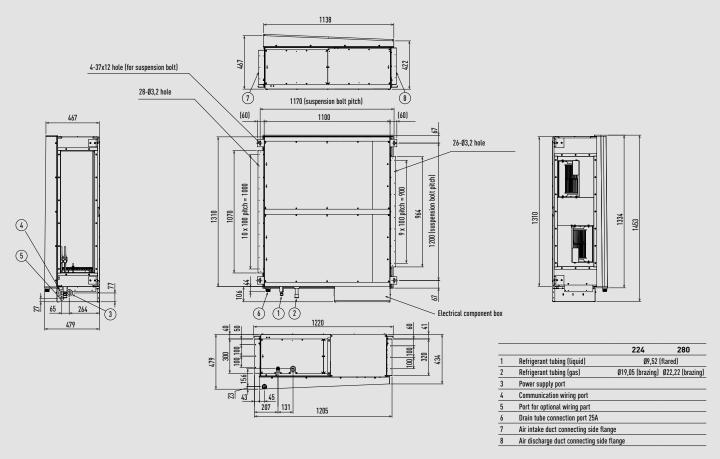


Unit: mm

M1 Type slim variable static pressure hide-away concealed duct



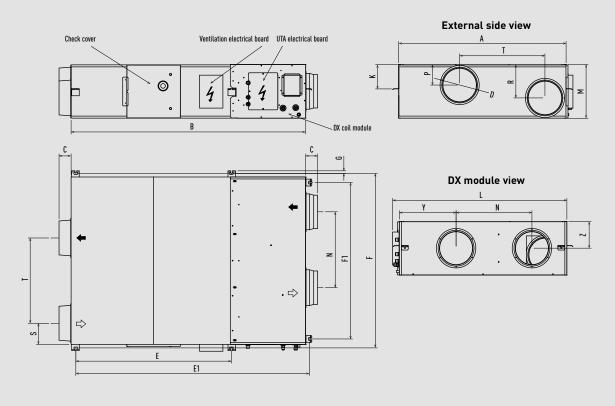
E2 Type high static pressure hide-away



Unit: mm

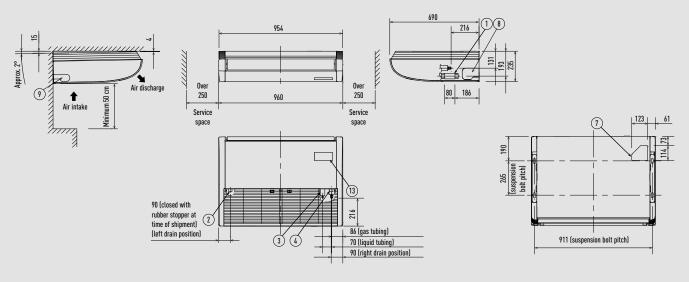
Heat recovery with DX coil

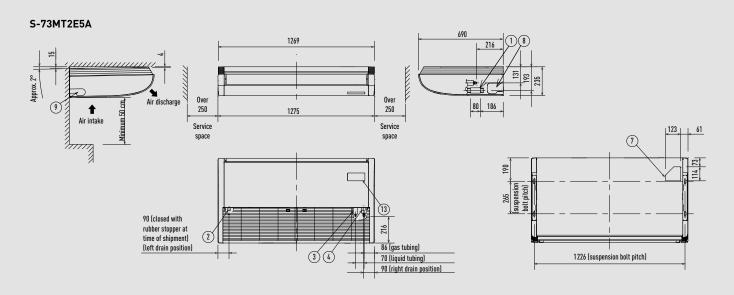
	Α	В	С	D	E	E1	F	F1	G	L	Т	K	М	N	Р	R	S	Υ	Z	Net weight
PAW-500ZDX3N	904	1400	107	200	825	1395	960	830	19	955	500	135	270	350	135	135	202	350	135	90 - 98
PAW-800ZDX3N	1134	1695	85	250	1115	1685	1190	1060	19	1200	678	170	388	500	170	170	228	415	195	100 - 110
PAW-01KZDX3N	1216	1700	85	250	1130	1700	1273	1140	19	1290	621	171	388	550	146	241	151	415	195	105 - 120

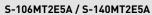


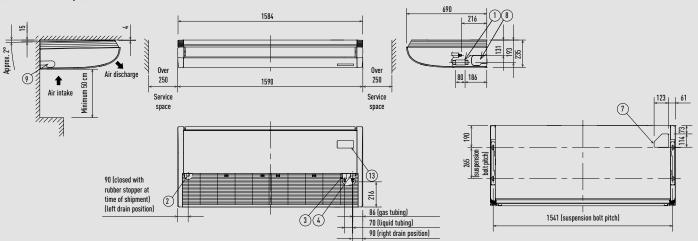
T2 Type ceiling

S-36MT2E5A / S-45MT2E5A / S-56MT2E5A







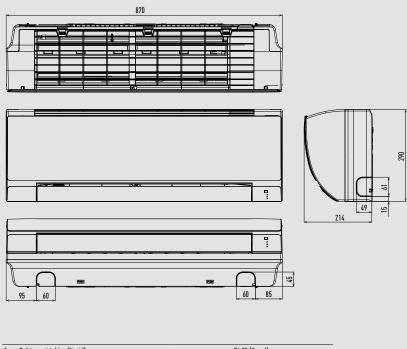


1	Drain tube connection port VP20	Inside diameter Ø26 mm, drain hose supplied
2	Left drain position	
3	Refrigerant tubing (liquid)	Ø9,52 (flared)
4	Refrigerant tubing (gas)	Ø15,88 (flared)
5	Left side drain hose outlet nort (cut out)	

6	Tubing hole on wall surface	Ø100 mm
7	Upper side tubing port	
8	Right side drain hose outlet port (cut out)	
9	Wireless remote controller receiver installation location	

K2 Type wall-mounted

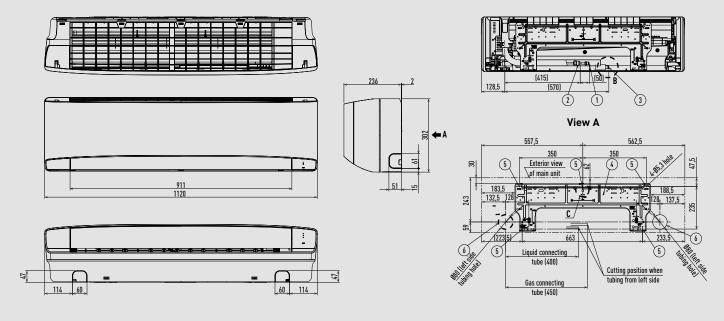
S-15MK2E5B / S-22MK2E5B / S-28MK2E5B / S-36MK2E5B

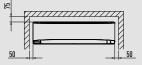


183	2 1 3
5	5
6 128 241,5 438,5	128 241,5 438,5
100	50

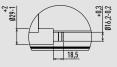
1	Refrigerant tubing (liquid)	Ø6,35 (flared)
2	Drain hose	Outer diameter 16 mm
3	Rear panel	PL Back
4	Refrigerant tubing (gas)	Ø12,70 (flared)
5	Rear panel fixing holes	
6	Pining and wiring holes	070

S-45MK2E5B / S-56MK2E5B / S-73MK2E5B / S-106MK2E5B





Minimum space requirements for installation



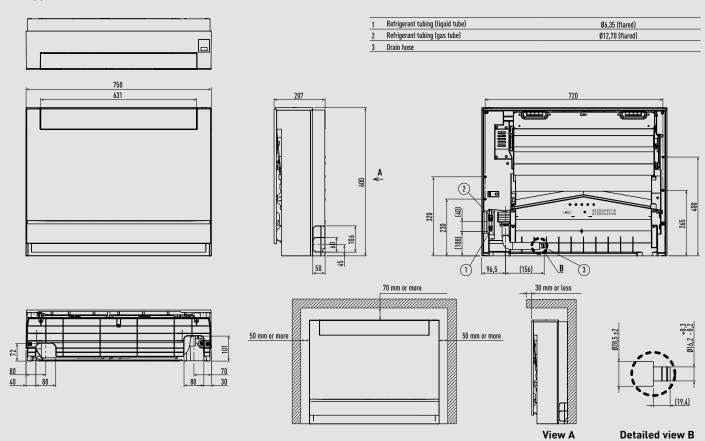
Detailed view B



Detailed view C

Туре	1	45-56	73-106
1	Refrigerant tubing (liquid)	Ø6,35 (flared)	Ø9,52 (flared)
2	Refrigerant tubing (gas)	Ø12,70 (flared)	Ø15,88 (flared)
3	Drain hose		
4	Rear panel		
5	Rear panel fixing holes (Ø5,3 holes or as	shown in figure "C")	
6	Tuhing and wiring holes (Ø80)		

G1 Type floor console



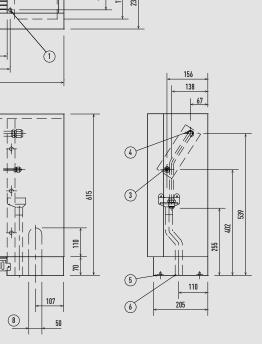
Unit: mm

P1 Type floor-standing

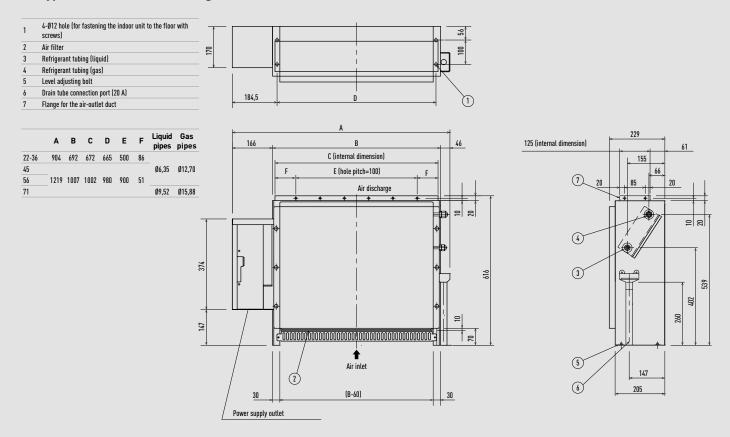
1	4-Ø12 hole (fo screws)	r fastening	the indoor	unit to the fl	oor with	7		9			161	26	1	1
2	Air filter							/					22	5
3	Refrigerant tu	bing (liquid)			<u> </u>		_/_		1			+	# 1
4	Refrigerant tu	bing (gas)				(60,5)	-	/+	 		→		\downarrow	
5	Level adjustin	g bolt				60					∃; ;		<u></u>	
6	Drain tube cor	nection po	rt (20 A)			밑					∃ ↓!!∐			230
7	Power cord ou	tlet (downv	vard, rear)			60,5		<u>Ψι</u>	 					<u> </u>
8	Refrigerant pi	ping outlet	(downward	, rear)		≥1					$\parallel \setminus -$			
9	Location for m controller can				ote				С	<u> </u>				
									B	3	→			
	A	В	С	Liquid pipes	Gas pipes				A	1				
22-36	1065	665	632							Air discharge				
45				Ø6,35	Ø12,70		F		 			1	-	
56	1380	980	947					1 1						
71				Ø9,52	Ø15,88					1	T			
								141			191			4
								ii			1 1			
								1 1		1	+			

