TECHNICAL DATA MANUAL

DC INVERTER AQUA THERMAL SUPER
AIR CONDITIONER OUTDOOR UNIT
R32

IMPORTANT NOTE:

Original instructions.
Please read this manual carefully and keep it for future reference.
All the pictures in this manual are for illustrations purpose only.

Product fiche 1

Heat pump space heater		unit	MH-SU50/65/75-RN8L	MH-SU110/140-RN8L
Indoor unit sound power (*)		[dB(A)]	/	/
Outdoor unit sound power (*)		[dB(A)]	80.0/86.0	80.0/92.0
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]	48	95
	Seasonal space heating efficiency(ηs)	[%]	177	167
	Annual energy consumption	[kWh]	22 032	46 188
Space heating 55 °C	Prated(declared heating capacity) @–10 °C	[kW]	40	80
	Seasonal space heating efficiency(ηs)	[%]	133	127
	Annual energy consumption	[kWh]	24 290	50 858
Part load conditions space heating average climate low temperature application				
(A) condition (-7 °C)	Pdh(declared heating capacity)	[kW]	42.18	85.48
	COPd (declared COP)	-	3.24	3.03
	Cdh(degradation coefficient)	-	0.9	0.9
(B) condition (2 °C)	Pdh(declared heating capacity)	[kW]	24.59	50.02
	COPd (declared COP)	-	4.15	3.73
	Cdh(degradation coefficient)	-	0.9	0.9
(C) condition (7 °C)	Pdh(declared heating capacity)	[kW]	24.00	33.85
	COPd (declared COP)	-	6.20	6.23
	Cdh(degradation coefficient)	-	0.9	0.9
(D) condition (12 °C)	Pdh(declared heating capacity)	[kW]	20.68	39.27
	COPd (declared COP)	-	8.23	8.02
	Cdh(degradation coefficient)	-	0.9	0.9

Product fiche 2

Heat pump space heater		unit	MH-SU50/65/75-RN8L	MH-SU110/140-RN8L
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	-10	-10
	Pdh (declared heating capacity)	[kW]	47.60	94.45
	COPd (declared COP)	-	2.71	2.38
	WTOL (Heating water Operation Limit)	[°C]	65	65
(F) Tbivalent temperature	Tbiv	[°C]	-7	-7
	Pdh (declared heating capacity)	[kW]	42.18	85.48
	COPd (declared COP)	-	3.24	3.03
Supplementary capacity at P_design	Psup (@Tdesignh:–10°C)	[kW]	0.40	0.55
Part load conditions space heating average climate medium temperature application				
(A) condition (-7 °C)	Pdh (declared heating capacity)	[kW]	35.59	69.31
	COPd (declared COP)	-	2.42	2.01
	Cdh(degradation coefficient)	-	0.9	0.9
(B) condition (2 °C)	Pdh (declared heating capacity)	[kW]	21.61	41.99
	COPd (declared COP)	-	3.18	3.10
	Cdh(degradation coefficient)	-	0.9	0.9
(C) condition (7 °C)	Pdh (declared heating capacity)	[kW]	15.06	48.27
	COPd (declared COP)	-	4.46	4.52
	Cdh(degradation coefficient)	-	0.9	0.9
(D) condition (12 °C)	Pdh (declared heating capacity)	[kW]	18.43	37.99
	COPd (declared COP)	-	6.06	6.03
	Cdh(degradation coefficient)	-	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	-10	-10
	Pdh (declared heating capacity)	[kW]	39.80	79.71
	COPd (declared COP)	-	1.83	1.76
	WTOL (Heating water Operation Limit)	[°C]	65	65
(F) Tbivalent temperature	Tbiv	[°C]	-7	-7
	Pdh (declared heating capacity)	[kW]	35.59	69.31
	COPd (declared COP)	-	2.42	2.01
Supplementary capacity at P_design	Psup (@Tdesignh:–10°C)	[kW]	0	0.29

Product fiche 3

Heat pump space heater		unit	MH-SU50/65/75-RN8L	MH-SU110/140-RN8L
Colder climate (Design temperature = –22 °C)				
Space heating 35 °C	Prated (declared heating capacity) @ –22 °C	[kW]	40	80
	Seasonal space heating efficiency (ηs)	[%]	152.0	146.0
	Annual energy consumption	[kWh]	25 415	52 894
Space heating 55 °C	Prated (declared heating capacity) @ –22 °C	[kW]	40	68
	Seasonal space heating efficiency (ηs)	[%]	133.0	109.0
	Annual energy consumption	[kWh]	24 290	60 183
Part load conditions space heating colder climate low temperature application				
condition (-15 °C)	Pdh (declared heating capacity)	[kW]	27.88	67.26
	COPd (declared COP)	-	1.83	2.56
	Cdh(degradation coefficient)	-	0.90	0.9
(A) condition (-7 °C)	Pdh (declared heating capacity)	[kW]	21.53	47.25
	COPd (declared COP)	-	2.55	3.07
	Cdh(degradation coefficient)	-	0.9	0.9
(B) condition (2 °C)	Pdh (declared heating capacity)	[kW]	12.29	29.39
	COPd (declared COP)	-	3.03	4.23
	Cdh(degradation coefficient)	-	0.9	0.9
(C) condition (7 °C)	Pdh (declared heating capacity)	[kW]	11.14	27.48
	COPd (declared COP)	-	3.80	6.36
	Cdh(degradation coefficient)	-	0.9	0.9
(D) condition (12 °C)	Pdh (declared heating capacity)	[kW]	14.28	32.27
	COPd (declared COP)	-	5.77	7.77
	Cdh(degradation coefficient)	-	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	-18	-22
	Pdh (declared heating capacity)	[kW]	31.81	75.44
	COPd (declared COP)	-	1.71	1.98
	WTOL (Heating water Operation Limit)	[°C]	65	65
(F) Tbivalent temperature	Tbiv	[°C]	-15	-15
	Pdh (declared heating capacity)	[kW]	27.88	67.26
	COPd (declared COP)	-	1.83	2.56
Supplementary capacity at P_design	Psup (@Tdesignh:–22°C)	[kW]	2.78	4.56

