

Technical parameters


Model(s):	MGC-V12W/D2RN1
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	YES
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.	
Parameters shall be declared for average, colder and warmer climate conditions.	

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	11.1	kW
Tj = 2°C	Pdh	7.0	kW
Tj = 7°C	Pdh	4.3	kW
Tj = 12°C	Pdh	2.0	kW
Tj = bivalent temperature	Pdh	11.1	kW
Tj = operating limit	Pdh	10.4	kW
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°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	0.018	kW
standby mode	Psb	0.019	kW
thermostat-off mode	Pto	0.023	kW
crankcase heater mode	Pck	0.060	kW
Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	-/68	dB
Annual energy consumption	QHE	7050	kWh


Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	143	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COPd	2.50	-
Tj = 2°C	COPd	3.60	-
Tj = 7°C	COPd	5.20	-
Tj = 12°C	COPd	4.90	-
Tj = bivalent temperature	COPd	2.50	-
Tj = operating limit	COPd	2.35	-
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	COP _{cyc} or PER _{cyc}	-	%
Heating water operating limit temperature	WTOL	-	°C
Supplementary heater			
Rated heat output (**)	Psup	-	kW
Type of energy input	-		
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4800	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	-						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency	η_{wh}	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
				Annual fuel consumption	AFC	-	GJ

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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). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.	




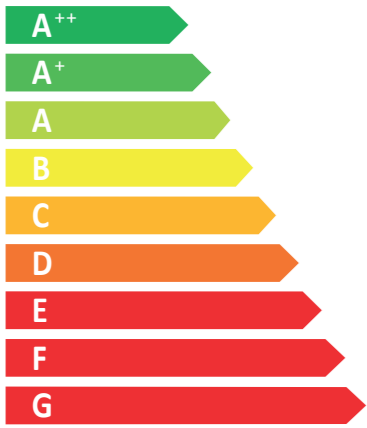
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MGC-V12W/D2RN1


35°C








-- dB



68 dB

- -- kW
- 12 kW
- 9 kW



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