Air inlet

2

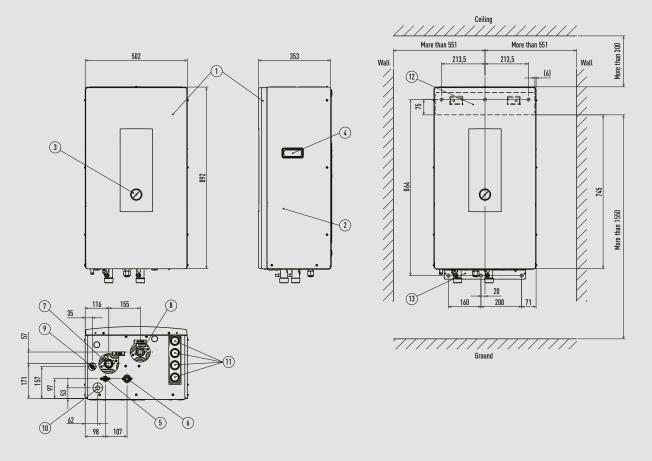


R1 Type concealed floor-standing



Unit: mm

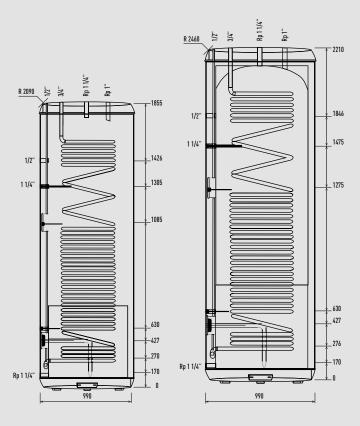
Hydrokit for EC0i, water at 45 $^{\circ}\text{C}$



EC0i PR0-HT Tank

PAW-VP750LDHW-1

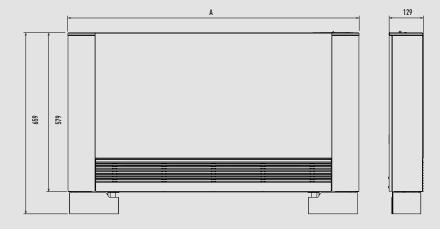
PAW-VP1000LDHW-1

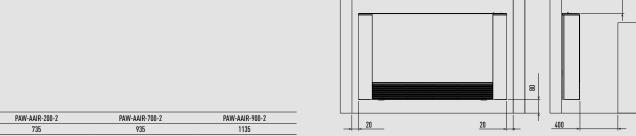


Note: R value indicates maximum overturning height.

Unit: mm

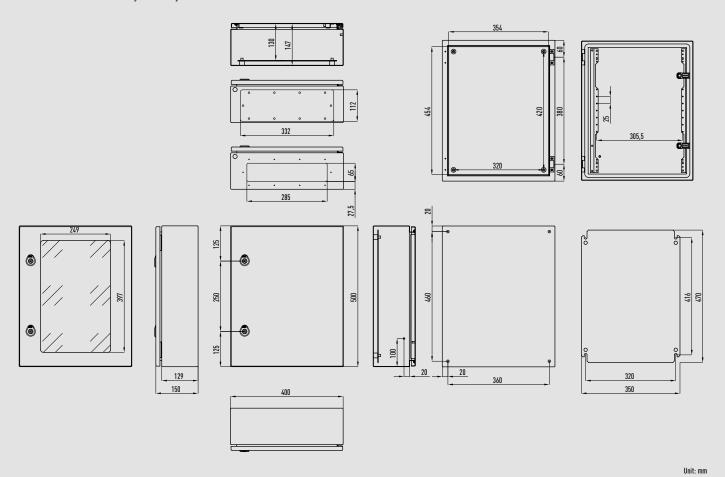
Smart fan coils



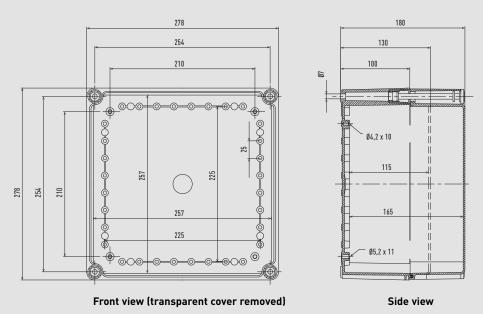


140

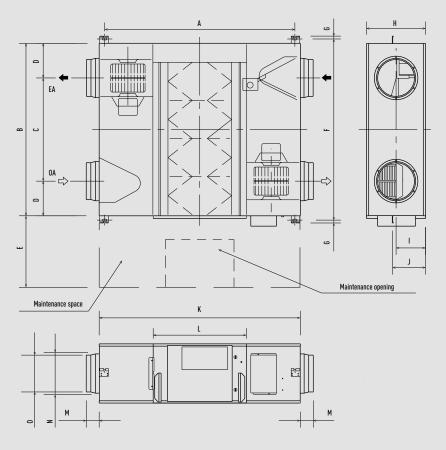
AHU connection kit 3,6 to 14,0 kW for PACi NX



AHU Connection Kit



Energy recovery ventilation

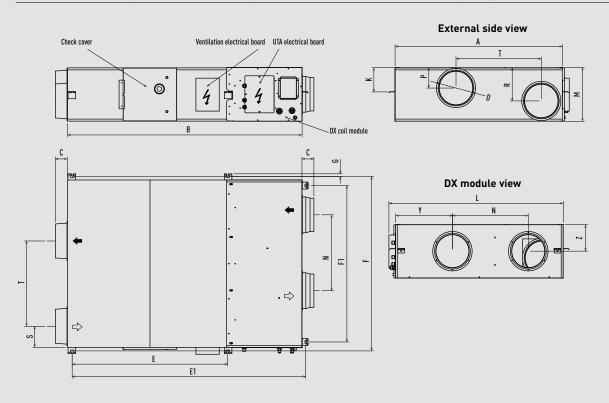


	FY-250ZDY8R	FY-350ZDY8R	FY-500ZDY8R	FY-800ZDY8R	FY-01KZDY8R
Α	810	978	1018	1250	1250
В	599	804	904	884	1134
С	315	580	640	428	678
D	142	112	132	228	228
E	600	600	600	600	600
F	655	860	960	940	1190
G	19	19	19	19	19
Н	270	317	317	388	388
ī	135	159	159	194	194
J	159	182	182	218	218
K	882	1050	1090	1322	1322
L	414	470	470	612	612
М	95	70	70	85	85
N	164	164	210	258	258
0	144	144	194	242	242

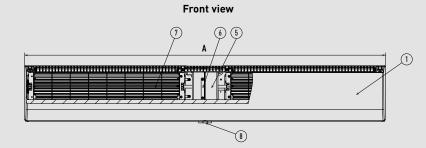
Unit: mm

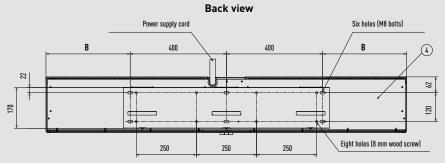
Heat recovery with DX coil

	Α	В	С	D	E	E1	F	F1	G	L	Т	K	М	N	Р	R	S	Υ	Z	Net weight
PAW-500ZDX3N	904	1400	107	200	825	1395	960	830	19	955	500	135	270	350	135	135	202	350	135	90 - 98
PAW-800ZDX3N	1134	1695	85	250	1115	1685	1190	1060	19	1200	678	170	388	500	170	170	228	415	195	100 - 110
PAW-01KZDX3N	1216	1700	85	250	1130	1700	1273	1140	19	1290	621	171	388	550	146	241	151	415	195	105 - 120

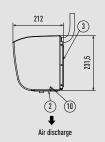


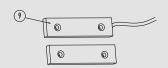
Electric air curtain





Right view





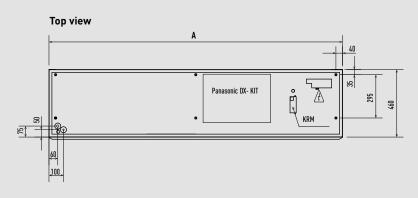
1	Front panel
2	Air discharge
3	Mounting plate
4	Back panel
5	Motor

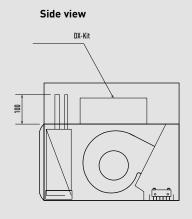
6	Motor support
7	Cross-flow impeller
8	Push-button switch
9	Gate magnetic switch
10	Guide plate

