

Technical parameters

Model(s):	Outdoor unit: AOWD-V3-120 Indoor unit: AIWD-V3-160
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	10.9	kW
Tj = 2 °C	Pdh	7.0	kW
Tj = 7 °C	Pdh	4.2	kW
Tj = 12 °C	Pdh	2.5	kW
Tj = bivalent temperature	Pdh	10.3	kW
Tj = operating limit	Pdh	10.3	kW
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW
Bivalent temperature	Tbiv	-10	°C
Cycling interval capacity for heating	Pcy ch	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.019	kW
Standby mode	Psb	0.019	kW
Thermostat-off mode	Pto	0.078	kW
Crankcase heater mode	Pck	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	45 / 68	dB
Annual energy consumption	QHE	7835	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	127	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	2.02	-
Tj = 2 °C	COPd	3.05	-
Tj = 7 °C	COPd	4.49	-
Tj = 12 °C	COPd	5.97	-
Tj = bivalent temperature	COPd	1.73	-
Tj = operating limit	COPd	1.73	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COPcy c	-	-
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (**)	Psup	2.0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	m³/h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	EUROFRED S.A. Cl. Marqués de Sentmenat, 97 - 08029 Barcelona - Spain MADE IN P.R.C						

(*) 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.

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Water-to-water heat pump:		NO					
Brine-to-water heat pump:		NO					
Low-temperature heat pump:		NO					
Equipped with a supplementary heater:		YES					
Heat pump combination heater:		NO					
Declared climate condition:		COLDER					
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW	Seasonal space heating energy efficiency	ηs	99	%
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	7.7	kW	TJ = -7 °C	COPd	2.12	-
TJ = 2 °C	Pdh	4.6	kW	TJ = 2 °C	COPd	2.91	-
TJ = 7 °C	Pdh	2.9	kW	TJ = 7 °C	COPd	4.08	-
TJ = 12 °C	Pdh	2.4	kW	TJ = 12 °C	COPd	6.00	-
TJ = bivalent temperature	Pdh	9.9	kW	TJ = bivalent temperature	COPd	1.78	-
TJ = operating limit	Pdh	7.0	kW	TJ = operating limit	COPd	1.28	-
For air-to-water heat pumps: TJ = -15 °C	Pdh	-	kW	For air-to-water heat pumps: TJ = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval capacity for heating	Pcy ch	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	–	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.019	kW	Rated heat output (**)	Psup	12.1	kW
Standby mode	Psb	0.019	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.078	kW				
Crankcase heater mode	Pck	0.014	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	6500	m³/h
Sound power level, indoors/ outdoors	LWA	-	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	-	m³/h
Annual energy consumption	QHE	11694	kWh				
For heat pump combination heater:							
Declared load profile		-		Water heating energy efficiency		ηwh	- %
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption		Qfuel	- kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption		AFC	- GJ
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Low-temperature heat pump:		NO																													
Equipped with a supplementary heater:		YES																													
Heat pump combination heater:		NO																													
Declared climate condition:		WARMER																													
Parameters are declared for medium-temperature application.																															
Item				Symbol				Value				Unit																			
Rated heat output (*)				Prated				12				kW																			
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				-				kW																			
Tj = 2 °C				Pdh				12.0				kW																			
Tj = 7 °C				Pdh				7.8				kW																			
Tj = 12 °C				Pdh				5.3				kW																			
Tj = bivalent temperature				Pdh				12.0				kW																			
Tj = operating limit				Pdh				12.0				kW																			
For air-to-water heat pumps: Tj = -15 °C				Pdh				-				kW																			
Bivalent temperature				Tbiv				2				°C																			
Cycling interval capacity for heating				Pcyc				-				kW																			
Degradation co-efficient (**)				Cdh				0.9				—																			
Power consumption in modes other than active mode																															
Off mode				Poff				0.019				kW																			
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Thermostat-off mode				Pto				0.078				kW																			
Crankcase heater mode				Pck				0.014				kW																			
Other items																															
Capacity control				variable																											
Sound power level, indoors/outdoors				LWA				-				dB																			
Annual energy consumption				QHE				3151				kWh																			
For heat pump combination heater:																															
Declared load profile				-				Water heating energy efficiency				ηwh				-				%											
Daily electricity consumption				Qelec				-				kWh				Daily fuel consumption				Qfuel				-				kWh			
Annual electricity consumption				AEC				-				kWh				Annual fuel consumption				AFC				-				GJ			
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