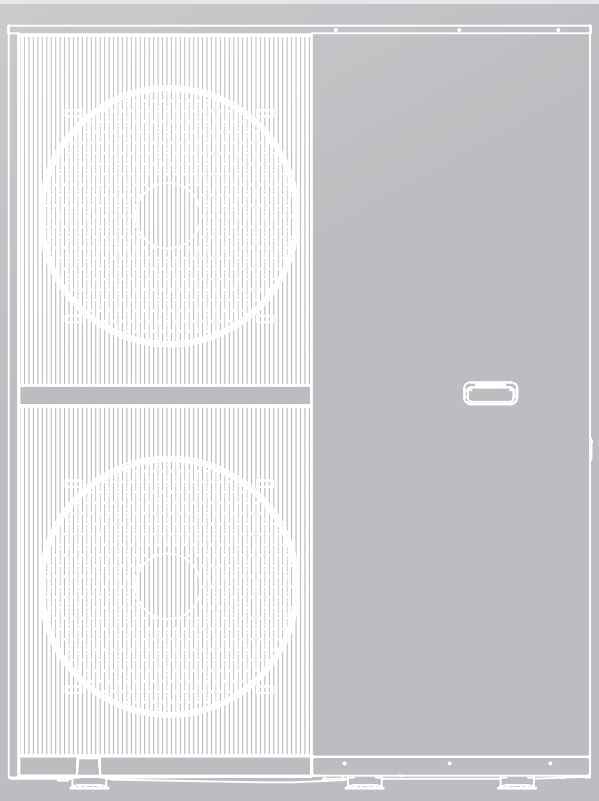
TECHNICAL DATA MANUAL

M-thermal Mono
ATW Heat Pump



IMPORTANT NOTE:

Thank you very much for purchasing our product,
Before using your unit , please read this manual carefully and keep it for future reference.

Product fiche 1

Heat pump space heater		unit	MHC-V26WD2RN7	MHC-V30WD2RN7	MHC-V35WD2RN7
Indoor unit sound power (*)		[dB(A)]	/	/	/
Outdoor unit sound power (*)		[dB(A)]	69	74	75
Capacity of the back-up heater integrated in the unit	Psup back-up heater	[kW]	0	0	0
off peak operation function integrated in Heat pump		Y/N	No	No	No
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	A+++
Space heating	Energy efficiency class 55°C(Medium temp. app.)	-	A+++	A++	A++
Average climate (Design temperature= –10°C)					
Space heating 35°C	Prated(declared heating capacity) @–10°C	[kW]	26	30	35
	Seasonal space heating efficiency(ηs)	[%]	194.9	193.8	176.3
	Annual energy consumption	[kWh]	10,856	12,600	16,131
Space heating 55°C	Prated(declared heating capacity) @–10°C	[kW]	26	30	35
	Seasonal space heating efficiency(ηs)	[%]	150.7	148.7	142.4
	Annual energy consumption	[kWh]	13984	16,346	19,899
Part load conditions space heating average climate low temperature application					
(A) condition (-7°C)	Pdh(declared heating capacity)	[kW]	24.41	26.39	27.79
	COPd (declared COP)	-	3.03	2.72	2.55
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(B) condition (2°C)	Pdh(declared heating capacity)	[kW]	14.36	16.65	18.47
	COPd (declared COP)	-	4.87	4.97	4.39
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(C) condition (7°C)	Pdh(declared heating capacity)	[kW]	9.15	10.27	12.06
	COPd (declared COP)	-	6.80	6.91	6.99
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(D) condition (12°C)	Pdh(declared heating capacity)	[kW]	6.87	7.26	7.59
	COPd (declared COP)	-	9.23	9.66	10.89
	Cdh(degradation coefficient)	-	0.9	0.9	0.9

