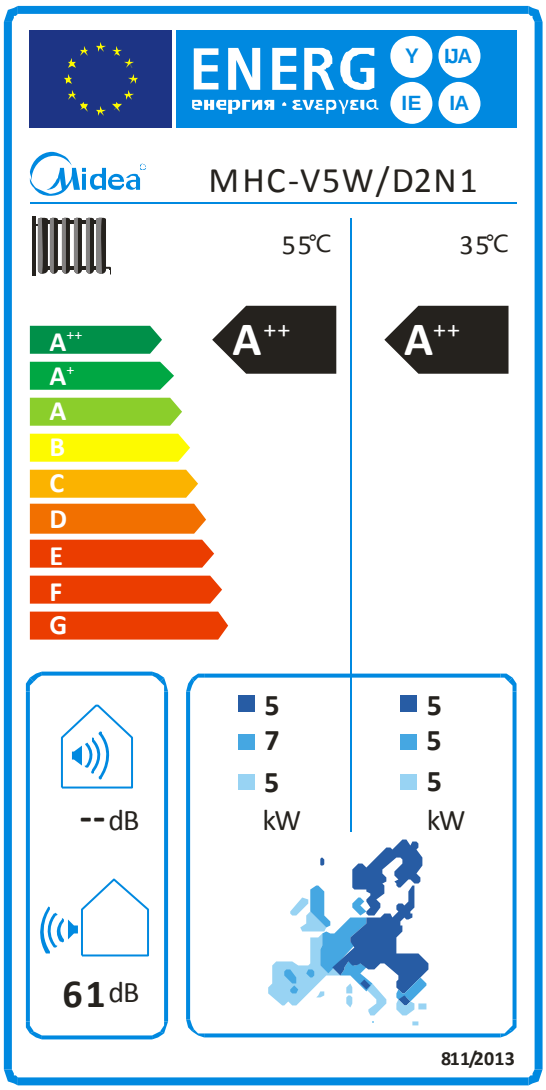
ENERG
енергия · ενεργεια
Y
IJA
IE
IA
Midea
MHC-V5W/D2N1
55℃
35℃
A++
A+
A
B
C
D
E
F
G
A++
A++
--dB
61dB
5
7
5
kW
5
5
5
kW
811/2013

Technical parameters

Model(s):	MHC-V5W/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 part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	5.8	kW
Tj = 2℃	Pdh	3.7	kW
Tj = 7℃	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: Tj = -15℃	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}	0.016	kW
standby mode	P_{sb}	0.016	kW
thermostat-off mode	P_{to}	0.016	kW
crankcase heater mode	P_{ck}	0.034	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	126	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	1.97	-
Tj = 2℃	COPd	3.06	-
Tj = 7℃	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℃	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 (**)	Psup	0	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-/61	dB
Annual energy consumption	Q_{HE}	4228	kWh or GJ

For air-to-water heat pumps: Rated air flow rate, outdoors	–	3050	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-V5W/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	5	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	3	kW
Tj = 2℃	Pdh	1.7	kW
Tj = 7℃	Pdh	1.2	kW
Tj = 12℃	Pdh	1.1	kW
Tj = bivalent temperature	Pdh	3.8	kW
Tj = operating limit	Pdh	4.2	kW
For air-to-water heat pumps: Tj = -15℃	Pdh	3.8	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}	0.016	kW
standby mode	P_{sb}	0.016	kW
thermostat-off mode	P_{to}	0.016	kW
crankcase heater mode	P_{ck}	0.034	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	100	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	2.12	-
Tj = 2℃	COPd	3.01	-
Tj = 7℃	COPd	3.91	-
Tj = 12℃	COPd	5.84	-
Tj = bivalent temperature	COPd	1.66	-
Tj = operating limit	COPd	1.37	-
For air-to-water heat pumps: Tj = -15℃	COPd	1.66	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP_{cyc} or PERcyc	-	%
Heating water operating limit temperature	W_{TOL}	40	°C
Supplementary heater			
Rated heat output (**)	Psup	0.2	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-/61	dB
Annual energy consumption	Q_{HE}	4459	kWh or GJ

For air-to-water heat pumps: Rated air flow rate, outdoors	–	3050	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-V5W/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	5	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	-	kW
Tj = 2℃	Pdh	4.7	kW
Tj = 7℃	Pdh	3.0	kW
Tj = 12℃	Pdh	1.4	kW
Tj = bivalent temperature	Pdh	3.0	kW
Tj = operating limit	Pdh	4.7	kW
For air-to-water heat pumps: Tj = -15℃	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}	0.016	kW
standby mode	P_{sb}	0.016	kW
thermostat-off mode	P_{to}	0.016	kW
crankcase heater mode	P_{ck}	0.034	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	145	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	-	-
Tj = 2℃	COPd	2.07	-
Tj = 7℃	COPd	3.29	-
Tj = 12℃	COPd	4.74	-
Tj = bivalent temperature	COPd	3.29	-
Tj = operating limit	COPd	2.07	-
For air-to-water heat pumps: Tj = -15℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc} or PERcyc	-	%
Heating water operating limit temperature	W_{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0.2	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	L_{WA}	-/61	dB
Annual energy consumption	Q_{HE}	1660	kWh or GJ

For air-to-water heat pumps: Rated air flow rate, outdoors	–	3050	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.