

TECHNICAL DATA MANUAL

M-THERMAL SPLIT

Product Fiche

Manufacture: GD Midea Heating & Ventilating Equipment Co.,Ltd.

Address: Penglai Industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311, P.R. China

Models		Climate condition	Sound power level(indoor/outdoor), LWA[dB]	Medium - temperature application				Low-temperature application			
Outdoor unit	Indoor unit			Rated heat output [kW]	Energy efficiency	Annual energy consumption [kWh]	Energy efficiency classes	Rated heat output [kW]	Energy efficiency	Annual energy consumption [kWh]	Energy efficiency classes
MHA-V4W/D2N1	SMK-80/CD30GN1-B	Average	43 / 62	4	127%	2700	A++	4	183%	1941	A+++
		Colder	/	4	103%	3905	/	4	142%	2757	/
		Warmer	/	4	150%	1520	/	4	218%	1030	/
MHA-V6W/D2N1	SMK-80/CD30GN1-B	Average	43/ 66	6	130%	3875	A++	6	185%	2635	A+++
		Colder	/	5	109%	4713	/	6	153%	3691	/
		Warmer	/	6	143%	2293	/	6	182%	1844	/
MHA-V8W/D2N1	SMK-80/CD30GN1-B	Average	43 / 69	7	125%	4474	A++	8	170%	3790	A++
		Colder	/	7	87%	7319	/	8	135%	5818	/
		Warmer	/	7	149%	2572	/	8	229%	1792	/
MHA-V10W/D2N1	SMK-160/CD30GN1-B	Average	45 /67	12	127%	7833	A++	10	177%	4570	A+++
		Colder	/	10	96%	10902	/	10	146%	6508	/
		Warmer	/	10	167%	3228	/	10	239%	2269	/
MHA-V12W/D2N1	SMK-160/CD30GN1-B	Average	45 /69	12	127%	7833	A++	12	175%	5558	A+++
		Colder	/	12	111%	10972	/	12	142%	8924	/
		Warmer	/	11	172%	3491	/	12	245%	2633	/
MHA-V14W/D2N1	SMK-160/CD30GN1-B	Average	45 /71	14	128%	8688	A++	14	168%	6715	A++
		Colder	/	14	111%	12378	/	14	132%	9984	/
		Warmer	/	14	166%	4432	/	14	211%	3505	/
MHA-V16W/D2N1	SMK-160/CD30GN1-B	Average	45/ 72	15	127%	9491	A++	16	157%	8272	A++
		Colder	/	15	114%	13244	/	16	135%	11613	/
		Warmer	/	15	179%	4483	/	16	210%	4044	/
MHA-V12W/D2RN1	SMK-160/CSD45GN1-B	Average	45/ 70	12	128%	7537	A++	12	184%	5383	A+++
		Colder	/	12	110%	10454	/	12	157%	7445	/
		Warmer	/	12	164%	3700	/	12	255%	2602	/
MHA-V14W/D2RN1	SMK-160/CSD45GN1-B	Average	45/ 72	14	130%	8689	A++	14	179%	6405	A+++
		Colder	/	14	108%	12892	/	14	150%	9123	/
		Warmer	/	14	167%	4249	/	14	260%	2832	/
MHA-V16W/D2RN1	SMK-160/CSD45GN1-B	Average	45 / 72	15	130%	9312	A++	16	172%	7421	A++
		Colder	/	15	109%	13924	/	16	143%	11009	/
		Warmer	/	15	167%	4723	/	16	244%	3438	/

Specific precautions when the space heater is assembled, installed or maintained:

- (1) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- (2) Turn off the main power supply switch or breaker before attempting any electrical work. Make sure all power switches are off. Failure to do so may cause electric shock.
- (3) Perform installation work properly according to the Installation Manual.
- (4) Install the heat pump securely in a location where the base can sustain the weight adequately. Perform the specified installation work to guard against an earthquake. If the heat pump is not installed appropriately, accidents may occur due to the falling units.
- (5) Conform to the regulations of the local electric company when wiring the power supply. Inappropriate grounding may cause electric shock.
- (6) Before cleaning, be sure to stop the operation, turn the breaker off or pull out the supply cord.
- (7) Do not operate the heat pump with a wet hand.
- (8) Never touch the internal parts of the units.
- (9) The company reserves the right to revise product technical parameter without having to notify the clients individually.

Technical parameters

Model(s):	Outdoor unit: MHA-V4W/D2N1 Indoor unit: SMK-80/CD30GN1-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:	YES		
Heat pump combination heater:	NO		
Declared climate condition:	AVERAGE		
Parameters are declared for medium-temperature application.			
Heating Performance			
Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	3.8	kW
Tj = 2 C	Pdh	2.4	kW
Tj = 7 C	Pdh	1.6	kW
Tj = 12 C	Pdh	1.6	kW
Tj = bivalent temperature	Pdh	4.3	kW
Tj = operating limit	Pdh	4.3	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-10	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	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}	0.057	kW
Crankcase heater mode	P _{ck}	0.015	kW
Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	43/62	dB
Annual energy consumption	Q _{HE}	2700	kWh
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	127	%
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	1.99	-
Tj = 2 C	COP _d	3.14	-
Tj = 7 C	COP _d	4.32	-
Tj = 12 C	COP _d	6.62	-
Tj = bivalent temperature	COP _d	1.81	-
Tj = operating limit	COP _d	1.81	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP _{cy}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	0	kW
Type of energy input	Electrical		
For air-to-water heat pumps: Rated air flow rate, outdoors			
	-	3180	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	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η _{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	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):	Outdoor unit: MHA-V4W/D2N1 Indoor unit: SMK-80/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	2.7	kW
Tj = 2 C	Pdh	1.6	kW
Tj = 7 C	Pdh	1.1	kW
Tj = 12 C	Pdh	1.4	kW
Tj = bivalent temperature	Pdh	3.4	kW
Tj = operating limit	Pdh	2.8	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-15	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	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}	0.057	kW
Crankcase heater mode	P _{ck}	0.015	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	3905	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	103	%
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	2.21	-
Tj = 2 C	COP _d	3.20	-
Tj = 7 C	COP _d	4.23	-
Tj = 12 C	COP _d	6.11	-
Tj = bivalent temperature	COP _d	1.61	-
Tj = operating limit	COP _d	1.23	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP _{cy}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	1.66	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	3180	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	-						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency	η _{wh}	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Q _{fuel}	-	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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(*) 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):	Outdoor unit: MHA-V4W/D2N1 Indoor unit: SMK-80/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	-	kW
Tj = 2 C	Pdh	4.3	kW
Tj = 7 C	Pdh	2.8	kW
Tj = 12 C	Pdh	1.4	kW
Tj = bivalent temperature	Pdh	4.3	kW
Tj = operating limit	Pdh	4.3	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	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}	0.057	kW
Crankcase heater mode	P _{ck}	0.015	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	1520	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	150	%
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	-	-
Tj = 2 C	COP _d	2.32	-
Tj = 7 C	COP _d	3.26	-
Tj = 12 C	COP _d	5.19	-
Tj = bivalent temperature	COP _d	2.32	-
Tj = operating limit	COP _d	2.32	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	3180	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	-						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency	η _{wh}	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Q _{fuel}	-	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):	Outdoor unit: MHA-V6W/D2N1 Indoor unit: SMK-80/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	5.0	kW
Tj = 2 C	Pdh	3.5	kW
Tj = 7 C	Pdh	2.2	kW
Tj = 12 C	Pdh	1.6	kW
Tj = bivalent temperature	Pdh	5.0	kW
Tj = operating limit	Pdh	4.4	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-5	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.017	kW
Standby mode	Psb	0.017	kW
Thermostat-off mode	Pto	0.057	kW
Crankcase heater mode	Pck	0.015	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	43/66	dB
Annual energy consumption	QHE	3875	kWh