	FY-3009U1	FY-3012U1	FY-3015U1
Α	900	1200	1500
В	50	200	350

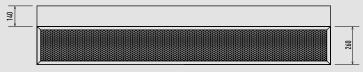
Unit: mm

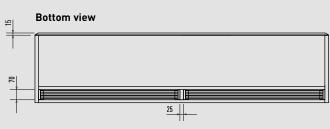
Air curtain with DX coil





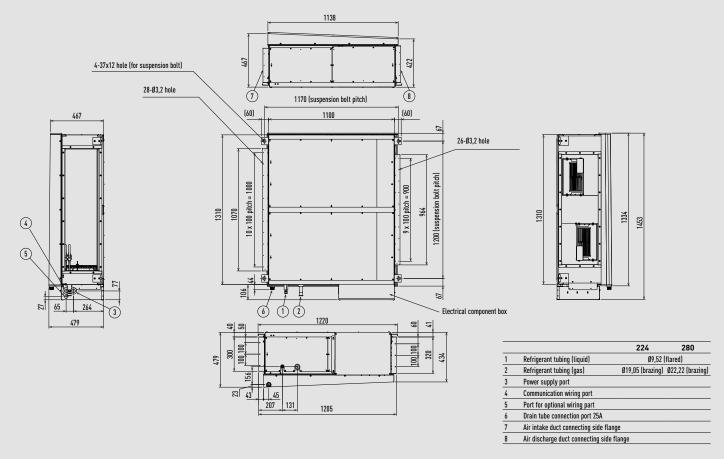
Front view



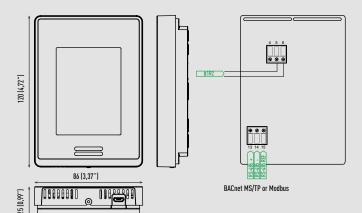


	PAW-10PAIRC-LS	PAW-15PAIRC-LS	PAW-20PAIRC-LS	PAW-25PAIRC-LS
	PAW-10PAIRC-HS	PAW-15PAIRC-HS	PAW-20PAIRC-HS	PAW-25PAIRC-HS
	PAW-10EAIRC-LS	PAW-15EAIRC-LS	PAW-20EAIRC-LS	PAW-25EAIRC-LS
	PAW-10EAIRC-HS	PAW-15EAIRC-HS	PAW-20EAIRC-HS	PAW-25EAIRC-HS
A	1,0m	1,5m	2,0m	2,5m

E2 Type high static pressure hide-away



Room controller for SE8000



Check with your local government for instruction on disposal of these products.

THIS PRODUCT FOR COMMERCIAL USE ONLY.

Dimensions:

Height: 12 cm/4,72 in. Width: 8.6 cm/3.39 in. Depth: 2,7 cm/1,06 in.

Power requirements:

16 Vdc from Panasonic R-R IDU connectors. 50/60 Hz, 4 VA, Class 2 Supply.

Range from indoor unit: Recommended 500 ft (150 m).

Operating conditions: 0 °C to 50 °C (32 °F to 122 °F).

0% to 95% R.H. non-condensing.

Storage conditions:

-30 °C to 50 °C (-22 °F to 122 °F). 0% to 95% R.H. non-condensing.

Temperature sensor: Local 10 K NTC type 2 thermistor.

Temperature sensor resolution:

Temperature sensor accuracy: \pm 0,5 °C (\pm 0,9 °F) @ 21 °C (70 °F) typical calibrated.

Humidity sensor and calibration: Single point calibrated bulk polymer type sensor.

Humidity sensor precision:

Reading range from 10% to 90% R.H. non-condensing. 10% to 20% precision: 10%. 20% to 80% precision: 5%. 80% to 90% precision: 10%.

Humidity sensor stability: Less than 1,0% yearly (typical drift).

Wiring:

Maximum wire length between last indoor unit to SER8150RxB1194 equals 490 ft (150 m) with AWG #18 wire (0,82 mm²). Refer to Panasonic VRF guidelines "Wiring system

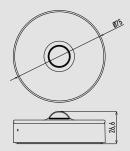
diagram for remote controller" for this limitation.

Approximate shipping weight:

0,34 kg (0,75 lb)

Unit: mm

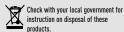
Wall/ceiling wireless sensor SED-MTH-G-5045



Certification







Dimensions:

70 mm diameter x 26,6 mm.

Colour:

Weight:

Communication: ZiaBee 3.0 HA.

Detection range: Ceiling: Ø4m (installation height 2,5 m). Wall: R5m (installation height 1,2 m).

Battery voltage:

Battery cell: LR03 AAA (2 pcs).

Battery life: Up to 5 years.

Ambient temperature:

-10 °C ~ +50 °C.

Door/window wireless sensor SED-WDC-G-5045

Master part 50 **((·))**

Slave part



Certification









Check with your local government for instruction on disposal of these products.

Dimensions: Master part: 50 x 33 x 16,3 mm. Slave part: 50 x 9 x 9 mm.

White / transparent.

Weight: 30 g

Communication: ZigBee 3,0 HA.

Detection range: Trigger 'close': wood 30 mm, metal 18 mm. Trigger 'open': wood 32 mm, metal 20 mm.

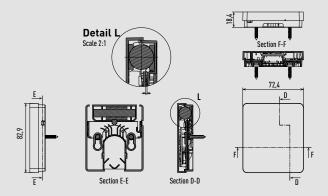
Battery voltage:

Battery cell: CR2450

Battery life: Up to 5 years.

Ambient temperature:

CO, sensor SED-CO2-G-5045



Certification





Dimensions:

3,26 x 2,85 x 0,72 inches. 82,9 x 72,4 x 18,4 mm.

Operating temperature: 0 °C to 50 °C (32 °F to 122 °F).

Temperature accuracy: $\pm 0.3~^{\circ}\text{C}$ (0,54 °F) typical within operating range.

Humidity range: 0% to 100%.

Humidity accuracy: ± 3% RH (typical within 0% to 80% RH).

Measurement range: 0 to 5000ppm.

Measurement/Transmission intervals: 2,5 minutes (day), 10 minutes (evening). Note: Battery life will be reduced should interval be

shortened (i,e, using remote temperature/humidity functions).

CO₂ accuracy at NTP:

±60 ppm +3% of reading (400 - 2,000 ppm range).

Zigbee 3,0 Green Power (encrypted, bi-directional).

Battery voltage: 3,6 V.

Battery cell: AA Lithium ion.

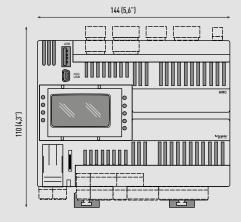
Battery life:

10+ years (non-replaceable).
Note: Battery life can be reduced when sensor is operated at temperatures approaching the operating limits.

Ambient temperature: -30 °C to 70 °C.

Unit: mm

Hotel room controller (HRC)



Dimensions: 5,6 x 4,3 x 2,4 inches.

144 x 110 x 60,5 mm.

Digital inputs:

High voltage relay digital outputs: 10 x 3 A SPST +250 VAC relays.

Analog inputs: 2 x configurable analog inputs. DI: voltage free DI, 10 k Ω input impedance. 0-20 mA: range 0,1000, < 150 Ω impedance. 0-10 V: range 0,1000 > 10 $k\Omega$ impedance.

Analog outputs: 6 x 0-10 V outputs, Load impedance > 700 Ω .





Supply voltage: 24 VAC + 10% NOT ISOLATED. +20...38 Vdc NOT ISOLATED.

Supply frequency: 50/60 Hz.

Power cycle: 35 VA / 15 W.

Operating temperature: -20 to 60 °C (-4 to 140 °F) conforming to UL 60730-1.

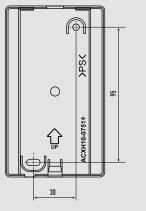
Storage temperature: -30 to 70 °C (-22 to 158 °F).

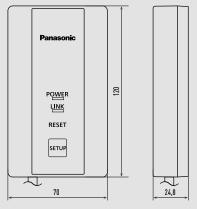
* Power supply is not included.



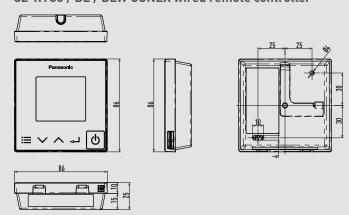
Check with your local government for instruction on disposal of these products.

CZ-CAPWFC1 Commercial Wi-Fi Adaptor

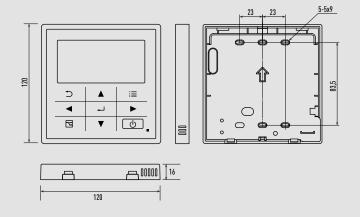




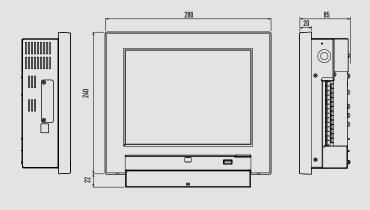
CZ-RTC6 / BL / BLW CONEX wired remote controller



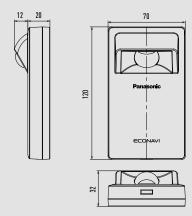
CZ-RTC5B design wired remote controller

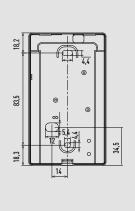


CZ-256ESMC3 intelligent controller (touch screen/web server)

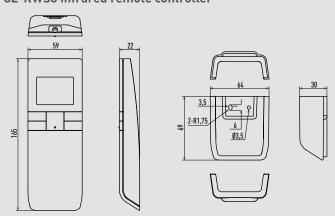


CZ-CENSC1 Econavi sensor

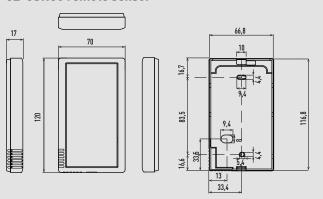




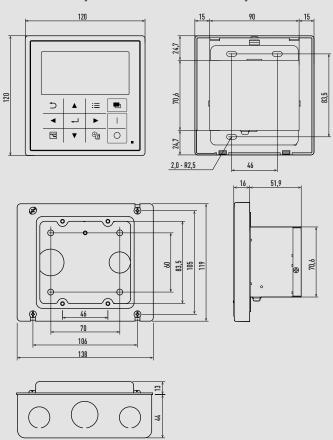
CZ-RWS3 infrared remote controller



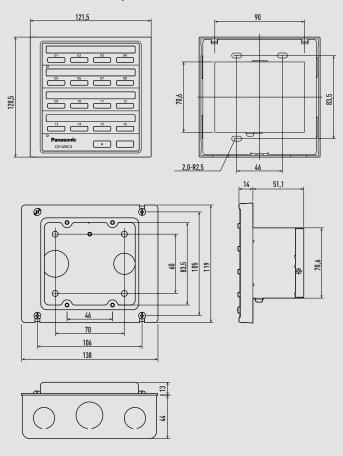
CZ-CSRC3 remote sensor



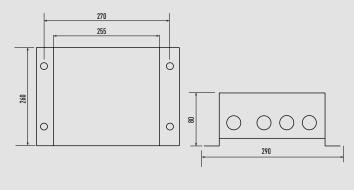
CZ-64ESMC3 system controller with weekly timer