Product fiche 4

Heat pump space heater		unit	MH-SU50/65/75-RN8L	MH-SU110/140-RN8L
Part load conditions space heating colder climate medium temperature application				
condition (-15 °C)	Pdh (declared heating capacity)	[kW]	32.81	56.15
	COPd (declared COP)	-	2.71	1.86
	Cdh(degradation coefficient)	-	0.9	0.9
(A) condition (-7 °C)	Pdh (declared heating capacity)	[kW]	24.57	43.15
	COPd (declared COP)	-	3.11	2.49
	Cdh(degradation coefficient)	-	0.9	0.9
(B) condition (2 °C)	Pdh (declared heating capacity)	[kW]	15.59	25.41
	COPd (declared COP)	-	4.65	3.07
	Cdh(degradation coefficient)	-	0.9	0.9
(C) condition (7 °C)	Pdh (declared heating capacity)	[kW]	12.61	25.58
	COPd (declared COP)	-	5.63	4.66
	Cdh(degradation coefficient)	-	0.9	0.9
(D) condition (12 °C)	Pdh (declared heating capacity)	[kW]	15.31	31.53
	COPd (declared COP)	-	7.37	6.43
	Cdh(degradation coefficient)	-	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	-22	-18
	Pdh (declared heating capacity)	[kW]	37.22	61.03
	COPd (declared COP)	-	1.97	1.80
	WTOL (Heating water Operation Limit)	[°C]	65	85
(F) Tbivalent temperature	Tbiv	[°C]	-15	-15
	Pdh (declared heating capacity)	[kW]	32.81	56.15
	COPd (declared COP)	-	2.71	1.86
Supplementary capacity at P_design	Psup (@Tdesignh:–22°C)	[kW]	2.19	6.97
Warmer climate (Design temperature =2°C)				
Space heating 35 °C	Prated (declared heating capacity) @ 2°C	[kW]	48	95
	Seasonal space heating efficiency (ηs)	[%]	237.0	235.0
	Annual energy consumption	[kWh]	10 683	21 332
Space heating 55 °C	Prated (declared heating capacity) @ 2°C	[kW]	40	80
	Seasonal space heating efficiency (ηs)	[%]	162.0	167.0
	Annual energy consumption	[kWh]	12 970	25 115

Product fiche 5

Heat pump space heater		unit	MH-SU50/65/75-RN8L	MH-SU110/140-RN8L
Part load conditions space heating warmer climate low temperature application				
(B) condition (2 °C)	Pdh (declared heating capacity)	[kW]	47.76	93.78
	COPd (declared COP)	-	3.23	2.89
	Cdh(degradation coefficient)	-	0.9	0.9
(C) condition (7 °C)	Pdh (declared heating capacity)	[kW]	30.59	61.13
	COPd (declared COP)	-	5.47	5.29
	Cdh(degradation coefficient)	-	0.9	0.9
(D) condition (12 °C)	Pdh (declared heating capacity)	[kW]	15.70	32.17
	COPd (declared COP)	-	7.65	8.03
	Cdh(degradation coefficient)	-	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	2	2
	Pdh (declared heating capacity)	[kW]	47.76	93.78
	COPd (declared COP)	-	3.23	2.89
	WTOL (Heating water Operation Limit)	[°C]	65	65
(F) Tbivalent temperature	Tbiv	[°C]	7	7
	Pdh (declared heating capacity)	[kW]	30.59	61.13
	COPd (declared COP)	-	5.47	5.29
Supplementary capacity at P_design	Psup (@Tdesignh:2 °C)	[kW]	0	1.22
Part load conditions space heating warmer climate medium temperature application				
(B) condition (2 °C)	Pdh (declared heating capacity)	[kW]	39.82	79.98
	COPd (declared COP)	-	2.01	2.04
	Cdh(degradation coefficient)	-	0.9	0.9
(C) condition (7 °C)	Pdh (declared heating capacity)	[kW]	24.93	52.24
	COPd (declared COP)	-	3.71	3.84
	Cdh(degradation coefficient)	-	0.9	0.9
(D) condition (12 °C)	Pdh (declared heating capacity)	[kW]	12.35	31.12
	COPd (declared COP)	-	5.27	5.66
	Cdh(degradation coefficient)	-	0.9	0.9
(E) Tol(temperature operating limit)	Tol (temperature operating limit)	[°C]	2	2
	Pdh (declared heating capacity)	[kW]	39.82	79.98
	COPd (declared COP)	-	2.01	2.04
	WTOL (Heating water Operation Limit)	[°C]	65	65

