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MHC-V9W/D2N1



55°C

35°C



A⁺⁺

A⁺⁺

--dB

68dB

9 kW

9 kW

8 kW

2015

811/2013

Technical parameters							
Model(s):		MHC-V9W/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:		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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η_s	127	%
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	1.98	-
Tj = 2°C	Pdh	4.9	kW	Tj = 2°C	COPd	3.02	-
Tj = 7°C	Pdh	3.2	kW	Tj = 7°C	COPd	4.67	-
Tj = 12°C	Pdh	1.4	kW	Tj = 12°C	COPd	6.16	-
Tj = bivalent temperature	Pdh	7.7	kW	Tj = bivalent temperature	COPd	1.98	-
Tj = operating limit	Pdh	7.0	kW	Tj = operating limit	COPd	1.78	-
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	-10	°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}	49	°C
Power consumption in modes other than active mode				Supplementary heater			
off mode	P _{off}	0.016	kW	Rated heat output (**)	P _{sup}	1.7	kW
standby mode	P _{sb}	0.016	kW	Type of energy input	-		
thermostat-off mode	P _{to}	0.016	kW				
crankcase heater mode	P _{ck}	0.034	kW				
Other items							
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	-/68	dB	For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h
Annual energy consumption	Q _{HE}	5558	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.							

Technical parameters

Model(s):	MHC-V9W/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:	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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	9	kW	Seasonal space heating energy efficiency	η_s	110	%
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	5.4	kW	Tj = -7°C	COPd	2.32	-
Tj = 2°C	Pdh	3.2	kW	Tj = 2°C	COPd	3.38	-
Tj = 7°C	Pdh	2.1	kW	Tj = 7°C	COPd	4.87	-
Tj = 12°C	Pdh	1.1	kW	Tj = 12°C	COPd	6.25	-
Tj = bivalent temperature	Pdh	6.4	kW	Tj = bivalent temperature	COPd	1.93	-
Tj = operating limit	Pdh	4.5	kW	Tj = operating limit	COPd	1.38	-
For air-to-water heat pumps: Tj = -15°C	Pdh	6.1	kW	For air-to-water heat pumps: Tj = -15°C	COPd	1.79	-
Bivalent temperature	T _{biv}	-12	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°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}	40	°C
Power consumption in modes other than active mode				Supplementary heater			
off mode	P _{off}	0.016	kW	Rated heat output (**)	P _{sup}	4.2	kW
standby mode	P _{sb}	0.016	kW	Type of energy input	-		
thermostat-off mode	P _{to}	0.016	kW				
crankcase heater mode	P _{ck}	0.034	kW				

Other items							
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	-68	dB	For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m³/h
Annual energy consumption	Q _{HE}	7622	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

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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-V9W/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:	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	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8	kW	Seasonal space heating energy efficiency	η_s	167	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T _J				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature T _J			
T _J = -7°C	P _{dh}	-	kW	T _J = -7°C	COP _d	-	-
T _J = 2°C	P _{dh}	8.5	kW	T _J = 2°C	COP _d	2.22	-
T _J = 7°C	P _{dh}	5.8	kW	T _J = 7°C	COP _d	3.62	-
T _J = 12°C	P _{dh}	2.5	kW	T _J = 12°C	COP _d	5.76	-
T _J = bivalent temperature	P _{dh}	8.5	kW	T _J = bivalent temperature	COP _d	2.22	-
T _J = operating limit	P _{dh}	8.5	kW	T _J = operating limit	COP _d	2.22	-
For air-to-water heat pumps: T _J = -15°C	P _{dh}	-	kW	For air-to-water heat pumps: T _J = -15°C	COP _d	-	-
Bivalent temperature	T _{biv}	2	°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}	0.016	kW	Rated heat output (**)	P _{sup}	0.5	kW
standby mode	P _{sb}	0.016	kW	Type of energy input	-		
thermostat-off mode	P _{to}	0.016	kW				
crankcase heater mode	P _{ck}	0.034	kW				

Other items							
Capacity control	variable						
Sound power level, indoors/outdoors	L _{WA}	-/68	dB	For air-to-water heat pumps: Rated air flow rate, outdoors	-	3050	m ³ /h
Annual energy consumption	Q _{HE}	2668	kWh or GJ	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(T_J).

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is C_{dh} = 0,9.