

NEW AQUAREA DHW

AQUAREA

Panasonic

UP TO 75%
ENERGY
SAVINGS



New Aquarea DHW



Pressurised



High-Quality
insulation



Fast heating



Air ducts



Additional heating
source



Electronic regulation
with touch screen



Indirect tubular air
heating element



Vertical floor
mounting



External exchanger



Magnezium anode
corrosion protection



New Aquarea DHW

DHW tank with built-in heat pump.

The heat pump is one of the most energy efficient and cost effective methods of producing hot water. The pump installed on the storage tank takes energy from the surrounding air and uses this supplementary source to heat the water up to 55 °C.

The new designed DHW is ready to achieve levels of high efficiency even at temperatures as low as -7 °C. With 208, 276 and 295 L volumes of hot water capacity, with this range it is possible to connect additional heat source such as solar energy. The heat pump cools and de-humidifies the air pumped either from outdoors or from within the building. By choosing the point of air capture and exhaust, you can ventilate and de-humidify some rooms, while extracting the cooled air either into the environment or into another room that you want to cool.

Advantages of the new Aquarea DHW



High-technology rotational compressor ensures higher energy efficiency and a higher coefficient of performance, which means major energy savings – up to 75 %.



Wrapped around the inside of the outer cover of the tank, it prevents the build-up of limescale, extends the useful life of the equipment and improves safety.



The dimensions and heating capability of a medium volume Aquarea DHW tank can easily replace an existing electric water heater. Its small size allows it to be installed in spaces where previously a conventional electric water heater would be installed.



Impressive tank protection is provided through the use of superior super-clean enamel and a large magnesium element. These ensure durability even in the harshest operating conditions without harmful additives in the water.



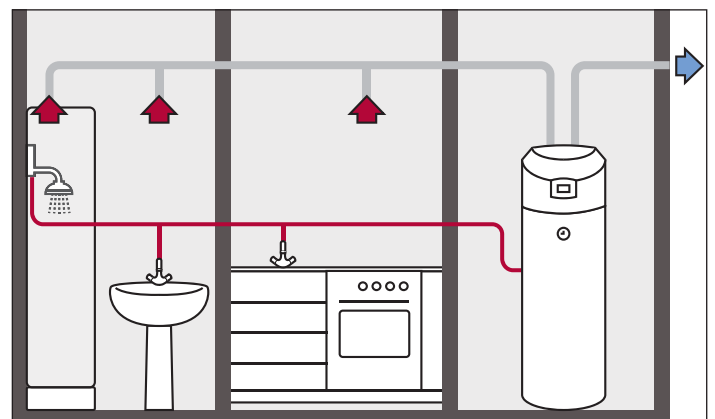
User-friendly electronic controller with LCD touch screen display on Aquarea DHW:

- Temperature settings and display
- Time and day settings and display
- Display of available hot water
- Time and day programming
- Fast heating "TURBO" mode
- Heating on higher temp. (75 °C)
- Setting a several day absence
- Independent ventilation function
- Error diagnostic



Modern buildings are characterized by tightly sealed windows and doors, and efficient wall insulation. Aquarea DHW makes it possible to ventilate the home while using the exhaust hot air for the heating of domestic water at the same time. Cool air can be piped out of the building or into any part of the home that requires cooling. Aquarea DHW design further serves to preserve the functionality of the room in which it is installed.

Example of ventilation with air ducts connection to Aquarea DHW





Why choose a Panasonic DHW tank?

Clear savings

- 75 % free energy thanks to the heat pump
- COP up to 3,39 (according to EN 16147)
- Certified products ensuring higher performance levels
- 65 mm of high density polyurethane insulation to limit heat losses

Easy integration

- Fully compact solution (only 1,54 m high for the 200L model)
- All-in-one solution with integrated heat pump

Abundant domestic hot water

- Quick tank refill thanks to the heat pump
- The "Turbo" and "Hot" functions ensure even more domestic hot water when needed
- The touch screen shows how much hot water is left to accurately track your consumption

WHAT IS THE COP

A heat pump's Coefficient of Performance is the ratio between the restored thermal output and its power consumption. A COP of 4 indicates the heat pump generates 4 times more energy than it consumes. The higher the COP, the better the heat pump's performance.