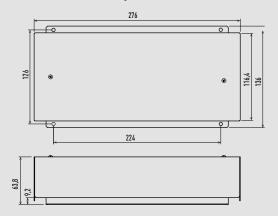
CZ-ANC3 central ON/OFF controller



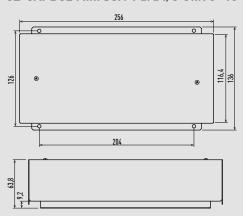
CZ-CAPDC2 Seri-Para I/O unit for outdoor unit



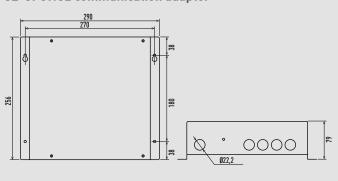
CZ-CAPC3 local adaptor for ON/OFF control



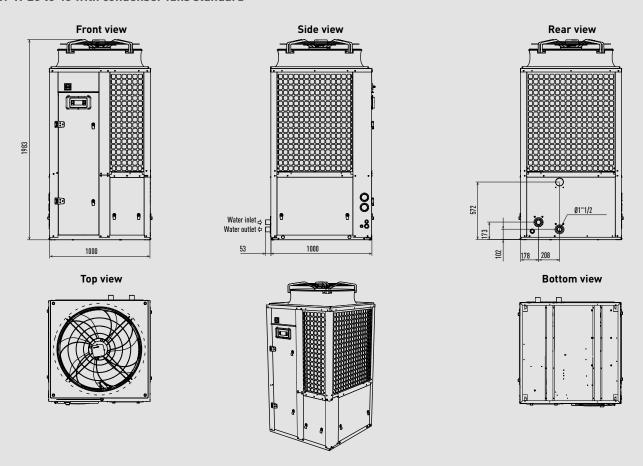
CZ-CAPBC2 Mini Seri-Para I/O Unit 0 -10 V



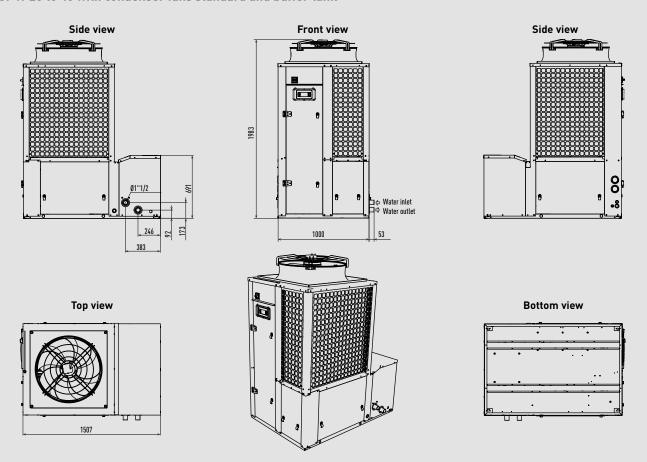
CZ-CFUNC2 communication adaptor



ECOi-W 20 to 40 with condenser fans standard

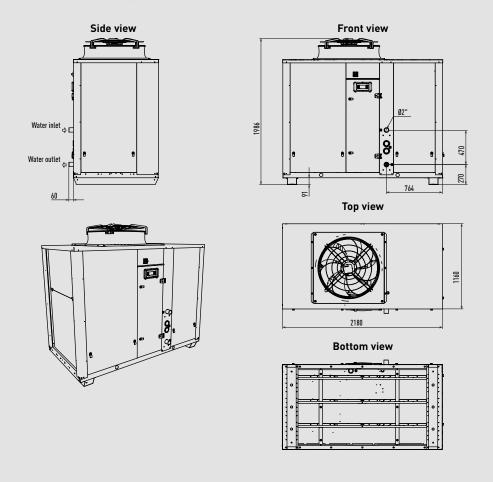


ECOi-W 20 to 40 with condenser fans standard and buffer tank



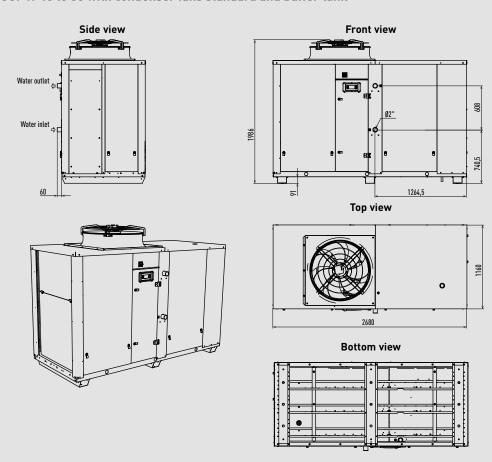
Unit: mm

ECOi-W 45 to 55 with condenser fans standard

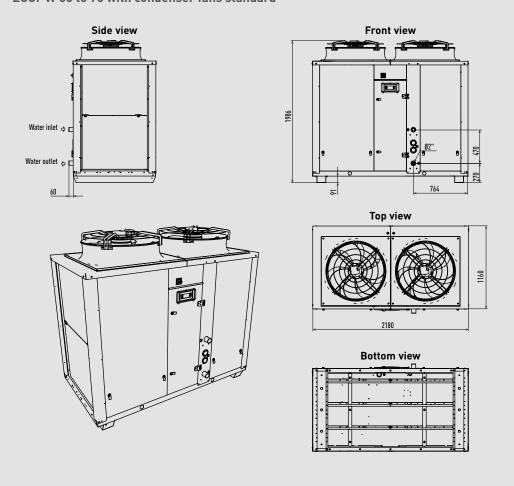


Unit: mm

ECOi-W 45 to 55 with condenser fans standard and buffer tank

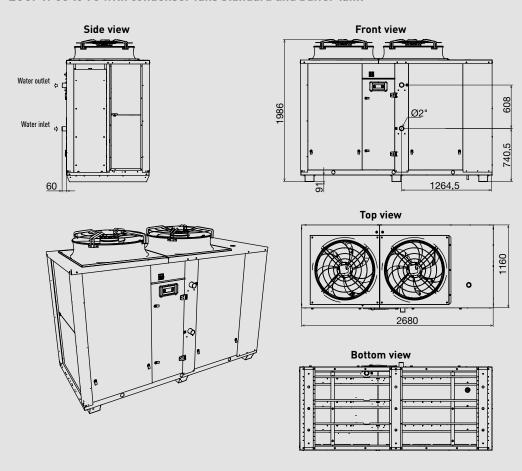


ECOi-W 65 to 75 with condenser fans standard

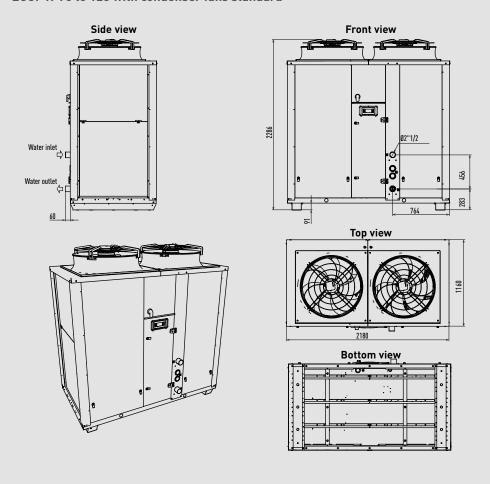


Unit: mm

ECOi-W 65 to 75 with condenser fans standard and buffer tank

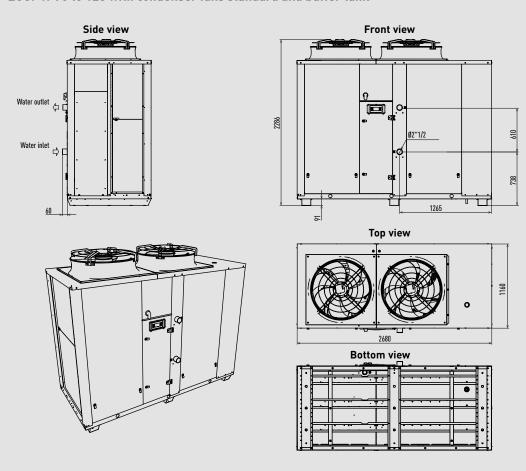


ECOi-W 90 to 125 with condenser fans standard

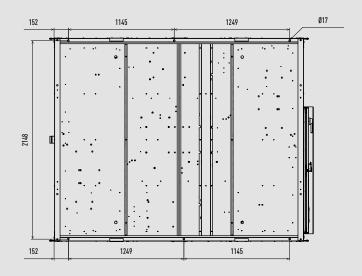


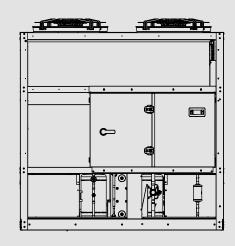
Unit: mm

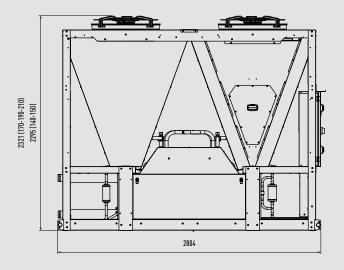
ECOi-W 90 to 125 with condenser fans standard and buffer tank

