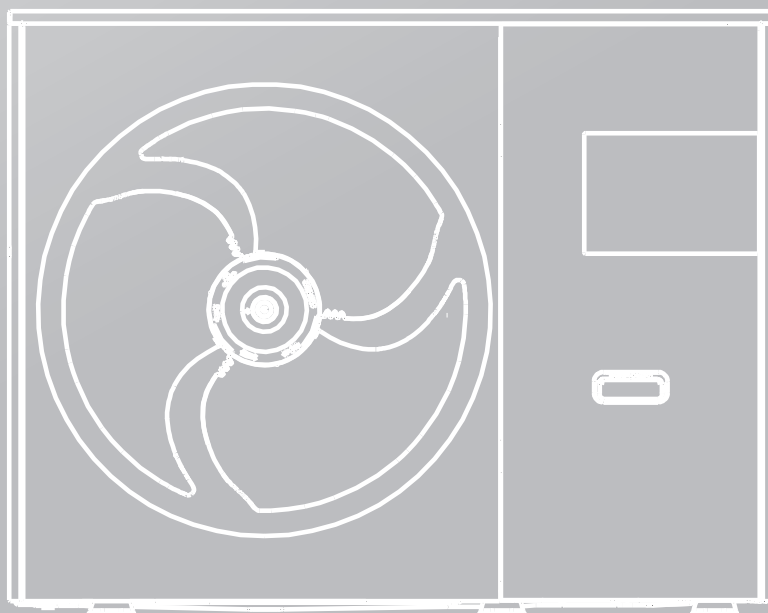


TECHNICAL DATA MANUAL

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-V18WD2RN7	MHC-V22WD2RN7
Indoor unit sound power (*)		[dB(A)]	/	/
Outdoor unit sound power (*)		[dB(A)]	64.0	64.0
Capacity of the back-up heater integrated in the unit	Psup back-up heater	[kW]	0	0
off peak operation function integrated in Heat pump		Y/N	No	No
Space heating	Energy efficiency class 35 °C (Low temp. app.)	-	A+++	A+++
Space heating	Energy efficiency class 55 °C (Medium temp. app.)	-	A++	A++
Average climate (Design temperature= -10°C)				
Space heating 35 °C	Prated(declared heating capacity) @-10 °C	[kW]	18	22
	Seasonal space heating efficiency(ηs)	[%]	187.0	181.1
	Annual energy consumption	[kWh]	7 723	9 804
Space heating 55 °C	Prated(declared heating capacity) @-10 °C	[kW]	18	22
	Seasonal space heating efficiency(ηs)	[%]	148.0	146.9
	Annual energy consumption	[kWh]	9 884	11 997
Part load conditions space heating average climate low temperature application				
(A) condition (-7 °C)	Pdh(declared heating capacity)	[kW]	16.69	19.19
	COPd (declared COP)	-	2.99	2.58
	Cdh(degradation coefficient)	-	0.9	0.9
(B) condition (2 °C)	Pdh(declared heating capacity)	[kW]	10.32	12.64
	COPd (declared COP)	-	4.44	4.36
	Cdh(degradation coefficient)	-	0.9	0.9
(C) condition (7 °C)	Pdh(declared heating capacity)	[kW]	6.27	7.68
	COPd (declared COP)	-	6.94	6.95
	Cdh(degradation coefficient)	-	0.9	0.9
(D) condition (12 °C)	Pdh(declared heating capacity)	[kW]	3.94	3.92
	COPd (declared COP)	-	8.94	9.02
	Cdh(degradation coefficient)	-	0.9	0.9

Product fiche 2

Heat pump space heater		unit	MHC-V18WD2RN7	MHC-V22WD2RN7
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	-10	-10
	Pdh (declared heating capacity)	[kW]	18.17	19.54
	COPd (declared COP)	-	2.51	2.50
	WTOL (Heating water Operation Limit)	[°C]	85	85
(F) Tbivalent temperature	Tbiv	[°C]	-7	-7
	Pdh (declared heating capacity)	[kW]	16.69	19.19
	COPd (declared COP)	-	2.99	2.58
Supplementary capacity at P_design	Psup (@Tdesignh:-10°C)	[kW]	0	2.46
Part load conditions space heating average climate medium temperature application				
(A) condition (-7 °C)	Pdh (declared heating capacity)	[kW]	15.73	19.13
	COPd (declared COP)	-	2.38	2.30
	Cdh(degradation coefficient)	-	0.9	0.9
(B) condition (2 °C)	Pdh (declared heating capacity)	[kW]	10.13	11.95
	COPd (declared COP)	-	3.59	3.58
	Cdh(degradation coefficient)	-	0.9	0.9
(C) condition (7 °C)	Pdh (declared heating capacity)	[kW]	6.54	7.73
	COPd (declared COP)	-	5.21	5.39
	Cdh(degradation coefficient)	-	0.9	0.9
(D) condition (12 °C)	Pdh (declared heating capacity)	[kW]	6.55	6.56
	COPd (declared COP)	-	6.69	6.84
	Cdh(degradation coefficient)	-	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	-10	-10
	Pdh (declared heating capacity)	[kW]	19.67	19.67
	COPd (declared COP)	-	2.09	2.09
	WTOL (Heating water Operation Limit)	[°C]	85	85
(F) Tbivalent temperature	Tbiv	[°C]	-7	-7
	Pdh (declared heating capacity)	[kW]	15.73	19.13
	COPd (declared COP)	-	2.38	2.30
Supplementary capacity at P_design	Psup (@Tdesignh:-10°C)	[kW]	0	2.33