Product fiche 2

Heat pump space heater		unit	MHC-V26WD2RN7	MHC-V30WD2RN7	MHC-V35WD2RN7
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	-10	-10	-10
	Pdh (declared heating capacity)	[kW]	26.54	30.31	35.65
	COPd (declared COP)	-	2.85	2.45	2.05
	WTOL (Heating water Operation Limit)	[°C]	85	85	85
(F) Tbivalent temperature	Tbiv	[°C]	-7	-7	-7
	Pdh (declared heating capacity)	[kW]	23.41	26.39	27.79
	COPd (declared COP)	-	3.03	2.72	2.55
Supplementary capacity at P_design	Psup (@Tdesignh:–10°C)	[kW]	0	0	0
Part load conditions space heating average climate medium temperature application					
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	23.257	27.36	30.66
	COPd (declared COP)	-	2.33	2.07	1.93
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	13.92	16.52	19.29
	COPd (declared COP)	-	3.68	3.72	3.54
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	9.49	10.74	12.5
	COPd (declared COP)	-	5.51	5.55	5.47
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	6.60	6.49	6.51
	COPd (declared COP)	-	6.25	7.09	7.28
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	-10	-10	-10
	Pdh (declared heating capacity)	[kW]	26.14	30.02	34.36
	COPd (declared COP)	-	1.98	1.89	1.79
	WTOL (Heating water Operation Limit)	[°C]	85	85	85
(F) Tbivalent temperature	Tbiv	[°C]	-7	-7	-7
	Pdh (declared heating capacity)	[kW]	23.257	27.36	30.66
	COPd (declared COP)	-	2.33	2.07	1.93
Supplementary capacity at P_design	Psup (@Tdesignh:–10°C)	[kW]	0	0	0.47

Product fiche 3

Heat pump space heater		unit	MHC-V26WD2RN7	MHC-V30WD2RN7	MHC-V35WD2RN7
Colder climate (Design temperature = –22°C)					
Space heating 35°C	Prated (declared heating capacity) @ –22°C	[kW]	25	28	34
	Seasonal space heating efficiency (ηs)	[%]	155.1	153.3	151.1
	Annual energy consumption	[kWh]	15,592	17,664	21,760
Space heating 55°C	Prated (declared heating capacity) @ –22°C	[kW]	25	28	33.5
	Seasonal space heating efficiency (ηs)	[%]	126.2	122.8	118.1
	Annual energy consumption	[kWh]	19,078	21,950	27,265
Part load conditions space heating colder climate low temperature application					
condition (-15°C)	Pdh (declared heating capacity)	[kW]	19.54	21.33	26.02
	COPd (declared COP)	-	2.63	2.56	2.29
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	14.98	15.88	18.56
	COPd (declared COP)	-	3.40	3.56	3.49
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	9.42	10.76	11.32
	COPd (declared COP)	-	4.55	4.57	4.62
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	6.49	6.07	7.57
	COPd (declared COP)	-	7.03	6.40	6.57
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	6.95	6.92	6.92
	COPd (declared COP)	-	7.64	7.11	7.11
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	-22	-22	-22
	Pdh (declared heating capacity)	[kW]	16.82	18.43	22.96
	COPd (declared COP)	-	2.17	2.13	1.93
	WTOL (Heating water Operation Limit)	[°C]	85	85	85
(F) Tbivalent temperature	Tbiv	[°C]	-15	-7	-7
	Pdh (declared heating capacity)	[kW]	19.54	15.88	18.56
	COPd (declared COP)	-	2.63	3.56	3.49
Supplementary capacity at P_design	Psup (@Tdesignh:–22°C)	[kW]	8.19	8.64	9.89