For heat pump combination heater:				
Declared load profile	-			
Daily electricity consumption	Qelec	-	kWh	
Annual electricity consumption	AEC	-	kWh	
Water heating energy efficiency	η_{wh}	-	%	
Daily fuel consumption	Qfuel	-	kWh	
Annual fuel consumption	AFC	-	GJ	

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	130	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	COPd	2.04	-
Tj = 2 C	COPd	3.19	-
Tj = 7 C	COPd	4.66	-
Tj = 12 C	COPd	7.07	-
Tj = bivalent temperature	COPd	2.16	-
Tj = operating limit	COPd	1.73	-
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	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (**)	Psup	1.9	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	3180	m³/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

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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):	Outdoor unit: MHA-V6W/D2N1 Indoor unit: SMK-80/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

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 C	Pdh	3.6	kW
Tj = 2 C	Pdh	2.0	kW
Tj = 7 C	Pdh	1.3	kW
Tj = 12 C	Pdh	1.6	kW
Tj = bivalent temperature	Pdh	4.2	kW
Tj = operating limit	Pdh	3.1	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-14	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	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}	0.057	kW
Crankcase heater mode	P _{ck}	0.015	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	4713	kWh

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

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	109	%
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	2.25	-
Tj = 2 C	COP _d	3.37	-
Tj = 7 C	COP _d	5.39	-
Tj = 12 C	COP _d	7.44	-
Tj = bivalent temperature	COP _d	1.89	-
Tj = operating limit	COP _d	1.25	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	1.3	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	3180	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

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

Technical parameters

Model(s):	Outdoor unit: MHA-V6W/D2N1 Indoor unit: SMK-80/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	-	kW
Tj = 2 C	Pdh	6.2	kW
Tj = 7 C	Pdh	4.2	kW
Tj = 12 C	Pdh	1.9	kW
Tj = bivalent temperature	Pdh	6.2	kW
Tj = operating limit	Pdh	6.2	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	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}	0.057	kW
Crankcase heater mode	P _{ck}	0.015	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	2293	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	143	%
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	-	-
Tj = 2 C	COP _d	2.53	-
Tj = 7 C	COP _d	3.44	-
Tj = 12 C	COP _d	4.24	-
Tj = bivalent temperature	COP _d	2.53	-
Tj = operating limit	COP _d	2.53	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	3180	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):	Outdoor unit: MHA-V8W/D2N1 Indoor unit: SMK-80/CD30GN1-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:	YES		
Heat pump combination heater:	NO		
Declared climate condition:	AVERAGE		
Parameters are declared for medium-temperature application.			
Heating Performance			
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 C	Pdh	6.1	kW
Tj = 2 C	Pdh	3.8	kW
Tj = 7 C	Pdh	2.5	kW
Tj = 12 C	Pdh	2.2	kW
Tj = bivalent temperature	Pdh	6.1	kW
Tj = operating limit	Pdh	6.2	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.019	kW
Standby mode	P _{sb}	0.019	kW
Thermostat-off mode	P _{to}	0.051	kW
Crankcase heater mode	P _{ck}	0.014	kW
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	125	%
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	2.00	-
Tj = 2 C	COP _d	3.06	-
Tj = 7 C	COP _d	4.22	-
Tj = 12 C	COP _d	6.52	-
Tj = bivalent temperature	COP _d	2.00	-
Tj = operating limit	COP _d	1.71	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	0.7	kW
Type of energy input	Electrical		
Item	Symbol	Value	Unit
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	43/69	dB
Annual energy consumption	Q _{HE}	4474	kWh
For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η _{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	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)		

Technical parameters

Model(s):	Outdoor unit: MHA-V8W/D2N1 Indoor unit: SMK-80/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

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 C	Pdh	4.5	kW
Tj = 2 C	Pdh	3.0	kW
Tj = 7 C	Pdh	2.4	kW
Tj = 12 C	Pdh	2.2	kW
Tj = bivalent temperature	Pdh	5.3	kW
Tj = operating limit	Pdh	4.3	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-14	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.019	kW
Standby mode	P _{sb}	0.019	kW
Thermostat-off mode	P _{to}	0.051	kW
Crankcase heater mode	P _{ck}	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	7319	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	87	%
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	2.13	-
Tj = 2 C	COP _d	3.16	-
Tj = 7 C	COP _d	4.47	-
Tj = 12 C	COP _d	6.49	-
Tj = bivalent temperature	COP _d	1.6	-
Tj = operating limit	COP _d	1.24	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	2.0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	5116	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	-						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency	η _{wh}	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Q _{fuel}	-	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):	Outdoor unit: MHA-V8W/D2N1 Indoor unit: SMK-80/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER
Parameters are declared for medium-temperature application.	

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 C	Pdh	-	kW
Tj = 2 C	Pdh	7.2	kW
Tj = 7 C	Pdh	4.7	kW
Tj = 12 C	Pdh	2.1	kW
Tj = bivalent temperature	Pdh	7.2	kW
Tj = operating limit	Pdh	7.2	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.019	kW
Standby mode	P _{sb}	0.019	kW
Thermostat-off mode	P _{to}	0.051	kW
Crankcase heater mode	P _{ck}	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	2572	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	149	%
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	-	-
Tj = 2 C	COP _d	2.24	-
Tj = 7 C	COP _d	3.22	-
Tj = 12 C	COP _d	5.00	-
Tj = bivalent temperature	COP _d	2.24	-
Tj = operating limit	COP _d	2.24	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	5116	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	-						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency	η _{wh}	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Q _{fuel}	-	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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(*) 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):	Outdoor unit: MHA-V10W/D2N1 Indoor unit: SMK-160/CD30GN1-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:	YES		
Heat pump combination heater:	NO		
Declared climate condition:	AVERAGE		
Parameters are declared for medium-temperature application.			
Heating Performance			
Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	10.9	kW
Tj = 2 C	Pdh	7.0	kW
Tj = 7 C	Pdh	4.2	kW
Tj = 12 C	Pdh	2.5	kW
Tj = bivalent temperature	Pdh	10.9	kW
Tj = operating limit	Pdh	10.3	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.019	kW
Standby mode	Psb	0.019	kW
Thermostat-off mode	Pto	0.078	kW
Crankcase heater mode	Pck	0.014	kW
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	127	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	COPd	2.02	-
Tj = 2 C	COPd	3.05	-
Tj = 7 C	COPd	4.49	-
Tj = 12 C	COPd	5.97	-
Tj = bivalent temperature	COPd	2.02	-
Tj = operating limit	COPd	1.73	-
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	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (**)	Psup	2.0	kW
Type of energy input	Electrical		
Item	Symbol	Value	Unit
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	45/67	dB
Annual energy consumption	QHE	7833	kWh
For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	ηwh	-	%
Daily fuel consumption	Qfuel	-	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):	Outdoor unit: MHA-V10W/D2N1 Indoor unit: SMK-160/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