Product fiche 3

Heat pump space heater		unit	MHC-V18WD2RN7	MHC-V22WD2RN7
Colder climate (Design temperature = -22 °C)				
Space heating 35 °C	Prated (declared heating capacity) @ -22 °C	[kW]	18	22
	Seasonal space heating efficiency (ηs)	[%]	163.6	159.2
	Annual energy consumption	[kWh]	10 656	13 372
Space heating 55 °C	Prated (declared heating capacity) @ -22 °C	[kW]	18	22
	Seasonal space heating efficiency (ηs)	[%]	123.9	123.3
	Annual energy consumption	[kWh]	13 991	17 181
Part load conditions space heating colder climate low temperature application				
condition (-15 °C)	Pdh (declared heating capacity)	[kW]	17.55	17.55
	COPd (declared COP)	-	2.33	2.33
	Cdh(degradation coefficient)	-	0.9	0.9
(A) condition (-7 °C)	Pdh (declared heating capacity)	[kW]	11.06	13.84
	COPd (declared COP)	-	3.24	3.16
	Cdh(degradation coefficient)	-	0.9	0.9
(B) condition (2 °C)	Pdh (declared heating capacity)	[kW]	7.10	8.30
	COPd (declared COP)	-	5.24	5.02
	Cdh(degradation coefficient)	-	0.9	0.9
(C) condition (7 °C)	Pdh (declared heating capacity)	[kW]	4.16	5.51
	COPd (declared COP)	-	6.93	7.41
	Cdh(degradation coefficient)	-	0.9	0.9
(D) condition (12 °C)	Pdh (declared heating capacity)	[kW]	3.85	3.86
	COPd (declared COP)	-	7.47	7.56
	Cdh(degradation coefficient)	-	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	-22	-22
	Pdh (declared heating capacity)	[kW]	16.51	16.51
	COPd (declared COP)	-	2.26	2.26
	WTOL (Heating water Operation Limit)	[°C]	85	85
(F) Tbivalent temperature	Tbiv	[°C]	-15	-15
	Pdh (declared heating capacity)	[kW]	17.55	17.55
	COPd (declared COP)	-	2.33	2.33
Supplementary capacity at P _{design}	Psup (@Tdesignh:-22°C)	[kW]	1.49	5.49

Product fiche 4

Heat pump space heater		unit	MHC-V18WD2RN7	MHC-V22WD2RN7
Part load conditions space heating colder climate medium temperature application				
condition (-15 °C)	Pdh (declared heating capacity)	[kW]	18.49	18.49
	COPd (declared COP)	-	2.06	2.06
	Cdh(degradation coefficient)	-	0.9	0.9
(A) condition (-7 °C)	Pdh (declared heating capacity)	[kW]	11.01	13.59
	COPd (declared COP)	-	2.66	2.59
	Cdh(degradation coefficient)	-	0.9	0.9
(B) condition (2 °C)	Pdh (declared heating capacity)	[kW]	6.74	8.15
	COPd (declared COP)	-	3.57	3.59
	Cdh(degradation coefficient)	-	0.9	0.9
(C) condition (7 °C)	Pdh (declared heating capacity)	[kW]	5.56	5.56
	COPd (declared COP)	-	5.47	5.64
	Cdh(degradation coefficient)	-	0.9	0.9
(D) condition (12 °C)	Pdh (declared heating capacity)	[kW]	5.64	5.64
	COPd (declared COP)	-	6.85	6.93
	Cdh(degradation coefficient)	-	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	-22	-22
	Pdh (declared heating capacity)	[kW]	15.51	15.51
	COPd (declared COP)	-	1.69	1.69
	WTOL (Heating water Operation Limit)	[°C]	85	85
(F) Tbivalent temperature	Tbiv	[°C]	-15	-15
	Pdh (declared heating capacity)	[kW]	18.49	18.49
	COPd (declared COP)	-	2.06	2.06
Supplementary capacity at P_design	Psup (@Tdesignh:-22°C)	[kW]	2.49	6.49
Warmer climate (Design temperature =2°C)				
Space heating 35 °C	Prated (declared heating capacity) @ 2°C	[kW]	18	22
	Seasonal space heating efficiency (ηs)	[%]	250.8	248.1
	Annual energy consumption	[kWh]	3 790	4 682
Space heating 55 °C	Prated (declared heating capacity) @ 2°C	[kW]	18	22
	Seasonal space heating efficiency (ηs)	[%]	184.3	181.4
	Annual energy consumption	[kWh]	5 134	6 377

