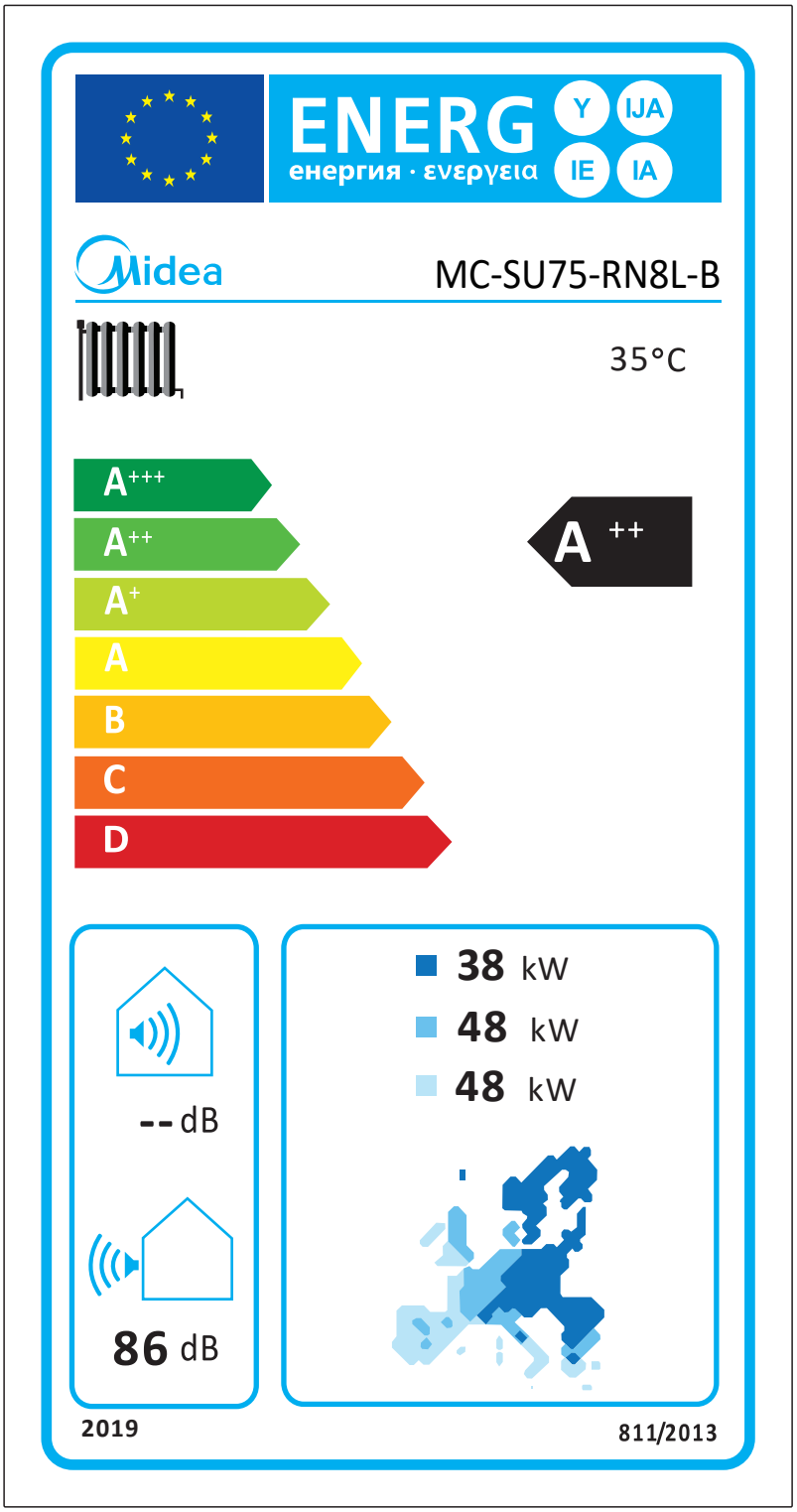
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Midea
MC-SU75-RN8L-B
35°C
A+++
A++
A+
A
B
C
D
A ++
-- dB
86 dB
38 kW
48 kW
48 kW
2019
811/2013

Midea®

Information requirements for comfort chillers							
Model(s):	MC-SU75-RN8L-B						
Outdoor side heat exchanger of chiller:	Air						
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	$P_{rated,c}$	70.00	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	169	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
T_j = + 35°C	P_{dc}	69.07	kW	T_j = + 35°C	EER_d	2.63	--
T_j = + 30°C	P_{dc}	52.1	kW	T_j = + 30°C	EER_d	3.79	--
T_j = + 25°C	P_{dc}	33.09	kW	T_j = + 25°C	EER_d	5.44	--
T_j = + 20°C	P_{dc}	17.81	kW	T_j = + 20°C	EER_d	8.07	--
Degradation co-efficient for chillers (*)	C_{dc}	0.90	--				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.08	kW	Crankcase heater mode	P_{CK}	0	kW
Thermostat-off mode	P_{TO}	0.556	kW	Standby mode	P_{SB}	0.08	kW
Other items							
Capacity control	Variable			For air-to-water comfort chillers: air flow rate, outdoor measured	--	28500	m_3/h
Sound power level, indoors/outdoors	L_{WA}	--/86	dB	For water / brine-to- water chillers: Rated brine or water flow rate, outdoor side heat exchanger	--	--	m_3/h
Emissions of nitrogen oxides (if applicable)	NO_x(**)	--	mg/ kWh input GCV				
GWP of the refrigerant	--	675	kg CO_2 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 then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for heat pump space heaters and heat pump combination heaters								
Model(s):	MC-SU75-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 shall be declared for medium-temperature application. Parameters shall be declared for average climate conditions.								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heat output(3) at Tdesignh = -10 (-11) °C	Prated =Pdesignh	48.00	kW		Seasonal space heating energy efficiency	η_s	159	%
Seasonal coefficient of performance	SCOP	4.05	--		Active mode coef. of performance	$SCOP_{on}$	--	--
					Net seasonal coef. of performance	$SCOP_{net}$	--	--
T_j = -7°C	Pdh	42.84	kW		T_j = -7°C	COPd	2.88	--
T_j = +2°C	Pdh	26.28	kW		T_j = +2°C	COPd	4.17	--
