

Product fiche concerning the
COMMISSION DELEGATED REGULATIONS

(EU)No 811/2013 of 18 February 2013

(EU)No 813/2013 of 02 August 2013

Models:	Outdoor Unit: AOWD-MB-AT6
	<u>Indoor Unit: None</u>
<u>Air-to-water heat pump</u>	Yes
<u>Brine-to-water heat pump</u>	No
<u>Low temperature heat pump</u>	No
<u>Equipped with a supplementary heater</u>	No
<u>Heat Pump Combination Heater</u>	No
<u>Parameters shall be declared for</u>	<u>Medium-temperature applications</u>
<u>Parameters shall be declared for</u>	<u>Average Climate Conditions</u>

Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	4.714	kW
Seasonal space heating energy efficiency	η_s	145.5	%
Energy Classes		A++	
Seasonal Coefficient of Performance	SCOP	3.71	kWh/kWh
Annual Energy consumption	QHE	2623	kWh
Sound power level indoors/outdoors	LWA	60	dB(A)

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	4.170	kW	Tj = -7°C	COPd	2.32	
Tj = +2°C	Pdh	2.670	kW	Tj = +2°C	COPd	3.66	
Tj = +7°C	Pdh	2.565	kW	Tj = +7°C	COPd	4.64	
Tj = +12°C	Pdh	3.015	kW	Tj = +12°C	COPd	6.32	
Tj = bivalent temperature	Pdh	4.170	kW	Tj = bivalent temperature	COPd	2.32	
Tj = operation limit temperature (***)	Pdh	4.717	kW	Tj = operation limit temperature	COPd	2.06	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation Coefficient (**)	Cdh	0.99	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				Supplementary Heater			

Off Mode	P _{OFF}	0.010	kW	Rate heat output (*)	P _{sup}	0.04	kW
Thermostat-off mode	P _{TO}	0.010	kW				
Standby mode	P _{SB}	0.010	kW	Type of energy input	-		
Crankcase heater mode	P _{CK}	0.042	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		2400	m ³ /h
Outlet temperature capacity control	Variable						
Water flow rate capacity control	Fixed						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output <i>Prated</i> is equal to the design load for heating <i>Pdesignh</i> , and the rated heat output of a supplementary heater <i>Psup</i> is equal to the supplementary capacity for heating <i>sup(Tj)</i> . (**) Cdh shall be determined for each part load ratio, where applicable, by measurement. If not, the default degradation coefficient is Cdh = 0,9 (***) If the declared <i>TOL</i> is lower than the <i>Tdesignh</i> of the considered climate, then the outdoor dry bulb temperature is equal to <i>Tdesignh</i> for the part load							

Models:

Outdoor Unit: AOWD-MB-AT6

Indoor Unit: None

Air-to-water heat pump Yes

Brine-to-water heat pump No

Low temperature heat pump No

Equipped with a supplementary heater No

Heat Pump Combination Heater No

Parameters shall be declared for Low-temperature applications

Parameters shall be declared for Average Climate Conditions

Item	Symbol	Value	Unit
Rated Heat Output	Prated	4.918	kW
Seasonal space heating energy efficiency	η_s	197.1	%
Energy Classes		A+++	
Seasonal Coefficient of Performance	SCOP	5.00	kWh/kWh
Annual Energy consumption	QHE	2031	kWh
Sound power level indoors/outdoors	LWA	60	dB(A)

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	4.350	kW	Tj = -7°C	COPd	3.23	
Tj = +2°C	Pdh	2.657	kW	Tj = +2°C	COPd	4.92	

Tj = +7°C	Pdh	2.060	kW	Tj = +7°C	COPd	6.18	
Tj = +12°C	Pdh	2.354	kW	Tj = +12°C	COPd	8.29	
Tj = bivalent temperature	Pdh	4.350	kW	Tj = bivalent temperature	COPd	3.23	
Tj = operation limit temperature	Pdh	4.954	kW	Tj = operation limit temperature	COPd	2.84	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation Coefficient (**)	Cdh	0.99	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				Supplementary Heater			
Off Mode	POFF	0.010	kW	Rate heat output	Psup	0	kW
Thermostat-off mode	PTO	0.010	kW				
Standby mode	PSB	0.010	kW	Type of energy input	-		
Crankcase heater mode	PCK	0.042	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		2400	m ³ /h
Outlet temperature capacity control	Variable						
Water flow rate capacity control	Fixed						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output <i>Prated</i> is equal to the design load for heating <i>Pdesignh</i> , and the rated heat output of a supplementary heater <i>Psup</i> is equal to the supplementary capacity for heating <i>sup(Tj)</i> . (**) Cdh shall be determined for each part load ratio, where applicable, by measurement. If not, the default degradation coefficient is Cdh = 0,9 (***) If the declared <i>TOL</i> is lower than the <i>Tdesignh</i> of the considered climate, then the outdoor dry bulb temperature is equal to <i>Tdesignh</i> for the part load							