## daitsu

	(heat p			requirements leat pump combination heaters)			
Model(s): AOWD-MB SMART-58VK	C.						
Air-to-water heat pump	Y			Low-temperature heat pump	N		
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	8	kW	Seasonal space heating energy efficiency	ηs	126	%
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 a indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	7.10	kW	- Tj = - 7 °C	CODI	1.98	_
Degradation co-efficient (**)	Cdh	0.98	_		COPd		
Tj = 2 ℃	Pdh	4.50	kW	− Tj = 2 °C	COPd	3.15	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = 7 ℃	Pdh	5.73	kW	- Tj = 7 °C	COPd	4.30	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = 12℃	Pdh	6.40	kW	- Tj = 12°C	COPd	5.50	-
Degradation co-efficient (**)	Cdh	0.98	-				
Tj = bivalent temperature	Pdh	7.10	kW	Tj = bivalent temperature	COPd	1.98	_
Tj = operation limit temperature	Pdh	8.00	kW	Tj = operation limit temperature	COPd	1.70	_
For air-to-water heat pumps: $Tj = -15$ °C (if TOL $\le -20$ °C )	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL \le -20^{\circ}C$ )	COPd	NA	_
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
	ity for heating Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	_
Cycling interval capacity for heating				Heating water operating limit temperature	WTOL	55	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	$\mathbf{P}_{\mathrm{OFF}}$	0.018	kW	Rated heat output (*)	Psup	0.00	kW
Thermostat-off mode	P <sub>TO</sub>	0.018	kW		Electric		
Standby mode	$\mathbf{P}_{\mathrm{SB}}$	0.018	kW	Type of energy input			
Crankcase heater mode	Рск	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	$L_{\text{WA}}$	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow	_	NA	m 3 /h
Annual energy consumption	$Q_{\text{HE}}$	5128	kWh	rate, outdoor heat exchanger			
For heat pump combination heater:(M	odel(s): AO	WD-MB SM	ART-36TK +	WITD-AQUATANK MB-300-3			
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.