

Information requirements
(heat pump space heaters and heat pump combination heaters)

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|--|--------------------------------|--------|------|--|---------------------|----------------|--------------------|
| Model(s): AQ OUT HY 54, AQ OUT HY 45, AQ OUT HY 40, AQUABOX 16 | | | | | | | |
| Air-to-water heat pump | Y | | | Low-temperature heat pump | Y | | |
| Water-to-water heat pump | N | | | Equipped with a supplementary heater | Y | | |
| Brine-to-water heat pump | N | | | Heat pump combination heater | Y | | |
| Parameters declared for | Medium-temperature application | | | | | | |
| Parameters declared for | Warmer climate condition | | | | | | |
| Item | symbol | value | unit | Item | symbol | value | unit |
| Rated heat output (*) | Prated | 11,0 | kW | Seasonal space heating energy efficiency | η_s | 146,00 | % |
| 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 | 10,07 | kW | Tj = -7 °C | COPd | 2,2 | - |
| Degradation coefficient (**) | Cdh | x,xx | — | | | | |
| Tj = 2 °C | Pdh | 6,5 | kW | Tj = 2 °C | COPd | 3,4 | - |
| Degradation coefficient (**) | Cdh | x,xx | — | | | | |
| Tj = 7 °C | Pdh | 4,2 | kW | Tj = 7 °C | COPd | 5,8 | - |
| Degradation coefficient (**) | Cdh | x,xx | — | | | | |
| Tj = 12 °C | Pdh | 2,3 | kW | Tj = 12 °C | COPd | 6,8 | - |
| Degradation coefficient (**) | Cdh | x,xx | — | | | | |
| Tj = bivalent temperature | Pdh | 10,1 | kW | Tj = bivalent temperature | COPd | 2,2 | - |
| Tj = operation limit temperature | Pdh | 11,1 | kW | Tj = operation limit temperature | COPd | 2,2 | - |
| For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C) | Pdh | x,x | kW | For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C) | COPd | x,xx or x,x | - |
| Bivalent temperature | Tbiv | -7,0 | °C | For air-to-water heat pumps: Operation limit temperature | TOL | -10,0 | °C |
| Cycling interval capacity for heating | Ppsych | x,x | kW | Cycling interval efficiency | COPcyc or PERcyc | x,xx or x,x | - |
| | | | | Heating water operating limit temperature | WTOL | 35,0 | °C |
| Power consumption in modes other than active mode | | | | Supplementary heater | | | |
| Off mode | P _{OFF} | 0,030 | kW | Rated heat output (*) | P _{sup} | 3,0 | kW |
| Thermostat-off mode | P _{TO} | 0,010 | kW | Type of energy input | | | |
| Standby mode | P _{SB} | 0,030 | kW | | | | |
| Crankcase heater mode | P _{CK} | 0,040 | kW | | | | |
| Other items | | | | | | | |
| Capacity control | fixed/variable | | | For air-to-water heat pumps: Rated air flow rate, outdoors | — | 6000- 6600 | m ³ / h |
| Sound power level, indoors/outdoors | L _{WA} | 70,0 | dB | For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger | — | x | m ³ / h |
| Annual energy consumption | Q _{HE} | 6100,0 | kWh | | | | |
| For heat pump combination heater: | | | | | | | |
| Declared load profile | x | | | Water heating energy efficiency | η_{wh} | x | % |
| Daily electricity consumption | Q _{elec} | x,xxx | kWh | Daily fuel consumption | Q _{fuel} | x,xxx | kWh |
| Annual electricity consumption | AEC | x | kWh | Annual fuel consumption | AFC | x | GJ |
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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. | | | | | | | |