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	6.4	kW
Tj = 2 C	Pdh	3.9	kW
Tj = 7 C	Pdh	2.2	kW
Tj = 12 C	Pdh	3.6	kW
Tj = bivalent temperature	Pdh	8.9	kW
Tj = operating limit	Pdh	7.5	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-15	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.019	kW
Standby mode	P _{sb}	0.019	kW
Thermostat-off mode	P _{to}	0.078	kW
Crankcase heater mode	P _{ck}	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	10902	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	96	%
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	2.26	-
Tj = 2 C	COP _d	3.02	-
Tj = 7 C	COP _d	3.67	-
Tj = 12 C	COP _d	7.65	-
Tj = bivalent temperature	COP _d	1.80	-
Tj = operating limit	COP _d	1.27	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	10.9	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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	-						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency	η _{wh}	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Q _{fuel}	-	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):	Outdoor unit: MHA-V10W/D2N1 Indoor unit: SMK-160/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

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	-	kW
Tj = 2 C	Pdh	10.3	kW
Tj = 7 C	Pdh	6.7	kW
Tj = 12 C	Pdh	5.2	kW
Tj = bivalent temperature	Pdh	10.3	kW
Tj = operating limit	Pdh	10.3	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.019	kW
Standby mode	P _{sb}	0.019	kW
Thermostat-off mode	P _{to}	0.078	kW
Crankcase heater mode	P _{ck}	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	3228	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	167	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	COPd	-	-
Tj = 2 C	COPd	2.34	-
Tj = 7 C	COPd	3.53	-
Tj = 12 C	COPd	6.25	-
Tj = bivalent temperature	COPd	2.34	-
Tj = operating limit	COPd	2.34	-
For air-to-water heat pumps: Tj = -15 C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP _{cy}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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):	Outdoor unit: MHA-V12W/D2N1 Indoor unit: SMK-160/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	10.9	kW
Tj = 2 C	Pdh	7.0	kW
Tj = 7 C	Pdh	4.2	kW
Tj = 12 C	Pdh	2.5	kW
Tj = bivalent temperature	Pdh	10.9	kW
Tj = operating limit	Pdh	10.3	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.019	kW
Standby mode	P _{sb}	0.019	kW
Thermostat-off mode	P _{to}	0.078	kW
Crankcase heater mode	P _{ck}	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	45/68	dB
Annual energy consumption	Q _{HE}	7833	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	127	%
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	2.02	-
Tj = 2 C	COP _d	3.05	-
Tj = 7 C	COP _d	4.49	-
Tj = 12 C	COP _d	5.97	-
Tj = bivalent temperature	COP _d	2.02	-
Tj = operating limit	COP _d	1.73	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	2.0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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	-						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency	η _{wh}	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Q _{fuel}	-	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):	Outdoor unit: MHA-V12W/D2N1 Indoor unit: SMK-160/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	7.8	kW
Tj = 2 C	Pdh	4.8	kW
Tj = 7 C	Pdh	2.9	kW
Tj = 12 C	Pdh	3.9	kW
Tj = bivalent temperature	Pdh	10.0	kW
Tj = operating limit	Pdh	7.4	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-14	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.019	kW
Standby mode	Psb	0.019	kW
Thermostat-off mode	Pto	0.078	kW
Crankcase heater mode	Pck	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	10972	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	111	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	COPd	2.34	-
Tj = 2 C	COPd	3.52	-
Tj = 7 C	COPd	4.58	-
Tj = 12 C	COPd	8.02	-
Tj = bivalent temperature	COPd	1.87	-
Tj = operating limit	COPd	1.26	-
For air-to-water heat pumps: Tj = -15 C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (**)	Psup	5.3	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	ηwh	-	%
Daily fuel consumption	Qfuel	-	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):	Outdoor unit: MHA-V12W/D2N1 Indoor unit: SMK-160/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

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	-	kW
Tj = 2 C	Pdh	11.4	kW
Tj = 7 C	Pdh	7.4	kW
Tj = 12 C	Pdh	5.3	kW
Tj = bivalent temperature	Pdh	11.4	kW
Tj = operating limit	Pdh	11.4	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.019	kW
Standby mode	Psb	0.019	kW
Thermostat-off mode	Pto	0.078	kW
Crankcase heater mode	Pck	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	3491	kWh

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

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	172	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	COPd	-	-
Tj = 2 C	COPd	2.50	-
Tj = 7 C	COPd	3.59	-
Tj = 12 C	COPd	6.36	-
Tj = bivalent temperature	COPd	2.50	-
Tj = operating limit	COPd	2.50	-
For air-to-water heat pumps: Tj = -15 C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP _{cyc}	-	-
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

