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-2--MB-AT17T
	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	Medium-temperature applications
Parameters shall be declared for	Average Climate Conditions

Item	Symbol	Value	Unit
Rated Heat Output (*)	Prated	16.615	kW
Seasonal space heating energy efficiency	ηs	141.8	%
Energy Classes		A++	
Seasonal Coefficient of Performance	SCOP	3.62	kWh/kWh
Annual Energy consumption	QHE	9486	kWh
Sound power level indoors/outdoors	LWA	63	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	14.698	kW	Tj = -7°C	COPd	2.15	
Tj = +2°C	Pdh	9.088	kW	Tj = +2°C	COPd	3.54	
Tj = +7°C	Pdh	5.759	kW	Tj = +7°C	COPd	4.87	
Tj = +12°C	Pdh	5.856	kW	Tj = +12°C	COPd	6.91	
Tj = bivalent temperature	Pdh	14.698	kW	Tj = bivalent temperature	COPd	2.15	
Tj = operation limit temperature (***)	Pdh	14.048	kW	Tj = operation limit temperature	COPd	1.89	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation Coefficient (**)	Cdh	0.90	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				**Supplementary Heater**			

Off Mode	P_{OFF}	0.015	kW	Rate heat output（*）	Psup	2.567	kW
Thermostat-off mode	P_{TO}	0.015	kW				
Standby mode	P_{SB}	0.015	kW	Type of energy input	Electricity		
Crankcase heater mode	P_{CK}	0.088	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		5500	m³/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 *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)*.

（**）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 *TOL* is lower than the *T*designh of the considered climate, then the outdoor dry bulb temperature is equal to *T*designh for the part load

Models: Outdoor Unit: AOWD-2--MB-AT17T

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	16.712	kW
Seasonal space heating energy efficiency	ηs	182.6	%
Energy Classes		A+++	
Seasonal Coefficient of Performance	SCOP	4.64	kWh/kWh
Annual Energy consumption	QHE	7440	kWh
Sound power level indoors/outdoors	LWA	63	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	14.784	kW	Tj = -7°C	COPd	2.85	
Tj = +2°C	Pdh	9.159	kW	Tj = +2°C	COPd	4.49	

Tj = +7°C	Pdh	5.797	kW	Tj = +7°C	COPd	6.27	
Tj = +12°C	Pdh	6.042	kW	Tj = +12°C	COPd	8.36	
Tj = bivalent temperature	Pdh	14.784	kW	Tj = bivalent temperature	COPd	2.85	
Tj = operation limit temperature	Pdh	15.573	kW	Tj = operation limit temperature	COPd	2.56	
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-10	°C
Degradation Coefficient（**）	Cdh	0.90	-	Heating water operating limit temperature	WTOL	75	°C
Power consumption in modes other than active mode				**Supplementary Heater**			
Off Mode	POFF	0.015	kW	Rate heat output	Psup	1.139	kW
Thermostat-off mode	PTO	0.015	kW				
Standby mode	PSB	0.015	kW	Type of energy input	Electricity		
Crankcase heater mode	PCK	0.088	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		5500	m³/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 *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)*.

（**）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 *TOL* is lower than the *T*designh of the considered climate, then the outdoor dry bulb temperature is equal to *T*designh for the part load