

Product Ecodesign Information

Model No.: WH-SQC16H9E8 / WH-UQ16HE8

| | | | |
|--|-----|-------------------------------------|----|
| Air-to-water heat pump [YES/NO]: | YES | Low-temperature heat pump [YES/NO]: | NO |
| Water-to-water heat pump [YES/NO]: | NO | Brine-to-water heat pump [YES/NO]: | NO |
| Equipped with a supplementary heater [YES/NO]: | YES | | |
| Heat pump combination heater [YES/NO]: | NO | | |

Parameters shall be declared for medium-temperature application.

Parameters shall be declared for AVERAGE climate conditions:-

| Item | Symb. | Value | Unit | Item | Symb. | Value | Unit |
|------------------------------|-------------|-------|------|---|----------|-------|------|
| Rated heat output (*) | P_{rated} | 16 | kW | Seasonal space heating energy efficiency | η_s | 125 | % |
| Bivalent temperature | T_{biv} | -10 | °C | Operation limit temperature | TOL | -10 | °C |
| Degradation coefficient (**) | C_{dh} | 0,9 | — | Heating water operating limit temperature | WTOL | 55 | °C |

Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j

Declared coefficient of performance for part load at indoor temperature 20 °C and outdoor temperature T_j

| | | | | | | | |
|---|------------|------|----|---|-------------|------|---|
| $T_j = -7\text{ °C}$ | P_{dh} | 14,3 | kW | $T_j = -7\text{ °C}$ | COP_d | 2,07 | — |
| $T_j = +2\text{ °C}$ | P_{dh} | 8,2 | kW | $T_j = +2\text{ °C}$ | COP_d | 2,93 | — |
| $T_j = +7\text{ °C}$ | P_{dh} | 7,2 | kW | $T_j = +7\text{ °C}$ | COP_d | 4,44 | — |
| $T_j = +12\text{ °C}$ | P_{dh} | 8,5 | kW | $T_j = +12\text{ °C}$ | COP_d | 5,86 | — |
| $T_j = T_{biv}$ | P_{dh} | 15,8 | kW | $T_j = T_{biv}$ | COP_d | 1,83 | — |
| $T_j = TOL$ | P_{dh} | 15,8 | kW | $T_j = TOL$ | COP_d | 1,83 | — |
| $T_j = -15\text{ °C}$ (if TOL < -20 °C) | P_{dh} | — | kW | $T_j = -15\text{ °C}$ (if TOL < -20 °C) | COP_d | — | — |
| Cycling interval capacity for heating | P_{cych} | — | kW | Cycling interval efficiency | COP_{cyc} | — | — |

Power consumption in modes other than active mode:

Other items: (◇) (□)

| | | | | | | | |
|--|-------------------|-------|-------------------|--------------------------------|----------|-------|-------------------|
| Off mode | P_{OFF} | 0,003 | kW | Capacity control | Variable | | |
| Thermostat-off mode | P_{TO} | 0,012 | kW | Sound power level, indoor (◇) | L_{WA} | 46 | dB |
| Standby mode | P_{SB} | 0,012 | kW | Sound power level, outdoor (◇) | L_{WA} | 62 | dB |
| Crankcase heater mode | P_{CK} | 0,033 | kW | Sound power level, indoor (□) | L_{WA} | 46 | dB |
| Supplementary heater | P_{sup} | 9,0 | kW | Sound power level, outdoor (□) | L_{WA} | 65 | dB |
| Rated heat output (*) | ELECTRICAL HEATER | | | Annual energy consumption | Q_{HE} | 10330 | kWh |
| Type of energy input | | | | Rated air flow rate, outdoor | — | 4560 | m ³ /h |
| For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | — | — | m ³ /h | Emissions of nitrogen oxides | NO_x | — | mg/kWh |

For heat pump combination heater:

| | | | | | | | |
|-------------------------------|------------|---|-----|---------------------------------|-------------|---|-----|
| Declared load profile | — | | | Water heating energy efficiency | η_{wh} | — | % |
| Daily electricity consumption | Q_{elec} | — | kWh | Daily fuel consumption | Q_{fuel} | — | kWh |

Contact details for obtaining more information

(Name and address of the manufacturer or of its authorized representative.)
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REMARK:

- You can find information and precautions relevant for installation and maintenance in the Operation Instructions.
- You can find information relevant for recycling and/or disposal at end-of-life in the Operation Instructions.

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement, then the default degradation coefficient is $C_{dh} = 0,9$.

(◇) Nominal A-Weighted Sound Power Level (L_{WA}), according to regulation 811/2013, 813/2013 and standard EN14825 at A7(6), in dB (A).

(□) Maximum A-Weighted Sound Power Level (L_{WA}), according to EN12102-1 at A7(6) W55(47), in dB (A).