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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):	Outdoor unit: MHA-V14W/D2N1 Indoor unit: SMK-160/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	12.2	kW
Tj = 2 C	Pdh	7.7	kW
Tj = 7 C	Pdh	5.0	kW
Tj = 12 C	Pdh	2.7	kW
Tj = bivalent temperature	Pdh	12.2	kW
Tj = operating limit	Pdh	10.3	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.019	kW
Standby mode	P _{sb}	0.019	kW
Thermostat-off mode	P _{to}	0.078	kW
Crankcase heater mode	P _{ck}	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	45/71	dB
Annual energy consumption	Q _{HE}	8688	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	128	%
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	2.00	-
Tj = 2 C	COP _d	3.10	-
Tj = 7 C	COP _d	4.55	-
Tj = 12 C	COP _d	6.24	-
Tj = bivalent temperature	COP _d	2.00	-
Tj = operating limit	COP _d	1.66	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	3.5	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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	-						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency	η _{wh}	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Q _{fuel}	-	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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(*) 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):	Outdoor unit: MHA-V14W/D2N1 Indoor unit: SMK-160/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	9.0	kW
Tj = 2 C	Pdh	5.2	kW
Tj = 7 C	Pdh	3.3	kW
Tj = 12 C	Pdh	3.9	kW
Tj = bivalent temperature	Pdh	10.9	kW
Tj = operating limit	Pdh	7.4	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-13	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.019	kW
Standby mode	P _{sb}	0.019	kW
Thermostat-off mode	P _{to}	0.078	kW
Crankcase heater mode	P _{ck}	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	12378	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	111	%
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	2.39	-
Tj = 2 C	COP _d	3.50	-
Tj = 7 C	COP _d	4.85	-
Tj = 12 C	COP _d	7.15	-
Tj = bivalent temperature	COP _d	1.96	-
Tj = operating limit	COP _d	1.25	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP _{cy}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	6.6	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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	-						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency	η _{wh}	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Q _{fuel}	-	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):	Outdoor unit: MHA-V14W/D2N1 Indoor unit: SMK-160/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	-	kW
Tj = 2 C	Pdh	14.0	kW
Tj = 7 C	Pdh	9.3	kW
Tj = 12 C	Pdh	4.2	kW
Tj = bivalent temperature	Pdh	14.0	kW
Tj = operating limit	Pdh	14.0	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.019	kW
Standby mode	Psb	0.019	kW
Thermostat-off mode	Pto	0.078	kW
Crankcase heater mode	Pck	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	4432	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	166	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	COPd	-	-
Tj = 2 C	COPd	2.31	-
Tj = 7 C	COPd	3.45	-
Tj = 12 C	COPd	5.76	-
Tj = bivalent temperature	COPd	2.31	-
Tj = operating limit	COPd	2.31	-
For air-to-water heat pumps: Tj = -15 C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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	-						
Daily electricity consumption	Qelec	-	kWh	Water heating energy efficiency	η_{wh}	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Qfuel	-	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):	Outdoor unit: MHA-V16W/D2N1 Indoor unit: SMK-160/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	11.7	kW
Tj = 2 C	Pdh	8.1	kW
Tj = 7 C	Pdh	5.4	kW
Tj = 12 C	Pdh	2.8	kW
Tj = bivalent temperature	Pdh	12.1	kW
Tj = operating limit	Pdh	10.2	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-5	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.019	kW
Standby mode	Psb	0.019	kW
Thermostat-off mode	Pto	0.078	kW
Crankcase heater mode	Pck	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	45/72	dB
Annual energy consumption	QHE	9491	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	127	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	COPd	1.99	-
Tj = 2 C	COPd	3.09	-
Tj = 7 C	COPd	4.73	-
Tj = 12 C	COPd	6.81	-
Tj = bivalent temperature	COPd	2.15	-
Tj = operating limit	COPd	1.70	-
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	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (**)	Psup	4.3	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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	-						
Daily electricity consumption	Qelec	-	kWh	Water heating energy efficiency	ηwh	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Qfuel	-	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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(*) 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):	Outdoor unit: MHA-V16W/D2N1 Indoor unit: SMK-160/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	10.4	kW
Tj = 2 C	Pdh	6.2	kW
Tj = 7 C	Pdh	4.0	kW
Tj = 12 C	Pdh	4.0	kW
Tj = bivalent temperature	Pdh	11.6	kW
Tj = operating limit	Pdh	7.3	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-12	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.019	kW
Standby mode	P _{sb}	0.019	kW
Thermostat-off mode	P _{to}	0.078	kW
Crankcase heater mode	P _{ck}	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	13244	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	114	%
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	2.44	-
Tj = 2 C	COP _d	3.55	-
Tj = 7 C	COP _d	5.40	-
Tj = 12 C	COP _d	8.20	-
Tj = bivalent temperature	COP _d	1.94	-
Tj = operating limit	COP _d	1.24	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	8.4	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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):	Outdoor unit: MHA-V16W/D2N1 Indoor unit: SMK-160/CD30GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	-	kW
Tj = 2 C	Pdh	15.3	kW
Tj = 7 C	Pdh	9.9	kW
Tj = 12 C	Pdh	4.4	kW
Tj = bivalent temperature	Pdh	15.3	kW
Tj = operating limit	Pdh	15.3	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.019	kW
Standby mode	P _{sb}	0.019	kW
Thermostat-off mode	P _{to}	0.078	kW
Crankcase heater mode	P _{ck}	0.014	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	4483	kWh

For heat pump combination heater:							
Declared load profile	-						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency	η _{wh}	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
				Annual fuel consumption	AFC	-	GJ

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	179	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	COPd	-	-
Tj = 2 C	COPd	2.34	-
Tj = 7 C	COPd	3.81	-
Tj = 12 C	COPd	6.16	-
Tj = bivalent temperature	COPd	2.34	-
Tj = operating limit	COPd	2.34	-
For air-to-water heat pumps: Tj = -15 C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