Product fiche 4

Heat pump space heater		unit	MHC-V26WD2RN7	MHC-V30WD2RN7	MHC-V35WD2RN7
Part load conditions space heating colder climate medium temperature application					
condition (-15°C)	Pdh (declared heating capacity)	[kW]	20.50	20.00	26.50
	COPd (declared COP)	-	2.09	2.07	1.90
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	15.14	16.54	18.34
	COPd (declared COP)	-	2.64	2.50	2.33
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	9.28	10.71	11.80
	COPd (declared COP)	-	3.83	3.76	3.71
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	6.28	6.69	11.80
	COPd (declared COP)	-	5.14	5.52	3.71
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	6.63	6.84	6.84
	COPd (declared COP)	-	6.95	6.75	6.75
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	-22	-22	-22
	Pdh (declared heating capacity)	[kW]	16.61	19.95	24.34
	COPd (declared COP)	-	1.71	1.70	1.60
	WTOL (Heating water Operation Limit)	[°C]	85	85	85
(F) Tbivalent temperature	Tbiv	[°C]	-15	-7	-7
	Pdh (declared heating capacity)	[kW]	15.14	16.54	18.34
	COPd (declared COP)	-	2.64	2.5	2.33
Supplementary capacity at P_design	Psup (@Tdesignh:–22°C)	[kW]	7.39	7.06	7.94
Warmer climate (Design temperature =2°C)					
Space heating 35°C	Prated (declared heating capacity) @ 2°C	[kW]	26	30	35
	Seasonal space heating efficiency (ηs)	[%]	259.8	247.5	240.3
	Annual energy consumption	[kWh]	5,287	6,399	7,687
Space heating 55°C	Prated (declared heating capacity) @ 2°C	[kW]	26	30	35
	Seasonal space heating efficiency (ηs)	[%]	194.8	193.1	187.1
	Annual energy consumption	[kWh]	7,025	8,177	9,838

Product fiche 5

Heat pump space heater		unit	MHC-V26WD2RN7	MHC-V30WD2RN7	MHC-V35WD2RN7
Part load conditions space heating warmer climate low temperature application					
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	26.13	30.21	33.92
	COPd (declared COP)	-	3.66	3.19	2.56
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	16.70	19.09	22.44
	COPd (declared COP)	-	5.78	5.44	5.42
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	7.67	8.99	10.36
	COPd (declared COP)	-	8.52	8.42	8.43
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	2	2	2
	Pdh (declared heating capacity)	[kW]	26.13	30.21	33.92
	COPd (declared COP)	-	3.66	3.19	2.56
	WTOL (Heating water Operation Limit)	[°C]	85	85	85
(F) Tbivalent temperature	Tbiv	[°C]	7	7	7
	Pdh (declared heating capacity)	[kW]	16.70	19.09	22.44
	COPd (declared COP)	-	5.78	5.44	5.42
Supplementary capacity at P_design	Psup (@Tdesignh:2°C)	[kW]	0	0	1.08
Part load conditions space heating warmer climate medium temperature application					
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	26.50	29.76	33.06
	COPd (declared COP)	-	2.53	2.44	2.31
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	16.65	19.05	22.45
	COPd (declared COP)	-	4.11	4.03	3.98
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	7.76	9.14	10.06
	COPd (declared COP)	-	6.65	6.70	6.62
	Cdh(degradation coefficient)	-	0.9	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	2	2	2
	Pdh (declared heating capacity)	[kW]	26.50	29.76	33.06
	COPd (declared COP)	-	2.53	2.44	2.31
	WTOL (Heating water Operation Limit)	[°C]	85	85	85

