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		Sound	Me	edium - terr	perature app	lication	Low-temperature application			
Outdoor unit	Indoor unit	Climate condition	power level(indoor/ outdoor), <i>LWA</i> [dB]	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
		Average	43/62	4	127%	2700	A++	4	183%	1941	A+++
MHA-V4W/D2N1	SMK-80/CD30GN1-B	Colder	/	4	103%	3905	1	4	142%	2757	/
		Warmer	1	4	150%	1520	/	4	218%	1030	/
		Average	43/ 66	6	130%	3875	A++	6	185%	2635	A+++
MHA-V6W/D2N1 SMK-80/CD30GN1-B	Colder	/	5	109%	4713	/	6	153%	3691	/	
		Warmer	1	6	143%	2293	/	6	182%	1844	/
		Average	43 / 69	7	125%	4474	A++	8	170%	3790	A++
MHA-V8W/D2N1	SMK-80/CD30GN1-B	Colder	1	7	87%	7319	1	8	135%	5818	/
		Warmer	1	7	149%	2572	1	8	229%	1792	/
		Average	45 /67	12	127%	7833	A++	10	177%	4570	A+++
MHA-V10W/D2N1	SMK-160/CD30GN1-B	Colder	1	10	96%	10902	1	10	146%	6508	1
		Warmer	/	10	167%	3228	1	10	239%	2269	/
		Average	45 /69	12	127%	7833	A++	12	175%	5558	A+++
MHA-V12W/D2N1	SMK-160/CD30GN1-B	Colder	1	12	111%	10972	/	12	142%	8924	1
		Warmer	1	11	172%	3491	1	12	245%	2633	1
		Average	45 /71	14	128%	8688	A++	14	168%	6715	A++
MHA-V14W/D2N1	SMK-160/CD30GN1-B	Colder	1	14	111%	12378	1	14	132%	9984	1
		Warmer	1	14	166%	4432	1	14	211%	3505	1
		Average	45/ 72	15	127%	9491	A++	16	157%	8272	A++
MHA-V16W/D2N1	SMK-160/CD30GN1-B	Colder	1	15	114%	13244	1	16	135%	11613	1
		Warmer	/	15	179%	4483	/	16	210%	4044	/
		Average	45/ 70	12	128%	7537	A++	12	184%	5383	A+++
MHA-V12W/D2RN1	SMK-160/CSD45GN1-B	Colder	1	12	110%	10454	1	12	157%	7445	1
		Warmer	/	12	164%	3700	1	12	255%	2602	1
		Average	45/ 72	14	130%	8689	A++	14	179%	6405	A+++
MHA-V14W/D2RN1	SMK-160/CSD45GN1-B	Colder	/	14	108%	12892	1	14	150%	9123	/
		Warmer	/	14	167%	4249	1	14	260%	2832	1
		Average	45 / 72	15	130%	9312	A++	16	172%	7421	A++
MHA-V16W/D2RN1	SMK-160/CSD45GN1-B	Colder	/	15	109%	13924	1	16	143%	11009	1
		Warmer	1	15	167%	4723	1	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. In appropriate 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							

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW
Declared capacity for heating for part load a and outdoor temperature Tj	it indoor temp	perature 20 °C	;
Тј = -7 С	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 $^\circ$ C	Pdh	-	kW
Bivalent temperature	Tbiv	-10	°C
Cycling interval capacity for heating	Pcych	-	kW
Degradation co-efficient (**)	Cdh	0.9	
Power consumption in modes other than ac	tive 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

Sound power level, indoors/outdoors

Annual energy consumption

ηs	127	%	
		ıd at	
COPd	1.99	-	
COPd	3.14	-	
COPd	4.32	-	
COPd	6.62	-	
COPd	1.81	-	
COPd	1.81	-	
COPd	-	-	
TOL	-10	°C	
COPcyc	-	-	
WTOL	60	°C	
Psup	0	kW	
Electrical			
-	3180	m³/h	
-	-	m ^{3/} h	
	mperature Tj COPd COPd COPd COPd COPd COPd COPd COPd	COPd 3.14 COPd 4.32 COPd 6.62 COPd 1.81 COPd 1.81 COPd 1.81 COPd 1.81 COPd - TOL -10 COPcyc - WTOL 60 Electrical	

For heat pump combination heater:									
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%	
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh	
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ	
Contact details		D Midea Heating & Ventilating Equipment Co. Ltd lenglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)							

variable

43/62

2700

L_{WA}

dB

kWh

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							

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW
Declared capacity for heating for part load a and outdoor temperature Tj	t indoor temp	perature 20 °C	;
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 $^\circ\!\!\!\!C$	Pdh	-	kW
Bivalent temperature	Tbiv	-15	°C
Cycling interval capacity for heating	Pcych	-	kW
Degradation co-efficient (**)	Cdh	0.9	
Power consumption in modes other than ac	tive 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

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	103	%
Declared coefficient of performance or primindoor temperature 20 °C and outdoor tem			id at
Tj = -7 °C	COPd	2.21	-
Tj = 2 C	COPd	3.20	-
Tj = 7 C	COPd	4.23	-
Tj = 12 °C	COPd	6.11	-
Tj = bivalent temperature	COPd	1.61	-
Tj = operating limit	COPd	1.23	-
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	1.66	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

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

For heat pump combination heater:										
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{clec}	-	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)

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							

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4	kW
Declared capacity for heating for part load a and outdoor temperature Tj	it indoor temp	perature 20 °C	;
Тј = -7 С	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 $^\circ\!\!\!\!C$	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	Pcych	-	kW
Degradation co-efficient (**)	Cdh	0.9	
Power consumption in modes other than ac	tive 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

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	150	%
Declared coefficient of performance or prima indoor temperature 20 °C and outdoor tem			id at
Tj = -7 °C	COPd	-	-
Tj = 2°C	COPd	2.32	-
Tj = 7 °C	COPd	3.26	-
Tj = 12 °C	COPd	5.19	-
Tj = bivalent temperature	COPd	2.32	-
Tj = operating limit	COPd	2.32	-
For air-to-water heat pumps: Tj = -15 $^\circ\!\!\!\!C$	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	-	3180	m³/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

Annual energy consumption	Q _{HE}	1520	kWh		heat exchanger			
For heat pump combination heater:	or heat pump combination heater:							
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ
GD Midea Heating & Ventilating Equipment Co. Ltd								

dB

variable

 L_{WA}

Contact details

Other items Capacity control

Sound power level, indoors/outdoors

(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

Model(s):Outdoor unit: MHA-V6W/D2N1Indoor unit: SMK-80/CD30GN1-BAir-to-water heat pump:YESWater-to-water heat pump:NOBrine-to-water heat pump:NOLow-temperature heat pump:NOEquipped with a supplementary heater:YESHeat pump combination heater:NO	Technical parameters								
Water-to-water heat pump: NO Brine-to-water heat pump: NO Low-temperature heat pump: NO Equipped with a supplementary heater: YES	Model(s):	Outdoor unit: MHA-V6W/D2N1 Indoor unit: SMK-80/CD30GN1-B							
Brine-to-water heat pump: NO Low-temperature heat pump: NO Equipped with a supplementary heater: YES	Air-to-water heat pump:	YES							
Low-temperature heat pump: NO Equipped with a supplementary heater: YES	Water-to-water heat pump:	NO							
Equipped with a supplementary heater: YES	Brine-to-water heat pump:	NO							
	Low-temperature heat pump:	NO							
Heat pump combination heater: NO	Equipped with a supplementary heater:	YES							
	Heat pump combination heater:	NO							
Declared climate condition: AVERAGE	Declared climate condition:	AVERAGE							

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	Pcych	-	kW					
Degradation co-efficient (**)	Cdh	0.9						
Power consumption in modes other than ac	tive 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

