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: CWP	P-M 04 A1
	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	4.751	kW
Seasonal space heating energy efficiency	ηs	140.6	%
Energy Classes		A++	
Seasonal Coefficient of Performance	SCOP	3.59	kWh/kWh
Annual Energy consumption	QHE	2735	kWh
Sound power level indoors/outdoors	LWA	57	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	4.203	kW	Tj = -7°C	COPd	2.22	
Tj = +2°C	Pdh	2.627	kW	Tj = +2°C	COPd	3.52	
Tj = +7°C	Pdh	1.793	kW	Tj = +7°C	COPd	4.77	
Tj = +12°C	Pdh	2.040	kW	Tj = +12°C	COPd	6.26	
Tj = bivalent temperature	Pdh	4.203	kW	Tj = bivalent temperature	COPd	2.22	
Tj = operation limit temperature (***)	Pdh	4.475	kW	Tj = operation limit temperature	COPd	2.06	
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}	0.010	kW	Rate heat output (*)	Psup	0.276	kW
Thermostat-off mode	Рто	0.011	kW				
Standby mode	P _{SB} 0.010 kW		kW	Type of energy input	Electricity		
Crankcase heater mode	Рск	0.042	kW				
Other items							
Capacity control	Variable			Rated airflow rate, outdoors		1800	m³/h
Outlet temperature capacity control	Variable						
Water flow rate capacity control	F	ixed					

^(*) 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)*.

Outdoor Unit: CWP-M 04 A1 Models: Indoor Unit: None Air-to-water heat pump Yes No Brine-to-water heat pump 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	4.475	kW
Seasonal space heating energy efficiency	ηs	195.4	%
Energy Classes		A+++	
Seasonal Coefficient of Performance	SCOP	4.96	kWh/kWh
Annual Energy consumption	QHE	1864	kWh
Sound power level indoors/outdoors	LWA	57	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	3.959	kW	Tj = -7°C	COPd	3.14	
Tj = +2°C	Pdh	2.628	kW	Tj = +2°C	COPd	4.91	

^(**) 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

Tj = +7°C	Pdh	1.962	kW	Tj = +7°C	COPd	6.63	
Tj = +12°C	Pdh	2.332	kW	Tj = +12°C	COPd	8.81	
Tj = bivalent temperature	Pdh	3.959	kW	Tj = bivalent temperature	COPd	3.14	
Tj = operation limit temperature	Pdh	4.244	kW	Tj = operation limit temperature	COPd	2.81	
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 of	ther than act	ive mode		Supplementary Heater			
Off Mode	POFF	0.010	kW	Rate heat output	Psup	0.231	kW
Thermostat-off mode	PTO	0.011	kW				
Standby mode	PSB	0.010	kW	Type of energy input	Electrici	Electricity	
Crankcase heater mode	PCK	0.042	kW				
Other items							
Capacity control	Va	riable		Rated airflow rate, outdoors		1800	m³/h
Outlet temperature capacity control	Va	riable					
Water flow rate capacity control	F	ixed					
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^(*) 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)*.

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^(**) Cdh shall be determined for each part load ratio, where applicable, by measurement. If not, the default degradation coefficient is Cdh =

^(***) 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