

AIR COOLED MODULAR CHILLER



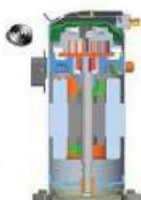
Version A+

Cooling Only & Heat Pump
R410a 34/68/136 kW
Max. 2176 kW

Features and benefits

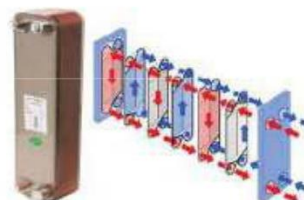
Best compressor equipped with intelligent control

Top brand scroll compressor brings high efficiency, high reliability, low noise, low vibration and compact size. By the application of the intelligent control, the system monitors the operating conditions of each compressor in running time and adjusts the operating time of each one in an intelligent and balanced way to prolong the lifetime of each unit.



High efficiency water side plate heat exchanger

The plate heat exchanger is more efficient and has a low refrigerant leakage rate, it's made in a compact structure and weigh less, which benefits installation and maintenance.



Free combination

Up to 16 units can be combined together in one system and controlled by only one wired controller, maximum cooling capacity can reach 2176 kW. Modular design can also ease transportation and inventory.



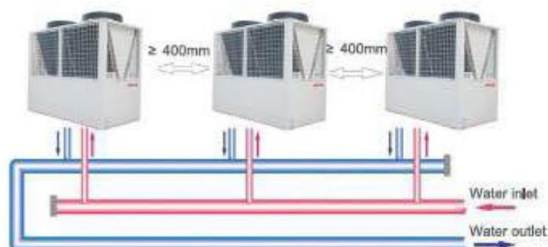
Synchronized defrosting

In winter time, in a modular combination system, the control system will automatically balance the defrosting time for each module to prevent the combined modules from entering the defrosting operation at the same time, thus modules which don't need defrosting will keep running to generate hot water and ensuring that the heating is not interrupted.



Easy Installation

The units can be easily transported module by module, and it can be installed on the building roof or outside without requirement for dedicated machine rooms or water towers.



Nominal operating condition and Operating range

Item	Water side				Air side		
	Nominal operating condition		Operating range		Nominal operating condition	Operating range	
Temp.	Inlet water temp.(°C)	Outlet water temp.(°C)	Outlet water temp.(°C)	Temp. difference between inlet and outlet (°C)	Ambient temp. (DB°C)	Ambient temp. (WB°C)	Ambient temp. (DB°C)
Cooling	12	7	5~15	2~7	35	28	16~45
Heating	40	45	25~50	3~7	7	6	-10~20

Specification

R22

Model Heat Pump		MAMH-035A3D	MAMH-065A3D	MAMH-130A3D
Model Cooling Only		MAMC-035A3D	MAMC-065A3D	MAMC-130A3D
Nominal Cooling Capacity	kW	35	65	130
Nominal Heating Capacity	kW	37	70	140
Power Supply	-	380~400V/50Hz/3Ph		
Power Input	Cooling	kW	10.4	20.8
	Heating	kW	10.5	20.9
Current	Nominal Running	A	19.6	39.3
	Starting	A	128	152
	Max. Running	A	25	48
Compressor	Type	-	Scroll Compressor	
	Quantity	-	1	2
	Refrigerant Charge/R22	kg	11	9*2
Control Mode	-	Automatic		
Protection	-	High/low pressure prtn,water breakout prtn,anti-freze prtn,over heat prtn, phase sequence prtn etc,		
Heat Exchanger (Air Side)	Type	-	Inner grooved cooper tube & High efficiency hydrophilic aluminum fin	
	Fan Type	-	Axial Fan	
	Fan Quantity	-	1	2
	Fan Air Volume	m³/h	12062	24124
	Fan Rated Power	kW	0.75	0.75*2
Heat Exchanger (Water Side)	Type	-	Plate	Shell & tube
	Water Flow	m³/h	6.0	11.2
	Water Pressure Drop	kPa	55	65
	Connection Pipe	mm	RC1-1/2"	DN65
	Working Pressure	MPa	1.0 MPa	
Noise Level	dB(A)	68	70	70
Weight	Net Weight	kg	358	654
	Operating Weight	kg	394	720
	Shipping Weight	kg	368	665
Dimension	Net (W*D*H)	mm	1325*1000*1850	2158*1000*1850
	Package (W*D*H)	mm	1525*1200*2250	2358*1200*2250

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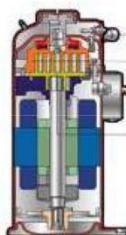
Version A

Cooling Only & Heat Pump
R22 35/65/130 kW
Max. 1040 kW

Features and benefits

Flexible scroll compressor

Optimum refrigerant distribution technique, minimized components deformation design and non-lubricated rolling bearing guarantee high efficiency, reliable performance and low noise.



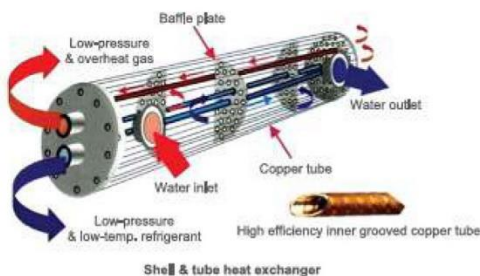
High efficiency air side heat exchanger

Highly efficient heat exchanger with inner grooved copper tubes and aluminum fins selects V-shaped design and low-speed axial fans. That ensures high efficiency, big air volume and low noise.



High efficiency shell & tube heat exchanger

The chiller adopts highly efficient shell & tube exchanger with self-cleaning function and anti-shaking design. It enlarges the cooling capacity range a lot and ensures the minimum noise.



Precise control

The electronic expansion valve can realize precise refrigerant and temperature control and ensure the equipment operating in precise and reliable status.



Modular structure design

The units can realize modular operation. Up to 16 units can be integrated to achieve a maximum capacity 1040kW output system.

User-friendly and intelligent control system

User-friendly touch controller provides an excellent operation experience.

Self-diagnostic system checks the malfunction automatically and error alarm is displayed on outdoor PCB and also on touch controller.

HOW TO READ THE MODELS

