



COMMERCIAL AIR CONDITIONERS

PRODUCT CATALOGUE

AIR COOLED SCROLL CHILLER



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FEATURES

CONVENIENT FOR UNIT SELECTION AND BACK-UP FUNCTIONS

The master module can work independently or together with up to 15 slave modules, available model FS-AW65SF(T), FS-AW100SF(T) and FS-AW130SF(T), capacity from 66 to 2080kW, also different models can be combined freely. Any single unit can operate as the master once connected with wired controller, In a combination system, if one module failed, other modules can be back-up instead of the failed one for continuing operation.

ADVANCE TECHNOLOGY

FUJIAIR Modular scroll chiller is certified by CE, providing EER up to 3.1, the environment-friendly refrigerant R410a is stable and nontoxic with excellent performance and 0 ozone-depleting potential.

Intelligent Air Volume Regulation

The shared duct system is adopted to greatly expand the operating range. The single-module unit can automatically increase or reduce fans based on the ambient temperature to achieve optimal matching between air volume and load and deliver outstanding performance.

Intelligent Energy Regulation Technology

Unique intelligent energy regulation technology in multi-module combination ensures each module loads or unloads a refrigerant circuit before loading or unloading other refrigerant circuits in the single module, thereby providing higher efficiency, stability and IPLV.

Intelligent Defrosting Technology

The unit control system can determine whether defrosting is necessary according to the ambient temperature in heating mode, evaporating temperature and running time; when defrosting conditions are met, the unit will automatically activate the defrosting program to complete defrosting within a short time and provide heating operation efficiency up to over 90%, ensuring the optimum heating capacity and high EER.

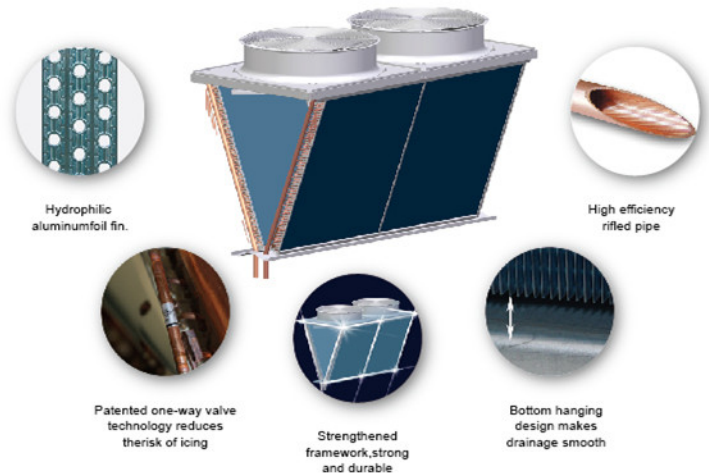
COMPONENTS DESCRIPTIONS

Hermetic Scroll Compressor

Famous brand 3-phase scroll type compressor, with built-in thermal overload cut-out and crankcase heater, mounted on rubber vibration dampers.

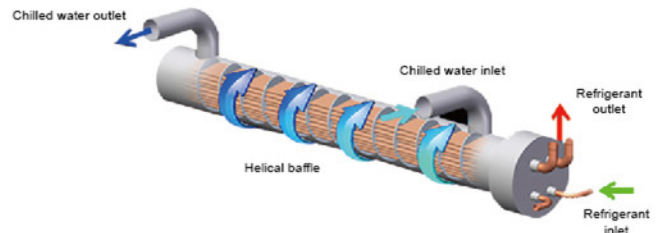
V-Shaped Condenser

The V-shaped condenser has used an integral reinforcing metal frame, internal thread and triple anti-frosting features (patented design of open-window hydrophilic aluminum foil + bottom elevated + one way valve), providing higher structural stability and corrosion resistance; with heat exchange efficiency improved through full use of heat exchange area, low tendency to dust accumulation and frosting in winter, low loss of pressure, smoother drainage and higher reliability.



Efficient Shell And Tube Heat Exchanger

The waterside efficient shell and internal thread heat exchanger is of helical baffle type, with better heat transfer performance and higher resistance to freezing than plate heat exchanger, lower water resistance and lower requirements for water quality.



Axial Fan

External rotor type axial fans, equipped with three phase direct drive motors, low noise 8 poles, protection level IP54, provided with a protective outlet grille. Compared to plastic impellers, FUJIAIR saw-shaped impellers provide large air volume, high durability and high air supply efficiency with low noise.



High Precision Electronic Expansion Valve

The electronic expansion valve achieves 480 regulating range, supplemented by FUJIAIR patented precision throttle control technology to realize dynamic matching in refrigerating system, fully improve the optimum efficiency of each component and ensure the optimum condition of system operation pressure and temperature.

Multiple Protection Functions

All units are shipped out from factory tested and protecting devices seated against client requirement. The unit has multiple safety protection functions which ensure safety and stable operation of the unit and systems. The water flow switch and multiple anti-freezing program designs protect the unit and systems in an all-round way.

SPECIFICATIONS

Model		FS-AW65SF(T)	FS-AW100SF(T)	FS-AW130SF(T)	FS-AW165SF(T)	FS-AW260SF(T)	
Cooling capacity	kW	66	100	130	165	260	
	TR	18.8	28.4	37.0	46.9	73.9	
Heating capacity	kW	70	110	140	180	280	
	TR	19.9	31.3	39.8	51.2	79.6	
Capacity adjustment	%	0-50-100		0-25-50-75-100			
Power input	Cooling	kW	21.29	32.25	41.9	53.2	83.8
	Heating	kW	21.85	34.37	43.7	56.2	87.4
Current	Cooling current	A	41.5	59.7	82.3	101.7	168.12
	Heating Current	A	41.9	60.4	83.2	102.4	170.5
	Max input current	A	50	80	100	130	234.9
Refrigerant	Type	—					R410a
Compressor	Type	—					Scroll
	Quantity	—	2	4	4	4	4
Water side heat exchanger	Type	—					High-efficient shell & tube heat exchanger
	Water flow	m ³ /h	11.4	17.2	22.4	28.4	44.8
	Pressure drop	kPa	45	30	45	45	45
	Pipe connection dimension	—	DN65(Flanged joint)		DN80(Flange)	DN100(Flange)	
Air side heat exchanger	Type	—					High-efficient aluminum fin-copper Tube heat exchanger
	Fan type	—					Axial-flow
	Number of fans	—	2			4	
	Total fan air flow	m ³ /h	28000	43000	48000	60000	112000
Sound pressure level	dB(A)	65	68	69	70	73	
Dimension	Unit(LxWxH)	mm	2200×860×2000	2200×1100×2205	2200×1100×2205	2200×1720×2100	2200×2400×2235
	Package(LxWxH)	mm	2240×900×2000	2240×1140×2205	2240×1140×2205	2240×1760×2100	2240×2440×2235
Net weight	kg	580	900	1000	1420	2025	
Gross weight	kg	585	905	1005	1425	2030	
Operating weight	kg	640	980	1100	1550	2250	

Note:

1. The performance values refer to the following conditions:

Cooling: ambient air temperature 35°C; evaporator water in/out temperature 12/7 °C;

Heating: ambient air temperature DB 7 °C, WB 6 °C; condenser water in/out temperature 40/45 °C.

2. Sound pressure measured at a distance of 1 m and a height of 1.5 m above the ground in a clear field.

Due to FUJIAIR's ongoing commitment to quality, the specifications and dimensions are subject to change without notice and without incurring liability.



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