

## 1 Specifications

Table 2-1.1: Specifications

kW			30	60	90
Model name			MC-SU30-RN1L	MC-SU60-RN1L	MC-SU90-RN1L
Power supply		V/Ph/Hz	380-415/3/50		
Cooling <sup>1</sup>	Capacity	kW	27	55	82
	Rated input	kW	10.8	22	36.8
	EER		2.5	2.5	2.23
	SEER		4.41	4.2	4.32
Heating <sup>2</sup>	Capacity	kW	31	61	92
	Rated input	kW	10.5	20.3	32.8
	COP		2.95	3.0	2.80
	SCOP		4.01	3.85	3.99
Seasonal space heating energy efficiency class			A++	A++	A++
Max. running current	A		18	36.8	60
Air side heat exchanger	Type		Finned tube	Finned tube	Finned tube
	Fan motor type		DC motor	DC motor	DC motor
	Fan motor quantity		1	2	3
	Air flow rate		12,500	24,000	38,000
Water side heat exchanger	Type		Plate	Plate	Plate
	Volume	L	2.44	5.17	7.05
	Water flow	m <sup>3</sup> /h	5	9.8	15
	Water pressure drop	kPa	60	80	75
Refrigerant system	Refrigerant type		R410A	R410A	R410A
	Refrigerant charge	kg	10.5	17.0	27.0
	Throttle type		EXV	EXV + Capillary	EXV
Sound power level	dB(A)		75.9	85.3	88.5
Sound pressure level <sup>3</sup>	dB(A)		65.8	72.1	80.1
Net dimensions (W×H×D)	mm		1870×1175×1000	2220×1325×1055	3220×1513×1095
Packed dimensions (W×H×D)	mm		1910×1225×1035	2250×1370×1090	3275×1540×1130
Net/Gross weight	kg		300/310	480/490	710/739
Pipe connections	Water inlet/outlet	mm	DN40	DN50	DN50
Controller			Wired controller	Wired controller	Wired controller
Operating temperature range	Cooling	°C	-10 to 43	-10 to 43	-10 to 43
	Heating	°C	-15 to 30	-15 to 30	-20 to 30
Water outlet temperature range	Cooling <sup>4</sup>	°C	5 to 20	5 to 20	5 to 20
	Heating	°C	25 to 55	25 to 55	25 to 55

Notes:

1. Cooling: Chilled water inlet/outlet temp. 12/7°C; outdoor ambient temp. 35°C DB.
2. Heating: Warm water inlet/outlet temp. 40/45°C; outdoor ambient temp. 7°C DB/6°C WB.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.1m above the floor in a semi-anechoic chamber.
4. Capacity and efficiency data calculated in accordance with EN14511.