

Technical parameters							
Model(s):	MHC-V7W/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
Rated heat output (*)	Prated	7	kW
Declared capacity for heating for pand outdoor temperature Tj	indoor tempera	ature 20 °C	
Tj = -7℃	Pdh	5.8	kW
Tj = 2℃	Pdh	3.7	kW
Tj = 7°C	Pdh	2.6	kW
Tj = 12℃	Pdh	1.3	kW
Tj = bivalent temperature	Pdh	5.8	kW
Tj = operating limit	Pdh	6.6	kW
For air-to-water heat pumps: $T_J = -15^{\circ}C$	Pdh	-	kW
Bivalent temperature	T <sub>biv</sub>	-7	°C
Cycling interval capacity for heating	P <sub>cych</sub>	-	kW
Degradation co-efficient (**)	$C_{dh}$	0.9	1
Power consumption in modes other	r than active	mode	
off mode	P <sub>off</sub>	0.016	kW
standby mode	P <sub>sb</sub>	0.016	kW
thermostat-off mode	P <sub>to</sub>	0.016	kW
crankcase heater mode	P <sub>ck</sub>	0.034	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	126	%
Declared coefficient of perform indoor temperature 20 °C and			part load at
Tj = -7℃	COPd	1.97	-
Tj = 2℃	COPd	3.06	-
Tj = <b>7</b> ℃	COPd	4.46	-
Tj = 12℃	COPd	5.65	-
Tj = bivalent temperature	COPd	1.97	-
Tj = operating limit	COPd	1.71	-
For air-to-water heat pumps: Tj = -15 $^{\circ}$ C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP <sub>cyc</sub> or PERcyc	-	%
Heating water operating limit temperature	W <sub>TOL</sub>	49	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input		-	

Other items							
Capacity control		variable					
Sound power level, indoors/ outdoors	L <sub>WA</sub>	-/65	dB				
Annual energy consumption	$Q_{HE}$	4228	kWh or GJ				

For air-to-water heat pumps: Rated air flow rate, outdoors	_	3050	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	-				Water heating energy efficiency	$\eta_{\text{wh}}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	-	kWh		Daily fuel consumption	Q <sub>fuel</sub>	-	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)

<sup>(\*)</sup> 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).

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

			Technica	al parameters			
Model(s):				MHC-V7W/D2N	11		
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		NO					
Heat pump combination heater:		NO					
			ation, except f	or low-temperature heat pumps. F	or low-temperature	heat pumps,	parameters
shall be declared for low-temper				no.			
Parameters shall be declared f	or average, cold	er and warm	er climate cond	ditions			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7	kW	Seasonal space heating	ηs	106	%
,				energy efficiency	·		
Declared capacity for heating for and outdoor temperature Tj	or part load at	indoor temper	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and			part load at
Tj = -7°C	Pdh	4.4	kW	Tj = -7℃	COPd	2.26	-
Tj = 2℃	Pdh	2.5	kW	Tj = 2℃	COPd	3.43	-
Tj = 7℃	Pdh	1.6	kW	Tj = 7℃	COPd	4.39	-
Tj = 12℃	Pdh	1.0	kW	Tj = 12℃	COPd	5.39	-
Tj = bivalent temperature	Pdh	5.4	kW	Tj = bivalent temperature	COPd	1.77	-
Tj = operating limit	Pdh	4.2	kW	Tj = operating limit	COPd	1.34	-
For air-to-water heat pumps: Tj = -15 $^{\circ}$ C	Pdh	5.0	kW	For air-to-water heat pumps: Tj = -15 $^{\circ}$ C	COPd	1.66	-
Bivalent temperature	$T_{biv}$	-13	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval capacity for heating	P <sub>cych</sub>	-	kW	Cycling interval efficiency	COP <sub>cyc</sub> or PERcyc	-	%
Degradation co-efficient (**)	$C_{dh}$	0.9		Heating water operating limit temperature	W <sub>TOL</sub>	40	°C
Power consumption in modes	other than active	e mode		Supplementary heater			
off mode	P <sub>off</sub>	0.016	kW	Rated heat output (**)	Psup	2.5	kW
standby mode	P <sub>sb</sub>	0.016	kW	nateu neat output ( )	i sup	2.0	K.VV
thermostat-off mode	P <sub>to</sub>	0.016	kW	Type of energy input		-	

Other items							
Capacity control		variable					
Sound power level, indoors/ outdoors	L <sub>WA</sub>	-/65	dB				
Annual energy consumption	$Q_{HE}$	6436	kWh or GJ				