Product fiche 6

Heat pump space heater		unit	MHC-V26WD2RN7	MHC-V30WD2RN7	MHC-V35WD2RN7
(F) Tbivalent temperature	Tbiv	[°C]	7	7	7
	Pdh (declared heating capacity)	[kW]	16.65	19.05	22.45
	COPd (declared COP)	-	4.11	4.03	3.98
Supplementary capacity at P_design	Psup (@Tdesignh:2°C)	[kW]	0	0.24	1.94
Ecodesign technical data					
Product description	Air-to-water heat pump	Y/N	Yes	Yes	Yes
	Water-to-water heat pump	Y/N	No	No	No
	Brine-to-water heat pump	Y/N	No	No	No
	Low-temperature heat pump	Y/N	No	No	No
	Equipped with a supplementary heater	Y/N	No	No	No
	Heat pump combination heater	Y/N	No	No	No
Air to water unit	Rated airflow (outdoor)	[m^3/h]	10,500	10,500	10,500
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	[m^3/h]	/	/	/
Other	Capacity control	-	Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.014	0.014	0.014
	Pto (Power consumption Thermostat off mode)	[kW]	0.013	0.013	0.013
	Psb (Power consumption Standby mode)	[kW]	0.014	0.014	0.014
	PCK (Power crankcase heater model)	[kW]	0	0	0
	Qelec (Daily electricity consumption)	[kWh]	/	/	/
	Qfuel (Daily fuel consumption)	[kWh]	/	/	/

Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

Product fiche data according to energy label directive 2010/30/EC regulation (EU) 811/2013.

Technical parameters

Model(s):	MHC-V26WD2RN7
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	26	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	23.3	kW
Tj = 2℃	Pdh	13.9	kW
Tj = 7℃	Pdh	9.5	kW
Tj = 12℃	Pdh	6.6	kW
Tj = bivalent temperature	Pdh	23.3	kW
Tj = operating limit	Pdh	26.1	kW
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW
Bivalent temperature	T_{biv}	0.7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.014	kW
Standby mode	P_{sb}	0.013	kW
Thermostat-off mode	P_{to}	0.014	kW
Crankcase heater mode	P_{ck}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	150.7	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	2.33	-
Tj = 2℃	COPd	3.68	-
Tj = 7℃	COPd	5.51	-
Tj = 12℃	COPd	6.25	-
Tj = bivalent temperature	COPd	2.33	-
Tj = operating limit	COPd	1.98	-
For air-to-water heat pumps: Tj = -15℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	85	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/69	dB
Annual energy consumption	Q_{HE}	13,981	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	10,500	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q_{clec}	-	kWh
Annual electricity consumption	AEC	-	kWh

Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q_{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

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

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MHC-V26WD2RN7
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	25	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	15.1	kW
Tj = 2℃	Pdh	9.3	kW
Tj = 7℃	Pdh	6.3	kW
Tj = 12℃	Pdh	6.6	kW
Tj = bivalent temperature	Pdh	20.5	kW
Tj = operating limit	Pdh	17.6	kW
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.014	kW
Standby mode	P_{sb}	0.013	kW
Thermostat-off mode	P_{to}	0.014	kW
Crankcase heater mode	P_{ck}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	126.2	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	2.64	-
Tj = 2℃	COPd	3.83	-
Tj = 7℃	COPd	5.14	-
Tj = 12℃	COPd	6.95	-
Tj = bivalent temperature	COPd	2.09	-
Tj = operating limit	COPd	1.71	-
For air-to-water heat pumps: Tj = -15℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	85	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	7.93	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/69	dB
Annual energy consumption	Q_{HE}	19,078	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	10,500	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

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

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MHC-V26WD2RN7
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	26	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	26.5	kW
Tj = 2℃	Pdh	16.7	kW
Tj = 7℃	Pdh	7.8	kW
Tj = 12℃	Pdh	16.7	kW
Tj = bivalent temperature	Pdh	16.7	kW
Tj = operating limit	Pdh	26.5	kW
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW
Bivalent temperature	T_{biv}	7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.014	kW
Standby mode	P_{sb}	0.013	kW
Thermostat-off mode	P_{to}	0.014	kW
Crankcase heater mode	P_{ck}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	194.8	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	-	-
Tj = 2℃	COPd	2.53	-
Tj = 7℃	COPd	4.11	-
Tj = 12℃	COPd	6.65	-
Tj = bivalent temperature	COPd	4.11	-
Tj = operating limit	COPd	2.53	-
For air-to-water heat pumps: Tj = -15℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	85	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	0	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/69	dB
Annual energy consumption	Q_{HE}	7,025	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	10,500	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

