aquatermic

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) **Model (Outdoor unit)**	**AQUABOX 18** **AQ OUT HY 26**
Type of heat pump	☒ Air-to-water heat pump ☐ Water-to-water heat pump ☐ Brine-to-water heat pump
Low-temperature heat pump	☐ Yes ☒ No
Equipped with a supplementary heater	☐ Yes ☒ No
Heat pump combination heater	☐ Yes ☒ No
Climate	☒ Average ☐ Colder ☐ Warmer
Temperature application	☒ Medium (55°C) ☐ Low (35°C)
Applied starndards	EN14825

Item	**Symbol**	**Value**	**Unit**
Rated heat output	**Prated**	**5**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	4,0	kW
Tj = + 2°C	Pdh	2,6	kW
Tj = + 7°C	Pdh	2,1	kW
Tj = + 12°C	Pdh	2,1	kW
Tj = bivalent temperature	Pdh	4,0	kW
Tj = operation limit temperature	Pdh	2,7	kW
T j = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°C
Cycling interval capacity for heating	Pcych	-	kW
Degradation co-efficient	Cdh	0,9	-

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**η_s**	**110**	**%**
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	1,59	-
Tj = + 2°C	COPd	2,81	-
Tj = + 7°C	COPd	3,99	-
Tj = + 12°C	COPd	6,08	-
Tj = bivalent temperature	COPd	1,59	-
Tj = operation limit temperature	COPd	1,20	-
T j = – 15 °C (if TOL < – 20 °C)	COPd	-	kW
Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	58	°C

Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,000	kW
Thermostat-off mode	P_{SB}	0,008	kW
Standby mode	P_{TO}	0,005	kW
Crankcase heater mode	P_{CK}	0,030	kW

Supplementary heater			
Rated heat output	Psup	1,8	kW
Type of energy input		-	

Other items			
Capacity control		variable	
Sound power level, indoor / outdoor	L_{WA}	46 / 64	dB
Annual energy consumption	Q_{HE}	3286	kWh

Rated air flow rate, outdoor	-	2400	m^3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater			
Declared load profile			
Daily electricity consumption	Qelec		kWh
Annual electricity consumption	AEC		kWh

Water heating energy efficiency	**η_{wh}**		**%**
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

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