Product fiche 6

Heat pump space heater		unit	MH-SU50/65/75-RN8L	MH-SU110/140-RN8L
(F) Tbivalent temperature	Tbiv	[°C]	7	7
	Pdh (declared heating capacity)	[kW]	24.93	52.24
	COPd (declared COP)	-	3.71	3.84
Supplementary capacity at P_design	Psup (@Tdesignh:2 °C)	[kW]	0	0
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)	[m^3/h]	22 000/28 500	32 500/50 000
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	[m^3/h]	/	/
Other	Capacity control	-	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.08	0.14
	Pto (Power consumption Thermostat off mode)	[kW]	0.35	0.70
	Psb (Power consumption Standby mode)	[kW]	0.08	0.14
	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):	MH-SU50/65-RN8L
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	48.0	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	47.8	kW
Tj = 7 °C	Pdh	30.6	kW
Tj = 12 °C	Pdh	15.7	kW
Tj = bivalent temperature	Pdh	-	kW
Tj = operating limit	Pdh	47.8	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.08	kW
Standby mode	P_{sb}	0.35	kW
Thermostat-off mode	P_{to}	0.08	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	237.0	%
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	3.23	-
Tj = 7 °C	COPd	5.47	-
Tj = 12 °C	COPd	7.65	-
Tj = bivalent temperature	COPd	5.47	-
Tj = operating limit	COPd	3.23	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°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}	-/80.0	dB
Annual energy consumption	Q_{HE}	10 683	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	22 000	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):	MH-SU50/65-RN8L
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	40.0	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	39.8	kW
Tj = 7 °C	Pdh	24.9	kW
Tj = 12 °C	Pdh	12.3	kW
Tj = bivalent temperature	Pdh	24.9	kW
Tj = operating limit	Pdh	39.8	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.08	kW
Standby mode	P_{sb}	0.35	kW
Thermostat-off mode	P_{to}	0.08	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	161.8	%
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	2.01	-
Tj = 7 °C	COPd	3.71	-
Tj = 12 °C	COPd	5.27	-
Tj = bivalent temperature	COPd	3.71	-
Tj = operating limit	COPd	2.07	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°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}	-/80.0	dB
Annual energy consumption	Q_{HE}	12 970	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	22 000	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):	MH-SU50/65-RN8L
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	48.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	42.2	kW
Tj = 2 °C	Pdh	24.6	kW
Tj = 7 °C	Pdh	24.0	kW
Tj = 12 °C	Pdh	20.7	kW
Tj = bivalent temperature	Pdh	42.2	kW
Tj = operating limit	Pdh	47.6	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.08	kW
Standby mode	P_{sb}	0.35	kW
Thermostat-off mode	P_{to}	0.08	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	177.0	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	3.24	-
Tj = 2 °C	COPd	4.15	-
Tj = 7 °C	COPd	6.20	-
Tj = 12 °C	COPd	8.23	-
Tj = bivalent temperature	COPd	3.24	-
Tj = operating limit	COPd	2.71	-
For air-to-water heat pumps: Tj = -15 °C	COPd		-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	0.40	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/80.0	dB
Annual energy consumption	Q_{HE}	22 032	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	22 000	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):	MH-SU50/65-RN8L
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	40.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	35.6	kW
Tj = 2 °C	Pdh	21.6	kW
Tj = 7 °C	Pdh	15.1	kW
Tj = 12 °C	Pdh	18.4	kW
Tj = bivalent temperature	Pdh	35.6	kW
Tj = operating limit	Pdh	39.8	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.08	kW
Standby mode	P_{sb}	0.35	kW
Thermostat-off mode	P_{to}	0.08	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	133.0	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	2.42	-
Tj = 2 °C	COPd	3.18	-
Tj = 7 °C	COPd	4.46	-
Tj = 12 °C	COPd	6.06	-
Tj = bivalent temperature	COPd	2.42	-
Tj = operating limit	COPd	1.83	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°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}	-/80.0	dB
Annual energy consumption	Q_{HE}	24 290	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	22 000	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):	MH-SU50/65-RN8L
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	40.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	24.6	kW
Tj = 2 °C	Pdh	15.6	kW
Tj = 7 °C	Pdh	12.6	kW
Tj = 12 °C	Pdh	15.3	kW
Tj = bivalent temperature	Pdh	32.8	kW
Tj = operating limit	Pdh	37.2	kW
For air-to-water heat pumps: Tj = -15 °C	Pdh	32.8	kW
Bivalent temperature	T_{biv}	-15	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.08	kW
Standby mode	P_{sb}	0.35	kW
Thermostat-off mode	P_{to}	0.08	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	152.2	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	3.11	-
Tj = 2 °C	COPd	4.65	-
Tj = 7 °C	COPd	5.63	-
Tj = 12 °C	COPd	7.37	-
Tj = bivalent temperature	COPd	2.71	-
Tj = operating limit	COPd	1.97	-
For air-to-water heat pumps: Tj = -15 °C	COPd	2.71	-
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	2.78	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/80.0	dB
Annual energy consumption	Q_{HE}	25 415	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	22 000	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):	MH-SU50/65-RN8L
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	34.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	21.5	kW
Tj = 2 °C	Pdh	12.3	kW
Tj = 7 °C	Pdh	11.1	kW
Tj = 12 °C	Pdh	14.3	kW
Tj = bivalent temperature	Pdh	27.9	kW
Tj = operating limit	Pdh	31.8	kW
For air-to-water heat pumps: Tj = -15 °C	Pdh	27.9	kW
Bivalent temperature	T_{biv}	-15	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.08	kW
Standby mode	P_{sb}	0.35	kW
Thermostat-off mode	P_{to}	0.08	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	106.2	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	2.55	-
Tj = 2 °C	COPd	3.03	-
Tj = 7 °C	COPd	3.80	-
Tj = 12 °C	COPd	5.77	-
Tj = bivalent temperature	COPd	1.83	-
Tj = operating limit	COPd	2.71	-
For air-to-water heat pumps: Tj = -15 °C	COPd	1.83	-
For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	2.19	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/80.0	dB
Annual energy consumption	Q_{HE}	30 683	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	22 000	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):	MH-SU75-RN8L