Contact details	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)
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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):	Outdoor unit: MHA-V12W/D2RN1 Indoor unit: SMK-160/CSD45GN1-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:	YES		
Heat pump combination heater:	NO		
Declared climate condition:	AVERAGE		
Parameters are declared for medium-temperature application.			
Heating parameters			
Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	11.1	kW
Tj = 2 C	Pdh	6.8	kW
Tj = 7 C	Pdh	4.2	kW
Tj = 12 C	Pdh	3.5	kW
Tj = bivalent temperature	Pdh	11.5	kW
Tj = operating limit	Pdh	11.4	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-9	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.015	kW
Standby mode	Psb	0.015	kW
Thermostat-off mode	Pto	0.063	kW
Crankcase heater mode	Pck	0.027	kW
Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	45/70	dB
Annual energy consumption	QHE	7537	kWh
For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating parameters			
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Qfuel	-	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):	Outdoor unit: MHA-V12W/D2RN1 Indoor unit: SMK-160/CSD45GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	7.5	kW
Tj = 2 C	Pdh	4.5	kW
Tj = 7 C	Pdh	2.8	kW
Tj = 12 C	Pdh	3.4	kW
Tj = bivalent temperature	Pdh	9.8	kW
Tj = operating limit	Pdh	7.6	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-15	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.015	kW
Standby mode	P _{sb}	0.015	kW
Thermostat-off mode	P _{to}	0.063	kW
Crankcase heater mode	P _{ck}	0.027	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	10454	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	110	%
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	2.26	-
Tj = 2 C	COP _d	3.41	-
Tj = 7 C	COP _d	4.67	-
Tj = 12 C	COP _d	7.68	-
Tj = bivalent temperature	COP _d	1.70	-
Tj = operating limit	COP _d	1.34	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	3.65	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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):	Outdoor unit: MHA-V12W/D2RN1 Indoor unit: SMK-160/CSD45GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	-	kW
Tj = 2 C	Pdh	11.6	kW
Tj = 7 C	Pdh	8.0	kW
Tj = 12 C	Pdh	3.8	kW
Tj = bivalent temperature	Pdh	11.6	kW
Tj = operating limit	Pdh	11.6	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.015	kW
Standby mode	Psb	0.015	kW
Thermostat-off mode	Pto	0.063	kW
Crankcase heater mode	Pck	0.027	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	3700	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	164	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	COPd	-	-
Tj = 2 C	COPd	2.34	-
Tj = 7 C	COPd	3.43	-
Tj = 12 C	COPd	5.82	-
Tj = bivalent temperature	COPd	2.34	-
Tj = operating limit	COPd	2.34	-
For air-to-water heat pumps: Tj = -15 C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	ηwh	-	%
Daily fuel consumption	Qfuel	-	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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(*) 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):	Outdoor unit: MHA-V14W/D2RN1 Indoor unit: SMK-160/CSD45GN1-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:	YES		
Heat pump combination heater:	NO		
Declared climate condition:	AVERAGE		
Parameters are declared for medium-temperature application.			
Heating Performance			
Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	12.4	kW
Tj = 2 C	Pdh	7.5	kW
Tj = 7 C	Pdh	5.0	kW
Tj = 12 C	Pdh	3.4	kW
Tj = bivalent temperature	Pdh	12.4	kW
Tj = operating limit	Pdh	11.5	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.015	kW
Standby mode	Psb	0.015	kW
Thermostat-off mode	Pto	0.063	kW
Crankcase heater mode	Pck	0.027	kW
Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	130	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	COPd	2.02	-
Tj = 2 C	COPd	3.09	-
Tj = 7 C	COPd	4.71	-
Tj = 12 C	COPd	6.72	-
Tj = bivalent temperature	COPd	2.02	-
Tj = operating limit	COPd	1.74	-
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	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (**)	Psup	2.5	kW
Type of energy input	Electrical		
Item	Symbol	Value	Unit
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	45/72	dB
Annual energy consumption	QHE	8689	kWh
For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	ηwh	-	%
Daily fuel consumption	Qfuel	-	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):	Outdoor unit: MHA-V14W/D2RN1 Indoor unit: SMK-160/CSD45GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	COLDER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	8.6	kW
Tj = 2 C	Pdh	5.3	kW
Tj = 7 C	Pdh	3.3	kW
Tj = 12 C	Pdh	3.4	kW
Tj = bivalent temperature	Pdh	10.7	kW
Tj = operating limit	Pdh	7.7	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-12	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.015	kW
Standby mode	P _{sb}	0.015	kW
Thermostat-off mode	P _{to}	0.063	kW
Crankcase heater mode	P _{ck}	0.027	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	12892	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	108	%
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	2.28	-
Tj = 2 C	COP _d	3.52	-
Tj = 7 C	COP _d	4.98	-
Tj = 12 C	COP _d	7.83	-
Tj = bivalent temperature	COP _d	1.82	-
Tj = operating limit	COP _d	1.33	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C
Cycling interval efficiency	COP _{cy}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	6.1	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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	-						
Daily electricity consumption	Q _{elec}	-	kWh	Water heating energy efficiency	η _{wh}	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Q _{fuel}	-	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):	Outdoor unit: MHA-V14W/D2RN1 Indoor unit: SMK-160/CSD45GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	-	kW
Tj = 2 C	Pdh	13.5	kW
Tj = 7 C	Pdh	9.2	kW
Tj = 12 C	Pdh	4.2	kW
Tj = bivalent temperature	Pdh	13.5	kW
Tj = operating limit	Pdh	13.5	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	P _{cyh}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P _{off}	0.015	kW
Standby mode	P _{sb}	0.015	kW
Thermostat-off mode	P _{to}	0.063	kW
Crankcase heater mode	P _{ck}	0.027	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	4249	kWh

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η _s	167	%
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	-	-
Tj = 2 C	COP _d	2.29	-
Tj = 7 C	COP _d	3.41	-
Tj = 12 C	COP _d	5.97	-
Tj = bivalent temperature	COP _d	2.29	-
Tj = operating limit	COP _d	2.29	-
For air-to-water heat pumps: Tj = -15 C	COP _d	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP _{cyh}	-	-
Heating water operating limit temperature	W _{TOL}	60	°C
Supplementary heater			
Rated heat output (**)	P _{sup}	0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

