Infor	mation red	quireme	nts for c	omfort chillers						
Model(s):	MC-SU90-RN8L-B									
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>	81.85	kW	Seasonal space cooling energy efficiency	η <sub>s,c</sub>	180.18	%			
Declared cooling capacity for part load at g	iven outdo	or tempe	erature T <sub>i</sub>	Declared energy efficiency ratio for part load at given outdoor temperature $\ensuremath{T_{j}}$						
T <sub>j</sub> = + 35°C	P <sub>dc</sub>	81.85	kW	T <sub>j</sub> = + 35°C	EER <sub>d</sub>	2.93				
$T_j = + 30^{\circ}C$	P <sub>dc</sub>	59.44	kW	$T_{j} = + 30^{\circ}C$	EER <sub>d</sub>	4.20				
T <sub>j</sub> = + 25°C	P <sub>dc</sub>	38.49	kW	T <sub>j</sub> = + 25°C	EER <sub>d</sub>	5.28				
$T_j = +20^{\circ}C$	P <sub>dc</sub>	26.51	kW	$T_{j} = + 20^{\circ}C$	EER <sub>d</sub>	5.91				
Degradation co-efficient for chillers (*)	C <sub>dc</sub>	0.9								
Power of	onsumptio	n in mod	les other	than 'active mode'						
Off mode	POFF	0.090	kW	Crankcase heater mode	Рск	0	kW			
Thermostat-off mode	P <sub>TO</sub>	0.700	kW	Standby mode	P <sub>SB</sub>	0.090	kW			
		Other	items							
Capacity control	Variable			For air-to-water comfort chillers: air flow rate, outdoor measured		35000	m³/h			
Sound power level, indoors/outdoors	L <sub>WA</sub>	83	dB							
Emissions of nitrogen oxides (if applicable)	NO <sub>x</sub> (**)		mg/ kWh input GCV	For water / brine-to- water chillers: Rated brine or water flow rate, outdoor side heat exchanger			m³/h			
GWP of the refrigerant		675	kg CO <sub>2</sub> eq (100 years)							
Standard rating conditions used:	Low temp	erature a	applicatio	n						
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	gradatior	n coefficient of chillers shall b	e 0,9.					

Information requirements for heat pump space heaters and heat pump combination heaters											
Model(s): MC-SU90-RN8L-B											
Air-to-water heat pump:									[yes]		
Water-to-water heat pump:									[yes/no]		
Brine-to-water heat pump:									[yes/no]		
Low-temperature heat pump:									[yes/no]		
Equipped with a supplementary heater:									[yes/no]		
Heat pump combination heater:									[yes/no]		
For low-temperature heat pumps, parameters shall be declared for low-temperature application. Otherwise, parameters sha be declared for medium-temperature application. Parameters shall be declared for average climate conditions.											
Item		Symbol	-	Value	_	-	Item	Symbol	Value	Unit	
Rated heat output <sup>(3)</sup> at Tdesignh = -10 (-11) °C	)	Prated =Pdesigr		77.1	kW	T	Seasonal space heating energy efficiency	η₅	155.90	%	
Seasonal coefficient of performance		SCOP		3.97		Ī	Active mode coef. of performance	SCOPon			
							Net seasonal coef. of performance	SCOP <sub>net</sub>			
	Ĺ										
T <sub>j</sub> = -7°C		Pdh	$\square$	68.21	kW	Ĺ	$T_j = -7^{\circ}C$	COPd	2.49		
T <sub>j</sub> = +2°C		Pdh		43.18	kW		$T_j = +2^{\circ}C$	COPd	3.78		
$T_j = +7^{\circ}C$		Pdh	$\downarrow$	27.65	i kW	L	$T_j = +7^{\circ}C$	COPd	5.63		
T <sub>j</sub> = +12°C		Pdh	$\downarrow$	28.53	-	Ļ	T <sub>j</sub> = +12°C	COPd	5.70		
T <sub>j</sub> = bivalent temperature		Pdh	$\downarrow$	68.21	-	Ļ	T <sub>j</sub> = bivalent temperature	COPd	2.49		
T <sub>j</sub> = operation limit temperature		Pdh	$\downarrow$	71.09	kW	Ļ	T <sub>j</sub> = operation limit temperature	COPd	2.36		
For air-to-water heat pumps: $T_j = -15 \degree C$ (if TOL < $-20 \degree C$ )		Pdh			kW		For air-to-water heat pumps: $T_j = -15^{\circ}C$ (if TOL<-20°C)	COPd			
Bivalent temperature (maximum +2°0			$\downarrow$	-7	°C	Ļ	For air-to-water HP: Operation	TO	10	*0	
Cycling interval capacity for heating a $T_j = -7^{\circ}C$	at	Pcych			kW		limit temperature <sub>(maximum-7°C)</sub>	TOL	-10	°C	
Degradation coefficient <sup>(4)</sup> at T= -7°C		Cdh	$\downarrow$			╞	Heating water operating limit temperature	WTOL		°C	
Cycling interval capacity for heating at $T_j = +2^{\circ}C$		Pcych			kW		Cycling interval efficiency at	COPcyc			
Degradation coefficient <sup>(4)</sup> at T= +2°C		Cdh					$T_j = +7^{\circ}C$				
Cycling interval capacity for heating at $T_j = +7^{\circ}C$		Pcych	/ch		kW		Cycling interval capacity for heating at T <sub>j</sub> =+12°C	COPcyc			
Degradation coefficient <sup>(4)</sup> at T <sub>j</sub> = +7°C		Cdh	Cdh				Cycling interval efficiency at T <sub>j</sub> = +7°C	COPcyc			
Cycling interval capacity for heating a T <sub>j</sub> =+12°C	PCych				kW		Cycling interval capacity for heating at Tj=+12°C	COPcyc			
Degradation coefficient <sup>(4)</sup> at T <sub>j</sub> = +12°C Cdh							Supplementary heater (to be d	eclared ev	en if not	t	
Power consumption in modes	othe	r than activ	ve r	node		L	provided in the unit)				
Off mode		P <sub>OFF</sub>		0.090	kW	Γ	Rated heat output(3)	Psup		L\\/	
Thermostat-off mode		Ρτο	T	0.700	kW	Γ	Type of energy input = sup			kW	
Standby mode		P <sub>SB</sub>		0.090	kW	I	Outdoor heat exchanger				
Crankcase heater mode		Р <sub>ск</sub>		0	kW		For air-to-water HP: Rated air flow rate		35000	m³/h	
Other items					L	For water-to-water: Rated					
	ixed/	/ariable			/ariable		water flow rate	Q <sub>watersource</sub>		m³/h	
Sound power level, indoors	L	WA		- d	B(A)	1	For brine-to-water: Rated	0		m³/h	
Sound power level, outdoors	L	WA	8	83 dB(/			brine flow rate	Q <sub>brinesource</sub>		m /n	
Contact details Name and address of the manufacturer or its authorised representative.											
<ol> <li>For heat pump space heaters and load for heating Pdesignh, and the ra for heating sup(Tj).</li> <li>If Cdh is not determined by measure</li> </ol>	ted h	eat output	t of	a sup	pleme	nt	ary heater Psup is equal to the				