Sound power level, indoors/outdoors

Annual energy consumption

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	130	%
Declared coefficient of performance or primindoor temperature 20 °C and outdoor tem			ıd at
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 $^\circ\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	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

For heat pump combination heater:								
Declared load profile - Water heating energy efficiency n _{wh} - %							%	
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ
Contact details		D Midea Heating & Ventilating Equipment Co. Ltd englai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)						

variable

43/66

3875

L_{WA}

dB

kWh

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						

Item	Symbol	Value	Unit					
Rated heat output (*)	Prated	5	kW					
Declared capacity for heating for part load at indoor temperature 20 $^\circ\text{C}$ and outdoor temperature Tj								
Тј = -7 С	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 $^\circ\!\!\!\!C$	Pdh	-	kW					
Bivalent temperature	Tbiv	-14	°C					
Cycling interval capacity for heating	Pcych	-	kW					
Degradation co-efficient (**)	Cdh	0.9						
Power consumption in modes other than ac	tive 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

Sound power level, indoors/outdoors

Annual energy consumption

ltem	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	109	%
Declared coefficient of performance or prima indoor temperature 20 °C and outdoor ter			id at
Tj = -7 °C	COPd	2.25	-
Tj = 2 C	COPd	3.37	-
Tj = 7 C	COPd	5.39	-
Tj = 12 °C	COPd	7.44	-
Tj = bivalent temperature	COPd	1.89	-
Tj = operating limit	COPd	1.25	-
For air-to-water heat pumps: Tj = -15 $^\circ\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	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	1.3	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

For heat pump combination heater:								
Declared load profile - Water heating energy efficiency \$\eta_{wh}\$ - \$\%\$								%
Daily electricity consumption	Q _{clec}	-	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								

variable

4713

 L_{WA} Q_{HE} dB

kWh

(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

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						

Item	Symbol	Value	Unit					
Rated heat output (*)	Prated	6	kW					
Declared capacity for heating for part load at indoor temperature 20 $^\circ\text{C}$ and outdoor temperature Tj								
Тј = -7 С	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 $^\circ\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	Pdh	-	kW					
Bivalent temperature	Tbiv	2	°C					
Cycling interval capacity for heating	Pcych	-	kW					
Degradation co-efficient (**)	Cdh	0.9						
Power consumption in modes other than ac	tive 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					

Item	Symbol	Value	Unit		
Seasonal space heating energy efficiency	ηs	143	%		
Declared coefficient of performance or prima indoor temperature 20 °C and outdoor ter			id at		
Tj = -7 °C	COPd	-	-		
Tj = 2°C	COPd	2.53	-		
Tj = 7 °C	COPd	3.44	-		
Tj = 12 °C	COPd	4.24	-		
Tj = bivalent temperature	COPd	2.53	-		
Tj = operating limit	COPd	2.53	-		
For air-to-water heat pumps: Tj = -15 $^\circ\!\mathrm{C}$	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	-	3180	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	η _{wh}	-	%
、			1 1				
Clec	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh
EC	-	kWh		Annual fuel consumption	AFC	-	GJ
E	EC	EC -	EC - kWh	EC - kWh		EC kWh Annual fuel consumption AFC	EC - kWh Annual fuel consumption AFC -

dB

kWh

variable

_

2293

 L_{WA}

Q_{HE}

Contact details

Other items Capacity control

Sound power level, indoors/outdoors

Annual energy consumption

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:	AVERAGE				

Symbol	Value	Unit	Item					
Prated	7	kW	Seaso					
at indoor temp	perature 20 °C	;	Declar indoor					
Pdh	6.1	kW	Tj = -7					
Pdh	3.8	kW	Tj = 2					
Pdh	2.5	kW	Tj = 7					
Pdh	2.2	kW	Tj = 1:					
Pdh	6.1	kW	Tj = bi					
Pdh	6.2	kW	Tj = o					
Pdh	-	kW	For ai					
Tbiv	-7	°C	For ai Opera					
Pcych	-	kW	Cyclin					
Cdh	0.9		Heatir					
Power consumption in modes other than active mode								
Poff	0.019	kW	Rated					
Psb	0.019	kW	Raleu					
Pto	0.051	kW	Туре					
Pck	0.014	kW	, spe					
	Prated at indoor temp Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	Prated 7 Prated 7 at indoor temperature 20 °C Pdh 6.1 Pdh 3.8 Pdh 2.5 Pdh 2.2 Pdh 6.1 Pdh 6.2 Pdh 0.2 Pdh 0.2 Pdh 0.1 Cdn 0.9 Stive mode 0.019 Psb 0.019 Pto 0.051	Prated 7 KW Prated 7 KW at indoor temperature 20 °C KW Pdh 6.1 KW Pdh 3.8 KW Pdh 2.5 KW Pdh 2.2 KW Pdh 6.1 kW Pdh 6.1 kW Pdh 6.2 kW Pdh 6.2 kW Pdh 6.2 kW Pdh - KW Cdn 0.9 Cdn 0.9 Stive mode 0.019 KW Psb 0.019 KW					

Other items Capacity control

Sound power level, indoors/outdoors

Item	Symbol	Value	Unit		
Seasonal space heating energy efficiency	ηs	125	%		
Declared coefficient of performance or prima indoor temperature 20 °C and outdoor ter			id at		
Tj = -7 °C	COPd	2.00	-		
Tj = 2 C	COPd	3.06	-		
Tj = 7 C	COPd	4.22	-		
Tj = 12 °C	COPd	6.52	-		
Tj = bivalent temperature	COPd	2.00	-		
Tj = operating limit	COPd	1.71	-		
For air-to-water heat pumps: Tj = -15 $^\circ\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	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	0.7	kW		
Type of energy input Electrical					
For air-to-water heat pumps: Rated air flow rate, outdoors	-	5116	m³/h		
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h		

Annual energy consumption	Q _{HE}	4474	kWh		heat exchanger			
For heat pump combination heater:								
Declared load profile		-		\square	Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	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)								

(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

dB

variable

43/69

 L_{WA}

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:	COLDER				

Item	Symbol	Value	Unit					
Rated heat output (*)	Prated	7	kW					
Declared capacity for heating for part load at indoor temperature 20 $^\circ\text{C}$ 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 $^\circ$ C	Pdh	-	kW					
Bivalent temperature	Tbiv	-14	°C					
Cycling interval capacity for heating	Pcych	-	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	0.051	kW					
Crankcase heater mode	Pck	0.014	kW					

Item	Symbol	Value	Unit			
Seasonal space heating energy efficiency	ηs	87	%			
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 $^\circ\text{C}$ and outdoor temperature Tj						
Tj = -7 °C	COPd	2.13	-			
Tj = 2°C	COPd	3.16	-			
Tj = 7 °C	COPd	4.47	-			
Tj = 12 °C	COPd	6.49	-			
Tj = bivalent temperature	COPd	1.6	-			
Tj = operating limit	COPd	1.24	-			
For air-to-water heat pumps: Tj = -15 $^\circ\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	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	2.0	kW			
Type of energy input		Electrical				
For air-to-water heat pumps: Rated air flow rate, outdoors	-	5116	m³/h			
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h			

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

For heat pump combination heater:								
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	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)

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				

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	Pcych	-	kW					
Degradation co-efficient (**)	Cdh	0.9						
Power consumption in modes other than ac	tive mode							
Off mode	Poff	0.019	kW					
Standby mode	Psb	0.019	kW					
Thermostat-off mode	Pto	0.051	kW					
Crankcase heater mode	Pck	0.014	kW					

Item	Symbol	Value	Unit				
Seasonal space heating energy efficiency	ηs	149	%				
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	2.24	-				
Tj = 7 °C	COPd	3.22	-				
Tj = 12 °C	COPd	5.00	-				
Tj = bivalent temperature	COPd	2.24	-				
Tj = operating limit	COPd	2.24	-				
For air-to-water heat pumps: Tj = -15 $^\circ\mathrm{C}$	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	-	5116	m³/h				
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h				