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	48.0	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	47.8	kW
Tj = 7 °C	Pdh	30.6	kW
Tj = 12 °C	Pdh	15.7	kW
Tj = bivalent temperature	Pdh	-	kW
Tj = operating limit	Pdh	47.8	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.08	kW
Standby mode	P_{sb}	0.35	kW
Thermostat-off mode	P_{to}	0.08	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	237.0	%
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	3.23	-
Tj = 7 °C	COPd	5.47	-
Tj = 12 °C	COPd	7.65	-
Tj = bivalent temperature	COPd	5.47	-
Tj = operating limit	COPd	3.23	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°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}	-/86.0	dB
Annual energy consumption	Q_{HE}	10 683	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	28 500	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):	MH-SU75-RN8L
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	40.0	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	39.8	kW
Tj = 7 °C	Pdh	24.9	kW
Tj = 12 °C	Pdh	12.3	kW
Tj = bivalent temperature	Pdh	24.9	kW
Tj = operating limit	Pdh	39.8	kW
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW
Bivalent temperature	T_{biv}	7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.08	kW
Standby mode	P_{sb}	0.35	kW
Thermostat-off mode	P_{to}	0.08	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	161.8	%
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	2.01	-
Tj = 7 °C	COPd	3.71	-
Tj = 12 °C	COPd	5.27	-
Tj = bivalent temperature	COPd	3.71	-
Tj = operating limit	COPd	2.07	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°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}	-/86.0	dB
Annual energy consumption	Q_{HE}	12 970	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	28 500	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):	MH-SU75-RN8L
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	48.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	42.2	kW
Tj = 2 °C	Pdh	24.6	kW
Tj = 7 °C	Pdh	24.0	kW
Tj = 12 °C	Pdh	20.7	kW
Tj = bivalent temperature	Pdh	42.2	kW
Tj = operating limit	Pdh	47.6	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.08	kW
Standby mode	P_{sb}	0.35	kW
Thermostat-off mode	P_{to}	0.08	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	177.0	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	3.24	-
Tj = 2 °C	COPd	4.15	-
Tj = 7 °C	COPd	6.20	-
Tj = 12 °C	COPd	8.23	-
Tj = bivalent temperature	COPd	3.24	-
Tj = operating limit	COPd	2.71	-
For air-to-water heat pumps: Tj = -15 °C	COPd		-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	0.40	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/86.0	dB
Annual energy consumption	Q_{HE}	22 032	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	28 500	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):	MH-SU75-RN8L
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	40.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	35.6	kW
Tj = 2 °C	Pdh	21.6	kW
Tj = 7 °C	Pdh	15.1	kW
Tj = 12 °C	Pdh	18.4	kW
Tj = bivalent temperature	Pdh	35.6	kW
Tj = operating limit	Pdh	39.8	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.08	kW
Standby mode	P_{sb}	0.35	kW
Thermostat-off mode	P_{to}	0.08	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	133.0	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	2.42	-
Tj = 2 °C	COPd	3.18	-
Tj = 7 °C	COPd	4.46	-
Tj = 12 °C	COPd	6.06	-
Tj = bivalent temperature	COPd	2.42	-
Tj = operating limit	COPd	1.83	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°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}	-/86.0	dB
Annual energy consumption	Q_{HE}	24 290	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	28 500	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):	MH-SU75-RN8L
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	40.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	24.6	kW
Tj = 2 °C	Pdh	15.6	kW
Tj = 7 °C	Pdh	12.6	kW
Tj = 12 °C	Pdh	15.3	kW
Tj = bivalent temperature	Pdh	32.8	kW
Tj = operating limit	Pdh	37.2	kW
For air-to-water heat pumps: Tj = -15 °C	Pdh	32.8	kW
Bivalent temperature	T_{biv}	-15	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.08	kW
Standby mode	P_{sb}	0.35	kW
Thermostat-off mode	P_{to}	0.08	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	152.2	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	3.11	-
Tj = 2 °C	COPd	4.65	-
Tj = 7 °C	COPd	5.63	-
Tj = 12 °C	COPd	7.37	-
Tj = bivalent temperature	COPd	2.71	-
Tj = operating limit	COPd	1.97	-
For air-to-water heat pumps: Tj = -15 °C	COPd	2.71	-
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	2.78	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/86.0	dB
Annual energy consumption	Q_{HE}	25 415	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	28 500	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):	MH-SU75-RN8L
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	34.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	21.5	kW
Tj = 2 °C	Pdh	12.3	kW
Tj = 7 °C	Pdh	11.1	kW
Tj = 12 °C	Pdh	14.3	kW
Tj = bivalent temperature	Pdh	27.9	kW
Tj = operating limit	Pdh	31.8	kW
For air-to-water heat pumps: Tj = -15 °C	Pdh	27.9	kW
Bivalent temperature	T_{biv}	-15	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.08	kW
Standby mode	P_{sb}	0.35	kW
Thermostat-off mode	P_{to}	0.08	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	106.2	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	2.55	-
Tj = 2 °C	COPd	3.03	-
Tj = 7 °C	COPd	3.80	-
Tj = 12 °C	COPd	5.77	-
Tj = bivalent temperature	COPd	1.83	-
Tj = operating limit	COPd	2.71	-
For air-to-water heat pumps: Tj = -15 °C	COPd	1.83	-
For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	2.19	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/86.0	dB
Annual energy consumption	Q_{HE}	30 683	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	28 500	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):	MH-SU110-RN8L
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	95.0	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	93.8	kW
Tj = 7 °C	Pdh	61.1	kW
Tj = 12 °C	Pdh	32.2	kW
Tj = bivalent temperature	Pdh	61.1	kW
Tj = operating limit	Pdh	93.8	kW
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW
Bivalent temperature	T_{biv}	7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.14	kW
Standby mode	P_{sb}	0.70	kW
Thermostat-off mode	P_{to}	0.14	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	235.0	%
