AWLA SERIES LARGE SCROLL AIR COOLED CHILLER (HEAT PUMP)

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Product Overview

AWLA Series Large Scroll Air-Cooled Chiller (Heat Pump) Units adopt large scroll compressors as the core, paired with V-shaped finned air-cooled condensers. These air-conditioning units utilize air as the heat source and water as the heat transfer medium. Equipped with multiple independent refrigeration circuits,the units achieve stepped capacity regulation and deliver outstanding energy efficiency under partial load conditions. Featuring an air-cooled design, they require no supporting cooling towers, cooling water pumps or cooling water pipelines. The units are fully assembled and tested at the factory for convenient installation; only water piping and power connection are needed on site.



Features

- Large-capacity scroll compressors ensure stable and reliable operation;
- Multiple independent refrigeration circuits enable stepped capacity regulation;
- Compact unit structure, facilitates easy on-site installation.

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

AWLA 120 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.....
- 120: Capacity Code ： KW
- AWLA: Prod. Code: Large Scroll Air Cooled (Heat Pump) Chiller

Specifications

Model AWLA***			080	120	160	200
Nominal cooling capacity		KW	149.6	224.4	299.2	374
Nominal heating capacity		KW	197	295.5	394	492.5
Nom. cooling power consumption		KW	47.3	71.0	94.7	118.4
Nom. heating power consumption		KW	46.8	70.5	94.0	117.4
Power			380V/3N~/50Hz			
Compressor	Type	/	Hermetic Scroll Compressor			
	Qty	Unit	2	3	4	5
Refrigerant			R410A			
Fan	Type	/	Axial flow low noise fan			
	Qty	Unit	4	6	8	10
Water heat exchanger	Type		Shell and tube exchanger			
	Cooling Flow	m^3/h	25.7	38.6	51.4	64.3
	Heating Flow	m^3/h	33.9	50.8	67.8	84.7
	Resistance	KPa	69	73	75	78
Recommended water pipe size		DN	DN80	DN100	DN125	DN150
Air heat exchanger			Grooved Copper Tube +Hudrophilic Aluminum foil			
Dimensions	Length	mm	2760	4120	5520	6900
	Width	mm	2200	2200	2200	2200
	Height	mm	2480	2480	2480	2480
Weight	Net	Kg	2100	3200	4200	5400
	Running	Kg	2310	3520	4620	5940

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.