



## APPLICABLE MODELS AND MAIN PARAMETERS

Model		MC-SU30M-RN8L	MC-SU60M-RN8L			
Cooling capacity	kW	27.5	55			
Heating capacity	kW	32.0	62			
Standard cooling input	kW	11.0	23			
Cooling rated current	A	17.0	35.5			
Standard heating input	kW	10.7	21.5			
Heating rated current	A	16.5	33.1			
Power supply		380-415V 3N~ 50Hz				
Operation control	Control of wired controller, auto startup, running state display, failure alert etc.					
Safety device	High or low pressure swit Overcurrent device, powe	essure switch, freeze-proof device, water flow volume controller, evice, power phase sequence device etc.				
Refrigerant	Туре	R-32				
Water pipe system	Charging volume kg	7.9	14.0			
	Waterflow volume m <sup>3</sup> /h	5.0	9.8			
	Hydraulic resistance lose kPa	150	200			
	Water side heat exchanger	Plate heat exchanger				
	Max. pressure MPa 1.0					
	Min. pressure MPa	0.05				
	Inlet and outlet pipe dia.	DN40	DN50			
Air side heat exchanger	Туре	Fin	coil model			
	Air flow volume m <sup>3</sup> /h	12500	24000			
	L mm	1870	2220			
Outline dimension N.W. of the unit	W mm	1000	1055			
	H mm	1175	1325			
Net Weight	kg	315	515			
Operation Weight	kg	325	525			
Packing dimension	L × W × H mm	1910×1035×1370	2250×1090×1530			

## INFORMATION REQUIREMENTS

Ir	formation	requirem	ents for co	omfort chillers					
Model (s):	MC-SU30M-RN8L								
Outdoor side heat exchanger of chiller:		Air to water							
Indoor side heat exchanger chiller:	Water								
Туре:	Compressor driven vapour compression								
Driver of compressor:	Electric motor								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity	P <sub>rated,c</sub>	28.29	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	166.89	%		
Declared cooling capacity for part load at give	r temper	ature T <sub>j</sub>	Declared energy efficiency ratio for part load at given outdoor temperature $T_{j}$						
T <sub>j</sub> = + 35°C	P <sub>dc</sub>	28.29	kW	T <sub>j</sub> = + 35°C	EER <sub>d</sub>	2.60			
T <sub>j</sub> = + 30°C	P <sub>dc</sub>	20.74	kW	T <sub>j</sub> = + 30°C	EER <sub>d</sub>	3.79			
$T_j = + 25^{\circ}C$	P <sub>dc</sub>	12.79	kW	T <sub>j</sub> = + 25°C	EER <sub>d</sub>	4.98			
$T_j = + 20^{\circ}C$	P <sub>dc</sub>	5.87	kW	T <sub>j</sub> = + 20°C	EER₀	5.72			
Degradation co-efficient for chillers (*)	C <sub>dc</sub>	0.90							
Power	consumpti	on in mo	des other	than 'active mode'					
Off mode	P <sub>OFF</sub>	0.020	kW	Crankcase heater mode	Рск	0.000	kW		
Thermostat-off mode	P <sub>TO</sub>	0.290	kW	Standby mode	P <sub>SB</sub>	0.020	kW		
	,	Othe	er items						
Capacity control	Variable			For air-to-water comfort chillers: air flow rate, outdoor measured		12500	m³/h		
Sound power level, indoors/outdoors	L <sub>WA</sub>	-/78	dB	For water / brine-to- water					
Emissions of nitrogen oxides (if applicable)	NO <sub>x</sub> (**)		mg/ kWh input GCV	chillers: Rated brine or water flow rate, outdoor side heat exchanger			m³/h		
GWP of the refrigerant		675	kg CO <sub>2</sub> eq (100 years)						
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 (**) From 26 September 2018.	then the d	efault de	gradation	coefficient of chillers shall be	0,9.				