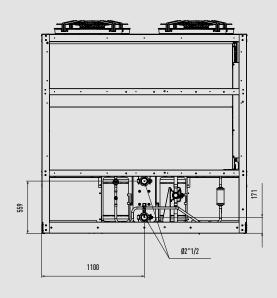


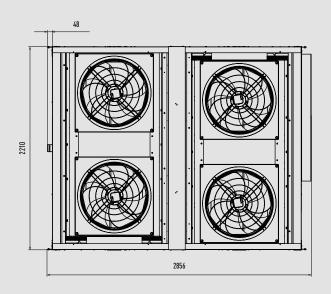
EC0i-W 140 to 210 without pump

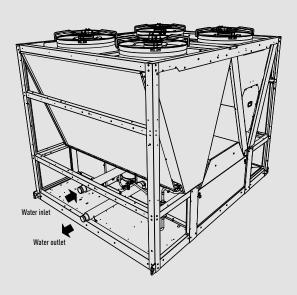




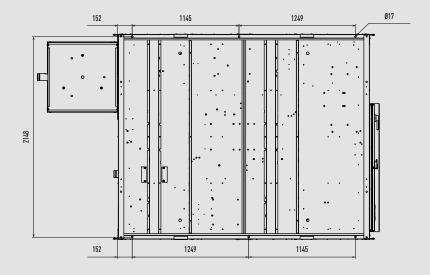


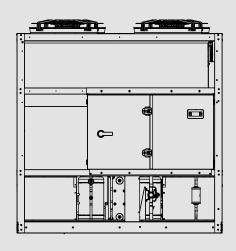


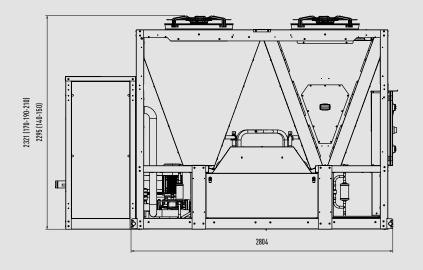


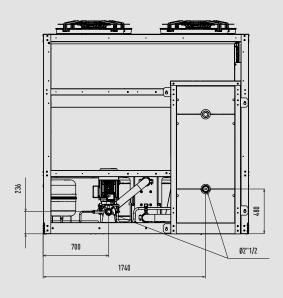


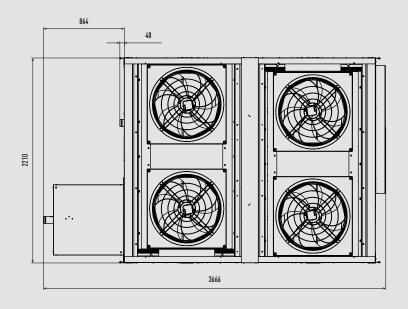
ECOi-W 140 to 210 with 1 pump and buffer tank

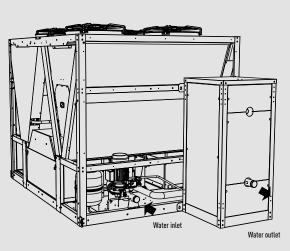




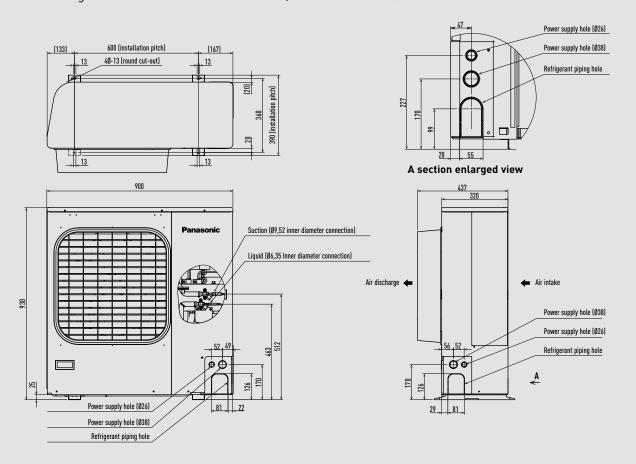






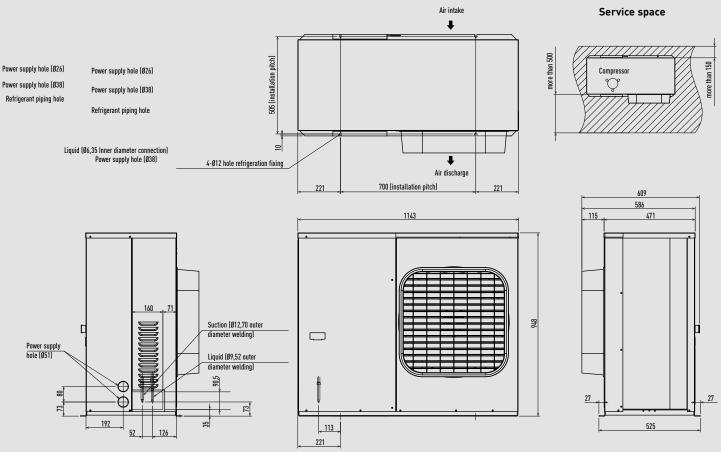


Condensing units - CR Series OCU-CR200VF5A / OCU-CR200VF5ASL

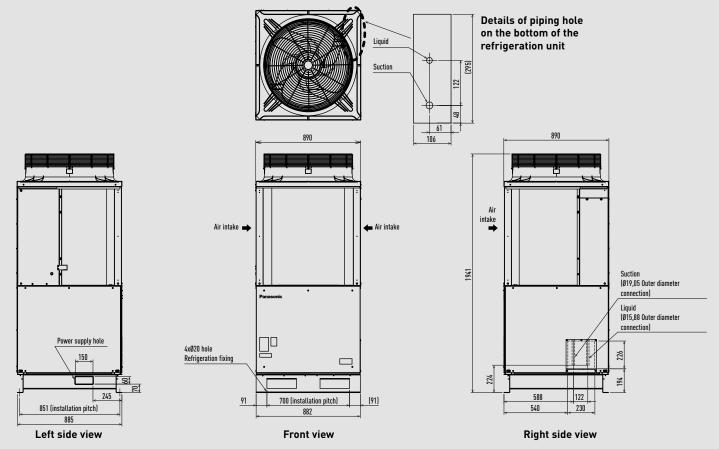


Unit: mm

Condensing units - CR Series OCU-CR400VF8 / OCU-CR400VF8SL / OCU-CR400VF8A / OCU-CR400VF8ASL



Condensing units - CR Series OCU-CR1000VF8 / OCU-CR1000VF8SL / OCU-CR1000VF8A / OCU-CR1000VF8ASL



Wiring diagrams

Domestic

Wall-mounted kits 1x1	\rightarrow 569
Floor console kits 1x1	→ 570
Low static pressure hide-away kits 1x1	⇒ 570
Free Multi System 2 rooms	→ 571
Free Multi System 3 rooms	→ 571
Free Multi System 4 rooms	→ 572
Free Multi System 5 rooms	→ 572

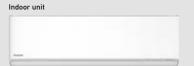
Commercial

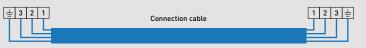
Wall-mounted Professional kits 1x1	<i>→</i> 573
PACi NX wall-mounted kits 1x1	→ 573
PACi NX 4 way 60x60 cassette kits 1x1	⇒ 574
PACi NX 4 way 90x90 cassette kits 1x1	⇒ 574
PACi NX ceiling kits 1x1	→ 575
PACi NX adaptive ducted unit kits 1x1	<i>→</i> 575
Big PACi high static pressure hide-away kits 1x1	⇒ 576
PACi 4 way 60x60 cassette kits 1x1	⇒ 576
PACi NX twin system	→ 577
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VRF Systems

Mini ECOi Series	<i>→</i> 578
ECOi EX and ECO G Series	→ 579
Hybrid GHP/EHP	→ 579

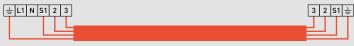
Wall-mounted kits 1x1



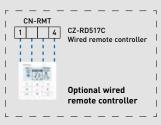


Outdoor unit

Attention: Wall-mounted Etherea and TZ super-compact have different connection terminals







Power supply to indoor or outdoor depending on model, see table.

Wall-mounted Heatcharge VZ · R32

Indoor unit	Power supply	Recommended fuse	Connection indoor / outdoor	Outdoor unit
CS-VZ9SKE	230 V (indoor)	16 A	4 x 1,5 mm²	CU-VZ9SKE
CS-VZ12SKE	230 V (indoor)	16 A	4 x 1,5 mm²	CU-VZ12SKE

Wall-mounted Etherea Graphite grey, Silver and Matt white \cdot R32

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-XZ20XKEW / CS-Z20XKEW	230 V (indoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm²	CU-Z20XKE
CS-XZ25XKEW / CS-Z25XKEW	230 V (indoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm²	CU-Z25XKE
CS-XZ35XKEW / CS-Z35XKEW	230 V (indoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm²	CU-Z35XKE
— / CS-Z42XKEW	230 V (indoor)	16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-Z42XKE
CS-XZ50XKEW / CS-Z50XKEW	230 V (indoor)	16 A	3 x 2,5 mm ²	4 x 2,5 mm²	CU-Z50XKE
— / CS-Z71XKEW	230 V (indoor)	20 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-Z71XKE

Wall-mounted TZ super-compact · R32

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-TZ20WKEW	230 V (indoor)	16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-TZ20WKE
CS-TZ25WKEW	230 V (indoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm²	CU-TZ25WKE
CS-TZ35WKEW	230 V (indoor)	16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-TZ35WKE
CS-TZ42WKEW	230 V (indoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm²	CU-TZ42WKE
CS-TZ50WKEW	230 V (indoor)	16 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-TZ50WKE
CS-TZ60WKEW	230 V (indoor)	20 A	3 x 2,5 mm ²	4 x 2,5 mm²	CU-TZ60WKE
CS-TZ71WKEW	230 V (indoor)	20 A	3 x 2,5 mm²	4 x 2,5 mm²	CU-TZ71WKE

Wall-mounted BZ super-compact \cdot R32

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-BZ25XKE	230 V (indoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm²	CU-BZ25XKE
CS-BZ35XKE	230 V (indoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm²	CU-BZ35XKE
CS-BZ50XKE	230 V (indoor)	16 A	3 x 2,5 mm ²	4 x 2,5 mm²	CU-BZ50XKE
CS-BZ60XKE	230 V (indoor)	20 A	3 x 2,5 mm ²	4 x 2,5 mm²	CU-BZ60XKE

Wall-mounted UZ super-compact \cdot R32

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-UZ25WKE	230 V (indoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm²	CU-UZ25WKE
CS-UZ35WKE	230 V (indoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm²	CU-UZ35WKE
CS-UZ50WKE	230 V (indoor)	16 A	3 x 2,5 mm ²	4 x 2,5 mm ²	CU-UZ50WKE

Wall-mounted PZ super-compact \cdot R32

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-PZ25WKE	230 V (indoor)	16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-PZ25WKE
CS-PZ35WKE	230 V (indoor)	16 A	3 x 1,5 mm²	4 x 1,5 mm²	CU-PZ35WKE
CS-P750WKF	230 V (indoor)	16 A	3 x 2 5 mm ²	4 x 2 5 mm ²	CU-P750WKF