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	2.89	-
Tj = 7 °C	COPd	5.29	-
Tj = 12 °C	COPd	8.03	-
Tj = bivalent temperature	COPd	5.29	-
Tj = operating limit	COPd	2.89	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	1.22	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/80.0	dB
Annual energy consumption	Q_{HE}	21 332	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	32 500	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):	MH-SU110-RN8L
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	80.0	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	80.0	kW
Tj = 7 °C	Pdh	52.2	kW
Tj = 12 °C	Pdh	31.1	kW
Tj = bivalent temperature	Pdh	52.2	kW
Tj = operating limit	Pdh	80.0	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.14	kW
Standby mode	P_{sb}	0.70	kW
Thermostat-off mode	P_{to}	0.14	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	167.4	%
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	2.04	-
Tj = 7 °C	COPd	3.84	-
Tj = 12 °C	COPd	5.66	-
Tj = bivalent temperature	COPd	3.84	-
Tj = operating limit	COPd	2.04	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°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}	-/80.0	dB
Annual energy consumption	Q_{HE}	25 115	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	32 500	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):	MH-SU110-RN8L
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	95.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	85.5	kW
Tj = 2 °C	Pdh	50.0	kW
Tj = 7 °C	Pdh	33.9	kW
Tj = 12 °C	Pdh	85.5	kW
Tj = bivalent temperature	Pdh	94.4	kW
Tj = operating limit	Pdh	47.6	kW
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW
Bivalent temperature	T_{biv}	-7	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	Cdh	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.14	kW
Standby mode	P_{sb}	0.70	kW
Thermostat-off mode	P_{to}	0.14	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	167.0	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	3.03	-
Tj = 2 °C	COPd	3.73	-
Tj = 7 °C	COPd	6.23	-
Tj = 12 °C	COPd	8.02	-
Tj = bivalent temperature	COPd	3.03	-
Tj = operating limit	COPd	2.38	-
For air-to-water heat pumps: Tj = -15 °C	COPd		-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	0.55	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/80.0	dB
Annual energy consumption	Q_{HE}	46 188	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	32 500	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):	MH-SU110-RN8L
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	80.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	69.3	kW
Tj = 2 °C	Pdh	42.0	kW
Tj = 7 °C	Pdh	28.3	kW
Tj = 12 °C	Pdh	38.0	kW
Tj = bivalent temperature	Pdh	69.3	kW
Tj = operating limit	Pdh	79.7	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.14	kW
Standby mode	P_{sb}	0.70	kW
Thermostat-off mode	P_{to}	0.14	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	127.0	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	2.01	-
Tj = 2 °C	COPd	3.10	-
Tj = 7 °C	COPd	4.52	-
Tj = 12 °C	COPd	6.03	-
Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	COPd	1.76	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	0.29	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/80.0	dB
Annual energy consumption	Q_{HE}	50 858	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	32 500	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):	MH-SU110-RN8L
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	80.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	47.3	kW
Tj = 2 °C	Pdh	29.4	kW
Tj = 7 °C	Pdh	27.5	kW
Tj = 12 °C	Pdh	32.3	kW
Tj = bivalent temperature	Pdh	67.3	kW
Tj = operating limit	Pdh	75.4	kW
For air-to-water heat pumps: Tj = -15 °C	Pdh	67.3	kW
Bivalent temperature	T_{biv}	-15	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.14	kW
Standby mode	P_{sb}	0.70	kW
Thermostat-off mode	P_{to}	0.14	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	146.2	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	3.07	-
Tj = 2 °C	COPd	4.23	-
Tj = 7 °C	COPd	6.36	-
Tj = 12 °C	COPd	7.77	-
Tj = bivalent temperature	COPd	2.56	-
Tj = operating limit	COPd	1.98	-
For air-to-water heat pumps: Tj = -15 °C	COPd	2.56	-
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	4.56	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/80.0	dB
Annual energy consumption	Q_{HE}	52 894	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	32 500	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):	MH-SU110-RN8L
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	80.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	43.2	kW
Tj = 2 °C	Pdh	25.4	kW
Tj = 7 °C	Pdh	25.6	kW
Tj = 12 °C	Pdh	31.5	kW
Tj = bivalent temperature	Pdh	56.2	kW
Tj = operating limit	Pdh	61.0	kW
For air-to-water heat pumps: Tj = -15 °C	Pdh	56.2	kW
Bivalent temperature	T_{biv}	-15	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.14	kW
Standby mode	P_{sb}	0.70	kW
Thermostat-off mode	P_{to}	0.14	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	108.6	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	2.49	-
Tj = 2 °C	COPd	3.07	-
Tj = 7 °C	COPd	4.66	-
Tj = 12 °C	COPd	6.43	-
Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	COPd	1.80	-
For air-to-water heat pumps: Tj = -15 °C	COPd	1.86	-
For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	6.97	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/80.0	dB
Annual energy consumption	Q_{HE}	60 183	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	32 500	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):	MH-SU140-RN8L
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	95.0	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	93.8	kW
Tj = 7 °C	Pdh	61.1	kW
Tj = 12 °C	Pdh	32.2	kW
Tj = bivalent temperature	Pdh	61.1	kW
Tj = operating limit	Pdh	93.8	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.14	kW
Standby mode	P_{sb}	0.70	kW
Thermostat-off mode	P_{to}	0.14	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	235.0	%
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	2.89	-
Tj = 7 °C	COPd	5.29	-
Tj = 12 °C	COPd	8.03	-
Tj = bivalent temperature	COPd	5.29	-
Tj = operating limit	COPd	2.89	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	1.22	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/92.0	dB
Annual energy consumption	Q_{HE}	21 332	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	50 000	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