Product fiche 5

Heat pump space heater		unit	MHC-V18WD2RN7	MHC-V22WD2RN7
Part load conditions space heating warmer climate low temperature application				
(B) condition (2 °C)	Pdh (declared heating capacity)	[kW]	17.86	21.66
	COPd (declared COP)	-	3.40	2.85
	Cdh(degradation coefficient)	-	0.9	0.9
(C) condition (7 °C)	Pdh (declared heating capacity)	[kW]	11.78	14.21
	COPd (declared COP)	-	5.39	5.29
	Cdh(degradation coefficient)	-	0.9	0.9
(D) condition (12 °C)	Pdh (declared heating capacity)	[kW]	5.54	6.84
	COPd (declared COP)	-	8.63	8.86
	Cdh(degradation coefficient)	-	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	2	2
	Pdh (declared heating capacity)	[kW]	17.86	21.66
	COPd (declared COP)	-	3.40	2.85
	WTOL (Heating water Operation Limit)	[°C]	85	85
(F) Tbivalent temperature	Tbiv	[°C]	7	7
	Pdh (declared heating capacity)	[kW]	11.78	14.21
	COPd (declared COP)	-	5.39	5.29
Supplementary capacity at P _{design}	Psup (@Tdesignh:2 °C)	[kW]	0.14	0.34
Part load conditions space heating warmer climate medium temperature application				
(B) condition (2 °C)	Pdh (declared heating capacity)	[kW]	18.52	21.64
	COPd (declared COP)	-	2.43	2.35
	Cdh(degradation coefficient)	-	0.9	0.9
(C) condition (7 °C)	Pdh (declared heating capacity)	[kW]	11.86	14.30
	COPd (declared COP)	-	4.02	3.97
	Cdh(degradation coefficient)	-	0.9	0.9
(D) condition (12 °C)	Pdh (declared heating capacity)	[kW]	7.08	7.03
	COPd (declared COP)	-	6.44	6.19
	Cdh(degradation coefficient)	-	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	2	2
	Pdh (declared heating capacity)	[kW]	18.52	21.64
	COPd (declared COP)	-	2.43	2.35
	WTOL (Heating water Operation Limit)	[°C]	85	85

