

## Information requirements for air-to-air air conditioners

|           |   |                                      |
|-----------|---|--------------------------------------|
| Model(s): | Outdoor Unit  | U-250PZH2E8                          |
|           | Indoor Unit   | S-6071PU3Ex4                         |
|           | Outdoor side heat exchanger of air conditioner:   | air                                  |
|           | Indoor side heat exchanger of air conditioner:  | air                                  |
|           | Type: compressor driven vapour compression or sorption process<br>if applicable: driver of compressor: [electric motor or fuel driven,<br>gaseous or liquid fuel, internal or external combustion engine] | vapour compression<br>electric motor |

| Item   | Symbol  | Value    | Unit | Item   | Symbol  | Value | Unit                              |
|--|---|----------|------|--|---|-------|-----------------------------------|
| Rated cooling capacity   | P <sub>rated,c</sub>  | 25.0     | kW   | Seasonal space cooling energy efficiency               | η <sub>s,c</sub>  | 296.2 | %                                 |
| Refrigeration load   | P <sub>design,c</sub>   | 25.0     | kW   |  |   |       |                                   |
| Declared cooling capacity for part load at given outdoor temperatures T <sub>j</sub> and indoor 27/19°C (dry/wet bulb) |   |          |      |  |   |       |                                   |
| T <sub>j</sub> = + 35 °C   |   | 25.0     | kW   | T <sub>j</sub> = + 35 °C                               |   | 3.1   | %                                 |
| T <sub>j</sub> = + 30 °C   |   | 18.4     | kW   | T <sub>j</sub> = + 30 °C                               | EER <sub>a</sub> or GUE <sub>a,dbn</sub> / AEF <sub>a,dbn</sub> | 4.9   | %                                 |
| T <sub>j</sub> = + 25 °C   | P <sub>dc</sub>   | 11.9     | kW   | T <sub>j</sub> = + 25 °C                               |   | 8.6   | %                                 |
| T <sub>j</sub> = + 20 °C   |   | 7.0      | kW   | T <sub>j</sub> = + 20 °C                               |   | 20.8  | %                                 |
| Degradation co-efficient for air conditioners**  | C <sub>ac</sub>   | 0.25     | -    |  |   |       |                                   |
|  |   |          |      |  |   |       |                                   |
|  |   |          |      |  |   |       |                                   |
|  |   |          |      |  |   |       |                                   |
|  |   |          |      |  |   |       |                                   |
|  |   |          |      |  |   |       |                                   |
| Power consumption in modes other than 'active mode':   |   |          |      |  |   |       |                                   |
| Off mode   | P <sub>off</sub>  | 0.020    | kW   | Crankcase heater mode                                  | P <sub>ck</sub>   | 0.010 | kW                                |
| Thermostat-off mode  | P <sub>ro</sub>   | 0.020    | kW   | Standby mode   | P <sub>sa</sub>   | 0.020 | kW                                |
| Other items  |   |          |      |  |   |       |                                   |
| Capacity control   |   | variable |      | For air-to-air air conditioner: air flow rate, outdoor |   | 9600  | m³/h                              |
| Sound power level, outdoor   | L <sub>wa</sub>   | 78.0     | dB   |  |   |       |                                   |
| Sound power level, indoor  | L <sub>wa</sub>   | 51.0     | dB   | If engine driven: Emissions of nitrogen oxides         | NO <sub>x</sub> **  |       | mg/kWh fuel input GCV             |
|  |   |          |      | GWP of the refrigerant                                 |   | 675   | kg CO <sub>2</sub> eq (100 years) |
| Contact details  | Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsberg 15, 22525 Hamburg, Germany |          |      |  |   |       |                                   |

\*\* If C<sub>ac</sub> is not determined by measurement then the default degradation coefficient air conditioners shall be 0.25.  
 \*\*\* from 26 September 2018.  
 Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.  
 \*\*\*\* Refer to information requirements for UnitList