For heat pump combination heater:										
Declared load profile	-				Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh		
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ		
	GD Midea I	Jeating & Ven	tilating E	auir	oment Co. Ltd					

dB

kWh

variable

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2572

 L_{WA}

Q_{HE}

Contact details

Other items Capacity control

Sound power level, indoors/outdoors

Annual energy consumption

GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

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						

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12	kW
Declared capacity for heating for part load a and outdoor temperature Tj	at indoor temp	perature 20 °C	;
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	Pcych	-	kW
Degradation co-efficient (**)	Cdh	0.9	
Power consumption in modes other than ac	tive 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

Sound power level, indoors/outdoors

Annual energy consumption

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 $^\circ\text{C}$ 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 $^\circ\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	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					
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	-				Water heating energy efficiency	η _{wh}	-	%	
Daily electricity consumption	Q _{clec}	-	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)									

variable

45/67

7833

L_{WA}

dB

kWh

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						

Item	Symbol	Value	Unit					
Rated heat output (*)	Prated	10	kW					
Declared capacity for heating for part load at indoor temperature 20 $^\circ\text{C}$ and outdoor temperature Tj								
Tj = -7 °C	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	Pcych	-	kW					
Degradation co-efficient (**)	Cdh	0.9						
Power consumption in modes other than ac	tive 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	96	%		
Declared coefficient of performance or prima indoor temperature 20 °C and outdoor ter			id at		
Tj = -7 °C	COPd	2.26	-		
Tj = 2 °C	COPd	3.02	-		
Tj = 7 C	COPd	3.67	-		
Tj = 12 °C	COPd	7.65	-		
Tj = bivalent temperature	COPd	1.80	-		
Tj = operating limit	COPd	1.27	-		
For air-to-water heat pumps: Tj = -15 $^\circ\mathrm{C}$	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	10.9	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		

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

For heat pump combination heater:									
Declared load profile	-				Water heating energy efficiency	η _{wh}	-	%	
Daily electricity consumption	Q _{clec}	-	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)

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				

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						
Тј = -7 С	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 $^\circ$ C	Pdh	-	kW			
Bivalent temperature	Tbiv	2	°C			
Cycling interval capacity for heating	Pcych	-	kW			
Degradation co-efficient (**)	Cdh	0.9				
Power consumption in modes other than a	ctive 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

Sound power level, indoors/outdoors

Annual energy consumption

Item	Symbol	Value	Unit		
Seasonal space heating energy efficiency	ηs	167	%		
Declared coefficient of performance or primindoor temperature 20 °C and outdoor tem	itio for part loa	ad at			
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 $^\circ\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	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	- Water heating energy efficiency n _{wh} - %							%
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ
Contact details		Midea Heating & Ventilating Equipment Co. Ltd englai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)						

dB

kWh

variable

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3228

 L_{WA}

Q_{HE}

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					

Symbol	Value	Unit	Item			
Prated	12	kW	Seaso			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj						
Pdh	10.9	kW	Tj = -7			
Pdh	7.0	kW	Tj = 2			
Pdh	4.2	kW	Tj = 7			
Pdh	2.5	kW	Tj = 1			
Pdh	10.9	kW	Tj = b			
Pdh	10.3	kW	Tj = o			
Pdh	-	kW	For a			
Tbiv	-7	°C	For a Operation			
Pcych	-	kW	Cyclir			
Cdh	0.9		Heati			
tive mode			Suppl			
Poff	0.019	kW	Rate			
Psb	0.019	kW	Raled			
Pto	0.078	kW	Туре			
Pck	0.014	kW	'ype			
	Prated at indoor temp Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	Prated 12 Prated 12 at indoor temperature 20 °C Pdh 10.9 Pdh 7.0 Pdh 4.2 Pdh 2.5 Pdh 10.9 Pdh 10.9 Pdh 10.9 Pdh 10.3 Pdh 10.3 Pdh 10.3 Pdh - Tbiv -7 Pcych - Cdh 0.9 Stive mode 0.019 Psb 0.019 Pto 0.078	Prated 12 kW Prated 12 kW at indoor temperature 20 °C kW Pdh 10.9 kW Pdh 7.0 kW Pdh 4.2 kW Pdh 2.5 kW Pdh 10.9 kW Pdh 10.9 kW Pdh 10.3 kW Pdh 10.3 kW Pdh -7 °C Pcych - kW Cdh 0.9 stive mode - kW Psb 0.019 kW Psb 0.078 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 $^\circ$ 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			
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		

 η_{wh}

Q_{fuel}

AFC

%

kWh

GJ

-

-

Sound power level, indoors/outdoors	L _{WA}	45/68	dB		For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor				
Annual energy consumption	Q _{HE}	7833	kWh		heat exchanger				
For heat pump combination heater:									
Declared load profile - Water heating energy efficiency									
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption				
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption				

variable

Contact details

Other items Capacity control

> GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

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					

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	Pcych	-	kW		
Degradation co-efficient (**)	Cdh	0.9			
Power consumption in modes other than ac	tive 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	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 $^\circ\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	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			

Capacity control	control variable				For air-to-water heat pump Rated air flow rate, outdoor
Sound power level, indoors/outdoors	L _{WA}	-	dB		For water-or brine-to-water Rated brine or water flow rater
Annual energy consumption	Q _{HE}	10972	kWh		heat exchanger
For heat pump combination heater:					
Declared load profile		-			Water heating energy efficiend

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

Contact details

Other items

GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

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							

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										
Тј = -7 С	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	Pcych	-	kW							
Degradation co-efficient (**)	Cdh	0.9								
Power consumption in modes other than ac	tive 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	172	%
Declared coefficient of performance or prima indoor temperature 20 °C and outdoor ter			id at
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 $^\circ\!\!\!\!\!\mathrm{C}$	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

Annual energy consumption	Q _{HE}	3491	kWh		heat exchanger			
For heat pump combination heater:				-				
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	kWh	1	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ
	CD Midaa I	Lasting 9 Van	tilating E.	~	amont Co. 1 td			

dB

variable

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 L_{WA}

Contact details

Other items Capacity control

Sound power level, indoors/outdoors

GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

Technical parameters								
Outdoor unit: MHA-V14W/D2N1 Indoor unit: SMK-160/CD30GN1-B								
YES								
NO								
NO								
NO								
YES								
NO								
AVERAGE								

Item	Symbol	Value	Unit		Item
Rated heat output (*)	Prated	14	kW	1	Season
Declared capacity for heating for part load a and outdoor temperature Tj	it indoor temp	berature 20 °C	;		Declare indoor
Tj = -7 °C	Pdh	12.2	kW		Tj = -7 (
Tj = 2 °C	Pdh	7.7	kW		Tj = 2 [°] C
Tj = 7 °C	Pdh	5.0	kW		Tj = 7 °C
Tj = 12 °C	Pdh	2.7	kW		Tj = 12
Tj = bivalent temperature	Pdh	12.2	kW		Tj = biv
Tj = operating limit	Pdh	10.3	kW	1	Tj = ope
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW		For air-
Bivalent temperature	Tbiv	-7	°C		For air- Operati
Cycling interval capacity for heating	Pcych	-	kW		Cycling
Degradation co-efficient (**)	Cdh	0.9		1	Heating
Power consumption in modes other than ac	tive mode				Supple
Off mode	Poff	0.019	kW	1	Rated
Standby mode	Psb	0.019	kW	1	Raleu
Thermostat-off mode	Pto	0.078	kW		Туре с
Crankcase heater mode	Pck	0.014	kW		Туре с
				•	