Product fiche 6

Heat pump space heater		unit	MHC-V18WD2RN7	MHC-V22WD2RN7
(F) Tbivalent temperature	Tbiv	[°C]	7	7
	Pdh (declared heating capacity)	[kW]	11.86	14.30
	COPd (declared COP)	-	4.02	3.97
Supplementary capacity at P_design	Psup (@Tdesignh:2 °C)	[kW]	0	0.36
Ecodesign technical data				
Product description	Air-to-water heat pump	Y/N	Yes	Yes
	Water-to-water heat pump	Y/N	No	No
	Brine-to-water heat pump	Y/N	No	No
	Low-temperature heat pump	Y/N	No	No
	Equipped with a supplementary heater	Y/N	No	No
	Heat pump combination heater	Y/N	No	No
Air to water unit	Rated airflow (outdoor)	[m³/h]	7 200	7 200
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	[m³/h]	/	/
Other	Capacity control	-	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.013	0.013
	Pto (Power consumption Thermostat off mode)	[kW]	0.132	0.132
	Psb (Power consumption Standby mode)	[kW]	0.013	0.013
	PCK (Power crankcase heater model)	[kW]	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-V18WD2RN7													
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 low-temperature application.															
Item				Symbol				Value		Unit					
Rated heat output (*)		Prated		18		kW									
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj								Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj							
Tj = -7 °C		Pdh		16.7		kW		Tj = -7 °C		COPd		2.99		-	
Tj = 2 °C		Pdh		10.3		kW		Tj = 2 °C		COPd		4.44		-	
Tj = 7 °C		Pdh		6.3		kW		Tj = 7 °C		COPd		6.94		-	
Tj = 12 °C		Pdh		3.9		kW		Tj = 12 °C		COPd		8.94		-	
Tj = bivalent temperature		Pdh		16.7		kW		Tj = bivalent temperature		COPd		2.99		-	
Tj = operating limit		Pdh		18.2		kW		Tj = operating limit		COPd		2.51		-	
For air-to-water heat pumps: Tj = -15 °C		Pdh		-		kW		For air-to-water heat pumps: Tj = -15 °C		COPd		-		-	
Bivalent temperature		Tbiv		-7		°C		For air-to-water heat pumps: Operation limit temperature		TOL		-10		°C	
Cycling interval capacity for heating		Ppsych		-		kW		Cycling interval efficiency		COPcyc		-		-	
Degradation co-efficient (**)		Cdh		0.9		--		Heating water operating limit temperature		WTOL		85		°C	
Power consumption in modes other than active mode								Supplementary heater							
Off mode		Poff		0.013		kW		Rated heat output (**)		Psup		0		kW	
Standby mode		Psb		0.013		kW		Type of energy input		Electrical					
Thermostat-off mode		Pto		0.132		kW									
Crankcase heater mode		Pck		0.000		kW									
Other items															
Capacity control		variable						For air-to-water heat pumps: Rated air flow rate, outdoors		-		7 200		m³/h	
Sound power level, indoors/outdoors		LWA		-/64.0		dB		For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-		-		m³/h	
Annual energy consumption		QHE		7 723		kWh									
For heat pump combination heater:															
Declared load profile		-						Water heating energy efficiency		ηwh		-		%	
Daily electricity consumption		Qelec		-		kWh		Daily fuel consumption		Qfuel		-		kWh	
Annual electricity consumption		AEC		-		kWh		Annual fuel consumption		AFC		-		GJ	
Contact details		GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)													
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).															
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.															

Technical parameters															
Model(s):		MHC-V18WD2RN7													
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 low-temperature application.															
Item				Symbol				Value				Unit			
Rated heat output (*)				Prated				18				kW			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj															
Tj = -7 °C				Pd _h				11.1				kW			
Tj = 2 °C				Pd _h				7.1				kW			
Tj = 7 °C				Pd _h				4.2				kW			
Tj = 12 °C				Pd _h				3.9				kW			
Tj = bivalent temperature				Pd _h				17.6				kW			
Tj = operating limit				Pd _h				16.5				kW			
For air-to-water heat pumps: Tj = -15 °C				Pd _h				17.6				kW			
Bivalent temperature				T _{biv}				-15				°C			
Cycling interval capacity for heating				P _{cyh}				-				kW			
Degradation co-efficient (**)				C _{dh}				0.9				--			
Power consumption in modes other than active mode															
Off mode				P _{off}				0.013				kW			
Standby mode				P _{sb}				0.013				kW			
Thermostat-off mode				P _{to}				0.132				kW			
Crankcase heater mode				P _{ck}				0.000				kW			
Other items															
Capacity control				variable											
Sound power level, indoors/outdoors				L _{WA}				-64.0				dB			
Annual energy consumption				Q _{HE}				10 656				kWh			
For heat pump combination heater:															
Declared load profile				-											
Daily electricity consumption				Q _{elec}				-				kW _h			
Annual electricity consumption				AEC				-				kW _h			
Water heating energy efficiency				η _{wh}				-				%			
Daily fuel consumption				Q _{fuel}				-				kW _h			
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-V18WD2RN7					
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 low-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	18	kW	Seasonal space heating energy efficiency	ηs	250.8	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-
Tj = 2 °C	Pdh	17.9	kW	Tj = 2 °C	COPd	3.40	-
Tj = 7 °C	Pdh	11.8	kW	Tj = 7 °C	COPd	5.39	-
Tj = 12 °C	Pdh	5.5	kW	Tj = 12	COPd	8.63	-
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	5.39	-
Tj = operating limit	Pdh	17.9	kW	Tj = operating limit	COPd	3.40	-
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	85	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.013	kW	Rated heat output (**)	Psup	0.14	kW
Standby mode	Psb	0.013	kW				
Thermostat-off mode	Pto	0.132	kW	Type of energy input	-		
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	7 200	m³/h
Sound power level, indoors/outdoors	LWA	-/64.0	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	3 790	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qclec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details		GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)					
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Technical parameters											
Model(s):		MHC-V18WD2RN7									
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		18		kW			
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj											
Tj = -7 °C				Pdh		15.7		kW			
Tj = 2 °C				Pdh		10.1		kW			
Tj = 7 °C				Pdh		6.5		kW			
Tj = 12 °C				Pdh		6.6		kW			
Tj = bivalent temperature				Pdh		15.7		kW			
Tj = operating limit				Pdh		19.7		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 active mode											
Off mode				Poff		0.013		kW			
Standby mode				Psb		0.013		kW			
Thermostat-off mode				Pto		0.132		kW			
Crankcase heater mode				Pck		0.000		kW			
Other items											
Capacity control				variable							
Sound power level, indoors/outdoors				LWA		-/64.0		dB			
Annual energy consumption				QHE		9 884		kWh			
For heat pump combination heater:											
Declared load profile				-							
Daily electricity consumption				Qelec		-		kWh			
Annual electricity consumption				AEC		-		kWh			
Water heating energy efficiency				ηwh		-		%			
Daily fuel consumption				Qfuel		-		kWh			
Annual fuel consumption				AFC		-		GJ			
Contact details				GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)							
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).											
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.											

