Information requiremen	its for co	omfort o	chillers								
Model(s):		MC-SU60/RN1L									
Outdoor side heat exchanger of chiller:		Air to water									
Indoor side heat exchanger chiller:		Water to air									
Туре:		Compressor driven vapour compression									
Driver of compressor:		Electric motor									
			·				1				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit			
Rated cooling capacity	Prate d,c	55.5	kW		Seasonal space cooling energy efficiency	η <sub>s,c</sub>	154	%			
Declared cooling capacity for pa	Declared cooling capacity for part load at given outdoor temperature $T_{j}$				Declared energy efficiency ratio for part load at given outdoor temperature $\mathbf{T}_{\mathbf{j}}$						
T <sub>j</sub> = + 35°C	P <sub>dc</sub>	55.5	kW		T <sub>j</sub> = + 35°C	EER d	2.44				
T <sub>j</sub> = + 30°C	P <sub>dc</sub>	41.8	kW		T <sub>j</sub> = + 30°C	EER d					
T <sub>j</sub> = + 25°C	P <sub>dc</sub>	25.9	kW		T <sub>j</sub> = + 25°C	EER d	4.82				
T <sub>j</sub> = + 20°C	P <sub>dc</sub>	11.9	kW	ĺ	T <sub>j</sub> = + 20°C	EER d	4.82				
Degradation co-efficient for chillers (*)	C <sub>dc</sub>	0.9									
		Power co	nsumption in modes	s o	other than 'active mode'						
Off mode	P <sub>OFF</sub>	0.07	kW		Crankcase heater mode	P <sub>ck</sub>	0.07	kW			
Thermostat-off mode	Рто	0.40	kW		Standby mode	P <sub>SB</sub>	0.07	kW			
Other items					•						
Capacity control		variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	24000	m³/h			
Sound power level, indoors / outdoors	LWA	-/87	dB		For water / brine-to-water rate,	-		m³/h			
Emissions of nitrogen oxides (if applicable)	NO <sub>x</sub> (**)	-	mg/kWh input GCV		outdoor side heat exchanger						
GWP of the refrigerant	_	2088	kg CO₂ eq (100 years)	Γ							
Standard rating conditions used	j:	Low tem	perature 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 m (**) From 26 September 2018.	easuremer	nt then the	default degradation	10	coefficient of chillers shall be 0,9.						



	out bamb ob		J una no	at pump combination heaters			
lodel(s):				MC-SU60/RN1L			
ir-to-water heat pump:							[yes]
/ater-to-water heat pump:							[yes/no
rine-to-water heat pump:							[yes/no
ow-temperature heat pump:							[yes/no
quipped with a supplementary heater:							[yes/no
eat pump combination heater:							[yes/nc
or low-temperature heat pumps, param	eters shall be de	clared for low-	temperature	application.			
therwise, parameters shall be declared	for medium-tem	perature applic	cation. Para	meters shall be declared for average climate co	nditions.		
em	Symbol	Value	Unit	Item	Symbol	Value	Unit
ated heat output <sup>(3)</sup> Tdesignh = -10 (-11)°C	Prated = Pdesignh	31	kW	Seasonal space heating energy efficiency	η₅	151	%
easonal coefficient of performance	SCOP	3.85	-	Active mode coef. of performance	SCOPon	X.XX	<del>  -</del>
· · · · · · · · · · · · · · · · · · ·				Net seasonal coef. of performance	SCOP <sub>net</sub>	X.XX	<del> </del>
T <sub>j</sub> = - 7°C	Pdh	27.3	kW	T <sub>i</sub> = - 7°C	COPd	2.70	T -
T <sub>i</sub> = + 2°C	Pdh	17.1	kW	T <sub>i</sub> = + 2°C	COPd	3.69	<del> </del>
T <sub>i</sub> = + 7°C	Pdh	15.4	kW	T <sub>i</sub> = + 7°C	COPd	5.04	<del> </del> -
T <sub>i</sub> = + 12°C	Pdh	12.5	kW	T <sub>i</sub> = + 12°C	COPd	6.43	<del>  -</del>
T <sub>i</sub> = bivalent temperature	Pdh	27.3	kW	T <sub>i</sub> = bivalent temperature	COPd	2.70	┪-
T <sub>i</sub> = operation limit temperature	Pdh	31.5	kW	T <sub>i</sub> = operation limit temperature	COPd	2.50	┪-
or air-to-water heat pumps: T <sub>j</sub> = - 15°C (if TOL < - 20°C)	Pdh	x,x	kW	For air-to-water heat pumps: T <sub>j</sub> = - 15°C (if TOL < - 20°C)	COPd	x,xx	-
Bivalent temperature (maximum +2°C)	Tbiv	-7	°C	For air-to-water HP: Operation limit tem- perature (maximum -7°C)	TOL	-10	°C
Cycling interval capacity for heating at $T_j = -7^{\circ}C$	Pcych	x,x	kW	Heating water operating limit temperature	WTOL	х	°C
Degradation coefficient (4) at T <sub>j</sub> = -7°C	Cdh	x,xx	<u> </u>	Cycling interval efficiency			$\vdash$
Cycling interval capacity for heating at $T_j = +2$ °C	Pcych	x,x	kW	at Tj= +7°C  Cycling interval efficiency	COPcyc	x,xx	-
Degradation coefficient (4) at T <sub>i</sub> = +2°C	Cdh	x,xx	_	at Tj= +12°C	COPcyc	x,xx	-
Cycling interval capacity for heating at T <sub>j</sub> = +7°C	Pcych	x,x	kW	Cycling interval efficiency at Tj= +7°C	COPcyc	x,xx	-
Degradation coefficient (4) at T <sub>i</sub> = +7°C	Cdh	x,xx	<u> </u>	Cycling interval efficiency			$\vdash$
Cycling interval capacity for heating at T <sub>j</sub> = +12°C	Pcych	x,x	kW	at Tj= +12°C	COPcyc	x,xx	
Degradation coefficient (4) at T <sub>j</sub> = +12°C	Cdh	x,xx	_				
Power consumption in mo	des other than a	ctive mode		Supplementary heater (to be declared even	if not provided in	n the unit)	
Off mode	P <sub>OFF</sub>	0.08	kW		Psup		T
Thermostat-off mode	P <sub>TO</sub>	0.40	kW	Rated heat output (3)	= sup(Tj)	x,x	kW
Standby mode	P <sub>SB</sub>	0.08	kW	Type of energy input			
Crankcase heater mode	Pck	0.08	kW				
ther items				Outdoor heat exchanger			
apacity control	fixed/variable	I/variable variable		For air-to-water HP: Rated air flow rate	Q <sub>airsource</sub>	24000	m³/
ound power level, indoors	L <sub>WA</sub>	х	dB(A)	For water-to-water: Rated water flow rate	Q <sub>watersource</sub>	х	m³/h
ound power level, outdoors	L <sub>WA</sub>	87	dB(A)	For brine-to-water: Rated brine flow rate	Q <sub>brinesource</sub>	х	m³/h
			1	1.1			

<sup>(1)</sup> 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).

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