

Information requirements for comfort chillers												
Model(s):			MC-SU30M/RN1L-2									
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>	28.2	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	154	%				
Declared cooling capacity for part load at given outdoor temperature T <sub>i</sub>					Declared energy efficiency ratio for part load at given outdoor temperature T <sub>j</sub>							
T <sub>j</sub> = + 35 °C	P <sub>dc</sub>	28.2	kW		T <sub>j</sub> = + 35 °C	EERd	2.58					
T <sub>j</sub> = + 30 °C	P <sub>dc</sub>	22.3	kW		T <sub>j</sub> = + 30 °C	EER <sub>d</sub>	3.74					
T <sub>j</sub> = + 25 °C	P <sub>dc</sub>	14.67	kW		T <sub>j</sub> = + 25 °C	EERd	5.23					
T <sub>j</sub> = + 20 °C	P <sub>dc</sub>	8.51	kW		T <sub>j</sub> = + 20 °C	EERd	7.14					
Degradation co-efficient for chillers (*)	C <sub>dc</sub>	0.9										
Power consumption in modes other than 'active mode'												
Off mode	POFF	0.075	kW		Crankcase heater mode	Рск	0.075	kW				
Thermostat-off mode	Ρτο	0.425	kW		Standby mode	P <sub>SB</sub>	0.075	kW				
Other items												
Capacity control		variab	le		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 chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m³/h				
Emissions of nitrogen oxides (if applicable)	NO <sub>x</sub> (**)		mg/kWh input GCV									
GWP of the refrigerant	-	2088	kg CO <sub>2 eq</sub> (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 <sub>dc</sub> is not determined by mea (**) From 26 September 2018.	asurement	then the	e default degr	adat	ion coefficient of chillers shall be 0	,9.						
(*) If C <sub>dc</sub> is not determined by mea (**) From 26 September 2018.	surement	then the	e default degr	adat	ion coefficient of chillers shall be 0	,9.						

nformation requirement	s for heat	t pump sj	pace he	aters and heat pump combination hea	ters					
Model(s) :				MC-SU30M-RN1L-2						
Air-to-water heat pump:				YES						
Nater-to-water heat pump:				NO						
Brine-to-water heat pump:				NO						
ow-temperature heat pump:				YES						
Equipped with a supplementa	ry heater:			NO						
Heat pump combination heat	er:			NO						
Declared climate condition:				AVERAGE						
Parameters are declared for I	ow-tempera	ature applie	cation.							
Item	Symbol	Value	Unit	Item Symbol Value						
Rated heat output (*)	Prated	20.8	KW	Seasonal space heating energy efficiency	ηs	128	%			
Declared capacity for heating for part load at outdoor emperature Tj				Declared coefficient of performance or primary energy ratio for part load at outdoor temperature Tj						
Гј = -7 °С	Pdh	18.47	KW	Tj = -7 °C	COPd	2.56	-			
Гј = 2 °С	Pdh	10.26	KW	Tj = 2 °C	COPd	3.64	-			
Гј = 7 °С	Pdh	6.69	KW	Tj = 7 °C	COPd	4.73	-			
Гј = 12 °С	Pdh	6.63	KW	Tj = 12 °C	COPd	6.04	-			
Fj=bivalent temperature	Pdh	18.47	KW	Tj=bivalent temperature	COPd	2.56	-			
Гј = operating limit	Pdh	21.18	KW	Tj = operating limit	COPd	2.25	-			
For air-to-water heat pumps: Ij = -15C	Pdh	-	кw	For air-to-water heat pumps: Tj = -15C	COPd	-	-			
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	С			
Cycling interval capacity orheating	Pcy ch	-	кw	Cycling interval efficiency	COPcy c	-	-			
Degradation co-efficient (**)	Cdh	0.9		Heating water operating limit temperature	WTOL	-	С			
Power consumption in modes	other than	active mo	de	Supplementary heater						
Off mode	Poff	0.075	kW		_					
Standby mode	Psb	0.075	kW	Rated heat output (**)	P <sub>sup</sub>					
Thermostat-off mode	Pto	0.5	kW	Type of energy input		-				
Crankcase heater mode	Pck	0.075	kW							
Other items										
Capacity control		variable		For air-to-water heat pumps: Rated air flow rate, outdoors	-	12500	m³/h			
Sound power level, outdoors	LWA	78	dB	For water- or brine-to-water heat pumps:						
Annual energy consumption	QHE	13189	kWh	Rated brine or water flow rate, outdoor heat exchanger		-	m³/h			
For heat pump combination h	eater:			· · · · · · · · · · · · · · · · · · ·						
Declared load profile	-			Water heating energy fficiency	ηwh	-	%			
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qf uel	-	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 hea neating	ters and he	eat pump co	ombinatio	on heaters, the rated heat output Prated is equ	al to the de	sign load	d for			

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,