 $P_{ck}$ 

crankcase heater mode

0.034

 $\,kW\,$ 

item	Symbol	value	Unit
Seasonal space heating energy efficiency	ηs	106	%
Declared coefficient of perform	ance or primary e	nergy ratio for	part load at
indoor temperature 20 °C and	outdoor temperatur	e Tj	
Tj = - <b>7</b> ℃	COPd	2.26	-
Tj = 2℃	COPd	3.43	-
Tj = 7℃	COPd	4.39	-
Tj = 12℃	COPd	5.39	-
Tj = bivalent temperature	COPd	1.77	-
Tj = operating limit	COPd	1.34	-
For air-to-water heat pumps: $T_j = -15^{\circ}C$	COPd	1.66	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP <sub>cyc</sub> or PERcyc	-	%
Heating water operating limit temperature	W <sub>TOL</sub>	40	°C
Supplementary heater			
Rated heat output (**)	Psup	2.5	kW
Type of energy input		-	

For air-to-water heat pumps:		3050	m³/h
Rated air flow rate, outdoors		0000	111711
For water- or brine-to-water			
heat pumps: Rated brine or			m <sup>3</sup> /h
water flow rate, outdoor heat	_	-	111 /11
exchanger			

For heat pump combination heater:									
Declared load profile	-				Water heating energy efficiency	$\eta_{\text{wh}}$	-	%	
Daily electricity consumption	Q <sub>elec</sub>	-	kWh		Daily fuel consumption	Q <sub>fuel</sub>	-	kWh	
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ	

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<sup>(\*)</sup> 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).

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

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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 fo	r medium-temp	erature applic	ation, except	for low-temperature heat pumps. F	or low-temperature	heat pumps,	parameters
shall be declared for low-temper							
Parameters shall be declared fo	r average, cold	er and warme	er climate cor	nditions			
Itom	Cumbal	Value	Unit	ltom	Cumbal	Value	Unit
Item	Symbol	value	Uniil	Item Seasonal space heating	Symbol	value	Unit
Rated heat output (*)	Prated	7	kW	energy efficiency	ης	167	%
Declared capacity for heating for and outdoor temperature Tj	r part load at	indoor tempera	ature 20 °C	Declared coefficient of perform indoor temperature 20 °C and			part load at
Tj = - <b>7</b> °C	Pdh	-	kW	Tj = -7℃	COPd	-	-
Tj = 2℃	Pdh	6.8	kW	Tj = 2°C	COPd	2.18	-
Tj = 7°C	Pdh	4.4	kW	Tj = 7°C	COPd	3.45	-
Ti = 12℃	Pdh	2.1	kW	Ti = 12℃	COPd	6.01	-
Tj = bivalent temperature	Pdh	4.4	kW	Tj = bivalent temperature	COPd	3.45	-
Tj = operating limit	Pdh	6.8	kW	Tj = operating limit	COPd	2.18	-
For air-to-water heat pumps:	Pdh	_	kW	For air-to-water heat pumps:	COPd	_	-
_Tj = -15℃				Tj = -15°C For air-to-water heat pumps:			
Bivalent temperature	T <sub>biv</sub>	7	°C	Operation limit temperature	TOL	2	°C
Cycling interval capacity for	P <sub>cych</sub>	-	kW	Cycling interval efficiency	COP <sub>cyc</sub> or	-	%
heating	<u> </u>			Heating water operating limit	PERcyc		
Degradation co-efficient (**)	$C_{dh}$	0.9		temperature	W <sub>TOL</sub>	60	°C
Power consumption in modes of	ther than active	e mode		Supplementary heater			
off mode	P <sub>off</sub>	0.016	kW	Rated heat output (**)	Psup	0	kW
standby mode	P <sub>sb</sub>	0.016	kW	Traica fical output ( )	Т Зир	O	KVV
thermostat-off mode	P <sub>to</sub>	0.016	kW	Type of energy input			
crankcase heater mode	P <sub>ck</sub>	0.034	kW	Type of energy input			
Other items							
Other items				For air-to-water heat pumps:			
Capacity control		variable		Rated air flow rate, outdoors	_	3050	m³/h
Sound power level, indoors/	I	-/65	dB	For water- or brine-to-water			
outdoors	L <sub>WA</sub>	700		heat pumps: Rated brine or		_	m <sup>3</sup> /h
Annual energy consumption	$Q_{HE}$	2121	kWh or GJ	water flow rate, outdoor heat	_		111 /11
			loi Ga	exchanger			
For heat pump combination hea	ter:						
Declared load profile		-		Water heating energy efficiency	$\eta_{\text{wh}}$	-	%
Daily electricity consumption	Q <sub>elec</sub>	_	kWh	Daily fuel consumption	Q <sub>fuel</sub>	_	kWh
Annual electricity consumption	0			,	A C C		

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Annual electricity consumption

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AFC

GJ

Annual fuel consumption

kWh

AEC

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