Technical parameters																											
Model(s):		MHC-V18WD2RN7																									
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				18				kW															
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj								Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj																			
Tj = -7 °C				Pdh				11.0				kW															
Tj = 2 °C				Pdh				6.7				kW															
Tj = 7 °C				Pdh				5.6				kW															
Tj = 12 °C				Pdh				5.6				kW															
Tj = bivalent temperature				Pdh				18.5				kW															
Tj = operating limit				Pdh				15.5				kW															
For air-to-water heat pumps: Tj = -15 °C				Pdh				18.5				kW															
Bivalent temperature				Tbiv				-15				°C															
Cycling interval capacity for heating				Ppsych				-				kW															
Degradation co-efficient (**)				Cdh				0.9				--															
Power consumption in modes other than active mode								Supplementary heater																			
Off mode				Poff				0.013				kW															
Standby mode				Psb				0.013				kW															
Thermostat-off mode				Pto				0.132				kW															
Crankcase heater mode				Pck				0.000				kW															
Other items																											
Capacity control				variable																							
Sound power level, indoors/outdoors				LWA				-/64.0				dB															
Annual energy consumption				QHE				13 991				kWh															
For heat pump combination heater:								Water heating energy efficiency								ηwh				-				%			
Declared load profile				-								Daily electricity consumption				Qelec				-				kWh			
												Annual electricity consumption				AEC				-				kWh			
												Daily fuel consumption				Qfuel				-				kWh			
												Annual fuel consumption				AFC				-				GJ			
Contact details								GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)																			
(*) 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-V18WD2RN7									
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		18		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		18.5		kW			
Tj = 7 °C				Pdh		11.9		kW			
Tj = 12 °C				Pdh		7.1		kW			
Tj = bivalent temperature				Pdh		11.9		kW			
Tj = operating limit				Pdh		18.5		kW			
For air-to-water heat pumps: Tj = -15 °C				Pdh		-		kW			
Bivalent temperature				Tbiv		7		°C			
Cycling interval capacity for heating				Pcyc		-		kW			
Degradation co-efficient (**)				Cdh		0.9		--			
Power consumption in modes other than active mode											
Off mode				Poff		0.013		kW			
Standby mode				Psb		0.013		kW			
Thermostat-off mode				Pto		0.132		kW			
Crankcase heater mode				Pck		0.000		kW			
Other items											
Capacity control				variable							
Sound power level, indoors/outdoors				LWA		-/64.0		dB			
Annual energy consumption				QHE		5 134		kWh			
For heat pump combination heater:											
Declared load profile				-							
Daily electricity consumption				Qelec		-		kW/h			
Annual electricity consumption				AEC		-		kW/h			
Water heating energy efficiency				ηwh		-		%			
Daily fuel consumption				Qfuel		-		kW/h			
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-V22WD2RN7					
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 low-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	22	kW	Seasonal space heating energy efficiency	ηs	181.1	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	19.2	kW	Tj = -7 °C	COPd	2.58	-
Tj = 2 °C	Pdh	12.6	kW	Tj = 2 °C	COPd	4.36	-
Tj = 7 °C	Pdh	7.7	kW	Tj = 7 °C	COPd	6.95	-
Tj = 12 °C	Pdh	3.9	kW	Tj = 12 °C	COPd	9.02	-
Tj = bivalent temperature	Pdh	19.2	kW	Tj = bivalent temperature	COPd	2.58	-
Tj = operating limit	Pdh	19.5	kW	Tj = operating limit	COPd	2.50	-
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	85	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.013	kW	Rated heat output (**)	Psup	2.46	kW
Standby mode	Psb	0.013	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.132	kW				
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	7 200	m³/h
Sound power level, indoors/outdoors	LWA	-64.0	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	9 804	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0.9.							