Water heating energy efficiency	η _{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	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):	Outdoor unit: MHA-V16W/D2RN1 Indoor unit: SMK-160/CSD45GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	13.1	kW
Tj = 2 C	Pdh	8.4	kW
Tj = 7 C	Pdh	5.1	kW
Tj = 12 C	Pdh	3.6	kW
Tj = bivalent temperature	Pdh	12.7	kW
Tj = operating limit	Pdh	11.3	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	-6	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.015	kW
Standby mode	Psb	0.015	kW
Thermostat-off mode	Pto	0.063	kW
Crankcase heater mode	Pck	0.027	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	45/72	dB
Annual energy consumption	QHE	9312	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	130	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	COPd	2.04	-
Tj = 2 C	COPd	3.11	-
Tj = 7 C	COPd	4.74	-
Tj = 12 C	COPd	7.04	-
Tj = bivalent temperature	COPd	2.07	-
Tj = operating limit	COPd	1.71	-
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	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (**)	Psup	3.7	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	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	-						
Daily electricity consumption	Qelec	-	kWh	Water heating energy efficiency	ηwh	-	%
Annual electricity consumption	AEC	-	kWh	Daily fuel consumption	Qfuel	-	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):	Outdoor unit: MHA-V16W/D2RN1 Indoor unit: SMK-160/CSD45GN1-B																																																																																										
Air-to-water heat pump:	YES																																																																																										
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Item</th> <th style="width: 15%;">Symbol</th> <th style="width: 15%;">Value</th> <th style="width: 10%;">Unit</th> </tr> </thead> <tbody> <tr> <td>Rated heat output (*)</td> <td>Prated</td> <td>15</td> <td>kW</td> </tr> <tr> <td colspan="4">Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj</td> </tr> <tr> <td>Tj = -7 C</td> <td>Pdh</td> <td>9.1</td> <td>kW</td> </tr> <tr> <td>Tj = 2 C</td> <td>Pdh</td> <td>6.2</td> <td>kW</td> </tr> <tr> <td>Tj = 7 C</td> <td>Pdh</td> <td>3.8</td> <td>kW</td> </tr> <tr> <td>Tj = 12 C</td> <td>Pdh</td> <td>3.4</td> <td>kW</td> </tr> <tr> <td>Tj = bivalent temperature</td> <td>Pdh</td> <td>11.3</td> <td>kW</td> </tr> <tr> <td>Tj = operating limit</td> <td>Pdh</td> <td>7.6</td> <td>kW</td> </tr> <tr> <td>For air-to-water heat pumps: Tj = -15 C</td> <td>Pdh</td> <td>-</td> <td>kW</td> </tr> <tr> <td>Bivalent temperature</td> <td>Tbiv</td> <td>-11</td> <td>°C</td> </tr> <tr> <td>Cycling interval capacity for heating</td> <td>P_{cyh}</td> <td>-</td> <td>kW</td> </tr> <tr> <td>Degradation co-efficient (**)</td> <td>Cdh</td> <td>0.9</td> <td>--</td> </tr> <tr> <td colspan="4">Power consumption in modes other than active mode</td> </tr> <tr> <td>Off mode</td> <td>P_{off}</td> <td>0.015</td> <td>kW</td> </tr> <tr> <td>Standby mode</td> <td>P_{sb}</td> <td>0.015</td> <td>kW</td> </tr> <tr> <td>Thermostat-off mode</td> <td>P_{to}</td> <td>0.063</td> <td>kW</td> </tr> <tr> <td>Crankcase heater mode</td> <td>P_{ck}</td> <td>0.027</td> <td>kW</td> </tr> <tr> <td colspan="4">Other items</td> </tr> <tr> <td>Capacity control</td> <td colspan="3">variable</td> </tr> <tr> <td>Sound power level, indoors/outdoors</td> <td>L_{WA}</td> <td>-</td> <td>dB</td> </tr> <tr> <td>Annual energy consumption</td> <td>Q_{HE}</td> <td>13924</td> <td>kWh</td> </tr> </tbody> </table>				Item	Symbol	Value	Unit	Rated heat output (*)	Prated	15	kW	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Tj = -7 C	Pdh	9.1	kW	Tj = 2 C	Pdh	6.2	kW	Tj = 7 C	Pdh	3.8	kW	Tj = 12 C	Pdh	3.4	kW	Tj = bivalent temperature	Pdh	11.3	kW	Tj = operating limit	Pdh	7.6	kW	For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW	Bivalent temperature	Tbiv	-11	°C	Cycling interval capacity for heating	P _{cyh}	-	kW	Degradation co-efficient (**)	Cdh	0.9	--	Power consumption in modes other than active mode				Off mode	P _{off}	0.015	kW	Standby mode	P _{sb}	0.015	kW	Thermostat-off mode	P _{to}	0.063	kW	Crankcase heater mode	P _{ck}	0.027	kW	Other items				Capacity control	variable			Sound power level, indoors/outdoors	L _{WA}	-	dB	Annual energy consumption	Q _{HE}	13924	kWh
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Item</th> <th style="width: 15%;">Symbol</th> <th style="width: 15%;">Value</th> <th style="width: 10%;">Unit</th> </tr> </thead> <tbody> <tr> <td>Seasonal space heating energy efficiency</td> <td>η_s</td> <td>109</td> <td>%</td> </tr> <tr> <td colspan="4">Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj</td> </tr> <tr> <td>Tj = -7 C</td> <td>COP_d</td> <td>2.22</td> <td>-</td> </tr> <tr> <td>Tj = 2 C</td> <td>COP_d</td> <td>3.67</td> <td>-</td> </tr> <tr> <td>Tj = 7 C</td> <td>COP_d</td> <td>5.09</td> <td>-</td> </tr> <tr> <td>Tj = 12 C</td> <td>COP_d</td> <td>7.47</td> <td>-</td> </tr> <tr> <td>Tj = bivalent temperature</td> <td>COP_d</td> <td>1.91</td> <td>-</td> </tr> <tr> <td>Tj = operating limit</td> <td>COP_d</td> <td>1.32</td> <td>-</td> </tr> <tr> <td>For air-to-water heat pumps: Tj = -15 C</td> <td>COP_d</td> <td>-</td> <td>-</td> </tr> <tr> <td>For air-to-water heat pumps: Operation limit temperature</td> <td>TOL</td> <td>-20</td> <td>°C</td> </tr> <tr> <td>Cycling interval efficiency</td> <td>COP_{eyc}</td> <td>-</td> <td>-</td> </tr> <tr> <td>Heating water operating limit temperature</td> <td>W_{TOL}</td> <td>60</td> <td>°C</td> </tr> <tr> <td colspan="4">Supplementary heater</td> </tr> <tr> <td>Rated heat output (**)</td> <td>P_{sup}</td> <td>7.4</td> <td>kW</td> </tr> <tr> <td>Type of energy input</td> <td colspan="3">Electrical</td> </tr> <tr> <td colspan="4">For air-to-water heat pumps: Rated air flow rate, outdoors</td> </tr> <tr> <td></td> <td>-</td> <td>6500</td> <td>m³/h</td> </tr> <tr> <td colspan="4">For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger</td> </tr> <tr> <td></td> <td>-</td> <td>-</td> <td>m³/h</td> </tr> </tbody> </table>				Item	Symbol	Value	Unit	Seasonal space heating energy efficiency	η _s	109	%	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	2.22	-	Tj = 2 C	COP _d	3.67	-	Tj = 7 C	COP _d	5.09	-	Tj = 12 C	COP _d	7.47	-	Tj = bivalent temperature	COP _d	1.91	-	Tj = operating limit	COP _d	1.32	-	For air-to-water heat pumps: Tj = -15 C	COP _d	-	-	For air-to-water heat pumps: Operation limit temperature	TOL	-20	°C	Cycling interval efficiency	COP _{eyc}	-	-	Heating water operating limit temperature	W _{TOL}	60	°C	Supplementary heater				Rated heat output (**)	P _{sup}	7.4	kW	Type of energy input	Electrical			For air-to-water heat pumps: Rated air flow rate, outdoors					-	6500	m ³ /h	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger					-	-	m ³ /h								
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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.																																																																																											

Technical parameters

Model(s):	Outdoor unit: MHA-V16W/D2RN1 Indoor unit: SMK-160/CSD45GN1-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:	YES
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	Pdh	-	kW
Tj = 2 C	Pdh	15.0	kW
Tj = 7 C	Pdh	9.8	kW
Tj = 12 C	Pdh	4.5	kW
Tj = bivalent temperature	Pdh	15.0	kW
Tj = operating limit	Pdh	15.0	kW
For air-to-water heat pumps: Tj = -15 C	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	Pcyc	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	Poff	0.015	kW
Standby mode	Psb	0.015	kW
Thermostat-off mode	Pto	0.063	kW
Crankcase heater mode	Pck	0.027	kW

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	4723	kWh

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	167	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 C	COPd	-	-
Tj = 2 C	COPd	2.21	-
Tj = 7 C	COPd	3.35	-
Tj = 12 C	COPd	6.06	-
Tj = bivalent temperature	COPd	2.21	-
Tj = operating limit	COPd	2.21	-
For air-to-water heat pumps: Tj = -15 C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C
Supplementary heater			
Rated heat output (**)	Psup	0	kW
Type of energy input	Electrical		

For air-to-water heat pumps: Rated air flow rate, outdoors	-	6500	m³/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

Water heating energy efficiency	ηwh	-	%
Daily fuel consumption	Qfuel	-	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.