T_j = +7°C	Pdh	24.35	kW		T_j = +7°C	COPd	6.34	--
T_j = +12°C	Pdh	21.26	kW		T_j = +12°C	COPd	9.08	--
T_j = bivalent temperature	Pdh	42.84	kW		T_j = bivalent temperature	COPd	2.88	--
T_j = operation limit temperature	Pdh	45.39	kW		T_j =operation limit temperature	COPd	2.33	--
For air-to-water heat pumps: T_j = – 15 °C (if TOL < – 20 °C)	Pdh	--	kW		For air-to-water heat pumps: T_j=–15°C (if TOL<–20°C)	COPd	--	--
Bivalent temperature (maximum +2°C)	Tbiv	-7	°C		For air-to-water HP : Operation limit temperature (maximum-7°C)	TOL	-10	°C
Cycling interval capacity for heating at T_j = -7°C	Pcych	--	kW					
Degradation co-efficient(4) at T= -7°C	Cdh	0.9	--		Heating water operating limit temperature	WTOL	--	°C
Cycling interval capacity for heating at T_j = +2°C	Pcych	--	kW		Cycling interval efficiency at T_j = +7°C	COPcyc	--	--
Degradation coefficient(4) at T= +2°C	Cdh	--	--		Cycling interval capacity for heating at T_j = +12°C	COPcyc	--	--
Cycling interval capacity for heating at T_j = +7°C	Pcych	--	kW					
Degradation coefficient(4) at T_j = +7°C	Cdh	--	--		Cycling interval efficiency at T_j = +7°C	COPcyc	--	--
Cycling interval capacity for heating at T_j = +12°C	Pcych	--	kW					
Degradation coefficient(4) at T_j = +12°C	Cdh	--	--		Cycling interval capacity for heating at T_j = +12°C	COPcyc	--	--
Power consumption in modes other than active mode					Supplementary heater (to be declared even if not provided in the unit)			
Off mode	P_{OFF}	0.08	kW		Rated heat output(3)	Psup = sup(Tj)	--	kW
Thermostat-off mode	P_{TO}	0.35	kW		Type of energy input			
Standby mode	P_{SB}	0.08	kW		Outdoor heat exchanger			
Crankcase heater mode	P_{CK}	0	kW		For air-to-water HP: Rated air flow rate	$Q_{airsource}$	28500	m^3/h
Other items								
Capacity control	Fixed/Variable	Variable			For water-to-water: Rated water flow rate	$Q_{watersource}$	--	m^3/h
Sound power level, indoors	L_{WA}	--	dB(A)		For brine-to-water: Rated brine flow rate	$Q_{brinesource}$	--	m^3/h
Sound power level, outdoors	L_{WA}	86	dB(A)					
Contact details	Name and address of the manufacturer or its authorised representative.							
(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.								