		Unit % d at								
ny energy ra	tio for part loa	70								
nperature Tj	-	d at								
COPd	2.00	Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj								
	2.00	-								
COPd	3.10	-								
COPd	4.55	-								
COPd	6.24	-								
COPd	2.00	-								
COPd	1.66	-								
COPd	-	-								
TOL	-10	°C								
COPcyc	-	-								
WTOL	60	°C								
Psup	3.5	kW								
	Electrical									
-	6500	m³/h								
-	-	m ^{3/} h								
	COPd COPd COPd COPd COPd COPd COPd COPcyc WTOL	COPd 4.55 COPd 6.24 COPd 2.00 COPd 1.66 COPd -10 TOL -10 COPcyc - WTOL 60 Electrical								

Sound power level, indoors/outdoors	L _{WA}	45/71	dB		For water-or brine-to-water heat Rated brine or water flow rate, ou
Annual energy consumption	Q _{HE}	8688	kWh		heat exchanger
For heat pump combination heater:					
Declared load profile		-			Water heating energy efficiency
Daily electricity consumption	Qclec	-	kWh		Daily fuel consumption

variable

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

Other items Capacity control

> GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

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							

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									
Тј = -7 С	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 $^\circ$ C	Pdh	-	kW						
Bivalent temperature	Tbiv	-13	°C						
Cycling interval capacity for heating	Pcych	-	kW						
Degradation co-efficient (**)	Cdh	0.9							
Power consumption in modes other than ac	tive 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	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	2.39	-				
Tj = 2 °C	COPd	3.50	-				
Tj = 7 °C	COPd	4.85	-				
Tj = 12 °C	COPd	7.15	-				
Tj = bivalent temperature	COPd	1.96	-				
Tj = operating limit	COPd	1.25	-				
For air-to-water heat pumps: Tj = -15 $^\circ\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	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	6.6	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	-			Water heating energy efficiency	η _{wh}	-	%	
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ
CD Midea Heating & Ventilating Equipment Co. Ltd								

dB

kWh

variable

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12378

 L_{WA}

Q_{HE}

Contact details

Other items Capacity control

Sound power level, indoors/outdoors

Annual energy consumption

GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

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					

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	14	kW
Declared capacity for heating for part load and outdoor temperature Tj	at indoor tem	perature 20 °C	;
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 $^\circ\mathrm{C}$	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	Pcych	-	kW
Degradation co-efficient (**)	Cdh	0.9	
Power consumption in modes other than a	ctive 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

Sound power level, indoors/outdoors

Annual energy consumption

ηs ary energy ra nperature Tj	166	%	
		d at	
COPd	-	-	
COPd	2.31	-	
COPd	3.45	-	
COPd	5.76	-	
COPd	2.31	-	
COPd	2.31	-	
COPd	-	-	
TOL	2	°C	
COPcyc	-	-	
WTOL	60	°C	
Psup	0	kW	
Electrical			
-	6500	m³/h	
-	-	m³/h	
	COPd COPd COPd COPd COPd COPd COPd TOL COPcyc WTOL	COPd 2.31 COPd 3.45 COPd 5.76 COPd 2.31 COPd - TOL 2 WTOL 60 Electrical	

For heat pump combination heater:								
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	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)								

(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

dB

kWh

variable

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4432

 L_{WA}

Q_{HE}

Technical parameters						
Outdoor unit: MHA-V16W/D2N1 Indoor unit: SMK-160/CD30GN1-B						
YES						
NO						
NO						
NO						
YES						
NO						
AVERAGE						

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 $^\circ\!\!\!\!C$	Pdh	-	kW				
Bivalent temperature	Tbiv	-5	°C				
Cycling interval capacity for heating	Pcych	-	kW				
Degradation co-efficient (**)	Cdh	0.9					
Power consumption in modes other than ac	tive 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 prima indoor temperature 20 °C and outdoor ter			id at	
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 $^\circ\!\!\!\!\!\mathrm{C}$	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	

Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L _{WA}	45/72	dB
Annual energy consumption	Q _{HE}	9491	kWh

For heat pump combination heater:								
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	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)

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					

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 $^\circ$ C	Pdh	-	kW				
Bivalent temperature	Tbiv	-12	°C				
Cycling interval capacity for heating	Pcych	-	kW				
Degradation co-efficient (**)	Cdh	0.9					
Power consumption in modes other than ac	tive 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	114	%					
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 $^\circ\text{C}$ and outdoor temperature Tj								
Tj = -7 °C	COPd	2.44	-					
Tj = 2°C	COPd	3.55	-					
Tj = 7 °C	COPd	5.40	-					
Tj = 12 °C	COPd	8.20	-					
Tj = bivalent temperature	COPd	1.94	-					
Tj = operating limit	COPd	1.24	-					
For air-to-water heat pumps: Tj = -15 $^\circ\mathrm{C}$	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	8.4	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					

Capacity control		variable				
Sound power level, indoors/outdoors	L _{WA}	-	dB		For water-o	
Annual energy consumption	Q _{HE}	13244	kWh		heat excha	
For heat pump combination heater:						

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

Other items

GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

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					

Item	Symbol	Value	Unit					
Rated heat output (*)	Prated	15	kW					
Declared capacity for heating for part load at indoor temperature 20 $^\circ\text{C}$ 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 $^{\circ}$ C	Pdh	-	kW					
Bivalent temperature	Tbiv	2	°C					
Cycling interval capacity for heating	Pcych	-	kW					
Degradation co-efficient (**)	Cdh	0.9						
Power consumption in modes other than ad	tive 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	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 $^\circ\mathrm{C}$	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		-			Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh		
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ		
	GD Midea I	Heating & Van	tilating E	auir	oment Co. Ltd					

dB

kWh

variable

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4483

 L_{WA}

Q_{HE}

Contact details

Other items Capacity control

Sound power level, indoors/outdoors

Annual energy consumption

GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

Technical parameters						
Outdoor unit: MHA-V12W/D2RN1 Indoor unit: SMK-160/CSD45GN1-B						
YES						
NO						
NO						
NO						
YES						
NO						
AVERAGE						

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								
Тј = -7 С	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 $^\circ\!\!\!\!C$	Pdh	-	kW					
Bivalent temperature	Tbiv	-9	°C					
Cycling interval capacity for heating	Pcych	-	kW					
Degradation co-efficient (**)	Cdh	0.9						
Power consumption in modes other than ac	tive 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

Sound power level, indoors/outdoors

Annual energy consumption

Item	Symbol	Value	Unit					
Seasonal space heating energy efficiency	ηs	128	%					
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 $^\circ\text{C}$ and outdoor temperature Tj								
Tj = -7 °C	COPd	1.98	-					
Tj = 2 C	COPd	3.11	-					
Tj = 7 °C	COPd	4.50	-					
Tj = 12 °C	COPd	6.72	-					
Tj = bivalent temperature	COPd	1.78	-					
Tj = operating limit	COPd	1.73	-					
For air-to-water heat pumps: Tj = -15 $\rm C$	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	0.6	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					
	1							

For heat pump combination heater:										
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%		
Daily electricity consumption	Q _{clec}	-	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.B. China)										

variable

45/70

7537

L_{WA}

dB

kWh

(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

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							

Item	Symbol	Value	Unit						
Rated heat output (*)	Prated	12	kW						
Declared capacity for heating for part load at indoor temperature 20 $^\circ\text{C}$ 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	Pcych	-	kW						
Degradation co-efficient (**)	Cdh	0.9							
Power consumption in modes other than ac	tive 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	110	%				
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj							
Tj = -7 °C	COPd	2.26	-				
Tj = 2°C	COPd	3.41	-				
Tj = 7 C	COPd	4.67	-				
Tj = 12 °C	COPd	7.68	-				
Tj = bivalent temperature	COPd	1.70	-				
Tj = operating limit	COPd	1.34	-				
For air-to-water heat pumps: Tj = -15 $^\circ\!\!\!\!C$	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	3.65	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				

