AWMA SERIES MODULAR AIR COOLED CHILLER (HEAT PUMP)

AirWellTech
艾瑞维特

Product Overview

The AWMA series modular air-cooled chiller (heat pump) units are central air-conditioning units that use air as the cold and heat source and water as the heat transfer medium. They can supply chilled water and hot water to combined air handling units, fan coil units and other equipment requiring cold or heat sources, delivering cooling in summer, heating in winter, or process cooling applications. This product series offers cooling capacities of 65 kW, 130 kW and 260 kW, with a maximum combination of up to 16 modules



Features

- Adopts the new-generation environmentally friendly R410A refrigerant for eco-friendly operation.
- Equipped with electronic expansion valve for precise pulse regulation, enabling stable operation within an extremely wide ambient temperature range.
- Features hermetic scroll compressors with motors directly cooled by refrigerant, requiring no routine maintenance.

Application

Widely applied in comfort air conditioning and process cooling occasions including star hotels, guesthouses, office buildings, shopping malls, factories, hospitals, schools and other commercial and public facilities

Model description

AWMA | 065 | A | H | 4 | F

- F: Power: .F-380V/3N~50Hz
- 4: Refrigerant Code: 4-410A, 1-134A
- H: Features: C-only cooling; H-Heat pump; CA-year-round cooling
- A: Design Code: A、B、C.....
- 065: Capacity Code : KW
- AWMA: Prod. Code: Modular Air Cooled(Heat Pump) Chiller

Note: Models with R134a refrigerant are custom-developed for T3 climate conditions

Specifications

Model AWMA***			065	065	130	260
Nominal cooling capacity		KW	65	66	130	260
Nominal heating capacity		KW	71	69	142	284
Nom. cooling power consumption		KW	19.7	20.5	39.4	78.6
Nom. heating power consumption		KW	19	20	38	76
Power			380V/3N~/50Hz			
Compressor	Type	/	Hermetic Scroll Compressor			
	Qty	Unit	1	2	2	4
Refrigerant			R410A			
Fan	Type	/	Axial flow low noise fan			
	Qty	Unit	1	2	2	4
Water heat exchanger	Type		Shell and tube exchanger			
	Cooling Flow	m^3/h	11.2	11.2	22.4	44.8
	Heating Flow	m^3/h	12.2	11.9	24.4	48.9
	Resistance	KPa	45	45	50	60
Recommended water pipe size		DN	50	50	65	80
Air heat exchanger			Grooved Copper Tube +Hudrophilic Aluminum foil			
Dimensions	Length	mm	1200	2100	2290	2290
	Width	mm	1115	1050	1115	2230
	Height	mm	2460	1950	2460	2460
Weight	Net	Kg	400	650	750	1400
	Running	Kg	440	715	830	1550

Note:

- The testing condition of nominal cooling: Outdoor ambient temp. is 35°C, Outlet water temp. is 7°C.
- The testing condition of nominal heating: Outdoor ambient dry/wet bulb temp. are 7°C/6°C, Outlet water temp. is 45°C.
- Chiller water resistance includes pressure drop of unit and the accompanyingY-type filter's if has.
- The main water pipe of the combined units needs to be installed on site, and the pipe diameter must meet the design standards.
- The modular chillers can be combined with the same or different modular units according to the needs.
- The number of combined units are 1~16 sets.The above table is the common module chiller parameters.
- The power distribution and wiring in the site should follow the chiller's nameplate or installation instructions.
- Customized development is available.