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

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MHC-V30WD2RN7
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	30	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	27.5	kW
Tj = 2℃	Pdh	16.6	kW
Tj = 7℃	Pdh	10.8	kW
Tj = 12℃	Pdh	6.5	kW
Tj = bivalent temperature	Pdh	27.5	kW
Tj = operating limit	Pdh	30.1	kW
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.014	kW
Standby mode	P_{sb}	0.013	kW
Thermostat-off mode	P_{to}	0.014	kW
Crankcase heater mode	P_{ck}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	148.7	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	2.06	-
Tj = 2℃	COPd	3.70	-
Tj = 7℃	COPd	5.51	-
Tj = 12℃	COPd	7.00	-
Tj = bivalent temperature	COPd	2.06	-
Tj = operating limit	COPd	1.88	-
For air-to-water heat pumps: Tj = -15℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	85	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	0	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/74	dB
Annual energy consumption	Q_{HE}	16,346	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	10,500	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q_{clec}	-	kWh
Annual electricity consumption	AEC	-	kWh

Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q_{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

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

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MHC-V30WD2RN7
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	28	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	16.5	kW
Tj = 2℃	Pdh	10.7	kW
Tj = 7℃	Pdh	6.7	kW
Tj = 12℃	Pdh	6.8	kW
Tj = bivalent temperature	Pdh	16.5	kW
Tj = operating limit	Pdh	19.9	kW
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.014	kW
Standby mode	P_{sb}	0.013	kW
Thermostat-off mode	P_{to}	0.014	kW
Crankcase heater mode	P_{ck}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	122.8	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	2.50	-
Tj = 2℃	COPd	3.76	-
Tj = 7℃	COPd	5.52	-
Tj = 12℃	COPd	6.75	-
Tj = bivalent temperature	COPd	2.50	-
Tj = operating limit	COPd	1.70	-
For air-to-water heat pumps: Tj = -15℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	85	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	7.06	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/74	dB
Annual energy consumption	Q_{HE}	21,950	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	10,500	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q_{clec}	-	kWh
Annual electricity consumption	AEC	-	kWh

Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q_{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

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

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MHC-V30WD2RN7
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	30	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	-	kW
Tj = 2℃	Pdh	29.8	kW
Tj = 7℃	Pdh	19.1	kW
Tj = 12℃	Pdh	9.1	kW
Tj = bivalent temperature	Pdh	19.1	kW
Tj = operating limit	Pdh	29.8	kW
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW
Bivalent temperature	T_{biv}	7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.014	kW
Standby mode	P_{sb}	0.013	kW
Thermostat-off mode	P_{to}	0.014	kW
Crankcase heater mode	P_{ck}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	193.1	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	-	-
Tj = 2℃	COPd	2.44	-
Tj = 7℃	COPd	4.03	-
Tj = 12℃	COPd	6.70	-
Tj = bivalent temperature	COPd	4.03	-
Tj = operating limit	COPd	2.44	-
For air-to-water heat pumps: Tj = -15℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	85	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	0.24	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/74	dB
Annual energy consumption	Q_{HE}	8,177	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	10,500	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q_{clec}	-	kWh
Annual electricity consumption	AEC	-	kWh

Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q_{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