Technical parameters									
Model(s):		MHC-V22WD2RN7							
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 low-temperature application.									
Item		Symbol	Value	Unit	Item		Symbol	Value	Unit
Rated heat output (*)		Prated	22	kW	Seasonal space heating energy efficiency		ηs	159.2	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj					Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = -7 °C		Pdh	13.8	kW	Tj = -7 °C		COPd	3.16	-
Tj = 2 °C		Pdh	8.3	kW	Tj = 2 °C		COPd	5.02	-
Tj = 7 °C		Pdh	5.5	kW	Tj = 7 °C		COPd	7.41	-
Tj = 12 °C		Pdh	3.9	kW	Tj = 12 °C		COPd	7.56	-
Tj = bivalent temperature		Pdh	17.6	kW	Tj = bivalent temperature		COPd	2.33	-
Tj = operating limit		Pdh	16.5	kW	Tj = operating limit		COPd	2.26	-
For air-to-water heat pumps: Tj = -15 °C		Pdh	17.6	kW	For air-to-water heat pumps: Tj = -15 °C		COPd	2.33	-
Bivalent temperature		Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature		TOL	-22	°C
Cycling interval capacity for heating		Pcyc	-	kW	Cycling interval efficiency		COPcyc	-	-
Degradation co-efficient (**)		Cdh	0.9	--	Heating water operating limit temperature		WTOL	85	°C
Power consumption in modes other than active mode					Supplementary heater				
Off mode		Poff	0.013	kW	Rated heat output (**)		Psup	5.49	kW
Standby mode		Psb	0.013	kW	Type of energy input		-		
Thermostat-off mode		Pto	0.132	kW					
Crankcase heater mode		Pck	0.000	kW					
Other items									
Capacity control		variable			For air-to-water heat pumps: Rated air flow rate, outdoors		-	7 200	m³/h
Sound power level, indoors/outdoors		LWA	-/64.0	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		-	-	m³/h
Annual energy consumption		QHE	13 372	kWh					
For heat pump combination heater:									
Declared load profile		-			Water heating energy efficiency		ηwh	-	%
Daily electricity consumption		Qelec	-	kWh	Daily fuel consumption		Qfuel	-	kWh
Annual electricity consumption		AEC	-	kWh	Annual fuel consumption		AFC	-	GJ
Contact details		GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)							
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).									
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.									

Technical parameters											
Model(s):		MHC-V22WD2RN7									
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 low-temperature application.											
Item				Symbol				Value		Unit	
Rated heat output (*)				Prated		22		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		21.7		kW			
Tj = 7 °C				Pdh		14.2		kW			
Tj = 12 °C				Pdh		6.8		kW			
Tj = bivalent temperature				Pdh		14.2		kW			
Tj = operating limit				Pdh		21.7		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 active mode											
Off mode				Poff		0.013		kW			
Standby mode				Psb		0.013		kW			
Thermostat-off mode				Pto		0.132		kW			
Crankcase heater mode				Pck		0.000		kW			
Other items											
Capacity control				variable							
Sound power level, indoors/outdoors				LWA		-/64.0		dB			
Annual energy consumption				QHE		4 614		kWh			
For heat pump combination heater:											
Declared load profile				-							
Daily electricity consumption				Qelec		-		kWh			
Annual electricity consumption				AEC		-		kWh			
Water heating energy efficiency				ηwh		-		%			
Daily fuel consumption				Qfuel		-		kWh			
Annual fuel consumption				AFC		-		GJ			
Contact details				GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)							
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).											
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.											

