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MHC-V10W/D2N1



55 °C

35 °C



A⁺⁺

A⁺⁺



-- dB



66 dB

■ 10
■ **11**
■ 10
kW

■ 11
■ **10**
■ 10
kW



2015

811/2013

Technical parameters

Model(s):	MHC-V10W/D2N1
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

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	11	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	10.0	kW
Tj = 2°C	Pdh	6.3	kW
Tj = 7°C	Pdh	4.0	kW
Tj = 12°C	Pdh	2.6	kW
Tj = bivalent temperature	Pdh	10.0	kW
Tj = operating limit	Pdh	10.9	kW
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW
Bivalent temperature	T _{biv}	-7	°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}	0.017	kW
standby mode	P _{sb}	0.017	kW
thermostat-off mode	P _{to}	0.006	kW
crankcase heater mode	P _{ck}	0.018	kW

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L _{WA}	-/66	dB
Annual energy consumption	Q _{HE}	7025	kWh or GJ

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	129	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	COPd	2.01	-
Tj = 2°C	COPd	3.18	-
Tj = 7°C	COPd	4.54	-
Tj = 12°C	COPd	5.37	-
Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	COPd	1.76	-
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 PERCyc	-	%
Heating water operating limit temperature	W _{TOL}	49	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	0.4	kW
Type of energy input	Electrical Heating		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	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	-			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: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) 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.

Technical parameters

Model(s):	MHC-V10W/D2N1
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
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	10	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	6.2	kW
Tj = 2°C	Pdh	3.9	kW
Tj = 7°C	Pdh	2.5	kW
Tj = 12°C	Pdh	1.2	kW
Tj = bivalent temperature	Pdh	8.4	kW
Tj = operating limit	Pdh	7.1	kW
For air-to-water heat pumps: Tj = -15°C	Pdh	8.4	kW
Bivalent temperature	T _{biv}	-15	°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}	0.017	kW
standby mode	P _{sb}	0.017	kW
thermostat-off mode	P _{to}	0.006	kW
crankcase heater mode	P _{ck}	0.018	kW

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L _{WA}	-66	dB
Annual energy consumption	Q _{HE}	9946	kWh or GJ

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	99	%
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	2.17	-
Tj = 2°C	COP _d	3.00	-
Tj = 7°C	COP _d	4.09	-
Tj = 12°C	COP _d	3.10	-
Tj = bivalent temperature	COP _d	1.68	-
Tj = operating limit	COP _d	1.31	-
For air-to-water heat pumps: Tj = -15°C	COP _d	1.68	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP _{cyc} or PER _{cyc}	-	%
Heating water operating limit temperature	W _{TOL}	40	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	2.6	kW
Type of energy input	Electrical heating		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	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	-			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

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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.

Technical parameters							
Model(s):		MHC-V10W/D2N1					
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					
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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10	kW	Seasonal space heating energy efficiency	η_s	153	%
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 = -7°C	COPd	-	-
Tj = 2°C	Pdh	10.2	kW	Tj = 2°C	COPd	2.35	-
Tj = 7°C	Pdh	6.6	kW	Tj = 7°C	COPd	3.38	-
Tj = 12°C	Pdh	3.0	kW	Tj = 12°C	COPd	4.95	-
Tj = bivalent temperature	Pdh	6.6	kW	Tj = bivalent temperature	COPd	3.38	-
Tj = operating limit	Pdh	10.2	kW	Tj = operating limit	COPd	2.35	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	T _{biv}	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc} or PER _{cyc}	-	%
Degradation co-efficient (**)	C _{dh}	0.9	-	Heating water operating limit temperature	W _{TOL}	60	°C
Power consumption in modes other than active mode				Supplementary heater			
off mode	P _{off}	0.017	kW	Rated heat output (**)	P _{sup}	0.1	kW
standby mode	P _{sb}	0.017	kW	Type of energy input	Electrical heating		
thermostat-off mode	P _{to}	0.006	kW				
crankcase heater mode	P _{ck}	0.018	kW				
Other items							
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	-/66	dB	For air-to-water heat pumps: Rated air flow rate, outdoors	-	6150	m³/h
Annual energy consumption	Q _{HE}	3534	kWh or GJ	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	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)						
(*) 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.							