

## Technical parameters


Model(s):	MGC-V16W/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	16	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	11.4	kW
Tj = 2°C	Pdh	8.5	kW
Tj = 7°C	Pdh	5.8	kW
Tj = 12°C	Pdh	2.8	kW
Tj = bivalent temperature	Pdh	12.6	kW
Tj = operating limit	Pdh	11.5	kW
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW
Bivalent temperature	T <sub>biv</sub>	-4	°C
Cycling interval capacity for heating	P <sub>cych</sub>	-	kW
Degradation co-efficient (**)	C <sub>dh</sub>	0.9	--
Power consumption in modes other than active mode			
off mode	P <sub>off</sub>	0.020	kW
standby mode	P <sub>sb</sub>	0.020	kW
thermostat-off mode	P <sub>to</sub>	0.026	kW
crankcase heater mode	P <sub>ck</sub>	0.062	kW
Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L <sub>WA</sub>	-/72	dB
Annual energy consumption	Q <sub>HE</sub>	9878	kWh


Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η <sub>s</sub>	133	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COP <sub>d</sub>	2.10	-
Tj = 2°C	COP <sub>d</sub>	3.40	-
Tj = 7°C	COP <sub>d</sub>	5.24	-
Tj = 12°C	COP <sub>d</sub>	5.75	-
Tj = bivalent temperature	COP <sub>d</sub>	2.35	-
Tj = operating limit	COP <sub>d</sub>	2.10	-
For air-to-water heat pumps: Tj = -15°C	COP <sub>d</sub>	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP <sub>cyc</sub> Or PER <sub>cyc</sub>	-	%
Heating water operating limit temperature	W <sub>TOL</sub>	-	°C
Supplementary heater			
Rated heat output (**)	P <sub>sup</sub>	-	kW
Type of energy input	-		
For air-to-water heat pumps: Rated air flow rate, outdoors	-	6200	m <sup>3</sup> /h
For water-/or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m <sup>3</sup> /h

For heat pump combination heater:							
Declared load profile	-						
Daily electricity consumption	Q <sub>elec</sub>	-	kWh	Water heating energy efficiency	η <sub>wh</sub>	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Q <sub>fuel</sub>	-	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.	

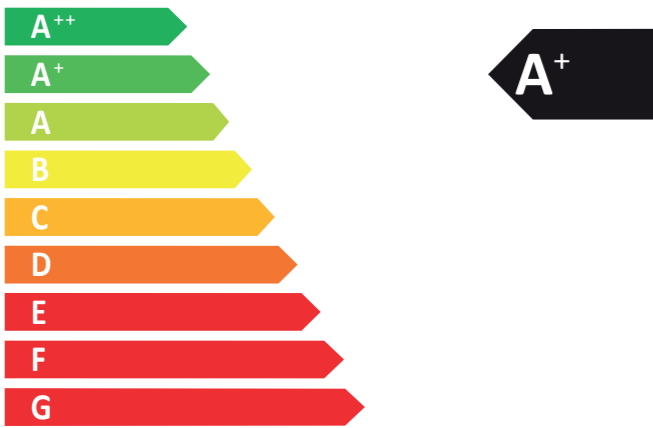



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**MGC-V16W/D2RN1**

35°C






-- dB



**72 dB**

- -- kW
- 16 kW
- 10 kW



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