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

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

Contact details

Other items

GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

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							

Item	Symbol	Value	Unit							
Rated heat output (*)	Prated	12	kW							
Declared capacity for heating for part load at indoor temperature 20 $^\circ\text{C}$ and outdoor temperature Tj										
Тј = -7 С	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	Pcych	-	kW							
Degradation co-efficient (**)	Cdh	0.9								
Power consumption in modes other than ac	tive 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	164	%	
Declared coefficient of performance or prim- indoor temperature 20 °C and outdoor tem			id at	
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 $^\circ\!\!\!\!C$	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	

Capacity control		variable	For air-to-water hea Rated air flow rate,	
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-t Rated brine or wate
Annual energy consumption	Q _{HE}	3700	kWh	heat exchanger
For heat pump combination heater:				

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

Contact details

Other items

GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

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							

Item	Symbol	Value	Unit						
Rated heat output (*)	Prated	14	kW						
Declared capacity for heating for part load at indoor temperature 20 $^\circ\text{C}$ and outdoor temperature Tj									
Тј = -7 С	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	Pcych	-	kW						
Degradation co-efficient (**)	Cdh	0.9							
Power consumption in modes other than ac	tive 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

Sound power level, indoors/outdoors

Annual energy consumption

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 $^\circ\!\!\!\!\!\mathrm{C}$	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					
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			
	1					

For heat pump combination heater:								
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	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, Fosban, Guangdong, P.B. China)								

variable

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8689

L_{WA}

dB

kWh

(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

Outdoor unit: MHA-V14W/D2RN1 Indoor unit: SMK-160/CSD45GN1-B YES
YES
NO
NO
NO
YES
NO
COLDER

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 $^\circ$ C	Pdh	-	kW					
Bivalent temperature	Tbiv	-12	°C					
Cycling interval capacity for heating	Pcych	-	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	108	%
Declared coefficient of performance or prima indoor temperature 20 °C and outdoor ter			id at
Tj = -7 °C	COPd	2.28	-
Tj = 2 C	COPd	3.52	-
Tj = 7 C	COPd	4.98	-
Tj = 12 °C	COPd	7.83	-
Tj = bivalent temperature	COPd	1.82	-
Tj = operating limit	COPd	1.33	-
For air-to-water heat pumps: Tj = -15 $^\circ\mathrm{C}$	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	6.1	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

Capacity control		variable		For air Rated
Sound power level, indoors/outdoors	L _{WA}	-	dB	For wa Rated
Annual energy consumption	Q _{HE}	12892	kWh	heat ex
For heat pump combination heater:				

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

Contact details

Other items

GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

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					

Item	Symbol	Value	Unit				
Rated heat output (*)	Prated	14	kW				
Declared capacity for heating for part load at indoor temperature 20 $^\circ\text{C}$ 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 $^\circ$ C	Pdh	-	kW				
Bivalent temperature	Tbiv	2	°C				
Cycling interval capacity for heating	Pcych	-	kW				
Degradation co-efficient (**)	Cdh	0.9					
Power consumption in modes other than ac	ctive 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

Sound power level, indoors/outdoors

Annual energy consumption

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	2.29	-				
Tj = 7 °C	COPd	3.41	-				
Tj = 12 °C	COPd	5.97	-				
Tj = bivalent temperature	COPd	2.29	-				
Tj = operating limit	COPd	2.29	-				
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		-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ
Contact details	Description of the second seco							

variable

4249

L_{WA}

dB

kWh

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					
(

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load and outdoor temperature Tj	at indoor tem	perature 20 °C	;
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 $^\circ\mathrm{C}$	Pdh	-	kW
Bivalent temperature	Tbiv	-6	°C
Cycling interval capacity for heating	Pcych	-	kW
Degradation co-efficient (**)	Cdh	0.9	
Power consumption in modes other than a	ctive 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

Sound power level, indoors/outdoors

Annual energy consumption

Item	Symbol	Value	Unit		
Seasonal space heating energy efficiency	ηs	130	%		
Declared coefficient of performance or prima indoor temperature 20 °C and outdoor ter			id at		
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 $^\circ\!\mathrm{C}$	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	-				Water heating energy efficiency	η _{wh}	-	%	
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh	
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ	
Contact details	Contact details GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)								

variable

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9312

L_{WA}

dB

kWh

	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:	COLDER							

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load and outdoor temperature Tj	at indoor temp	perature 20 °C	;
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 $\rm C$	Pdh	-	kW
Bivalent temperature	Tbiv	-11	°C
Cycling interval capacity for heating	Pcych	-	kW
Degradation co-efficient (**)	Cdh	0.9	
Power consumption in modes other than a	ctive 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	109	%
Declared coefficient of performance or prima indoor temperature 20 °C and outdoor ter			id at
Tj = -7 °C	COPd	2.22	-
Tj = 2°C	COPd	3.67	-
Tj = 7 °C	COPd	5.09	-
Tj = 12 °C	COPd	7.47	-
Tj = bivalent temperature	COPd	1.91	-
Tj = operating limit	COPd	1.32	-
For air-to-water heat pumps: Tj = -15 $^\circ\mathrm{C}$	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	7.4	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

Annual energy consumption	Q _{HE}	13924	kWh		heat exchanger			
	· · · ·							
For heat pump combination heater:								
Declared load profile		-			Water heating energy efficiency	η _{wh}	-	%
Daily electricity consumption	Q _{clec}	-	kWh		Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh		Annual fuel consumption	AFC	-	GJ

dB

variable

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L_{WA}

Contact details

Other items Capacity control

Sound power level, indoors/outdoors

GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

	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

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	15	kW
Declared capacity for heating for part load a and outdoor temperature Tj	t indoor tem	perature 20 °C	;
Тј = -7 С	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	Pcych	-	kW
Degradation co-efficient (**)	Cdh	0.9	
Power consumption in modes other than ac	tive 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	167	%
Declared coefficient of performance or prim indoor temperature 20 °C and outdoor tem			id at
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

Other items							
Capacity control		variable					
Sound power level, indoors/outdoors	L _{WA}	-	dB				
Annual energy consumption	Q _{HE}	4723	kWh				

For heat pump combination heater:								
Declared load profile	-			Water heating energy efficiency	η _{wh}	-	%	
Daily electricity consumption	Q _{clec}	-	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)

Information requirements for comfort chillers

Model(s): Outdoor side heat exchanger of chiller: Indoor side heat exchanger chiller: Type: Driver of compressor:			MHA-V4W/D2N1 Air to water Water												
									Compressor driven vapour compression						
									Electric motor						
			Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
			Rated cooling capacity	P _{rated,c}	3.9	kW	Seasonal space cooling energy efficiency	η _{s,c}	172	%					
Declared cooling capacity for part load at given temperature Tj			n outdoor												
Tj=+35°C	P _{dc}	3.9	kW	Tj=+35°C	EERd	3.01	-								
Tj=+30°C	P _{dc}	3.0	kW	Tj=+30°C	EER₫	4.37	-								
Tj=+25°C	P _{dc}	1.9	kW	Tj=+25°C	EER₫	5.69	-								
Tj=+20°C	P _{dc}	0.9	kW	Tj=+20°C	EERd	5.33	-								
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-												
		Power cons	sumption in mo	des other than "active n	node"		I								
Off mode	Poff	0.017	kW	Crankcase heater mode	Рск	0.000	kW								
Thermosat-off mode	P _{TO}	0.057	kW	Standby mode	P _{SB}	0.017	kW								
			Othe	r items											
Capacity control		variable		For air-to-water comfort chillers: air flow rate, outdoor measured	-	3180	m³/h								
Sound power level, indoors / outdoors	Lwa	43/62	dB												
Emissions of nitroger 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	-	-	m³/h								
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)												
Standard rating cor	nditions used	Low temper	ature applicatio	n											
Contact details		GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China													

(*) If Cdc is not determined by m(**) From 26 September 2018.