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

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MHC-V35WD2RN7
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	35	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	30.8	kW
Tj = 2℃	Pdh	19.4	kW
Tj = 7℃	Pdh	12.0	kW
Tj = 12℃	Pdh	5.0	kW
Tj = bivalent temperature	Pdh	6.5	kW
Tj = operating limit	Pdh	30.8	kW
For air-to-water heat pumps: Tj = -15℃	Pdh	34.5	kW
Bivalent temperature	T_{biv}	-7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.014	kW
Standby mode	P_{sb}	0.013	kW
Thermostat-off mode	P_{to}	0.014	kW
Crankcase heater mode	P_{ck}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	142.4	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	1.92	-
Tj = 2℃	COPd	3.51	-
Tj = 7℃	COPd	5.43	-
Tj = 12℃	COPd	7.18	-
Tj = bivalent temperature	COPd	1.92	-
Tj = operating limit	COPd	1.79	-
For air-to-water heat pumps: Tj = -15℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	85	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	0.47	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/75	dB
Annual energy consumption	Q_{HE}	19,899	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	10,500	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q_{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)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MHC-V35WD2RN7
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	33.5	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	18.3	kW
Tj = 2℃	Pdh	11.8	kW
Tj = 7℃	Pdh	8.2	kW
Tj = 12℃	Pdh	6.8	kW
Tj = bivalent temperature	Pdh	18.3	kW
Tj = operating limit	Pdh	24.3	kW
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW
Bivalent temperature	T_{biv}	-7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.014	kW
Standby mode	P_{sb}	0.013	kW
Thermostat-off mode	P_{to}	0.014	kW
Crankcase heater mode	P_{ck}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	118.1	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	2.33	-
Tj = 2℃	COPd	3.71	-
Tj = 7℃	COPd	5.49	-
Tj = 12℃	COPd	6.75	-
Tj = bivalent temperature	COPd	2.33	-
Tj = operating limit	COPd	1.60	-
For air-to-water heat pumps: Tj = -15℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	85	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	7.94	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/75	dB
Annual energy consumption	Q_{HE}	27,265	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	10,500	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q_{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)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MHC-V35WD2RN7
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit
Rated heat output (*)	Prated	35	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	Pdh	-	kW
Tj = 2℃	Pdh	33.1	kW
Tj = 7℃	Pdh	22.4	kW
Tj = 12℃	Pdh	10.2	kW
Tj = bivalent temperature	Pdh	22.4	kW
Tj = operating limit	Pdh	33.1	kW
For air-to-water heat pumps: Tj = -15℃	Pdh	-	kW
Bivalent temperature	T_{biv}	7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.014	kW
Standby mode	P_{sb}	0.013	kW
Thermostat-off mode	P_{to}	0.014	kW
Crankcase heater mode	P_{ck}	0.000	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	187.1	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7℃	COPd	-	-
Tj = 2℃	COPd	2.31	-
Tj = 7℃	COPd	3.98	-
Tj = 12℃	COPd	6.62	-
Tj = bivalent temperature	COPd	3.98	-
Tj = operating limit	COPd	2.31	-
For air-to-water heat pumps: Tj = -15℃	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	85	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	1.94	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/75	dB
Annual energy consumption	Q_{HE}	9,838	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	10,500	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q_{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)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Information requirements for comfort chillers

Model(s):	MHC-V26WD2RN7
Outdoor side heat exchanger of chiller:	Air to water
Indoor side heat exchanger chiller:	Water
Type:	Compressor driven vapour compression
Driver of compressor:	Electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	26	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	205.3	%
Declared cooling capacity for part load at given outdoor temperature Tj				Declared energy efficiency ratio for part load at given outdoor temperature Tj			
Tj=+35°C	P_{dc}	26.0	kW	Tj=+35°C	EER_d	3.10	-
Tj=+30°C	P_{dc}	19.5	kW	Tj=+30°C	EER_d	4.19	-
Tj=+25°C	P_{dc}	12.2	kW	Tj=+25°C	EER_d	5.85	-
Tj=+20°C	P_{dc}	5.7	kW	Tj=+20°C	EER_d	7.92	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.017	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	10500	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/69	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	3	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						