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

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

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

Technical parameters

Model(s):	MH-SU140-RN8L
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	80.0	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	80.0	kW
Tj = 7 °C	Pdh	52.2	kW
Tj = 12 °C	Pdh	31.1	kW
Tj = bivalent temperature	Pdh	52.2	kW
Tj = operating limit	Pdh	80.0	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.14	kW
Standby mode	P_{sb}	0.70	kW
Thermostat-off mode	P_{to}	0.14	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	167.4	%
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	2.04	-
Tj = 7 °C	COPd	3.84	-
Tj = 12 °C	COPd	5.66	-
Tj = bivalent temperature	COPd	3.84	-
Tj = operating limit	COPd	2.04	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°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}	-/92.0	dB
Annual energy consumption	Q_{HE}	25 115	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	50 000	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):	MH-SU140-RN8L
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	95.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	85.5	kW
Tj = 2 °C	Pdh	50.0	kW
Tj = 7 °C	Pdh	33.9	kW
Tj = 12 °C	Pdh	85.5	kW
Tj = bivalent temperature	Pdh	94.4	kW
Tj = operating limit	Pdh	47.6	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.14	kW
Standby mode	P_{sb}	0.70	kW
Thermostat-off mode	P_{to}	0.14	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	167.0	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	3.03	-
Tj = 2 °C	COPd	3.73	-
Tj = 7 °C	COPd	6.23	-
Tj = 12 °C	COPd	8.02	-
Tj = bivalent temperature	COPd	3.03	-
Tj = operating limit	COPd	2.38	-
For air-to-water heat pumps: Tj = -15 °C	COPd		-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	0.55	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/92.0	dB
Annual energy consumption	Q_{HE}	46 188	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	50 000	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):	MH-SU140-RN8L
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	80.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	69.3	kW
Tj = 2 °C	Pdh	42.0	kW
Tj = 7 °C	Pdh	28.3	kW
Tj = 12 °C	Pdh	38.0	kW
Tj = bivalent temperature	Pdh	69.3	kW
Tj = operating limit	Pdh	79.7	kW
For air-to-water heat pumps: Tj = -15 °C	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}	0.14	kW
Standby mode	P_{sb}	0.70	kW
Thermostat-off mode	P_{to}	0.14	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_s	127.0	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	2.01	-
Tj = 2 °C	COPd	3.10	-
Tj = 7 °C	COPd	4.52	-
Tj = 12 °C	COPd	6.03	-
Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	COPd	1.76	-
For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	0.29	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/92.0	dB
Annual energy consumption	Q_{HE}	50 858	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	50 000	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