Information requirements for comfort chillers

Model(s): Outdoor side heat exchanger of chiller: Indoor side heat exchanger chiller: Type: Driver of compressor:			MHA-V4W/D2N1 Air to water							
									Water Compressor driven vapour compression	
			Electric motor							
			Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
			Rated cooling capacity	P _{rated,c}	3.9	kW	Seasonal space cooling energy efficiency	η _{s,c}	203	%
Declared cooling capacity for part load at given temperature Tj			n outdoor							
Tj=+35°C	P _{dc}	3.9	kW	Tj=+35°C	EER₫	4.82	-			
Tj=+30°C	P _{dc}	3.1	kW	Tj=+30°C	EERd	7.26	-			
Tj=+25°C	P _{dc}	1.8	kW	Tj=+25°C	EER₫	5.39	-			
Tj=+20°C	P _{dc}	1.0	kW	Tj=+20°C	EERd	6.29	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	POFF	0.017	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.057	kW	Standby mode	P _{SB}	0.017	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			0.1			
Sound power level, indoors / outdoors	Lwa	43/62	dB	air flow rate, outdoor measured	-	3180	m³/h			
Emissions of nitroger 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 co	nditions used	Medium tem	perature applic	ation						
Contact details		GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China								

(**) From 26 September 2018.

Information requirements for comfort chillers

Model(s): Outdoor side heat exchanger of chiller: Indoor side heat exchanger chiller: Type: Driver of compressor:			MHA-V6W/D2N1 Air to water Water												
									Compressor driven vapour compression						
									Electric motor						
			Item	Symbol	Value	Unit	Item	Symbol	Value	Unit					
			Rated cooling capacity	P _{rated,c}	5.8	kW	Seasonal space cooling energy efficiency	η _{s,c}	197	%					
Declared cooling capacity for part load at giver temperature Tj			n outdoor												
Tj=+35°C	P _{dc}	5.8	kW	Tj=+35°C	EERd	2.70	-								
Tj=+30°C	P _{dc}	4.4	kW	Tj=+30°C	EER₫	4.22	-								
Tj=+25°C	P _{dc}	2.7	kW	Tj=+25°C	EER₫	6.13	-								
Tj=+20°C	P _{dc}	1.3	kW	Tj=+20°C	EERd	8.33	-								
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-												
		Power cons	sumption in mo	des other than "active n	node"		I								
Off mode	Poff	0.017	kW	Crankcase heater mode	Рск	0.000	kW								
Thermosat-off mode	P _{TO}	0.057	kW	Standby mode	P _{SB}	0.017	kW								
			Othe	r items											
Capacity control		variable		For air-to-water comfort chillers: air flow rate, outdoor measured	-	3180	m³/h								
Sound power level, indoors / outdoors	Lwa	43/66	dB												
Emissions of nitroger 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	-	-	m³/h								
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)												
Standard rating cor	nditions used	Low temper	ature applicatio	n											
Contact details		GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China													

(*) If Cdc is not determined by m(**) From 26 September 2018.

Model(s):			MHA-V6W/D2N1							
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric motor	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	5.9	kW	Seasonal space cooling energy efficiency	η _{s,c}	266	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	5.9	kW	Tj=+35°C	EER₫	4.39	-			
Tj=+30°C	P _{dc}	4.4	kW	Tj=+30°C	EER₫	6.48	-			
Tj=+25°C	P _{dc}	2.8	kW	Tj=+25°C	EER₫	10.48	-			
Tj=+20°C	P _{dc}	1.3	kW	Tj=+20°C	EERd	6.56	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mod	les other than "active n	node"		1			
Off mode	Poff	0.017	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.057	kW	Standby mode	P _{SB}	0.017	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			0.11			
Sound power level, indoors / outdoors	Lwa	43/66	dB	air flow rate, outdoor measured	-	3180	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-	-	111-711			
Standard rating cor	nditions used	Medium tem	perature applic	ation						
Contact details GD Midea Heatin Penglai industry				ating Equipment Co. , L						

Model(s):			MHA-V8W/D2N1							
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compress	or:		Electric motor	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	6.3	kW	Seasonal space cooling energy efficiency	η _{s,c}	195	%			
Declared cooling o temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	6.3	kW	Tj=+35°C	EER₫	2.61	-			
Tj=+30°C	P _{dc}	4.7	kW	Tj=+30°C	EER₫	4.26	-			
Tj=+25°C	P _{dc}	2.8	kW	Tj=+25°C	EER₫	5.81	-			
Tj=+20°C	P _{dc}	1.4	kW	Tj=+20°C	EERd	8.17	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	Poff	0.018	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.046	kW	Standby mode	P _{SB}	0.018	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			0.5			
Sound power level, indoors / outdoors	Lwa	43/69	dB	air flow rate, outdoor measured	-	5116	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO₂ eq (100years)	water flow rate, outdoor side heat exchanger	-	-	111-771			
Standard rating cor	nditions used	Low tempera	ature application	n						
Contact details		GD Midea H	eating & Ventila	ating Equipment Co., L	.td.		nina			

Model(s):			MHA-V8W/D2N1							
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compress	or:		Electric motor	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	7.8	kW	Seasonal space cooling energy efficiency	η _{s,c}	288	%			
Declared cooling o temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	7.8	kW	Tj=+35°C	EER₫	4.27	-			
Tj=+30°C	P _{dc}	5.8	kW	Tj=+30°C	EER₫	6.51	-			
Tj=+25°C	P _{dc}	3.8	kW	Tj=+25°C	EER₫	9.33	-			
Tj=+20°C	P _{dc}	1.8	kW	Tj=+20°C	EERd	9.93	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"		1			
Off mode	Poff	0.018	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.046	kW	Standby mode	P _{SB}	0.018	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			0.5			
Sound power level, indoors / outdoors	Lwa	43/69	dB	air flow rate, outdoor measured	-	5116	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO₂ eq (100years)	water flow rate, outdoor side heat exchanger	-	-	117/1			
Standard rating cor	nditions used	Medium tem	perature applic	ation						
Contact details GD Midea Heatin Penglai industry F			leating & Ventila	ating Equipment Co., L	_td.					

Model(s):			MHA-V10W/D2N1							
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	9.1	kW	Seasonal space cooling energy efficiency	η _{s,c}	194	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	9.1	kW	Tj=+35°C	EERd	2.74	-			
Tj=+30°C	P _{dc}	6.9	kW	Tj=+30°C	EERd	4.44	-			
Tj=+25°C	P _{dc}	4.6	kW	Tj=+25°C	EERd	5.77	-			
Tj=+20°C	P _{dc}	2.5	kW	Tj=+20°C	EERd	7.48	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mo	des other than "active n	node"					
Off mode	POFF	0.019	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Ρτο	0.074	kW	Standby mode	P _{SB}	0.019	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0500	3/1-			
Sound power level, indoors / outdoors	Lwa	45/67	dB	air flow rate, outdoor measured	-	6500	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or	_		m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-					
Standard rating cor	nditions used	Low tempera	ature applicatio	n						
Contact details				ating Equipment Co. , L iao, Shunde, Foshan, C		28311 P.R. Ch	nina			

Model(s):			MHA-V10W/E	MHA-V10W/D2N1						
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compress	or:		Electric motor	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	9.7	kW	Seasonal space cooling energy efficiency	η _{s,c}	286	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	9.7	kW	Tj=+35°C	EER₫	4.59	-			
Tj=+30°C	P _{dc}	7.2	kW	Tj=+30°C	EER₫	7.24	-			
Tj=+25°C	P _{dc}	4.9	kW	Tj=+25°C	EER₫	7.90	-			
Tj=+20°C	P _{dc}	3.4	kW	Tj=+20°C	EERd	11.81	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	Poff	0.019	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.074	kW	Standby mode	P _{SB}	0.019	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			0.5			
Sound power level, indoors / outdoors	Lwa	45/67	dB	air flow rate, outdoor measured	-	6500	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO₂ eq (100years)	water flow rate, outdoor side heat exchanger	-	-	111-771			
Standard rating cor	nditions used	Medium tem	perature applic	ation						
Contact details GD Midea Heating & Penglai industry Ro			eating & Ventila	ating Equipment Co., L	_td.					

