

5. Specifications

SS series

Model		MC-SS35/RN1L	MC-SS65/RN1L	
Cooling Capacity	kW	35	65	
Heating Capacity	kW	37	69	
Power input	Cooling	kW	11.5	
	Cooling rated current	A	19.0	
	Heating	kW	11.3	
	Heating rated current	A	20.0	
EER	kW / kW	3.04	3.19	
COP	kW / kW	3.27	3.21	
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50	
Power supply	Manual switch	A	50	
	Fuse	A	36	
Max. Input consumption	kW	14	29	
Rated current	A	27	54.5	
Max. starting current	A	177	260	
Compressor	Type	Scroll (fixed speed)		
	Brand	Danfoss		
	Model	SH140A4ALC		
	Quantity	Piece	1	1
	Capacity	kW	36.8	65.1
	Input	kW	11.3	20.4
	Rate load Amps.(RLA)	A	21.4	44.3
	Locked rotor Amp(LRA)	A	147	260
	Refrigerant oil	ml	3300	6700
Refrigerant	Type	R410A		
	Refrigerant control	EXV+ capillary		
	Weight	kg	5.4	11.5
Condenser (Air side)	Type	Fin-coil		
	Number of rows	2		
	Fan motor model	YDK550-6E		
	Quantity of fan motor	Pieces	1	2
	Air flow	$\times 10^3 \text{m}^3/\text{h}$	13.5	27
	Fan motor rated current	A	3.7	3.7x2
	Fan motor input	kW	0.8	0.8x2
Evaporator (Water side)	Type	Double-pipe		
	Water pressure drop	kPa	55	30
	Volume	L	10	35
	Water inlet/outlet pipeline inside normal diameter	mm	DN40	DN65
	Water flow	m^3/h	6	11.2
	Max. design pressure	MPa	1	1
	Water pipe connection type	Flexible joint(Flange)		

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Dimension	Net(DxHxW)	mm	1020x1770x980	2000x1770x960
	Packing size(DxHxW)	mm	1070x1900x1030	2090x1890x1030
Weight	Net weight	kg	320	530
	Operation weight	kg	330	590
Connection wiring	Power wire	mm ²	10x4+16x1	16x4+10x1
	Signal wire	mm ²	0.75x3-core with shielding	0.75x3-core with shielding
Control type			Wired controller	Wired controller
Safety protection device			1) Protection for over-high discharge pressure. 2) Protection for over-low suction pressure. 3) Power supply phase sequence protection. 4) Anti-freezing protection in cooling mode. 5) Anti-freezing protection in Winter. 6) Protection for compressor over current. 7) Protection for compressor overload. 8) Outlet and inlet water temperature difference protection. 9) Compressor discharge temperature protection. 10) Water flow cut-off protection. 11) Sensor malfunction protection. 12) Low ambient temperature drive-up protection 13) Low temperature protection of shell and tube heat exchanger.	
Noise level		dB(A)	65	67
Operation water temp		°C	Cooling: 0~17(Less than 5°C must add antifreeze) Heating: 25~50	
Ambient temp			Cooling: -10~46 Heating: -15~24	

Note: Specifications are based on the following conditions:

Cooling : chilled water inlet/outlet: 12°C / 7°C, and outdoor ambient temp. of 35°C DB.

Heating : heat water inlet/outlet: 40°C / 45°C, and outdoor ambient temp. 7°C DB/6°C WB.

Water side fouling factor: 0.086m²/kW.

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Model		MC-SS80/RN1L	MC-SS130/RN1	MC-SS130/RN1L
Cooling Capacity	kW	80	130	130
Heating Capacity	kW	85	138	138
Power input	Cooling	kW	25.8	42.3
	Cooling rated current	A	43.8	73
	Heating	kW	26.5	43
	Heating rated current	A	40.0	74.4
EER	kW / kW	3.1	3.07	3.07
COP	kW / kW	3.21	3.21	3.21
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Power supply	Manual switch	A	150	200
	Fuse	A	100	150
Max. Input consumption	kW	34.6	59	59
Rated current	A	65	109	109
Max. starting current	A	197	308	308
Compressor	Type	Scroll (fixed speed)		Scroll (fixed speed)
	Brand	Danfoss		Danfoss
	Model	SH184A4ALC		CH290A4BBA
	Quantity	Pieces	2	2
	Capacity	kW	44.7	65.1
	Input	kW	13.7	20.5
	Rate load Amps.(RLA)	A	27.6	44.3
	Locked rotor Amp(LRA)	A	197	260
	Refrigerant oil	ml	3600	6700
Refrigerant	Type	R410A		R410A
	Refrigerant control	EXV+ capillary		EXV+ capillary
	Weight	kg	6.5x2	10.5x2
Condenser (Air side)	Type	Fin-coil		Fin-coil
	Number of rows	2		3
	Fan motor model	YDK550-6E		YS2000-6A
	Quantity of fan motor	Pieces	2	2
	Air flow	$\times 10^3 \text{m}^3/\text{h}$	27	50
	Fan motor rated current	A	3.7x2	4.8x2
	Fan motor input	kW	0.8x2	2.59x2
Evaporator (Water side)	Type	Shell-tube		Shell-tube
	Water pressure drop	kPa	30	40
	Volume	L	47.5	60
	Water inlet/outlet pipeline inside normal diameter	mm	DN65	DN65
	Water flow	m^3/h	13.8	22.4
	Max. design pressure	MPa	1	1
	Water pipe connection type	Flexible joint(Flange)		Flexible joint(Flange)
	Dimension	Net(DxHxW)	mm	2000x1770x960

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	Packing size(DxHxW)	mm	2090x1890x1030	2250x2200x1180	2250x2200x1180
Weight	Net weight	kg	645	935	965
	Operation weight	kg	710	1005	1035
Connection wiring	Power wire	mm ²	25x4+16x1	35x4+16x1	35x4+16x1
	Signal wire	mm ²	0.75x3-core with shielding	0.75x3-core with shielding	0.75x3-core with shielding
Control type			Wired controller	Wired controller	Wired controller
Safety protection device			1) Protection for over-high discharge pressure. 2) Protection for over-low suction pressure. 3) Power supply phase sequence protection. 4) Anti-freezing protection in cooling mode. 5) Anti-freezing protection in Winter. 6) Protection for compressor over current. 7) Protection for compressor overload. 8) Outlet and inlet water temperature difference protection. 9) Compressor discharge temperature protection. 10) Water flow cut-off protection. 11) Sensor malfunction protection. 12) Low ambient temperature drive-up protection 13) Low temperature protection of shell and tube heat exchanger.		
Noise level		dB(A)	67	68	68
Operation water temp		°C	Cooling: 0~17(Less than 5°C must add antifreeze) Heating: 25~50		
Ambient temp		°C	Cooling: -10 ~ 46 Heating: -15~24	Cooling : 15 ~ 46 Heating: -15~24	Cooling : -10 ~ 46 Heating: -15~24

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Water side fouling factor: 0.086m²°C /kW.

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