Floor console kits 1x1











Single phase Power supply 230 V / 50 Hz

Floor console · R32

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-Z25UFEAW	230 V (outdoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm²	CU-Z25UBEA
CS-Z35UFEAW	230 V (outdoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm ²	CU-Z35UBEA
CS-Z50UFEAW	230 V (outdoor)	16 A	3 x 2,5 mm²	4 x 2,5 mm ²	CU-Z50UBEA

Low static pressure hide-away kits 1x1









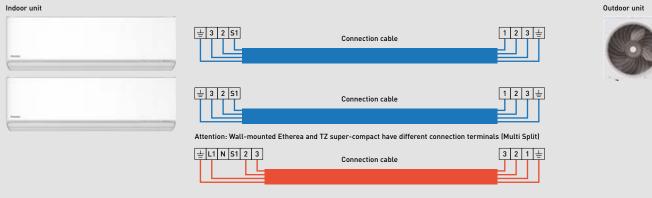


Single phase Power supply 230 V / 50 Hz

Low Static Pressure Hide Away · R32

Indoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor	Outdoor unit
CS-Z25UD3EAW	230 V (outdoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm²	CU-Z25UBEA
CS-Z35UD3EAW	230 V (outdoor)	16 A	3 x 1,5 mm ²	4 x 1,5 mm²	CU-Z35UBEA
CS-Z50UD3EAW	230 V (outdoor)	16 A	3 x 2,5 mm ²	4 x 1,5 mm²	CU-Z50UBEA
CS-Z60UD3EAW	230 V (outdoor)	16 A	3 x 2,5 mm ²	4 x 1,5 mm²	CU-Z60UBEA

Free Multi System 2 rooms



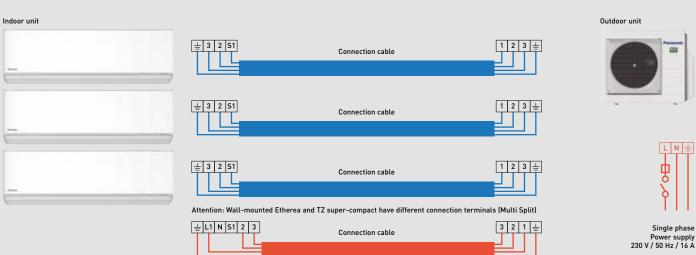


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Free Multi System · R32

Outdoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor
CU-2Z35TBE	230 V	16 A	3 x 1,5 mm ²	4 x 1,5 mm²
CU-2Z41TBE	230 V	16 A	3 x 1,5 mm²	4 x 1,5 mm²
CU-2Z50TBE	230 V	16 A	3 x 1,5 mm²	4 x 1,5 mm²
CU-2TZ41TBE	230 V	16 A	3 x 1,5 mm²	4 x 1,5 mm²
CU-2TZ50TBE	230 V	16 A	3 x 1,5 mm ²	4 x 1,5 mm ²

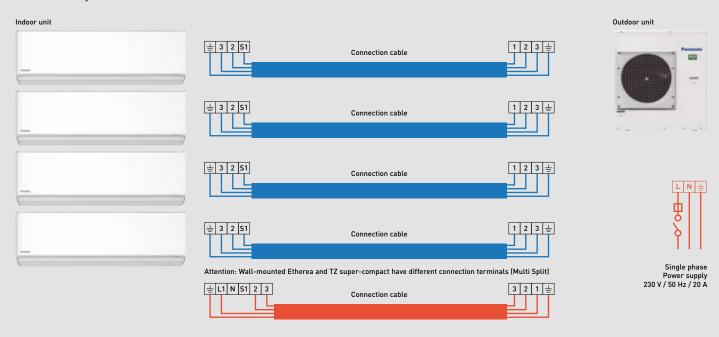
Free Multi System 3 rooms



Free Multi System · R32

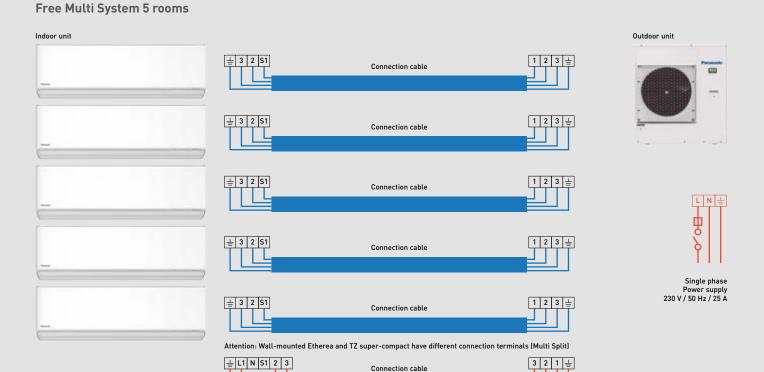
Outdoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor
CU-3Z52TBE	230 V	16 A	3 x 2,5 mm ²	4 x 1,5 mm²
CU-3Z68TBE	230 V	16 A	3 x 2,5 mm ²	4 x 1,5 mm²
CU-3TZ52TBE	230 V	16 A	3 x 2,5 mm ²	4 x 1,5 mm²

Free Multi System 4 rooms



Free Multi System · R32

Outdoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor
CU-4Z68TBE	230 V	20 A	3 x 2,5 mm²	4 x 1,5 mm²
CU-4Z80TBE	230 V	20 A	3 x 2,5 mm ²	4 x 1,5 mm²



Free Multi System · R32				
Outdoor unit	Power supply	Recommended fuse	Power supply cable	Connection indoor / outdoor
CU-5Z90TBE	230 V	25 A	3 x 4,0 mm ²	4 x 1,5 mm ²

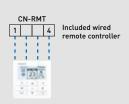
Wall-mounted Professional kits 1x1

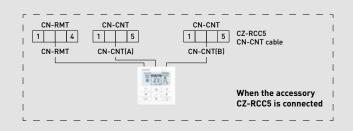








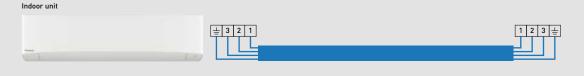




Wall-mounted Professional -25 °C · R32

·				
Indoor unit	Power supply	Recommended fuse	Connection indoor / outdoor	Outdoor unit
CS-Z25YKEA	230 V (indoor)	16 A	4 x 1,5 mm²	CU-Z25YKEA
CS-Z35YKEA	230 V (indoor)	16 A	4 x 1,5 mm²	CU-Z35YKEA
CS-Z42YKEA	230 V (indoor)	16 A	4 x 1,5 mm²	CU-Z42YKEA
CS-Z50YKEA	230 V (indoor)	16 A	4 x 2,5 mm²	CU-Z50YKEA
CS-Z71YKEA	230 V (indoor)	20 A	4 x 2,5 mm²	CU-Z71YKEA

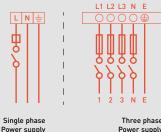
PACi NX wall-mounted kits 1x1











Single phase Power supply 230 V / 50 Hz / *

Power supply 3 x 400 V / 1 N ~ 50 Hz / **

Single phase

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker*
S-3650PK3E	4 x 1,5 mm ²	U-36PZH3E5		20 A
S-3650PK3E	4 x 1,5 mm²	U-50PZH3E5	-	20 A
S-6010PK3E	4 x 1,5 mm²	U-60PZH3E5		25 A
S-6010PK3E	4 x 2,5 mm ²	U-71PZH3E5	_	25 A
S-6010PK3E	4 x 2,5 mm²	U-100PZH3E5	- 220/230/240V	35 A
S-6010PK3E	4 x 1,5 mm²	U-36PZ3E5	- 220/230/240V	16 A
S-6010PK3E	4 x 1,5 mm²	U-50PZ3E5		16 A
S-6010PK3E	4 x 1,5 mm²	U-60PZ3E5A		20 A
S-6010PK3E	4 x 1,5 mm²	U-71PZ3E5A		20 A
S-6010PK3E	4 x 2,5 mm ²	U-100PZ3E5		35 A

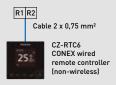
Indoor unit Connection indoor / outdoor		Outdoor unit	Power supply	Circuit breaker**
S-6010PK3E	4 x 2,5 mm²	U-71PZH3E8		16 A
S-6010PK3E	4 x 2,5 mm²	U-100PZH3E8	380/400/415V	16 A
S-6010PK3E	4 x 2,5 mm²	U-100PZ3E8		16 A

PACi NX 4 way 60x60 cassette kits 1x1

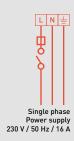












Single phase

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker
S-36PY3E	4 x 1,5 mm ²	U-36PZH3E5		16 A
S-50PY3E	4 x 1,5 mm²	U-50PZH3E5		16 A
S-60PY3E	4 x 1,5 mm ²	U-60PZH3E5		16 A
S-25PY3E	4 x 1,5 mm²	U-25PZ3E5	220/230/240 V	16 A
S-36PY3E	4 x 1,5 mm²	U-36PZ3E5	<u></u>	16 A
S-50PY3E	4 x 1,5 mm²	U-50PZ3E5		16 A
S-60PY3E	4 x 1,5 mm ²	U-60PZ3E5A		16 A

PACi NX 4 way 90x90 cassette kits 1x1

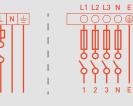












Outdoor unit

Single phase Power supply 230 V / 50 Hz / *

Three phase Power supply 3 x 400 V / 1 N ~ 50 Hz / **

Single phase

omgre phas	_			
Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker*
S-3650PU3E	4 x 1,5 mm ²	U-36PZH3E5		20 A
S-3650PU3E	4 x 1,5 mm ²	U-50PZH3E5		20 A
S-6071PU3E	4 x 1,5 mm ²	U-60PZH3E5		25 A
S-6071PU3E	4 x 2,5 mm ²	U-71PZH3E5	_	25 A
S-1014PU3E	4 x 2,5 mm ²	U-100PZH3E5	_	35 A
S-1014PU3E	4 x 2,5 mm ²	U-125PZH3E5	_	40 A
S-1014PU3E	4 x 2,5 mm ²	U-140PZH3E5	- 220/230/240 V	40 A
S-3650PU3E	4 x 1,5 mm ²	U-36PZ3E5	- 220/230/240 V -	16 A
S-3650PU3E	4 x 1,5 mm ²	U-50PZ3E5		16 A
S-6071PU3E	4 x 1,5 mm ²	U-60PZ3E5A		20 A
S-6071PU3E	4 x 1,5 mm²	U-71PZ3E5A	_	20 A
S-6010PK3E	4 x 2,5 mm ²	U-100PZ3E5		35 A
S-1014PU3E	4 x 2,5 mm ²	U-125PZ3E5	_	40 A
S-1014PU3E	4 x 2,5 mm ²	U-140PZ3E5		40 A