Model(s):			MHA-V12W/[MHA-V12W/D2N1						
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	10.7	kW	Seasonal space cooling energy efficiency	η _{s,c}	193	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	10.7	kW	Tj=+35°C	EER₫	2.55	-			
Tj=+30°C	P _{dc}	8.2	kW	Tj=+30°C	EER₫	4.28	-			
Tj=+25°C	P _{dc}	5.2	kW	Tj=+25°C	EER₫	5.65	-			
Tj=+20°C	P _{dc}	2.8	kW	Tj=+20°C	EERd	7.67	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mo	des other than "active n	node"					
Off mode	Poff	0.019	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.074	kW	Standby mode	P _{SB}	0.019	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			2.1			
Sound power level, indoors / outdoors	Lwa	45/68	dB	air flow rate, outdoor measured	-	6500	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-	-	111 /11			
Standard rating cor	nditions used	Low tempera	ature applicatio	n						
Contact details				ating Equipment Co. , L iao, Shunde, Foshan, C		28311 P.R. Ch	nina			

Model(s):			MHA-V12W/[MHA-V12W/D2N1						
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compress	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	11.4	kW	Seasonal space cooling energy efficiency	η _{s,c}	276	%			
Declared cooling of temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	11.4	kW	Tj=+35°C	EERd	4.23	-			
Tj=+30°C	P _{dc}	8.9	kW	Tj=+30°C	EER₫	6.74	-			
Tj=+25℃	P _{dc}	5.4	kW	Tj=+25°C	EER₫	7.53	_			
Tj=+20°C	P _{dc}	3.3	kW	Tj=+20°C	EERd	11.08	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mo	des other than "active n	node"					
Off mode	Poff	0.019	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.074	kW	Standby mode	P _{SB}	0.019	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			2.11			
Sound power level, indoors / outdoors	Lwa	45/68	dB	air flow rate, outdoor measured	-	6500	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-	-	111-711			
Standard rating cor	nditions used	Medium tem	perature applic	ation						
Contact details				ating Equipment Co. , L iao, Shunde, Foshan, C		28311 P.R. Ch	nina			

Model(s):			MHA-V14W/D2N1							
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	12.1	kW	Seasonal space cooling energy efficiency	η _{s,c}	189	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	12.1	kW	Tj=+35°C	EER₫	2.50	-			
Tj=+30°C	P _{dc}	9.3	kW	Tj=+30°C	EERd	4.01	-			
Tj=+25°C	P _{dc}	5.8	kW	Tj=+25°C	EERd	5.58	-			
Tj=+20°C	P _{dc}	3.4	kW	Tj=+20°C	EERd	7.74	_			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mo	des other than "active n	node"					
Off mode	POFF	0.019	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Рто	0.074	kW	Standby mode	P _{SB}	0.019	kW			
			Othe	er items						
Capacity control		variable		For air-to-water comfort chillers:		0500				
Sound power level, indoors / outdoors	Lwa	45/71	dB	air flow rate, outdoor measured	-	6500	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-	-	111-711			
Standard rating cor	ditions used	Low tempera	ature applicatio	n						
Contact details				ating Equipment Co. , L iao, Shunde, Foshan, C			vina			

Model(s):			MHA-V14W/	MHA-V14W/D2N1						
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compress	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	12.6	kW	Seasonal space cooling energy efficiency	η _{s,c}	281	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	l given			
Tj=+35°C	P _{dc}	12.6	kW	Tj=+35°C	EERd	3.82	-			
Tj=+30°C	P _{dc}	9.8	kW	Tj=+30°C	EER₫	6.34	-			
Tj=+25°C	P _{dc}	6.1	kW	Tj=+25°C	EER₫	8.67	-			
Tj=+20°C	P _{dc}	3.3	kW	Tj=+20°C	EERd	10.42	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mo	des other than "active n	node"		I			
Off mode	Poff	0.019	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.074	kW	Standby mode	P _{SB}	0.019	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:		0500	2.11			
Sound power level, indoors / outdoors	Lwa	45/71	dB	air flow rate, outdoor measured	-	6500	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-	-				
Standard rating cor	nditions used	Medium terr	iperature applic	ation						
Contact details				ating Equipment Co. , L iao, Shunde, Foshan, C		28311 P.R. Cł	nina			

Model(s):			MHA-V16W/D2N1						
Outdoor side heat e	exchanger of c	hiller:	Air to water						
Indoor side heat ex	changer chille	r:	Water						
Туре:			Compressor	driven vapour compres	sion				
Driver of compresso	or:		Electric moto	r					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity	P _{rated,c}	12.5	kW	Seasonal space cooling energy efficiency	η _{s,c}	191	%		
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given		
Tj=+35℃	P _{dc}	12.5	kW	Tj=+35°C	EERd	2.31	-		
Tj=+30°C	P _{dc}	9.7	kW	Tj=+30°C	EERd	3.97	-		
Tj=+25°C	P _{dc}	6.1	kW	Tj=+25°C	EERd	5.78	-		
Tj=+20°C	P _{dc}	3.5	kW	Tj=+20°C	EERd	8.11	-		
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-						
		Power cons	sumption in mod	des other than "active n	node"				
Off mode	POFF	0.019	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	Ρτο	0.074	kW	Standby mode	P _{SB}	0.019	kW		
			Othe	r items					
Capacity control		variable		For air-to-water comfort chillers:			2.4		
Sound power level, indoors / outdoors	Lwa	45/72	dB	air flow rate, outdoor measured	-	6500	m³/h		
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h		
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-	-	1117/11		
Standard rating cor	ditions used	Low tempera	ature applicatio	n					
				ating Equipment Co. , L iao, Shunde, Foshan, C		20211 D.D. Ch	ina		

Model(s):			MHA-V16W/D2N1						
Outdoor side heat e	exchanger of c	hiller:	Air to water						
Indoor side heat ex	changer chille	r:	Water						
Туре:			Compressor	driven vapour compres	sion				
Driver of compress	or:		Electric moto	r					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity	P _{rated,c}	13.6	kW	Seasonal space cooling energy efficiency	η _{s,c}	276	%		
Declared cooling o temperature Tj	apacity for pa	l rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	l given		
Tj=+35°C	P _{dc}	13.6	kW	Tj=+35°C	EERd	3.68	-		
Tj=+30°C	P _{dc}	10.5	kW	Tj=+30°C	EER₫	6.10	-		
Tj=+25°C	P _{dc}	6.4	kW	Tj=+25°C	EER₫	8.52	-		
Tj=+20°C	P _{dc}	3.3	kW	Tj=+20°C	EERd	10.07	-		
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-						
		Power cons	sumption in mo	des other than "active n	node"		I		
Off mode	Poff	0.019	kW	Crankcase heater mode	Рск	0.000	kW		
Thermosat-off mode	Рто	0.074	kW	Standby mode	P _{SB}	0.019	kW		
			Othe	r items					
Capacity control		variable		For air-to-water comfort chillers:		0500	2.11		
Sound power level, indoors / outdoors	Lwa	45/72	dB	air flow rate, outdoor measured	-	6500	m³/h		
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h		
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-	-			
Standard rating cor	nditions used	Medium tem	perature applic	ation					
Contact details				ating Equipment Co. , L iao, Shunde, Foshan, C		28311 P.R. Cł	nina		

