

Rooftop

"M4RT" Series

Cooling Only and Heat Pump from 15 to 85 kW



HFC 407 C
ecological refrigerant

- High efficiency
- Ease of installation
- Design "Flat Top"
- Compact dimensions



Your climate. We're there

Rooftop "M4RT" Series



Features



Efficient and easy to install, Rooftop series M4RT are available in 8 sizes with cooling capacity ranging from 17 to 86kW, in both versions cooling only and heat pump.

All units are pre-charged with ecological refrigerant R407C and run-tested at the factory before shipment to grant optimal performance and total reliability.

High Efficiency



Equipped with scroll compressors, evaporating and condenser coils with large heat exchange surface, high performance fans, McQuay Rooftops are designed to grant high energy efficiency and low power consumption.

Plug & Play

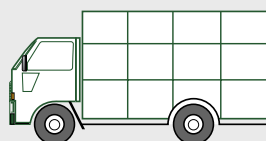
Series M4RT self-contained configuration, with integrated evaporating and condenser sections, permits to shorten and simplify the operations of installation. No internal components or external modules need to be connected: once power supply cables and air distribution duct are connected the work is done!



"Flat Top"



Impilabile



M4RT "Flat Top" design allow for the best use of warehouse and container space. Units can be stacked to maximise space utilisation reducing transport and storage costs.

Rooftop "M4RT" Series



Features

Flexibility of Performance

Air flow and available external static pressure of belt driven fans can be adjusted in order to match site requirements thus granting optimised performance.



Flexibility of Installation

McQuay Rooftop are so versatile that it is possible to change the air discharge configuration. Standard configuration is horizontal, this can be easily and quickly site changed to vertical downward discharge by re-positioning the fan(s) module.

Design



The series is designed for outdoor installations, having maximum corrosion protection. Panels, lined with soundproof material, and frame are made of galvanised steel and epoxy-polyester powder painted; the base is of heavy gauge galvanised steel channels epoxy-polyester powder painted and interconnected using rivets with elevated mechanical characteristics.

Control

SLM

single-compressor units



- ON/OFF
- Ambient temperature control
- Operation mode set
- Real time clock

SEQUENTIAL

dual-compressor units



- Weekly programmable timer
- Diagnostic
- Automatic test-run

Rooftop "M4RT" Series



COOLING ONLY		060A	080A	100A	120A	150A	200A	250A	300A
Total Cooling Capacity ¹	kW	17.3	21.1	27.8	32.2	41.0	55.7	67.0	83.0
Sensible Cooling Capacity ¹	kW	11.9	12.7	21.2	24.2	30.0	39.5	50.0	61.0
Power Input	kW	5.9	8.7	11.6	12.2	17.2	25.1	28.7	40.2
Current Input	A	11	16	20	23	32	44	53	69
Refrigerant charge	kg	4.6	4.6	5.9	5.6	2 x 3.9	2 x 4.2	2 x 9.6	2 x 10.4

HEAT PUMP		060AR	080AR	100AR	120AR	150AR	200AR	250AR	300AR
Total Cooling Capacity ¹	kW	16.0	21.1	25.8	29.0	43.7	55.7	67.0	83.0
Sensible Cooling Capacity ¹	kW	11.0	15.8	19.9	25.0	32.5	40.7	52.0	62.0
Heating Capacity ²	kW	20.0	22.6	29.9	36.0	46.9	67.4	75.0	92.0
Power Input - Cooling	kW	6.7	8.4	10.8	12.8	16.6	21.2	29.2	38.2
Power Input - Heating	kW	6.6	7.5	9.8	11.3	15.7	20.3	26.2	34.8
Current Input - Cooling	A	13	16	21	23	32	40	52	66
Current Input - Heating	A	13	15	19	21	31	38	49	62
Refrigerant Charge	kg	4.3	5.2	6.0	6.0	2 x 5.0	2 x 5.8	2 x 9.4	2 x 9.6

General									
Power Supply	V/ph/Hz	380-415/3/50							
Air Flow	l/s	850	1333	1667	1700	2667	3167	3770	4390
	m ³ /h	3060	4800	6000	6120	9600	11400	13570	15800
Available External Static Pressure	Pa	100	100	100	100	200	200	300	300
Sound Pressure Level [Lp] ³	dB(A)	63	65	66	68	70	70	74	74
Evaporator Fan(s)									
Number of Fans / Motors	--	1/1	2/1	2/1	2/1	2/1	2/1	1/1	1/1
Type	--	Centrifugal / Belt Driven							
Nominal Power Input (each)	kW	0.75	1.10	1.50	1.50	2.20	3.70	5.50	7.50
Condenser Fan(s)									
Number of Fans	--	1				2			
Type	--	Propeller							
Compressor(s)									
Number / Type	--	1 / Scroll				2 / Scroll			
Capacity Control Steps	--	0-100	0-100	0-100	0-100	0-50-100	0-50-100	0-50-100	0-50-100
Nominal Current Input	A	9	13	16	18	26	36	37	50
Locked Rotor Ampere	A	74	95	125	118	2 x 95	2 x 125	2 x 125	2 x 198
Air Filter	--	Saran Net / Washable							
Drain Connections	in	1							

Dimensions & Weights

COOLING ONLY / HEAT PUMP		060A/AR	080A/AR	100A/AR	120A/AR	150A/AR	200A/AR	250A/AR	300A/AR
Height	mm	1000	1000	1000	1000	1200	1200	1735	1735
Width	mm	1100	1300	1300	1300	1990	1990	2250	2250
Depth	mm	1530	1530	1530	1530	1670	1670	2800	2800
Weight	kg	295	370	400	425	665	765	1200	1350

NOTES

- At the following nominal conditions: ambient temperature 26.7°C bs/19.4°C bu; outdoor temperature 35°C
 - At the following nominal conditions: ambient temperature 21°C; outdoor temperature 7°C bs/6°C bu
 - At the following nominal conditions :
 - models M4RTo80-100-150-200: 1m in front of the unit; 1m height
 - models M4RTo60-120-250-300: 1m from the service panel; 1m height
- McQuay reserves the right to change design and specifications without prior notice.