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker**
S-6071PU3E	4 x 2,5 mm ²	U-71PZH3E8		16 A
S-1014PU3E	4 x 2,5 mm ²	U-100PZH3E8		16 A
S-1014PU3E	4 x 2,5 mm ²	U-125PZH3E8		16 A
S-1014PU3E	4 x 2,5 mm ²	U-140PZH3E8	380/400/415 V	16 A
S-1014PU3E	4 x 2,5 mm ²	U-100PZ3E8		20 A
S-1014PU3E	4 x 2,5 mm ²	U-125PZ3E8		20 A
S-1014PU3E	4 x 2.5 mm ²	U-140PZ3E8		20 A

PACi NX ceiling kits 1x1















Single phase Power supply 230 V / 50 Hz / *

Three phase Power supply 3 x 400 V / 1 N ~ 50 Hz / **

Single phase

Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker*
4 x 1,5 mm²	U-36PZH3E5		20 A
4 x 1,5 mm²	U-50PZH3E5		20 A
4 x 1,5 mm ²	U-60PZH3E5		25 A
4 x 2,5 mm²	U-71PZH3E5		25 A
4 x 2,5 mm ²	U-100PZH3E5		35 A
4 x 2,5 mm ²	U-125PZH3E5	_	40 A
4 x 2,5 mm ²	U-140PZH3E5	220/220/2/03/	40 A
4 x 1,5 mm ²	U-36PZ3E5	220/230/240 V	16 A
4 x 1,5 mm ²	U-50PZ3E5		16 A
4 x 1,5 mm ²	U-60PZ3E5A		20 A
4 x 1,5 mm²	U-71PZ3E5A		20 A
4 x 2,5 mm ²	U-100PZ3E5		35 A
4 x 2,5 mm ²	U-125PZ3E5		40 A
4 x 2,5 mm²	U-140PZ3E5		40 A
	indoor / outdoor 4 x 1,5 mm² 4 x 1,5 mm² 4 x 1,5 mm² 4 x 2,5 mm² 4 x 2,5 mm² 4 x 2,5 mm² 4 x 2,5 mm² 4 x 1,5 mm² 4 x 2,5 mm² 4 x 2,5 mm² 4 x 2,5 mm²	indoor / outdoor 4 x 1,5 mm² U-36PZH3E5 4 x 1,5 mm² U-50PZH3E5 4 x 1,5 mm² U-60PZH3E5 4 x 2,5 mm² U-71PZH3E5 4 x 2,5 mm² U-100PZH3E5 4 x 2,5 mm² U-140PZH3E5 4 x 2,5 mm² U-140PZH3E5 4 x 1,5 mm² U-36PZ3E5 4 x 1,5 mm² U-50PZ3E5 4 x 1,5 mm² U-60PZ3E5A 4 x 2,5 mm² U-100PZ3E5 4 x 2,5 mm² U-100PZ3E5 4 x 2,5 mm² U-125PZ3E5	indoor / outdoor 4 x 1,5 mm² U-36PZH3E5 4 x 1,5 mm² U-50PZH3E5 4 x 1,5 mm² U-60PZH3E5 4 x 2,5 mm² U-71PZH3E5 4 x 2,5 mm² U-100PZH3E5 4 x 2,5 mm² U-125PZH3E5 4 x 2,5 mm² U-140PZH3E5 4 x 1,5 mm² U-36PZ3E5 4 x 1,5 mm² U-60PZ3E5 4 x 1,5 mm² U-71PZ3E5A 4 x 2,5 mm² U-100PZ3E5 4 x 2,5 mm² U-100PZ3E5 4 x 2,5 mm² U-125PZ3E5

Three phase

Indoor unit	Connection indoor	Outdoor unit	Power supply	Circuit breaker**
S-6071PT3E	4 x 2,5 mm ²	U-71PZH3E8		16 A
S-1014PT3E	4 x 2,5 mm ²	U-100PZH3E8		16 A
S-1014PT3E	4 x 2,5 mm ²	U-125PZH3E8		16 A
S-1014PT3E	4 x 2,5 mm ²	U-140PZH3E8	380/400/415 V	16 A
S-1014PT3E	4 x 2,5 mm ²	U-100PZ3E8		20 A
S-1014PT3E	4 x 2,5 mm ²	U-125PZ3E8		20 A
S-1014PT3E	4 x 2,5 mm ²	U-140PZ3E8		20 A

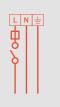
PACi NX adaptive ducted unit kits 1x1













Single phase Power supply 230 V / 50 Hz / *

Power supply 3 x 400 V / 1 N ~ 50 Hz / **

Single phase

Indoor unit	Connection indoor	Outdoor unit	Power supply	Circuit breaker*
S-3650PF3E	4 x 1,5 mm ²	U-36PZH3E5		20 A
S-3650PF3E	4 x 1,5 mm ²	U-50PZH3E5		20 A
S-6071PF3E	4 x 1,5 mm ²	U-60PZH3E5	-	25 A
S-6071PF3E	4 x 2,5 mm ²	U-71PZH3E5		25 A
S-1014PF3E	4 x 2,5 mm ²	U-100PZH3E5	-	35 A
S-1014PF3E	4 x 2,5 mm ²	U-125PZH3E5	-	40 A
S-1014PF3E	4 x 2,5 mm ²	U-140PZH3E5		40 A
S-3650PF3E	4 x 1,5 mm ²	U-36PZ3E5	- 220/230/240 V	16 A
S-3650PF3E	4 x 1,5 mm ²	U-50PZ3E5	-	16 A
S-6071PF3E	4 x 1,5 mm ²	U-60PZ3E5A	-	20 A
S-6071PF3E	4 x 1,5 mm ²	U-71PZ3E5A	- - -	20 A
S-6010PK3E	4 x 2,5 mm ²	U-100PZ3E5		35 A
S-1014PF3E	4 x 2,5 mm ²	U-125PZ3E5		40 A
S-1014PF3E	4 x 2,5 mm ²	U-140PZ3E5		40 A

Indoor unit	Connection indoor / outdoor	Outdoor unit	Power supply	Circuit breaker**
S-6071PF3E	4 x 2,5 mm ²	U-71PZH3E8	_	16 A
S-1014PF3E	4 x 2,5 mm ²	U-100PZH3E8		16 A
S-1014PF3E	4 x 2,5 mm ²	U-125PZH3E8		16 A
S-1014PF3E	4 x 2,5 mm ²	U-140PZH3E8	380/400/415 V	16 A
S-1014PF3E	4 x 2,5 mm ²	U-100PZ3E8		20 A
S-1014PF3E	4 x 2,5 mm²	U-125PZ3E8		20 A
S-1014PF3E	4 x 2,5 mm ²	U-140PZ3E8		20 A

Big PACi high static pressure hide-away 20,0-25,0 kW kits 1x1



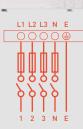












Three phase Power supply 3 x 400 V / 1 N ~ 50 Hz

Single phase Power supply 230 V / 50 Hz / 10 A

Three phase

Indoor unit	Power supply	Outdoor unit	Power supply	Circuit breaker
S-200PE3E5B	- 220/230/240 V -	U-200PZH2E8	- 380/400/415 V —	16 A
S-250PE3E5B		U-250PZH2E8		20 A

PACi 4 way 60x60 cassette kits 1x1





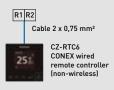






Single phase

Power supply 230 V / 50 Hz / 3 A





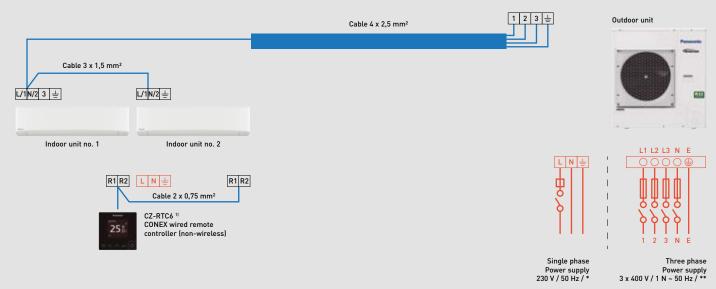


Single phase Power supply 230 V / 50 Hz / 16 A

Single phase

Indoor unit	Power supply	Outdoor unit	Power supply	Circuit breaker
S-36PY2E5B	- 220/230/240 V	U-36PZH3E5	- 220/230/240 V	16 A
S-50PY2E5B		U-50PZH3E5		16 A

PACi NX twin system

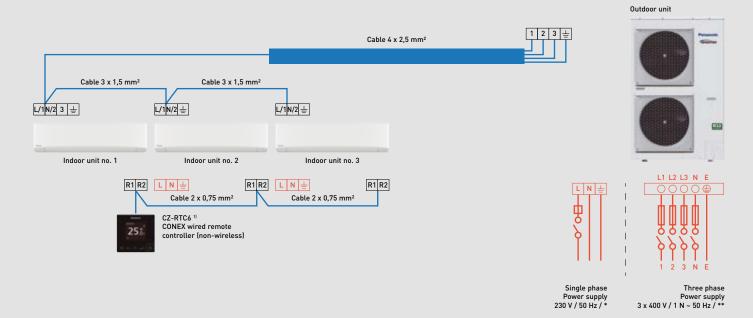


Single phase				
Outdoor unit	Power supply	Circuit breaker*		
U-71PZH3E5		25 A		
U-100PZH3E5		30 A		
U-125PZH3E5		25 A		
U-140PZH3E5	220/230/240 V	35 A		
U-100PZ3E5		35 A		
U-125PZ3E5		40 A		
U-140PZ3E5		40 A		

¹⁾ Optional infrared remote controller is also possible. Wireless receivers may be required depending on indoor units.