DHW tank in detail

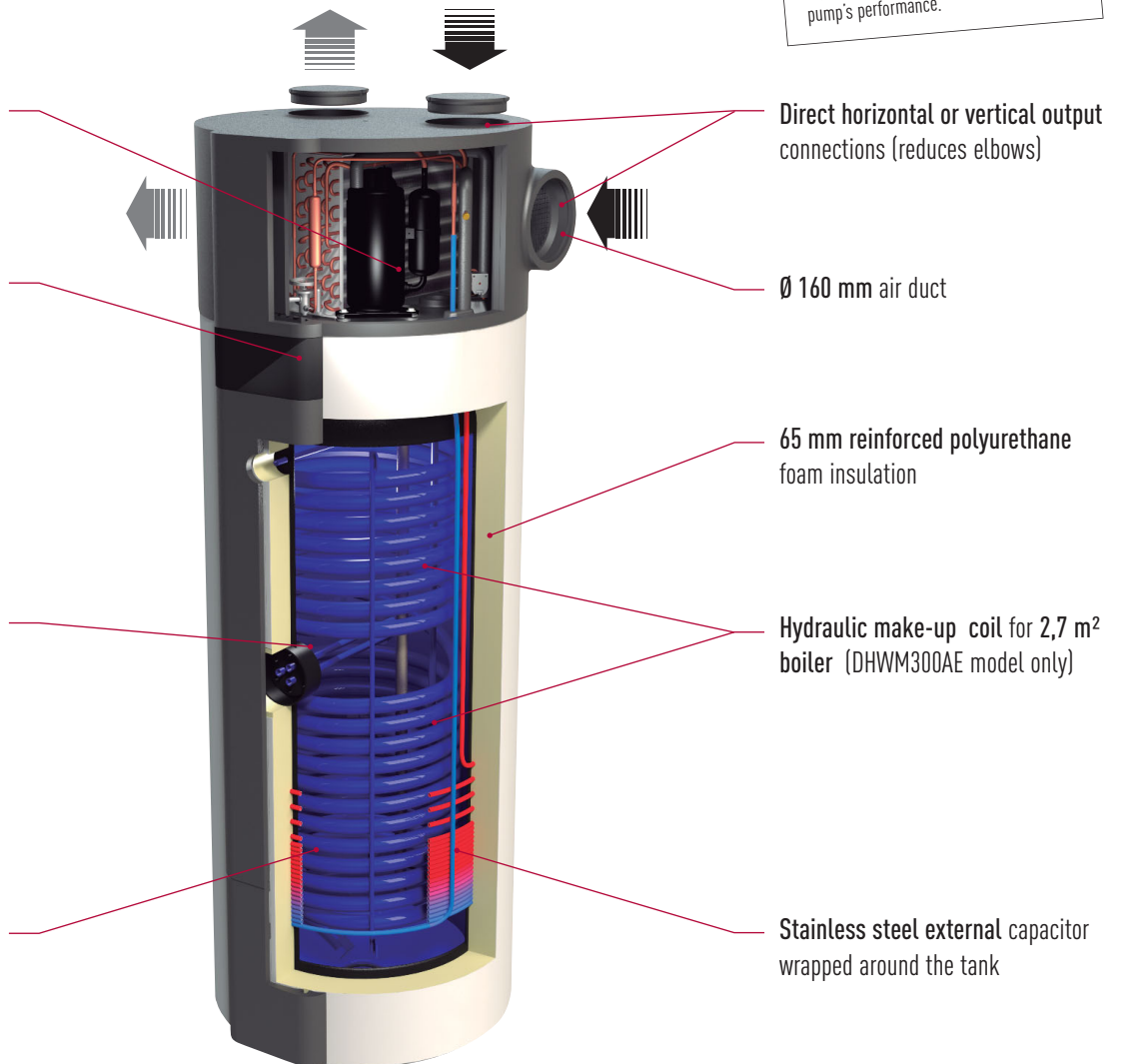
Integrated heat pump with rotary compressor

LCD touch screen control



2 kW soapstone electric booster

Steel tank enameled at 850 °C with magnesium anode corrosion protection



Model		Floor standing at -7 °C*		
Reference		PAW-DHWM200A	PAW-DHWM300A	PAW-DHWM300AE
Volume	L	208	295	276
Dimensions of Connections				
Height / Width / Depth	mm	1.540 x 670 x 690	1.960 x 670 x 690	1.960 x 670 x 690
Inlet/outlet water connections		G1	G1	G1
Inlet/outlet air connection dimensions	mm	Ø160	Ø160	Ø160
Net weight / with water	kg	149 / 365	164 / 459	207 / 480
Heat Pump				
Nominal electrical power	W	490	490	490
Reference tapping cycle	L		XL	XL
Energy consumption by chosen cycle A7 / W10-55 ¹	kWh	4,05	5,77	5,96
Energy consumption by chosen cycle A15 / W10-55 ²	kWh	3,95	5,65	5,75
COP DHW (A7 / W10-55) EN 16147 ¹		3,00	3,33	3,30
COP DHW (A15 / W10-55) EN 16147 ²		3,07	3,39	3,38
Energy Efficiency Class		A	A	A
Standby power input according to EN16147	W	28	18	20
Level of indoor sound power*	dB(A)	59 / 58	59 / 58	59 / 58
Refrigerant		R134a	R134a	R134a
Quantity of refrigerant	g	1.100	1.100	1.100
Operating range - air temperature	°C	-7 / +35	-7 / +35	-7 / +35
Nominal air flow rate (Maximum)	m³/h	450	450	450
Maximum pressure drop (volumetric flow rate at 330 m³/h (60%))	Pa	100	100	100
Maximum temperature heat pump / electrical heater	°C	65 / 75	65 / 75	65 / 75
Set thermostat temperature	°C	55	55	55
Electrical Specifications				
Maximum power consumption without heater / with heater	W	490 / 2.490	490 / 2.490	490 / 2.490
Voltage / Frequency	V / Hz	230 / 50	230 / 50	230 / 50
Electric protection	A	16	16	16
Moisture protection		IP24	IP24	IP24
Transport Data				
Packaging dimensions	mm	800 x 800 x 1.760	800 x 800 x 2.155	800 x 800 x 2.155

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) Normal fan speed 60 %, higher fan speed - special setting on 80 %.

*in accordance with EN12102:2013 (60% fan speed - outside air / 40% fan speed - ambient air)



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heating & cooling solutions

