daitsu

	(heat p			requirements leat pump combination heaters)			
Model(s): AOWD-MB SMART-67K							
Air-to-water heat pump	Y			Low-temperature heat pump	Ν		
Water-to-water heat pump	Ν			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	11	kW	Seasonal space heating energy efficiency	ηs	127	%
Declared capacity for heating for part outdoor tem		or temperatu	re 20 °C and	Declared coefficient of performance of indoor temperature 20 °C a			
Tj = − 7 °C	Pdh	10.34	kW			_	
Degradation co-efficient (**)	Cdh	0.98	-	Tj = − 7 °C	COPd	2.13	-
Tj = 2 ℃	Pdh	6.00	kW	− Tj = 2 °C	COPd	3.15	_
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = 7 ℃	Pdh	5.76	kW	- Tj = 7 ℃	COPd	4.24	_
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = 12℃	Pdh	6.36	kW	Tj = 12°C	COPd	5.06	_
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	10.34	kW	Tj = bivalent temperature	COPd	2.13	-
Tj = operation limit temperature	Pdh	10.41	kW	Tj = operation limit temperature	COPd	1.78	-
For air-to-water heat pumps: Tj = -15° C (if TOL < -20° C)	Pdh	NA	kW	For air-to-water heat pumps: Tj = -15°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	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	-
				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplemen	ntary heater		
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.018	kW	Rated heat output (*)	Psup	0.59	kW
Thermostat-off mode	P _{TO}	0.018	kW		Electric		
Standby mode	\mathbf{P}_{SB}	0.018	kW	Type of energy input			
Crankcase heater mode	P _{CK}	0.000	kW				
Other	items						
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4500	m 3 /h
Sound power level, indoors/outdoors	L_{WA}	-/70	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}	6993	kWh				
For heat pump combination heater:(M	odel(s): AO	VD-MB SM	ART-45K +	WITD-AQUATANK MB-300-2			
Declared load profile		XL		Water heating energy efficiency	ηwh	109.8	%
Daily electricity consumption	Qelec	7.292	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	1526	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.