Three phase				
Outdoor unit	Power supply	Circuit breaker**		
U-71PZH3E8		16 A		
U-100PZH3E8		16 A		
U-125PZH3E8		16 A		
U-140PZH3E8		16 A		
J-200PZH2E8	380/400/415 V	20 A		
J-250PZH2E8		30 A		
U-100PZ3E8		16 A		
U-125PZ3E8		20 A		
U-140PZ3E8		20 A		

PACi NX triple system

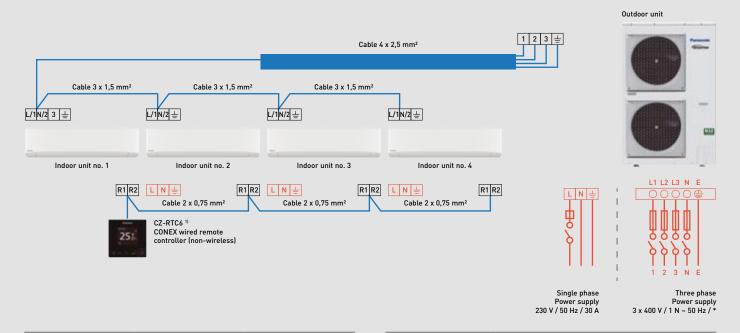


Single phase				
Outdoor unit	Power supply	Circuit breaker*		
U-100PZH3E5		35 A		
U-125PZH3E5	220 / 230 / 240 V	35 A		
U-140PZH3E5		40 A		

¹⁾ Optional infrared remote controller is also possible. Wireless receivers may be required depending on indoor units.

Outdoor unit	Power supply	Circuit breaker**
U-100PZH3E8		16 A
U-125PZH3E8	380 / 400 / 415 V	16 A
U-140PZH3E8		16 A

PACi NX double-twin system



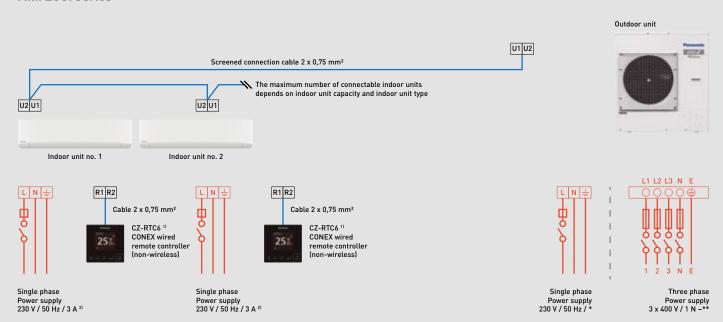
Single phase			
Outdoor unit	Power supply	Circuit breaker	
U-125PZH3E5	220 / 230 / 240 V	35 A	

1) Optional infrared remote controller is also possible. Wireless receivers may be required depending on indoor units.

Three phase

Outdoor unit	Power supply	Circuit breaker*
U-125PZH3E8	380 / 400 / 415 V	16 A

Mini EC0i Series



Single phase

Outdoor unit	Power supply	Circuit breaker*
U-4LZ2E5		20 A
U-5LZ2E5		25 A
U-6LZ2E5	220/230/240 V	30 A
U-4LE2E5		20 A
U-5LE2E5		25 A
U-6LE2E5		30 A

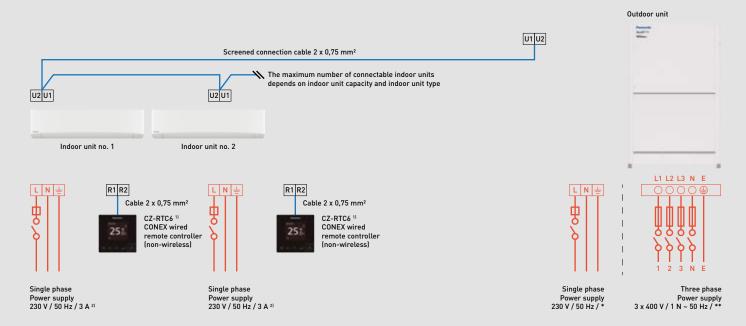
¹⁾ Wireless remote controller is also possible. Wireless receivers may be required depending on

Till cc pilase		
Outdoor unit	Power supply	Circuit breaker**
U-4LZ2E8		10 A
U-5LZ2E8		16 A
U-6LZ2E8		16 A
U-8LZ2E8		16 A
U-10LZ2E8	380/400/415 V	_20 A
U-4LE2E8	300/400/413 V	10 A
U-5LE2E8		16 A
U-6LE2E8		16 A
U-8LE1E8		16 A
U-10LE1E8		20 A

indoor units.

2) 10 A for single indoor connection to S-224ME2E5 / S-280ME2E5, in combination with U-8LE1E8 / U-10LE1E8.

ECOi EX and ECO G Series



EC0i EX Series

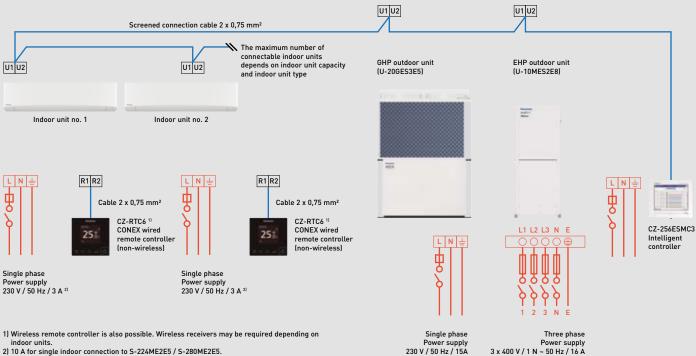
	-				_
2-Pipe		3-Pipe			
Outdoor unit	Power supply	Circuit breaker**	Outdoor unit	Power supply	Circuit breaker**
U-8ME2E8	- - - 380 / 400 / - 415 V -	16 A	U-8MF3E8	- 000 / /00 /	16 A
U-10ME2E8		16 A	U-10MF3E8		20 A
U-12ME2E8		20 A	U-12MF3E8	- 380 / 400 / - 415 V	25 A
U-14ME2E8		25 A	U-14MF3E8	- 415 V	40A
U-16ME2E8		30 A	U-16MF3E8		30 A
U-18ME2E8		40A			
U-20ME2E8		40A			

ECO G Series

2-Pipe			3-Pipe		
Outdoor unit	Power supply	Circuit breaker*	Outdoor unit	Power supply	Circuit breaker*
U-16GE3E5		16 A	U-16GF3E5	202 / 202 /	16 A
U-20GE3E5	220 / 230 / _ 240 V	16 A	U-20GF3E5	- 220 / 230 / - 240 V	16 A
U-25GE3E5		16 A	U-25GF3E5	- 240 V	16 A
U-30GE3E5		16 A			

- 1) Wireless remote controller is also possible. Wireless receivers may be required depending on
- indoor units.
 2) 10 A for single indoor connection to S-224ME2E5 / S-280ME2E5.

Hybrid GHP/EHP



Notes

Notes

Panasonic Heating & Cooling Solutions customer service

If your end customer is seeking further support from Panasonic directly, please forward the following ways to contact us:



Use our European website **www.aircon.panasonic.eu** for contacting us.

Panasonic has implemented a new contact page on the Panasonic Heating & Cooling Solutions website for potential or existing Panasonic customers.

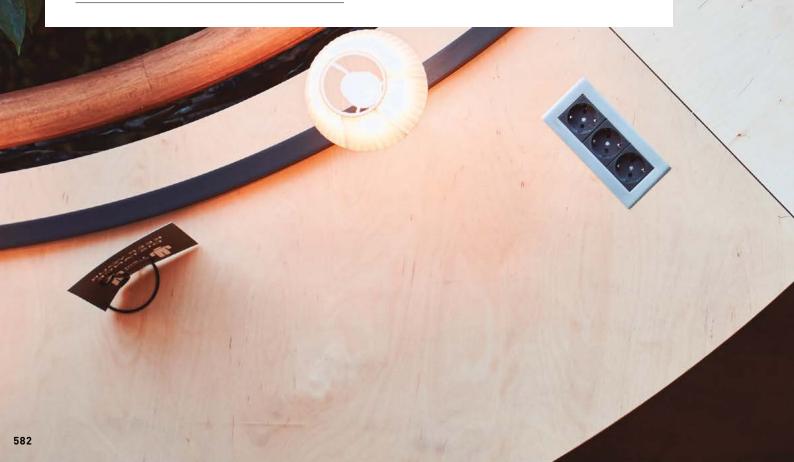


Another option is to contact the highly experienced teams at the Panasonic call centres, who are more than qualified to support Panasonic clients in 13 different languages across Europe.

Our call centres in Europe for end customers:

Country	Phone number	Opening times
Belgium	+32 2 320 55 38	Mo-Fr 9-17h
Denmark	+45 89 87 45 00	Mo-Fr 9-17h
Finland	+35 8646041590	Mo-Fr 9-17h
France	0800 805 215	Mo-Fr 9-17h
Germany	+49 611 71187211	Mo-Sat 7-18h
Hungary	+36 1 700 89 65	Mo-Fr 9-17h
Ireland	1800 939 977	Mo-Fr 9-17h
Italy	+39 2 6433235	Mo-Fr 9-17h
Luxembourg	+32 2 320 55 38	Mo-Fr 9-17h
Netherlands	+31 73 6402 538	Mo-Sat 7-18h

Country	Phone number	Opening times
Norway	+47 69 67 61 00	Mo-Fr 9-17h
Poland	800 080 911	Mo-Fr 9-17h
Portugal	800 78 22 20	Mo-Fr 9-17h
Spain	+34 900 828 787	Mo-Fr 9-17h
Sweden	+46 85 221 81 00	Mo-Fr 9-17h
Switzerland DE	+41 415615366	Mo-Fr 9-17h
Switzerland FR	+41 435880049	Mo-Fr 9-17h
Switzerland IT	+41 435880048	Mo-Fr 9-17h
United Kingdom	0808 208 2115	Mo-Fr 9-17h





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Panasonic

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Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of the other refrigerant.

The outdoor units in this catalogue contains fluorinated greenhouse gases with a GWP higher than 150.

Panasonic Marketing Europe GmbH
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