## Information requirements for heat pumps

|  |              |                |
|--|--------------|----------------|
| Model(s):  | Outdoor Unit | U-250PZH2E8    |
|  | Indoor Unit  | S-6071PU3Ex4   |
| Outdoor side heat exchanger of heat pump:  |              | air            |
| Indoor side heat exchanger of heat pump:   |              | air            |
| Indication if the heater is equipped with a supplementary heater:<br>if applicable: driver of compressor: [electric motor or fuel driven,<br>gaseous or liquid fuel, internal or external combustion engine] |              | no             |
| Parameters shall be declared for the average heating season, parameters for the<br>warmer and colder heating seasons are optional.   |              | electric motor |

| Item   | Symbol  | Value    | Unit | Item  | Symbol  | Value | Unit                              |
|--|---|----------|------|---|---|-------|-----------------------------------|
| Rated heating capacity   | P <sub>rated,h</sub>  | 28.0     | kW   | Seasonal space heating energy efficiency  | η <sub>s,h</sub>  | 174.1 | %                                 |
| Refrigeration load   | P <sub>design,h</sub>   | 20.0     | kW   |   |   |       |                                   |
| Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature T <sub>j</sub> |   |          |      |   |   |       |                                   |
| T <sub>j</sub> = - 7 °C  |   | 17.6     | kW   | T <sub>j</sub> = - 7 °C   |   | 2.7   | %                                 |
| T <sub>j</sub> = + 2 °C  |   | 10.9     | kW   | T <sub>j</sub> = + 2 °C   |   | 3.9   | %                                 |
| T <sub>j</sub> = + 7 °C  |   | 7.0      | kW   | T <sub>j</sub> = + 7 °C   |   | 7.1   | %                                 |
| T <sub>j</sub> = + 12 °C   |   | 6.1      | kW   | T <sub>j</sub> = + 12 °C  | COP <sub>a</sub> or GUE <sub>a,dbn</sub> / AEF <sub>a,dbn</sub> | 9.5   | %                                 |
| T <sub>db</sub> = bivalent temperature   | P <sub>ah</sub>   | 20.0     | kW   | T <sub>db</sub> = bivalent temperature  |   | 2.2   | %                                 |
| T <sub>ol</sub> = operation limit  |   | 14.5     | kW   | T <sub>ol</sub> = operation limit   |   | 1.9   | %                                 |
| For air-to-water heat pumps: T <sub>j</sub> = - 15 °C (if T <sub>ol</sub> < - 20 °C)                       |   | -        | kW   | For water-to-air heat pumps: T <sub>j</sub> = - 15 °C (if T <sub>ol</sub> < - 20 °C)            |   | -     | %                                 |
| Bivalent temperature   | T <sub>bw</sub>   | -10      | °C   | For water-to-air heat pumps: Operation limit temperature  | T <sub>ol</sub>   | -20   | °C                                |
| Degradation co-efficient heat pumps**  | C <sub>ah</sub>   | 0.25     | -    |   |   |       |                                   |
| Power consumption in modes other than 'active mode':   |   |          |      |   |   |       |                                   |
| Off mode   | P <sub>off</sub>  | 0.020    | kW   | Supplementary heater  |   |       |                                   |
| Thermostat-off mode  | P <sub>ro</sub>   | 0.020    | kW   | back-up heating capacity *  | elbu  | 0.0   | kW                                |
| Crankcase heater mode  | P <sub>ck</sub>   | 0.010    | kW   | Type of energy input  |   |       |                                   |
| Other items  |   |          |      |   |   |       |                                   |
| Capacity control   |   | variable |      | For air-to-air heat pumps: air flow rate, outdoor   |   | 9600  | m³/h                              |
| Sound power level, outdoor   | L <sub>wa</sub>   | 82.0     | dB   | For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger |   | -     | m³/h                              |
| Sound power level, indoor  | L <sub>wa</sub>   | 51.0     | dB   | Emissions of nitrogen oxides (if applicable)  | NO <sub>x</sub> **  | -     | mg/kWh fuel input GCV             |
|  |   |          |      | GWP of the refrigerant  |   | 675   | kg CO <sub>2</sub> eq (100 years) |
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 \*\*\* from 26 September 2018.  
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