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

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

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

Technical parameters

Model(s):	MH-SU140-RN8L
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	80.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	47.3	kW
Tj = 2 °C	Pdh	29.4	kW
Tj = 7 °C	Pdh	27.5	kW
Tj = 12 °C	Pdh	32.3	kW
Tj = bivalent temperature	Pdh	67.3	kW
Tj = operating limit	Pdh	75.4	kW
For air-to-water heat pumps: Tj = -15 °C	Pdh	67.3	kW
Bivalent temperature	T_{biv}	-15	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.14	kW
Standby mode	P_{sb}	0.70	kW
Thermostat-off mode	P_{to}	0.14	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	146.2	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	3.07	-
Tj = 2 °C	COPd	4.23	-
Tj = 7 °C	COPd	6.36	-
Tj = 12 °C	COPd	7.77	-
Tj = bivalent temperature	COPd	2.56	-
Tj = operating limit	COPd	1.98	-
For air-to-water heat pumps: Tj = -15 °C	COPd	2.56	-
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	4.56	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/92.0	dB
Annual energy consumption	Q_{HE}	52 894	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	50 000	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):	MH-SU140-RN8L
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	80.0	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	43.2	kW
Tj = 2 °C	Pdh	25.4	kW
Tj = 7 °C	Pdh	25.6	kW
Tj = 12 °C	Pdh	31.5	kW
Tj = bivalent temperature	Pdh	56.2	kW
Tj = operating limit	Pdh	61.0	kW
For air-to-water heat pumps: Tj = -15 °C	Pdh	56.2	kW
Bivalent temperature	T_{biv}	-15	°C
Cycling interval capacity for heating	P_{cych}	-	kW
Degradation co-efficient (**)	C_{dh}	0.9	--
Power consumption in modes other than active mode			
Off mode	P_{off}	0.14	kW
Standby mode	P_{sb}	0.70	kW
Thermostat-off mode	P_{to}	0.14	kW
Crankcase heater mode	P_{ck}	0.00	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	ηs	108.6	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	COPd	2.49	-
Tj = 2 °C	COPd	3.07	-
Tj = 7 °C	COPd	4.66	-
Tj = 12 °C	COPd	6.43	-
Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	COPd	1.80	-
For air-to-water heat pumps: Tj = -15 °C	COPd	1.86	-
For air-to-water heat pumps: Operation limit temperature	TOL	-18	°C
Cycling interval efficiency	COP_{cyc}	-	-
Heating water operating limit temperature	W_{TOL}	65	°C
Supplementary heater			
Rated heat output (**)	P_{sup}	6.97	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L_{WA}	-/92.0	dB
Annual energy consumption	Q_{HE}	60 183	kWh

For air-to-water heat pumps: Rated air flow rate, outdoors	-	50 000	m^3/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m^3/h

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

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

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

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

Information requirements for comfort chillers

Model(s):	MH-SU50/65-RN8L
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	$P_{rated,c}$	57	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	197.0	%
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}	56.1	kW	Tj=+35 ˚C	EER_d	2.88	-
Tj=+30 ˚C	P_{dc}	42.4	kW	Tj=+30 ˚C	EER_d	4.00	-
Tj=+25 ˚C	P_{dc}	27.3	kW	Tj=+25 ˚C	EER_d	5.64	-
Tj=+20 ˚C	P_{dc}	19.3	kW	Tj=+20 ˚C	EER_d	8.81	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.08	kW	Crankcase heater mode	P_{CK}	0.00	kW
Thermosat-off mode	P_{TO}	0.35	kW	Standby mode	P_{SB}	0.08	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	22 000	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/80	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	-	675	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):	MH-SU75-RN8L
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	$P_{rated,c}$	70	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	197.0	%
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}	69.5	kW	Tj=+35 ˚C	EER_d	2.64	-
Tj=+30 ˚C	P_{dc}	51.0	kW	Tj=+30 ˚C	EER_d	4.04	-
Tj=+25 ˚C	P_{dc}	32.2	kW	Tj=+25 ˚C	EER_d	5.50	-
Tj=+20 ˚C	P_{dc}	15.1	kW	Tj=+20 ˚C	EER_d	8.63	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.08	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.35	kW	Standby mode	P_{SB}	0.08	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	28 500	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/86	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	-	675	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):	MH-SU110-RN8L
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	$P_{rated,c}$	100	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	189.0	%
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}	97.0	kW	Tj=+35 °C	EER_d	2.91	-
Tj=+30 °C	P_{dc}	77.6	kW	Tj=+30 °C	EER_d	3.90	-
Tj=+25 °C	P_{dc}	49.1	kW	Tj=+25 °C	EER_d	5.78	-
Tj=+20 °C	P_{dc}	29.5	kW	Tj=+20 °C	EER_d	7.05	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.14	kW	Crankcase heater mode	P_{CK}	0.00	kW
Thermosat-off mode	P_{TO}	0.70	kW	Standby mode	P_{SB}	0.14	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	32 500	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/80	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	-	675	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):	MH-SU140-RN8L
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	$P_{rated,c}$	130	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	189.0	%
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}	128.2	kW	Tj=+35 ˚C	EER_d	2.55	-
Tj=+30 ˚C	P_{dc}	96.2	kW	Tj=+30 ˚C	EER_d	3.79	-
Tj=+25 ˚C	P_{dc}	60.5	kW	Tj=+25 ˚C	EER_d	5.65	-
Tj=+20 ˚C	P_{dc}	29.5	kW	Tj=+20 ˚C	EER_d	7.50	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.14	kW	Crankcase heater mode	P_{CK}	0.00	kW
Thermosat-off mode	P_{TO}	0.70	kW	Standby mode	P_{SB}	0.14	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	50 000	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/92	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	-	675	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.

