

	(heat p			requirements neat pump combination heaters)				
Model(s): AOWD-MB SMART-60K								
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	10	kW	Seasonal space heating energy efficiency	ηs	126	%	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj								
Tj = − 7 °C	Pdh	8.40	kW	T: 7.00	CODI	2.05		
Degradation co-efficient (**)	Cdh	0.98	_	Tj = − 7 °C	COPd	2.05	_	
Tj = 2 ℃	Pdh	5.50	kW	- Tj = 2 ℃	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℃	COPd	5.06	_	
Degradation co-efficient (**)	Cdh	0.98	-					
Tj = bivalent temperature	Pdh	8.40	kW	Tj = bivalent temperature	COPd	2.05	-	
Tj = operation limit temperature	Pdh	9.80	kW	Tj = operation limit temperature	COPd	1.75	_	
For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	Pdh	NA	kW	For air-to-water heat pumps: $Tj = -15^{\circ}C$ (if $TOL < -20^{\circ}C$)	COPd	NA	-	
Bivalent temperature	Tbiv	-7	C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	
Cycling interval capacity for heating	Peych	NA	kW	Cycling interval efficiency	COPcyc	NA	_	
				Heating water operating limit temperature	WTOL	55	°C	
Power consumption in modes other than active mode				Supplemen	Supplementary heater			
Off mode	P_{OFF}	0.018	kW	Rated heat output (*)	Psup	0.20	kW	
Thermostat-off mode	P _{TO}	0.018	kW					
Standby mode	P_{SB}	0.018	kW	Type of energy input	Electric			
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_{w_A}	-/69	dB	For water- or brine-to-water heat pumps: Rated brine or water flow		NA	m 3 /h	
Annual energy consumption	Q_{HE}	6406	kWh	rate, outdoor heat exchanger	- NA III			
For heat pump combination heater:(M	odel(s): AO	WD-MB SM	ART-40K +	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.