**Technical parameters**

| | | |
|---|---|---|
| Model(s): | Outdoor unit: | AHW-080HCPB1 |
| | Indoor unit: | AHS-100HCWBAA-23 |
| Air-to-water heat pump: | | yes |
| Water-to-water heat pump: | | no |
| Brine-to-water heat pump: | | no |
| Low-temperature heat pump: | | no |
| Equipped with a supplementary heater: | | no |
| Heat pump combination heater: | | no |
| Parameters shall be declared for | | Medium temperature application. |
| Parameters shall be declared for | | average climate conditions. |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|---|---|---|---|---|---|---|---|
| Rated heat output (*) | Prated | 7.70 | kW | Seasonal space heating energy efficiency | ηs | 146 | % |
| Declared capacity for heating for part load at indoor temperature 20°C and outdoor temperature Tj | | | | Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj | | | |
| Tj = – 7 °C | Pdh | 6.82 | kW | Tj = – 7 °C | COPd | 2.34 | - |
| Tj = +2 °C | Pdh | 4.23 | kW | Tj = +2 °C | COPd | 3.61 | - |
| Tj = +7 °C | Pdh | 2.79 | kW | Tj = +7 °C | COPd | 4.89 | - |
| Tj = +12 °C | Pdh | 2.32 | kW | Tj = +12 °C | COPd | 6.30 | - |
| Tj =bivalent temperature | Pdh | 6.82 | kW | Tj =bivalent temperature | COPd | 2.34 | - |
| Tj = operation limit temperature | Pdh | 7.69 | kW | Tj = operation limit temperature | COPd | 2.06 | - |
| Tj = – 15 °C (if TOL < – 20 °C) | Pdh | - | kW | Tj = – 15 °C (if TOL < – 20 °C) | COPd | - | - |
| Bivalent temperature | Tbiv | -7 | °C | Operation limit temperature | TOL | -10 | °C |
| Cycling interval capacity for heating | Pcych | - | kW | Cycling interval efficiency | COPcyc | - | - |
| Degradation co-efficient (**) | Cdh | 0.9 | - | Heating water operating limit temperature | WTOL | - | °C |

| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
|---|---|---|---|---|---|---|---|
| Off mode | $P_{OFF}$ | 0.009 | kW | Rated heat output (*) | Psup | 0.0 | kW |
| Thermostat-off mode | $P_{TO}$ | 0.010 | kW | | | | |
| Standby mode | $P_{SB}$ | 0.009 | kW | Type of energy input | | Electric | |
| Crankcase heater mode | $P_{CK}$ | 0 | kW | | | | |

| Other items | | | | | | | |
|---|---|---|---|---|---|---|---|
| Capacity control | | variable | | Rated air flow rate, outdoors | | 3780 | $m^3/h$ |
| Sound power level, indoors/outdoors | $L_{WA}$ | 44/54 | dB | | | | |
| Annual energy consumption | $Q_{HE}$ | 4274 | kWh | | | | |

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.