

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): AQUE-12-3DV23T							
Air-to-water heat pump	Y			Average (mandatory)	Y		
Water-to-water heat pump	N			Warmer (if designated)	Y		
Brine-to-water heat pump	N			Colder (if designated)	Y		
Low-temperature heat pump	Y			Medium-temperature application	N		
Equipped with a supplementary heater	Y			Low-temperature application	Y		
Heat pump combination heater	Y						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	9.0	kW	Seasonal space heating energy efficiency	η_s	165	%
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	8.2	kW	Tj = -7 °C	COPd or PERd	2.44	- or %
Tj = 2 °C	Pdh	6.1	kW	Tj = 2 °C	COPd or PERd	4.25	- or %
Tj = 7 °C	Pdh	7.2	kW	Tj = 7 °C	COPd or PERd	5.51	- or %
Tj = 12°C	Pdh	8.2	kW	Tj = 12°C	COPd or PERd	6.49	- or %
Tj = bivalent temperature	Pdh	8.2	kW	Tj = bivalent temperature	COPd or PERd	2.44	- or %
Tj = operation limit temperature	Pdh	8.3	kW	Tj = operation limit temperature	COPd or PERd	2.35	- or %
For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	Pdh	/	kW	For air-to-water heat pumps: Tj = -15°C (if TOL < -20°C)	COPd or PERd	/	- or %
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	/	kW	Cycling interval efficiency	COPcyc or PERcyc	/	- or %
Degradation coefficient (**)	Cdh	0.99	—	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.021	kW	Rated heat output (*) Type of energy input	P _{sup}	0.7	kW
Thermostat-off mode	P _{TO}	0.021	kW		electricity		
Standby mode	P _{SB}	0.021	kW				
Crankcase heater mode	P _{CK}	0.010	kW				
Other items							

Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	—	5130.0	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	NA/70	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	/	m ³ /h
Annual energy consumption	Q _{HE}	4452.0	kWh				
For heat pump combination heater:							
Declared load profile	XL			Water heating energy efficiency	η _{wh}	93.1	%
Daily electricity consumption	Q _{elec}	8.3	kWh	Daily fuel consumption	Q _{fuel}	/	kWh
Annual electricity consumption	AEC	1706.0	kWh	Annual fuel consumption	AFC	/	GJ
				Name and address of the supplier: EUROFRED, S.A. Marquès de Sentmenat 97, 08029 Barcelona (Spain) 519070			
<p>(*) 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.</p>							



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