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

Information requirements for comfort chillers

Model(s):	MHC-V26WD2RN7
Outdoor side heat exchanger of chiller:	Air to water
Indoor side heat exchanger chiller:	Water
Type:	Compressor driven vapour compression
Driver of compressor:	Electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	26	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	283.7	%
Declared cooling capacity for part load at given outdoor temperature Tj				Declared energy efficiency ratio for part load at given outdoor temperature Tj			
Tj=+35°C	P_{dc}	26.0	kW	Tj=+35°C	EER_d	4.65	-
Tj=+30°C	P_{dc}	19.5	kW	Tj=+30°C	EER_d	6.09	-
Tj=+25°C	P_{dc}	12.4	kW	Tj=+25°C	EER_d	8.02	-
Tj=+20°C	P_{dc}	6.4	kW	Tj=+20°C	EER_d	10.52	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.017	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	10500	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/69	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	3	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						

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

Information requirements for comfort chillers

Model(s):	MHC-V30WD2RN7
Outdoor side heat exchanger of chiller:	Air to water
Indoor side heat exchanger chiller:	Water
Type:	Compressor driven vapour compression
Driver of compressor:	Electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	30	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	196.8	%
Declared cooling capacity for part load at given outdoor temperature Tj				Declared energy efficiency ratio for part load at given outdoor temperature Tj			
Tj=+35°C	P_{dc}	29.9	kW	Tj=+35°C	EER_d	2.88	-
Tj=+30°C	P_{dc}	22.3	kW	Tj=+30°C	EER_d	3.97	-
Tj=+25°C	P_{dc}	14.3	kW	Tj=+25°C	EER_d	5.38	-
Tj=+20°C	P_{dc}	6.7	kW	Tj=+20°C	EER_d	8.56	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.017	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	10500	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/74	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	3	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						

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

Information requirements for comfort chillers

Model(s):	MHC-V30WD2RN7
Outdoor side heat exchanger of chiller:	Air to water
Indoor side heat exchanger chiller:	Water
Type:	Compressor driven vapour compression
Driver of compressor:	Electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	30	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	268.9	%
Declared cooling capacity for part load at given outdoor temperature Tj				Declared energy efficiency ratio for part load at given outdoor temperature Tj			
Tj=+35˚C	P_{dc}	30.3	kW	Tj=+35˚C	EER_d	4.28	-
Tj=+30˚C	P_{dc}	22.4	kW	Tj=+30˚C	EER_d	5.51	-
Tj=+25˚C	P_{dc}	14.4	kW	Tj=+25˚C	EER_d	7.40	-
Tj=+20˚C	P_{dc}	6.4	kW	Tj=+20˚C	EER_d	11.27	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.017	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	10500	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/74	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	3	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						

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

Information requirements for comfort chillers

Model(s):	MHC-V30WD2RN7
Outdoor side heat exchanger of chiller:	Air to water
Indoor side heat exchanger chiller:	Water
Type:	Compressor driven vapour compression
Driver of compressor:	Electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	32	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	190.0	%
Declared cooling capacity for part load at given outdoor temperature Tj				Declared energy efficiency ratio for part load at given outdoor temperature Tj			
Tj=+35°C	P_{dc}	31.6	kW	Tj=+35°C	EER_d	2.64	-
Tj=+30°C	P_{dc}	23.4	kW	Tj=+30°C	EER_d	3.93	-
Tj=+25°C	P_{dc}	14.9	kW	Tj=+25°C	EER_d	5.39	-
Tj=+20°C	P_{dc}	6.4	kW	Tj=+20°C	EER_d	7.69	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.017	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	10500	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/75	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	3	kg $CO_{2\ eq}$ (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						

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

Information requirements for comfort chillers

Model(s):	MHC-V30WD2RN7
Outdoor side heat exchanger of chiller:	Air to water
Indoor side heat exchanger chiller:	Water
Type:	Compressor driven vapour compression
Driver of compressor:	Electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	35	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	254.2	%
Declared cooling capacity for part load at given outdoor temperature Tj				Declared energy efficiency ratio for part load at given outdoor temperature Tj			
Tj=+35°C	P_{dc}	35.1	kW	Tj=+35°C	EER_d	3.84	-
Tj=+30°C	P_{dc}	26.3	kW	Tj=+30°C	EER_d	5.37	-
Tj=+25°C	P_{dc}	16.7	kW	Tj=+25°C	EER_d	70.4	-
Tj=+20°C	P_{dc}	7.4	kW	Tj=+20°C	EER_d	10.61	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.017	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	10500	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/75	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	3	kg $CO_{2\ eq}$ (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						

