

Technical parameters


Model(s):	MGC-V14W/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	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	12.3	kW
Tj = 2°C	Pdh	7.6	kW
Tj = 7°C	Pdh	4.9	kW
Tj = 12°C	Pdh	2.4	kW
Tj = bivalent temperature	Pdh	11.2	kW
Tj = operating limit	Pdh	10.9	kW
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW
Bivalent temperature	T _{biv}	-5	°C
Cycling interval capacity for heating	P _{cych}	-	kW
Degradation co-efficient (**)	C _{dh}	0.9	--
Power consumption in modes other than active mode			
off mode	P _{off}	0.020	kW
standby mode	P _{sb}	0.020	kW
thermostat-off mode	P _{to}	0.026	kW
crankcase heater mode	P _{ck}	0.062	kW
Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L _{WA}	-/70	dB
Annual energy consumption	Q _{HE}	7600	kWh


Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	148	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COP _d	2.45	-
Tj = 2°C	COP _d	3.80	-
Tj = 7°C	COP _d	5.30	-
Tj = 12°C	COP _d	5.55	-
Tj = bivalent temperature	COP _d	2.80	-
Tj = operating limit	COP _d	2.20	-
For air-to-water heat pumps: Tj = -15°C	COP _d	-	-
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	W _{TOL}	-	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	-	kW
Type of energy input	-		
For air-to-water heat pumps: Rated air flow rate, outdoors			
	-	4800	m ³ /h
For water-/or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η _{wh}	-	%
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.	

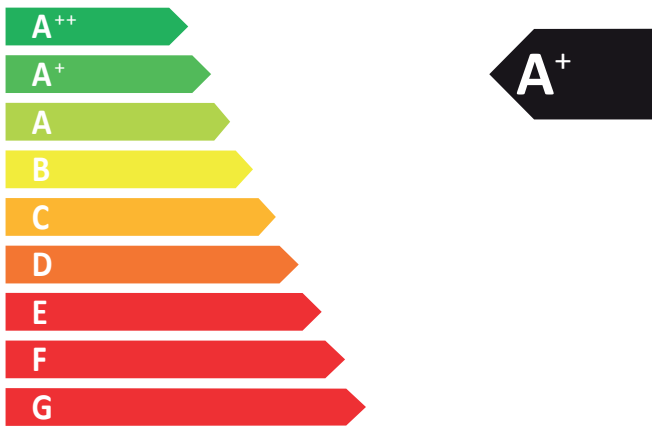



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MGC-V14W/D2RN1

35°C






-- dB



70 dB

■ -- kW
■ 14 kW
■ 9 kW



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