

Technical parameters								
Model(s):	MHC-V16W/D2N8-B							
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							
Declared climate condition:	AVERAGE							
Parameters are declared for medium-temperature application.								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heat output (*)	Prated	13.0	kW	Seasonal space heating energy efficiency	η_s	133.3	%	
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℃	Pdh	11.52	kW	Tj = -7℃	COPd	1.99	-	
Tj = 2℃	Pdh	7.18	kW	Tj = 2℃	COPd	3.34	-	
Tj = 7℃	Pdh	4.67	kW	Tj = 7℃	COPd	4.61	-	
Tj = 12℃	Pdh	3.31	kW	Tj = 12℃	COPd	6.07	-	
Tj = bivalent temperature	Pdh	11.52	kW	Tj = bivalent temperature	COPd	1.99	-	
Tj = operating limit	Pdh	10.33	kW	Tj = operating limit	COPd	1.80	-	
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW	For air-to-water heat pumps: Tj = -15℃	COPd	-	-	
Bivalent temperature	Tbiv	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃	
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-	
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	℃	
Power consumption in modes other than active mode				Supplementary heater				
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	2.68	kW	
Standby mode	Psb	0.014	kW					
Thermostat-off mode	Pto	0.024	kW	Type of energy input	Electrical			
Crankcase heater mode	Pck	0.000	kW					
Other items								
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m³/h	
Sound power level, indoors/outdoors	LWA	-68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h	
Annual energy consumption	QHE	7895	kWh					
For heat pump combination heater:								
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%	
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	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.								

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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									
Declared climate condition:				COLDER									
Parameters are declared for medium-temperature application.													
Item				Symbol	Value	Unit	Item				Symbol	Value	Unit
Rated heat output (*)				Prated	11.8	kW	Seasonal space heating energy efficiency				η_s	121.8	%
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℃				Pdh	7.64	kW	Tj = -7℃				COPd	2.65	-
Tj = 2℃				Pdh	4.42	kW	Tj = 2℃				COPd	3.79	-
Tj = 7℃				Pdh	2.97	kW	Tj = 7℃				COPd	4.81	-
Tj = 12℃				Pdh	3.43	kW	Tj = 12℃				COPd	6.29	-
Tj = bivalent temperature				Pdh	9.61	kW	Tj = bivalent temperature				COPd	1.86	-
Tj = operating limit				Pdh	5.21	kW	Tj = operating limit				COPd	1.23	-
For air-to-water heat pumps: Tj = -15℃				Pdh	-	kW	For air-to-water heat pumps: Tj = -15℃				COPd	-	-
Bivalent temperature				Tbiv	-15	℃	For air-to-water heat pumps: Operation limit temperature				TOL	-22	℃
Cycling interval capacity for heating				Pcyc	-	kW	Cycling interval efficiency				COPcyc	-	-
Degradation co-efficient (**)				Cdh	0.9	--	Heating water operating limit temperature				WTOL	51	℃
Power consumption in modes other than active mode						Supplementary heater							
Off mode				Poff	0.014	kW	Rated heat output (**)				Psup	6.59	kW
Standby mode				Psb	0.014	kW	Type of energy input				Electrical		
Thermostat-off mode				Pto	0.024	kW							
Crankcase heater mode				Pck	0.000	kW							
Other items													
Capacity control				variable			For air-to-water heat pumps: Rated air flow rate, outdoors				-	4650	m³/h
Sound power level, indoors/outdoors				LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h
Annual energy consumption				QHE	9309	kWh							
For heat pump combination heater:													
Declared load profile				-			Water heating energy efficiency				η_{wh}	-	%
Daily electricity consumption				Qelec	-	kWh	Daily fuel consumption				Qfuel	-	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)									
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(**) 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									
Declared climate condition:				WARMER									
Parameters are declared for medium-temperature application.													
Item				Symbol	Value	Unit	Item				Symbol	Value	Unit
Rated heat output (*)				Prated	13.8	kW	Seasonal space heating energy efficiency				η_s	176.1	%
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℃				Pdh	-	kW	Tj = -7℃				COPd	-	-
Tj = 2℃				Pdh	13.38	kW	Tj = 2℃				COPd	2.29	-
Tj = 7℃				Pdh	8.86	kW	Tj = 7℃				COPd	3.84	-
Tj = 12℃				Pdh	4.06	kW	Tj = 12℃				COPd	5.86	-
Tj = bivalent temperature				Pdh	8.86	kW	Tj = bivalent temperature				COPd	3.84	-
Tj = operating limit				Pdh	13.38	kW	Tj = operating limit				COPd	2.29	-
For air-to-water heat pumps: Tj = -15℃				Pdh	-	kW	For air-to-water heat pumps: Tj = -15℃				COPd	-	-
Bivalent temperature				Tbiv	7	℃	For air-to-water heat pumps: Operation limit temperature				TOL	2	℃
Cycling interval capacity for heating				Pcyc	-	kW	Cycling interval efficiency				COPcyc	-	-
Degradation co-efficient (**)				Cdh	0.9	--	Heating water operating limit temperature				WTOL	62	℃
Power consumption in modes other than active mode						Supplementary heater							
Off mode				Poff	0.014	kW	Rated heat output (**)				Psup	0.42	kW
Standby mode				Psb	0.014	kW	Type of energy input				Electrical		
Thermostat-off mode				Pto	0.024	kW							
Crankcase heater mode				Pck	0.000	kW							
Other items													
Capacity control				variable			For air-to-water heat pumps: Rated air flow rate, outdoors				-	4650	m³/h
Sound power level, indoors/outdoors				LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger				-	-	m³/h
Annual energy consumption				QHE	4112	kWh							
For heat pump combination heater:													
Declared load profile				-			Water heating energy efficiency				η_{wh}	-	%
Daily electricity consumption				Qelec	-	kWh	Daily fuel consumption				Qfuel	-	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)									
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(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.													