Information requirements for comfort chillers

Model(s):	MHA-V4W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	3.9	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	172	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	3.9	kW	$T_j=+35^\circ\text{C}$	EER_d	3.01	-
$T_j=+30^\circ\text{C}$	P_{dc}	3.0	kW	$T_j=+30^\circ\text{C}$	EER_d	4.37	-
$T_j=+25^\circ\text{C}$	P_{dc}	1.9	kW	$T_j=+25^\circ\text{C}$	EER_d	5.69	-
$T_j=+20^\circ\text{C}$	P_{dc}	0.9	kW	$T_j=+20^\circ\text{C}$	EER_d	5.33	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.057	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	3180	m^3/h
Sound power level, indoors / outdoors	LWA	43/62	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V4W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	3.9	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	203	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	3.9	kW	$T_j=+35^\circ\text{C}$	EER_d	4.82	-
$T_j=+30^\circ\text{C}$	P_{dc}	3.1	kW	$T_j=+30^\circ\text{C}$	EER_d	7.26	-
$T_j=+25^\circ\text{C}$	P_{dc}	1.8	kW	$T_j=+25^\circ\text{C}$	EER_d	5.39	-
$T_j=+20^\circ\text{C}$	P_{dc}	1.0	kW	$T_j=+20^\circ\text{C}$	EER_d	6.29	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.057	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	3180	m^3/h
Sound power level, indoors / outdoors	LWA	43/62	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V6W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	5.8	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	197	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	5.8	kW	$T_j=+35^\circ\text{C}$	EER_d	2.70	-
$T_j=+30^\circ\text{C}$	P_{dc}	4.4	kW	$T_j=+30^\circ\text{C}$	EER_d	4.22	-
$T_j=+25^\circ\text{C}$	P_{dc}	2.7	kW	$T_j=+25^\circ\text{C}$	EER_d	6.13	-
$T_j=+20^\circ\text{C}$	P_{dc}	1.3	kW	$T_j=+20^\circ\text{C}$	EER_d	8.33	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.057	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	3180	m^3/h
Sound power level, indoors / outdoors	LWA	43/66	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V6W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	5.9	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	266	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	5.9	kW	$T_j=+35^\circ\text{C}$	EER_d	4.39	-
$T_j=+30^\circ\text{C}$	P_{dc}	4.4	kW	$T_j=+30^\circ\text{C}$	EER_d	6.48	-
$T_j=+25^\circ\text{C}$	P_{dc}	2.8	kW	$T_j=+25^\circ\text{C}$	EER_d	10.48	-
$T_j=+20^\circ\text{C}$	P_{dc}	1.3	kW	$T_j=+20^\circ\text{C}$	EER_d	6.56	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.057	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	3180	m^3/h
Sound power level, indoors / outdoors	LWA	43/66	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V8W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	6.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	195	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	6.3	kW	$T_j=+35^\circ\text{C}$	EER_d	2.61	-
$T_j=+30^\circ\text{C}$	P_{dc}	4.7	kW	$T_j=+30^\circ\text{C}$	EER_d	4.26	-
$T_j=+25^\circ\text{C}$	P_{dc}	2.8	kW	$T_j=+25^\circ\text{C}$	EER_d	5.81	-
$T_j=+20^\circ\text{C}$	P_{dc}	1.4	kW	$T_j=+20^\circ\text{C}$	EER_d	8.17	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.018	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.046	kW	Standby mode	P_{SB}	0.018	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	5116	m ³ /h
Sound power level, indoors / outdoors	LWA	43/69	dB				
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	2088	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V8W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	7.8	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	288	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	7.8	kW	$T_j=+35^\circ\text{C}$	EER_d	4.27	-
$T_j=+30^\circ\text{C}$	P_{dc}	5.8	kW	$T_j=+30^\circ\text{C}$	EER_d	6.51	-
$T_j=+25^\circ\text{C}$	P_{dc}	3.8	kW	$T_j=+25^\circ\text{C}$	EER_d	9.33	-
$T_j=+20^\circ\text{C}$	P_{dc}	1.8	kW	$T_j=+20^\circ\text{C}$	EER_d	9.93	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.018	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.046	kW	Standby mode	P_{SB}	0.018	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	5116	m^3/h
Sound power level, indoors / outdoors	L_{WA}	43/69	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V10W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	9.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	194	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	9.1	kW	$T_j=+35^\circ\text{C}$	EER_d	2.74	-
$T_j=+30^\circ\text{C}$	P_{dc}	6.9	kW	$T_j=+30^\circ\text{C}$	EER_d	4.44	-
$T_j=+25^\circ\text{C}$	P_{dc}	4.6	kW	$T_j=+25^\circ\text{C}$	EER_d	5.77	-
$T_j=+20^\circ\text{C}$	P_{dc}	2.5	kW	$T_j=+20^\circ\text{C}$	EER_d	7.48	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.019	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.074	kW	Standby mode	P_{SB}	0.019	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m^3/h
Sound power level, indoors / outdoors	LWA	45/67	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V10W/D2N1
Outdoor side heat exchanger of chiller:	Air to water
Indoor side heat exchanger chiller:	Water
Type:	Compressor driven vapour compression
Driver of compressor:	Electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	9.7	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	286	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	9.7	kW	$T_j=+35^\circ\text{C}$	EER_d	4.59	-
$T_j=+30^\circ\text{C}$	P_{dc}	7.2	kW	$T_j=+30^\circ\text{C}$	EER_d	7.24	-
$T_j=+25^\circ\text{C}$	P_{dc}	4.9	kW	$T_j=+25^\circ\text{C}$	EER_d	7.90	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.4	kW	$T_j=+20^\circ\text{C}$	EER_d	11.81	-

Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
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Power consumption in modes other than "active mode"

Off mode	P_{OFF}	0.019	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.074	kW	Standby mode	P_{SB}	0.019	kW

Other items

Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m^3/h
Sound power level, indoors / outdoors	LWA	45/67	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				

Standard rating conditions used	Medium temperature application
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China

(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.
(**) From 26 September 2018.