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

Condition(℃)	Model(s):	Capacity /W	Power input /W	COP
Ambient Temperature: 7/6 Water temperature: 30/35	MHC-V26WD2RN7	26,000	5,450	4.77
	MHC-V30WD2RN7	30,000	6,670	4.50
	MHC-V35WD2RN7	35,000	8,400	4.17
Ambient Temperature: 7/6 Water temperature: 40/45	MHC-V26WD2RN7	26,000	6,820	3.81
	MHC-V30WD2RN7	30,000	8,260	3.63
	MHC-V35WD2RN7	35,000	10,050	3.48
Ambient Temperature: 7/6 Water temperature: 47/55	MHC-V26WD2RN7	26,000	7,850	3.31
	MHC-V30WD2RN7	30,000	9,570	3.13
	MHC-V35WD2RN7	35,000	11,750	2.98
Ambient Temperature: 7/6 Water temperature: 55/65	MHC-V26WD2RN7	26,000	9,860	3.64
	MHC-V30WD2RN7	30,000	11,850	2.53
	MHC-V35WD2RN7	35,000	14,600	2.40
Ambient Temperature: 2/1 Water temperature: 30/35	MHC-V26WD2RN7	23,500	6,350	3.70
	MHC-V30WD2RN7	26,800	7,620	3.52
	MHC-V35WD2RN7	30,400	9,520	3.19
Ambient Temperature: 2/1 Water temperature: 40/45	MHC-V26WD2RN7	22,600	7,180	3.15
	MHC-V30WD2RN7	26,100	8,380	3.11
	MHC-V35WD2RN7	30,000	11,200	2.68
Ambient Temperature: 2/1 Water temperature: 47/55	MHC-V26WD2RN7	21,950	8,100	2.71
	MHC-V30WD2RN7	25,350	9,650	2.63
	MHC-V35WD2RN7	29,600	12,060	2.45
Ambient Temperature: -7/-8 Water temperature: 30/35	MHC-V26WD2RN7	21,000	6,930	3.03
	MHC-V30WD2RN7	24,000	8,380	2.86
	MHC-V35WD2RN7	28,200	11,100	2.54
Ambient Temperature: -7/-8 Water temperature: 40/45	MHC-V26WD2RN7	20,100	7,530	2.67
	MHC-V30WD2RN7	23,100	9,590	2.41
	MHC-V35WD2RN7	26,900	12,000	2.24
Ambient Temperature: -7/-8 Water temperature: 47/55	MHC-V26WD2RN7	18,800	8,170	2.30
	MHC-V30WD2RN7	21,300	9,600	2.22
	MHC-V35WD2RN7	24,800	11,900	2.08
Ambient Temperature: 35/24 Water temperature: 23/18	MHC-V26WD2RN7	26,000	5,600	4.64
	MHC-V30WD2RN7	30,000	6,800	4.41
	MHC-V35WD2RN7	35,000	8,500	4.12
Ambient Temperature: 35/24 Water temperature: 12/7	MHC-V26WD2RN7	26,000	8,400	3.10
	MHC-V30WD2RN7	30,000	10,700	2.80
	MHC-V35WD2RN7	32,000	11,980	2.67

NOTE

NOTE

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版本更换明细（本页不出菲林，仅作为电子文档说明）

印刷技术要求

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其他	

更改记录表（仅做说明用，不做菲林）

版本升级	更改人	更改日期	更改主要内容	更改页码 印刷页（或默认页码）
A-B	朱志锦	2024. 03. 13		整本