

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

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	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	11,0	kW	Seasonal space heating energy efficiency	$\eta_s$	146,00	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
$T_j = -7\text{ °C}$	Pdh	10,07	kW	$T_j = -7\text{ °C}$	COPd	2,2	-
Degradation coefficient (**)	Cdh	x,xx	—				
$T_j = 2\text{ °C}$	Pdh	6,5	kW	$T_j = 2\text{ °C}$	COPd	3,4	-
Degradation coefficient (**)	Cdh	x,xx	—				
$T_j = 7\text{ °C}$	Pdh	4,2	kW	$T_j = 7\text{ °C}$	COPd	5,8	-
Degradation coefficient (**)	Cdh	x,xx	—				
$T_j = 12\text{ °C}$	Pdh	2,3	kW	$T_j = 12\text{ °C}$	COPd	6,8	-
Degradation coefficient (**)	Cdh	x,xx	—				
$T_j = \text{bivalent temperature}$	Pdh	10,1	kW	$T_j = \text{bivalent temperature}$	COPd	2,2	-
$T_j = \text{operation limit temperature}$	Pdh	11,1	kW	$T_j = \text{operation limit temperature}$	COPd	2,2	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	Pdh	x,x	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if $TOL < -20\text{ °C}$ )	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	Pcyc	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 <sub>OFF</sub>	0,030	kW	Rated heat output (*)	P <sub>sup</sub>	3,0	kW
Thermostat-off mode	P <sub>TO</sub>	0,010	kW	Type of energy input			
Standby mode	P <sub>SB</sub>	0,030	kW				
Crankcase heater mode	P <sub>CK</sub>	0,040	kW				
Other items							
Capacity control	fixed/variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	6000- 6600	m <sup>3</sup> /h
Sound power level, indoors/outdoors	L <sub>WA</sub>	70,0	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	x	m <sup>3</sup> /h
Annual energy consumption	Q <sub>HE</sub>	6100,0	kWh				
For heat pump combination heater:							
Declared load profile	x			Water heating energy efficiency	$\eta_{wh}$	x	%
Daily electricity consumption	Q <sub>elec</sub>	x,xxx	kWh	Daily fuel consumption	Q <sub>fuel</sub>	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.							