Information requirements for comfort chillers

Model(s):	MHA-V12W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	10.7	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	193	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	10.7	kW	$T_j=+35^\circ\text{C}$	EER_d	2.55	-
$T_j=+30^\circ\text{C}$	P_{dc}	8.2	kW	$T_j=+30^\circ\text{C}$	EER_d	4.28	-
$T_j=+25^\circ\text{C}$	P_{dc}	5.2	kW	$T_j=+25^\circ\text{C}$	EER_d	5.65	-
$T_j=+20^\circ\text{C}$	P_{dc}	2.8	kW	$T_j=+20^\circ\text{C}$	EER_d	7.67	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.019	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.074	kW	Standby mode	P_{SB}	0.019	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m ³ /h
Sound power level, indoors / outdoors	LWA	45/68	dB				
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	2088	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V12W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	11.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	276	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	11.4	kW	$T_j=+35^{\circ}\text{C}$	EER_d	4.23	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	8.9	kW	$T_j=+30^{\circ}\text{C}$	EER_d	6.74	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	5.4	kW	$T_j=+25^{\circ}\text{C}$	EER_d	7.53	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	3.3	kW	$T_j=+20^{\circ}\text{C}$	EER_d	11.08	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.019	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.074	kW	Standby mode	P_{SB}	0.019	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m^3/h
Sound power level, indoors / outdoors	L_{WA}	45/68	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V14W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	189	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	12.1	kW	$T_j=+35^\circ\text{C}$	EER_d	2.50	-
$T_j=+30^\circ\text{C}$	P_{dc}	9.3	kW	$T_j=+30^\circ\text{C}$	EER_d	4.01	-
$T_j=+25^\circ\text{C}$	P_{dc}	5.8	kW	$T_j=+25^\circ\text{C}$	EER_d	5.58	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.4	kW	$T_j=+20^\circ\text{C}$	EER_d	7.74	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.019	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.074	kW	Standby mode	P_{SB}	0.019	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m^3/h
Sound power level, indoors / outdoors	LWA	45/71	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V14W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.6	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	281	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	12.6	kW	$T_j=+35^\circ\text{C}$	EER_d	3.82	-
$T_j=+30^\circ\text{C}$	P_{dc}	9.8	kW	$T_j=+30^\circ\text{C}$	EER_d	6.34	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.1	kW	$T_j=+25^\circ\text{C}$	EER_d	8.67	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.3	kW	$T_j=+20^\circ\text{C}$	EER_d	10.42	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.019	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.074	kW	Standby mode	P_{SB}	0.019	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m ³ /h
Sound power level, indoors / outdoors	LWA	45/71	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	2088	kg CO ₂ eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V16W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	191	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	12.5	kW	$T_j=+35^\circ\text{C}$	EER_d	2.31	-
$T_j=+30^\circ\text{C}$	P_{dc}	9.7	kW	$T_j=+30^\circ\text{C}$	EER_d	3.97	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.1	kW	$T_j=+25^\circ\text{C}$	EER_d	5.78	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.5	kW	$T_j=+20^\circ\text{C}$	EER_d	8.11	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.019	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.074	kW	Standby mode	P_{SB}	0.019	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	45/72	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	2088	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V16W/D2N1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.6	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	276	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	13.6	kW	$T_j=+35^\circ\text{C}$	EER_d	3.68	-
$T_j=+30^\circ\text{C}$	P_{dc}	10.5	kW	$T_j=+30^\circ\text{C}$	EER_d	6.10	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.4	kW	$T_j=+25^\circ\text{C}$	EER_d	8.52	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.3	kW	$T_j=+20^\circ\text{C}$	EER_d	10.07	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.019	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.074	kW	Standby mode	P_{SB}	0.019	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m^3/h
Sound power level, indoors / outdoors	LWA	45/72	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V12W/D2RN1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	11.9	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	195	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	11.9	kW	$T_j=+35^\circ\text{C}$	EER_d	2.56	-
$T_j=+30^\circ\text{C}$	P_{dc}	9.4	kW	$T_j=+30^\circ\text{C}$	EER_d	3.93	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.2	kW	$T_j=+25^\circ\text{C}$	EER_d	6.08	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.2	kW	$T_j=+20^\circ\text{C}$	EER_d	7.40	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.063	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m^3/h
Sound power level, indoors / outdoors	L_{WA}	45/70	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V12W/D2RN1
Outdoor side heat exchanger of chiller:	Air to water
Indoor side heat exchanger chiller:	Water
Type:	Compressor driven vapour compression
Driver of compressor:	Electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	11.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	326	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	11.4	kW	$T_j=+35^\circ\text{C}$	EER_d	4.36	-
$T_j=+30^\circ\text{C}$	P_{dc}	8.4	kW	$T_j=+30^\circ\text{C}$	EER_d	7.32	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.1	kW	$T_j=+25^\circ\text{C}$	EER_d	10.00	-
$T_j=+20^\circ\text{C}$	P_{dc}	4.6	kW	$T_j=+20^\circ\text{C}$	EER_d	13.54	-

Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
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Power consumption in modes other than "active mode"

Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.063	kW	Standby mode	P_{SB}	0.015	kW

Other items

Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m^3/h
Sound power level, indoors / outdoors	LWA	45/70	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				

Standard rating conditions used	Medium temperature application
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China

(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.
(**) From 26 September 2018.

Information requirements for comfort chillers

Model(s):	MHA-V14W/D2RN1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.8	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	187	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	12.8	kW	$T_j=+35^\circ\text{C}$	EER_d	2.38	-
$T_j=+30^\circ\text{C}$	P_{dc}	9.8	kW	$T_j=+30^\circ\text{C}$	EER_d	3.76	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.6	kW	$T_j=+25^\circ\text{C}$	EER_d	5.91	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.2	kW	$T_j=+20^\circ\text{C}$	EER_d	6.90	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.063	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m^3/h
Sound power level, indoors / outdoors	L_{WA}	45/72	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V14W/D2RN1
Outdoor side heat exchanger of chiller:	Air to water
Indoor side heat exchanger chiller:	Water
Type:	Compressor driven vapour compression
Driver of compressor:	Electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	306	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	13.4	kW	$T_j=+35^\circ\text{C}$	EER_d	4.00	-
$T_j=+30^\circ\text{C}$	P_{dc}	10.5	kW	$T_j=+30^\circ\text{C}$	EER_d	6.45	-
$T_j=+25^\circ\text{C}$	P_{dc}	7.1	kW	$T_j=+25^\circ\text{C}$	EER_d	9.40	-
$T_j=+20^\circ\text{C}$	P_{dc}	4.6	kW	$T_j=+20^\circ\text{C}$	EER_d	12.81	-

Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
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Power consumption in modes other than "active mode"

Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.063	kW	Standby mode	P_{SB}	0.015	kW

Other items

Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m^3/h
Sound power level, indoors / outdoors	LWA	45/72	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				

Standard rating conditions used	Medium temperature application
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China

(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9.
(**) From 26 September 2018.

Information requirements for comfort chillers

Model(s):	MHA-V16W/D2RN1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	185	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	13.0	kW	$T_j=+35^\circ\text{C}$	EER_d	2.31	-
$T_j=+30^\circ\text{C}$	P_{dc}	9.8	kW	$T_j=+30^\circ\text{C}$	EER_d	3.75	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.7	kW	$T_j=+25^\circ\text{C}$	EER_d	5.81	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.2	kW	$T_j=+20^\circ\text{C}$	EER_d	6.90	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.063	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m ³ /h
Sound power level, indoors / outdoors	LWA	45/72	dB				
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	2088	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MHA-V16W/D2RN1						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	306	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	14.3	kW	$T_j=+35^{\circ}\text{C}$	EER_d	3.71	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	10.6	kW	$T_j=+30^{\circ}\text{C}$	EER_d	6.43	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	7.2	kW	$T_j=+25^{\circ}\text{C}$	EER_d	9.37	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	4.5	kW	$T_j=+20^{\circ}\text{C}$	EER_d	12.70	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.063	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m^3/h
Sound power level, indoors / outdoors	L_{WA}	45/72	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	2088	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

说明书更改说明，此页不做菲林

尺寸规格：A4，黑白印刷，双胶纸

M-Thermal技术参数表，在16125300001039的基础上更改内容。