Conditions(℃)	model(s):	Capacity/kW	Powerinput/kW	COP
Ambient Temperature： 7/6 Water temperature： 30/35	MH-SU50-RN8L	49.5	10.47	4.73
	MH-SU65-RN8L	64.0	15.24	4.20
	MH-SU75-RN8L	77.0	19.74	3.90
	MH-SU110-RN8L	112.0	27.00	4.15
	MH-SU140-RN8L	142.0	38.17	3.72
Ambient Temperature： 7/6 Water temperature： 40/45	MH-SU50-RN8L	49.6	12.25	4.05
	MH-SU65-RN8L	65.0	18.30	3.55
	MH-SU75-RN8L	75.0	22.06	3.40
	MH-SU110-RN8L	110.0	29.90	3.68
	MH-SU140-RN8L	140.0	44.73	3.13
Ambient Temperature： 7/6 Water temperature： 47/55	MH-SU50-RN8L	49.8	15.56	3.20
	MH-SU65-RN8L	64.0	21.33	3.00
	MH-SU75-RN8L	66.0	22.15	2.98
	MH-SU110-RN8L	106.0	35.30	3.00
	MH-SU140-RN8L	126.0	49.22	2.56
Ambient Temperature： 7/6 Water temperature： 55/65	MH-SU50-RN8L	49.9	19.88	2.51
	MH-SU65-RN8L	60.0	26.10	2.30
	MH-SU75-RN8L	61.0	26.75	2.28
	MH-SU110-RN8L	100.0	42.90	2.33
	MH-SU140-RN8L	110.0	50.00	2.20
Ambient Temperature： 2/1 Water temperature： 30/35	MH-SU50-RN8L	43.2	13.33	3.24
	MH-SU65-RN8L	50.6	16.99	2.98
	MH-SU75-RN8L	58.8	20.70	2.84
	MH-SU110-RN8L	100.0	33.33	3.00
	MH-SU140-RN8L	115.4	41.21	2.80
Ambient Temperature： 2/1 Water temperature： 40/45	MH-SU50-RN8L	42.0	14.24	2.95
	MH-SU65-RN8L	49.6	18.51	2.68
	MH-SU75-RN8L	57.6	23.90	2.41
	MH-SU110-RN8L	96.8	35.20	2.75
	MH-SU140-RN8L	112.4	44.96	2.50
Ambient Temperature： 2/1 Water temperature： 47/55	MH-SU50-RN8L	41.5	17.15	2.42
	MH-SU65-RN8L	47.8	21.63	2.21
	MH-SU75-RN8L	56.4	26.23	2.15
	MH-SU110-RN8L	94.7	41.17	2.30
	MH-SU140-RN8L	105.5	47.52	2.22
Ambient Temperature： -7/-8 Water temperature： 30/35	MH-SU50-RN8L	38.0	13.33	2.85
	MH-SU65-RN8L	43.5	16.67	2.61
	MH-SU75-RN8L	48.5	19.40	2.50
	MH-SU110-RN8L	91.7	34.73	2.64
	MH-SU140-RN8L	100.0	39.22	2.55
Ambient Temperature： -7/-8 Water temperature： 40/45	MH-SU50-RN8L	37.4	15.52	2.41
	MH-SU65-RN8L	42.1	18.30	2.30
	MH-SU75-RN8L	45.8	21.60	2.12
	MH-SU110-RN8L	87.6	37.28	2.35
	MH-SU140-RN8L	92.5	43.03	2.15

Conditions(℃)	model(s):	Capacity/kW	Powerinput/kW	COP
Ambient Temperature： 35/24 Water temperature： 23/18	MH-SU50-RN8L	50.4	9.55	5.28
	MH-SU65-RN8L	76.0	20.27	3.75
	MH-SU75-RN8L	86.0	23.12	3.72
	MH-SU110-RN8L	128.0	33.70	3.80
	MH-SU140-RN8L	138.0	36.32	3.80
Ambient Temperature： 35/24 Water temperature： 12/7	MH-SU50-RN8L	50.3	14.44	3.48
	MH-SU65-RN8L	57.0	19.00	3.00
	MH-SU75-RN8L	70.0	26.80	2.61
	MH-SU110-RN8L	100.0	32.78	3.05
	MH-SU140-RN8L	130.0	50.00	2.60

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

材质	80g双胶纸
规格	A4
颜色	黑白
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）