Technical parameters							
Model(s):		MHC-V22WD2RN7					
Air-to-water heat pump:		YES					
Water-to-water heat pump:		NO					
Brine-to-water heat pump:		NO					
Low-temperature heat pump:		NO					
Equipped with a supplementary heater:		NO					
Heat pump combination heater:		NO					
Declared climate condition:		AVERAGE					
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	22	kW	Seasonal space heating energy efficiency	ηs	146.9	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	19.1	kW	Tj = -7 °C	COPd	2.30	-
Tj = 2 °C	Pdh	12.0	kW	Tj = 2 °C	COPd	3.58	-
Tj = 7 °C	Pdh	7.7	kW	Tj = 7 °C	COPd	5.39	-
Tj = 12 °C	Pdh	6.6	kW	Tj = 12 °C	COPd	6.84	-
Tj = bivalent temperature	Pdh	19.1	kW	Tj = bivalent temperature	COPd	2.30	-
Tj = operating limit	Pdh	19.7	kW	Tj = operating limit	COPd	2.09	-
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	85	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.013	kW	Rated heat output (**)	Psup	2.33	kW
Standby mode	Psb	0.013	kW				
Thermostat-off mode	Pto	0.132	kW	Type of energy input	-		
Crankcase heater mode	Pck	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors			
Sound power level, indoors/outdoors	LWA	-/64.0	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			
Annual energy consumption	QHE	11 997	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	ηwh	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details		GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)					
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Technical parameters				
Model(s):	MHC-V22WD2RN7			
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	22	kW	
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				
Tj = -7 °C	Pdh	13.6	kW	
Tj = 2 °C	Pdh	8.2	kW	
Tj = 7 °C	Pdh	5.6	kW	
Tj = 12 °C	Pdh	5.6	kW	
Tj = bivalent temperature	Pdh	18.5	kW	
Tj = operating limit	Pdh	15.5	kW	
For air-to-water heat pumps: Tj = -15 °C	Pdh	18.5	kW	
Bivalent temperature	Tbiv	-15	°C	
Cycling interval capacity for heating	Pcyc	-	kW	
Degradation co-efficient (**)	Cdh	0.9	--	
Power consumption in modes other than active mode				
Off mode	Poff	0.013	kW	
Standby mode	Psb	0.013	kW	
Thermostat-off mode	Pto	0.132	kW	
Crankcase heater mode	Pck	0.000	kW	
Other items				
Capacity control	variable			
Sound power level, indoors/outdoors	LWA	-64.0	dB	
Annual energy consumption	QHE	17 181	kWh	
For heat pump combination heater:				
Declared load profile	-			
Daily electricity consumption	Qelec	-	kWh	
Annual electricity consumption	AEC	-	kWh	
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.				

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	123.3	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	2.59	-
Tj = 2 °C	COPd	3.59	-
Tj = 7 °C	COPd	5.64	-
Tj = 12	COPd	6.93	-
Tj = bivalent temperature	COPd	2.06	-
Tj = operating limit	COPd	1.69	-
For air-to-water heat pumps: Tj = -15 °C	COPd	2.06	-
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	85	°C
Supplementary heater			
Rated heat output (**)	Psup	6.49	kW
Type of energy input	-		
For air-to-water heat pumps: Rated air flow rate, outdoors	-	7 200	m³/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

Water heating energy efficiency	ηwh	-	%
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

Technical parameters				
Model(s):		MHC-V22WD2RN7		
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	22	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	21.6	kW	
Tj = 7 °C	Pdh	14.3	kW	
Tj = 12 °C	Pdh	7.0	kW	
Tj = bivalent temperature	Pdh	14.3	kW	
Tj = operating limit	Pdh	21.6	kW	
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	
Bivalent temperature	Tbiv	7	°C	
Cycling interval capacity for heating	Pcyc	-	kW	
Degradation co-efficient (**)	Cdh	0.9	--	
Power consumption in modes other than active mode				
Off mode	Poff	0.135	kW	
Standby mode	Psb	0.135	kW	
Thermostat-off mode	Pto	0.620	kW	
Crankcase heater mode	Pck	0.000	kW	
Other items				
Capacity control	variable			
Sound power level, indoors/outdoors	LWA	-/64.0	dB	
Annual energy consumption	QHE	6 377	kWh	
For heat pump combination heater:				
Declared load profile	-			
Daily electricity consumption	Qelec	-	kWh	
Annual electricity consumption	AEC	-	kWh	
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.				

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	181.4	%
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	2.35	-
Tj = 7 °C	COPd	3.97	-
Tj = 12 °C	COPd	6.19	-
Tj = bivalent temperature	COPd	3.97	-
Tj = operating limit	COPd	2.35	-
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	85	°C
Supplementary heater			
Rated heat output (**)	Psup	0.36	kW
Type of energy input	Electrical		
For air-to-water heat pumps: Rated air flow rate, outdoors	-	7 200	m³/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

Water heating energy efficiency	ηwh	-	%
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

