

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): AOWD-MB SMART-28K							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
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	7	kW	Seasonal space heating energy efficiency	η_s	127	%
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	6.20	kW	$T_j = -7\text{ °C}$	COPd	2.22	-
Degradation co-efficient (**)	Cdh	0.96	-				
$T_j = 2\text{ °C}$	Pdh	4.00	kW	$T_j = 2\text{ °C}$	COPd	3.13	-
Degradation co-efficient (**)	Cdh	0.96	-				
$T_j = 7\text{ °C}$	Pdh	2.43	kW	$T_j = 7\text{ °C}$	COPd	4.26	-
Degradation co-efficient (**)	Cdh	0.96	-				
$T_j = 12\text{ °C}$	Pdh	2.98	kW	$T_j = 12\text{ °C}$	COPd	5.52	-
Degradation co-efficient (**)	Cdh	0.96	-				
$T_j = \text{bivalent temperature}$	Pdh	6.20	kW	$T_j = \text{bivalent temperature}$	COPd	2.22	-
$T_j = \text{operation limit temperature}$	Pdh	4.34	kW	$T_j = \text{operation limit temperature}$	COPd	1.78	-
For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20 °C)	Pdh	NA	kW	For air-to-water heat pumps: $T_j = -15\text{ °C}$ (if TOL < -20 °C)	COPd	NA	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{psych}	NA	kW	Cycling interval efficiency	COP _{cycle}	NA	-
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.018	kW	Rated heat output (*)	P _{sup}	2.66	kW
Thermostat-off mode	P _{TO}	0.018	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.018	kW				
Crankcase heater mode	P _{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2600	m ³ / h
Sound power level, indoors/outdoors	L _{WA}	-/65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	NA	m ³ / h
Annual energy consumption	Q _{HE}	4423	kWh				
For heat pump combination heater:(Model(s): AOWD-MB SMART-28K + WITD-AQUATANK MB-300							
Declared load profile	XL			Water heating energy efficiency	η_{wh}	106	%
Daily electricity consumption	Q _{elec}	7.532	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1579	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: CL. Marques de Sentmenat, 97 08029 Barcelona				Name of the supplier: EUROFRED, S.A.			
(*) 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.							