Information requi	rements for he	at pump	space hea	aters and heat pump combinati	on heaters		
Model (s):				MC-SU30M-RN8L			
Air-to-water heat pump:							
Water-to-water heat pump:							
Brine-to-water heat pump:							
Low-temperature heat pump:							
For low-temperature heat pumps, pa declared for medium-temperature ap	arameters sha plication. Para	ow-temperature application. Or eclared for average climate con	therwise, para ditions.	ameters sl	nall be		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (3) at Tdesignh =	Prated =Pdesignh	24.40	kW	Seasonal space heating	η <sub>s</sub>	156.50	%
Seasonal coefficient of performance	SCOP	3.99		Active mode coef. of performance	SCOPon		
				Net seasonal coef. of performance	SCOP <sub>net</sub>		
		o			0001		
$T_j = -7^{\circ}C$	Pdh	21.55	kW	$T_j = -7^{\circ}C$	COPd	2.85	
$1_{j} = +2^{\circ}C$	Pan	13.63	KVV	$I_j = +2^{\circ}C$	COPd	3.89	
$I_{j} = +7^{\circ}C$	Pdh	8.69	KVV	$I_j = +7^{\circ}C$	COPd	5.18	
$I_{j} = +12^{\circ}C$	Pdh	5.98	KVV	$I_{j} = +12^{\circ}C$	COPd	4.76	
I <sub>j</sub> = bivalent temperature	Pdh	21.55	KVV	I <sub>j</sub> = bivalent temperature	COPd	2.85	
T <sub>j</sub> = operation limit temperature	Pdh	24.11	kW	temperature	COPd	2.55	
For air-to-water heat pumps: $T_j = -15 \degree C$ (if TOL < $-20 \degree C$ )	Pdh		kW	For air-to-water heat pumps: T <sub>j</sub> =–15°C (if TOL<–20°C)	COPd		
Bivalent temperature (maximum +2°C)	Tbiv	-7	°C	For air-to-water HP:	TOI	10	•
Cycling interval capacity for heating at T <sub>i</sub> = -7°C	Pcych		kW	(maximum-7°C)	TOL	-10	
Degradation coefficient <sup>(4)</sup> at T= -7°C	Cdh			Heating water operating limit temperature	WTOL		°C
Cycling interval capacity for heating at T <sub>i</sub> =+2°C	Pcych		kW	Cycling interval efficiency at $T_i = +7^{\circ}C$	COPcyc		
Degradation coefficient <sup>(4)</sup> at T= +2°C	Cdh			Cycling interval capacity for heating at T =+12°C	COPcyc		
Cycling interval capacity for heating at T <sub>i</sub> = +7°C	Pcych		kW	Cycling interval efficiency at T <sub>i</sub> = +7°C	COPcyc		
Degradation coefficient <sup>(4)</sup> at $T_i = +7^{\circ}C$	Cdh			Cycling interval capacity for heating at T <sub>i</sub> =+12°C	COPcyc		
Cycling interval capacity for heating at T <sub>j</sub> =+12°C	Pcych		kW	Supplementary heater (to be declared even if not provide in the unit)			ovided
Degradation coefficient <sup>(4)</sup> at T <sub>i</sub> = +12°C	Cdh			Rated heat output (3)	Psup = sup		kW
Power consumption in mode	s other than a	ctive mod	le	Type of energy input	(1)		
Off mode	POFF	0.020	kW				1
Thermostat-off mode	PTO	0.440	kW	Outdoor hea	at exchanger		
Standby mode	P <sub>SB</sub>	0.020	kW	For air-to-water HP: Rated	0	10500	3/1
Crankcase heater mode	Рск	0.000	kW	air flow rate	Qairsource	12500	
Other items							
Capacity control	Fixed/ Variable	Var	iable	water flow rate	Q <sub>watersou</sub> rce		m³/h
Sound power level, indoors	L <sub>MA</sub>	x	dB (A)	For brine-to-water: Rated	_		3
Sound power level outdoors	L	78	dB (A)	brine flow rate	Qbrinesource		m /h
iontact details Name and address of the manufacturer or its authorised representative					entative.	I	

(1) 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).
(2) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.