



Technical parameters for heat pump space heaters and heat pump combination heaters

As by ANNEX II, point 5 - REQUIREMENTS FOR PRODUCT INFORMATION, Table 2 - COMMISSION REGULATION (EU) No 813/2013 of 2 August 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for space heaters and combination heaters and by ANNEX V - Table 8 of COMMISSION REGULATION (EU) No 811/2013 of 18 February 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater, temperature control and solar device.

Model (Indoor unit)	AQUABOX 12						
Model (Outdoor unit)	AQ OUT HY 20						
Type of heat pump	<input checked="" type="checkbox"/> Air-to-water heat pump <input type="checkbox"/> Water-to-water heat pump <input type="checkbox"/> Brine-to-water heat pump						
Low-temperature heat pump	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Equipped with a supplementary heater	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Heat pump combination heater	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Climate	<input checked="" type="checkbox"/> Average <input type="checkbox"/> Colder <input type="checkbox"/> Warmer						
Temperature application	<input type="checkbox"/> Medium (55°C) <input checked="" type="checkbox"/> Low (35°C)						
Applied standards	EN14825						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	3	kW	Seasonal space heating energy efficiency	η_s	150	%
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	2,5	kW	Tj = - 7°C	COPd	2,24	-
Tj = + 2°C	Pdh	1,5	kW	Tj = + 2°C	COPd	3,76	-
Tj = + 7°C	Pdh	1,0	kW	Tj = + 7°C	COPd	5,28	-
Tj = + 12°C	Pdh	0,9	kW	Tj = + 12°C	COPd	7,02	-
Tj = bivalent temperature	Pdh	2,5	kW	Tj = bivalent temperature	COPd	2,24	-
Tj = operation limit temperature	Pdh	1,6	kW	Tj = operation limit temperature	COPd	1,31	-
Tj = - 15 °C (if TOL < - 20 °C)	Pdh	-	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	-	kW
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-20	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient	Cdh	0,9	-	Heating water operating limit temperature	WTOL	58	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0,000	kW	Rated heat output	P _{sup}	0,5	kW
Thermostat-off mode	P _{SB}	0,008	kW	Type of energy input	-		
Standby mode	P _{TO}	0,005	kW				
Crankcase heater mode	P _{CK}	0,030	kW				
Other items							
Capacity control	variable			Rated air flow rate, outdoor	-	1700	m ³ /h
Sound power level, indoor / outdoor	L _{WA}	46 / 58	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	1502	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
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
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