Model(s):			MHA-V12W/D2RN1							
Outdoor side heat e	exchanger of c	hiller:	Air to water							
Indoor side heat ex	changer chille	r:	Water							
Туре:			Compressor	driven vapour compres	sion					
Driver of compresso	or:		Electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated cooling capacity	P _{rated,c}	11.9	kW	Seasonal space cooling energy efficiency	η _{s,c}	195	%			
Declared cooling c temperature Tj	apacity for pa	rt load at giver	n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	11.9	kW	Tj=+35°C	EERd	2.56	-			
Tj=+30°C	P _{dc}	9.4	kW	Tj=+30°C	EERd	3.93	-			
Tj=+25°C	P _{dc}	6.2	kW	Tj=+25°C	EERd	6.08	-			
Tj=+20°C	P _{dc}	3.2	kW	Tj=+20°C	EERd	7.40	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mo	des other than "active n	node"					
Off mode	POFF	0.015	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	Ρτο	0.063	kW	Standby mode	P _{SB}	0.015	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:			2.1			
Sound power level, indoors / outdoors	Lwa	45/70	dB	air flow rate, outdoor measured	-	6500	m³/h			
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-	-	1117/11			
Standard rating cor	ditions used	Low tempera	ature applicatio	n						
				ating Equipment Co. , L iao, Shunde, Foshan, C		20211 D.D. Ch	vina			

Model(s):		MHA-V12W/D2RN1								
Outdoor side heat exchanger of chiller:Indoor side heat exchanger chiller:Type:Driver of compressor:			Air to water Water							
										Compressor
			Electric moto							
			Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	11.4	kW	Seasonal space cooling energy efficiency	η _{s,c}	326	%			
Declared cooling capacity for part load at given temperature Tj			n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35℃	P _{dc}	11.4	kW	Tj=+35°C	EER₫	4.36	-			
Tj=+30°C	P _{dc}	8.4	kW	Tj=+30°C	EERd	7.32	-			
Tj=+25°C	P _{dc}	6.1	kW	Tj=+25°C	EERd	10.00	-			
Tj=+20°C	P _{dc}	4.6	kW	Tj=+20°C	EERd	13.54	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mo	des other than "active n	node"					
Off mode	Poff	0.015	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.063	kW	Standby mode	P _{SB}	0.015	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m³/h			
Sound power level, indoors / outdoors	Lwa	45/70	dB							
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or	-	-	m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger						
Standard rating cor	nditions used	Medium terr	perature applic	cation						
Contact details		GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China								

Model(s):		MHA-V14W/D2RN1								
Outdoor side heat exchanger of chiller:Indoor side heat exchanger chiller:Type:Driver of compressor:			Air to water Water							
										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	η _{s,c}	187	%			
Declared cooling capacity for part load at given temperature Tj			n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	12.8	kW	Tj=+35°C	EERd	2.38	-			
Tj=+30°C	P _{dc}	9.8	kW	Tj=+30°C	EERd	3.76	-			
Tj=+25°C	P _{dc}	6.6	kW	Tj=+25°C	EERd	5.91	-			
Tj=+20°C	P _{dc}	3.2	kW	Tj=+20°C	EERd	6.90	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mo	des other than "active n	node"					
Off mode	Poff	0.015	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.063	kW	Standby mode	P _{SB}	0.015	kW			
			Othe	er items						
Capacity control		variable		For air-to-water comfort chillers:	-	6500	m³/h			
Sound power level, indoors / outdoors	Lwa	45/72	dB	air flow rate, outdoor measured						
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-	-				
Standard rating cor	nditions used	Low tempera	ature applicatio	n						
Contact details		GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China								

Model(s):		MHA-V14W/D2RN1								
Outdoor side heat exchanger of chiller:Indoor side heat exchanger chiller:Type:Driver of compressor:			Air to water Water							
										Compressor
			Electric moto							
			Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	13.4	kW	Seasonal space cooling energy efficiency	η _{s,c}	306	%			
Declared cooling capacity for part load at given temperature Tj			n outdoor	Declared energy eff outdoor temperature		or part load at	l given			
Tj=+35°C	P _{dc}	13.4	kW	Tj=+35°C	EERd	4.00	-			
Tj=+30°C	P _{dc}	10.5	kW	Tj=+30°C	EER₫	6.45	-			
Tj=+25°C	P _{dc}	7.1	kW	Tj=+25°C	EER₫	9.40	-			
Tj=+20°C	P _{dc}	4.6	kW	Tj=+20°C	EERd	12.81	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mo	des other than "active n	node"		I			
Off mode	Poff	0.015	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.063	kW	Standby mode	P _{SB}	0.015	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m³/h			
Sound power level, indoors / outdoors	Lwa	45/72	dB							
Emissions of nitroger 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	-	-	m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)				111-7/11			
Standard rating cor	nditions used	Medium tem	perature applic	ation						
Contact details		GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China								

Model(s):		MHA-V16W/D2RN1								
Outdoor side heat exchanger of chiller:Indoor side heat exchanger chiller:Type:Driver of compressor:			Air to water Water							
										Compressor
			Electric moto							
			Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	13.0	kW	Seasonal space cooling energy efficiency	η _{s,c}	185	%			
Declared cooling capacity for part load at given temperature Tj			n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	13.0	kW	Tj=+35°C	EERd	2.31	-			
Tj=+30°C	P _{dc}	9.8	kW	Tj=+30°C	EERd	3.75	-			
Tj=+25℃	P _{dc}	6.7	kW	Tj=+25°C	EERd	5.81	-			
Tj=+20°C	P _{dc}	3.2	kW	Tj=+20°C	EERd	6.90	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mo	des other than "active n	node"					
Off mode	Poff	0.015	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.063	kW	Standby mode	P _{SB}	0.015	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers:	-	6500	m³/h			
Sound power level, indoors / outdoors	Lwa	45/72	dB	air flow rate, outdoor measured						
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or			m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger	-	-				
Standard rating cor	nditions used	Low tempera	ature applicatio	n						
Contact details		GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China								

Model(s):		MHA-V16W/D2RN1								
Outdoor side heat exchanger of chiller:Indoor side heat exchanger chiller:Type:Driver of compressor:			Air to water Water							
										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	η _{s,c}	306	%			
Declared cooling capacity for part load at given temperature Tj			n outdoor	Declared energy eff outdoor temperature		or part load at	given			
Tj=+35°C	P _{dc}	14.3	kW	Tj=+35°C	EERd	3.71	-			
Tj=+30°C	P _{dc}	10.6	kW	Tj=+30°C	EERd	6.43	-			
Tj=+25°C	P _{dc}	7.2	kW	Tj=+25°C	EERd	9.37	-			
Tj=+20°C	P _{dc}	4.5	kW	Tj=+20°C	EERd	12.70	-			
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-							
		Power cons	sumption in mod	des other than "active n	node"					
Off mode	Poff	0.015	kW	Crankcase heater mode	Рск	0.000	kW			
Thermosat-off mode	P _{TO}	0.063	kW	Standby mode	P _{SB}	0.015	kW			
			Othe	r items						
Capacity control		variable		For air-to-water comfort chillers: air flow rate, outdoor measured	-	6500	m³/h			
Sound power level, indoors / outdoors	Lwa	45/72	dB							
Emissions of nitroger oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or	-	-	m³/h			
GWP of the refrigerant	-	2088	kg CO _{2 eq} (100years)	water flow rate, outdoor side heat exchanger			1117/11			
Standard rating cor	nditions used	Medium terr	perature applic	ation						
Contact details		GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China								

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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。