Information requirements for comfort chillers

Model(s):				MHC-V18WD2RN7				
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}	18	kW		Seasonal space cooling energy efficiency	η _{s,c}	193.0	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35 °C	P _{dc}	18.4	kW		T _j =+35 °C	EER _d	2.88	-
T _j =+30 °C	P _{dc}	12.8	kW		T _j =+30 °C	EER _d	4.05	-
T _j =+25 °C	P _{dc}	8.8	kW		T _j =+25 °C	EER _d	6.34	-
T _j =+20 °C	P _{dc}	4.6	kW		T _j =+20 °C	EER _d	8.03	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.117	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.018	kW		Standby mode	P _{SB}	0.117	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	7 200	m³/h
Sound power level, indoors / outdoors	L _{WA}	-/68.4	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	0.02	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-V18WD2RN7				
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}	18	kW		Seasonal space cooling energy efficiency	η _{s,c}	261.0	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35 °C	P _{dc}	18.1	kW		T _j =+35 °C	EER _d	4.82	-
T _j =+30 °C	P _{dc}	12.8	kW		T _j =+30 °C	EER _d	6.72	-
T _j =+25 °C	P _{dc}	8.0	kW		T _j =+25 °C	EER _d	8.32	-
T _j =+20 °C	P _{dc}	4.4	kW		T _j =+20 °C	EER _d	9.64	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.117	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.018	kW		Standby mode	P _{SB}	0.117	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	7 200	m³/h
Sound power level, indoors / outdoors	L _{WA}	-/68.4	dB		For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV					
GWP of the refrigerant	-	0.02	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-V22WD2RN7				
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}	22	kW		Seasonal space cooling energy efficiency	η _{s,c}	189.8	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35 °C	P _{dc}	21.6	kW		T _j =+35 °C	EER _d	2.69	-
T _j =+30 °C	P _{dc}	16.5	kW		T _j =+30 °C	EER _d	3.85	-
T _j =+25 °C	P _{dc}	10.5	kW		T _j =+25 °C	EER _d	5.88	-
T _j =+20 °C	P _{dc}	4.6	kW		T _j =+20 °C	EER _d	8.03	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.117	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.018	kW		Standby mode	P _{SB}	0.117	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	7 200	m³/h
Sound power level, indoors / outdoors	L _{WA}	-71.7	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	-	-	m³/h
GWP of the refrigerant	-	0.02	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-V22WD2RN7				
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}	22	kW		Seasonal space cooling energy efficiency	η _{s,c}	257.0	%
Declared cooling capacity for part load at given outdoor temperature T _j					Declared energy efficiency ratio for part load at given outdoor temperature T _j			
T _j =+35 °C	P _{dc}	21.7	kW		T _j =+35 °C	EER _d	4.21	-
T _j =+30 °C	P _{dc}	15.9	kW		T _j =+30 °C	EER _d	6.02	-
T _j =+25 °C	P _{dc}	10.1	kW		T _j =+25 °C	EER _d	8.19	-
T _j =+20 °C	P _{dc}	4.4	kW		T _j =+20 °C	EER _d	9.64	-
Degradation co-efficient for chillers (*)	C _{dc}	0.9	-					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.117	kW		Crankcase heater mode	P _{CK}	0.000	kW
Thermosat-off mode	P _{TO}	0.018	kW		Standby mode	P _{SB}	0.117	kW
Other items								
Capacity control	variable				For air-to-water comfort chillers: air flow rate, outdoor measured	-	7 200	m³/h
Sound power level, indoors / outdoors	L _{WA}	-71.7	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	-	-	m³/h
GWP of the refrigerant	-	0.02	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.								

Outdoor unit model name			MHC-V22WD2RN7	MHC-V18WD2RN7
Indoor unit model name				
Heating A7W35	Capacity	W	22000	18000
	Rated input	W	5115	3910
	COP		4.30	4.60
Heating A7W45	Capacity	W	22000	18000
	Rated input	W	6110	4730
	COP		3.60	3.80
Heating A7W55	Capacity	W	22000	18000
	Rated input	W	7100	5625
	COP		3.10	3.20
Heating A7W65	Capacity	W	22000	18000
	Rated input	W	8460	6430
	COP		2.60	2.80
Heating A2W35	Capacity	W	20000	18000
	Rated input	W	6270	5120
	COP		3.19	3.50
Heating A2W45	Capacity	W	20000	18000
	Rated input	W	7690	6100
	COP		2.60	2.95
Heating A2W55	Capacity	W	20000	18000
	Rated input	W	8160	7060
	COP		2.45	2.55
Heating A- 7W35	Capacity	W	19500	18000
	Rated input	W	7650	6430
	COP		2.55	2.80
Heating A- 7W45	Capacity	W	19500	18000
	Rated input	W	8865	7660
	COP		2.20	2.35
Heating A- 7W55	Capacity	W	19500	18000
	Rated input	W	10260	8780
	COP		1.90	2.05
Cooling A35W18	Capacity	W	22000	18000
	Rated input	W	5240	3830
	EER		4.20	4.70
Cooling A35W7	Capacity	W	22000	18000
	Rated input	W	8150	6315
	EER		2.70	2.85

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