AWXW SERIES SCROLL WATER - COOLED CHILLER (HEAT PUMP)

AirWellTech
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Product Overview



The AWXW series modular water-source heat pump units supply chilled water for central air conditioning projects, serving central air handling equipment and terminal units. The units adopt a modular design; each module can be installed and operated independently, while multiple modules can also be combined and operated in parallel. Modules can be of identical or different specifications. Every module is equipped with scroll compressors, shell-and-tube condensers, shell-and-tube evaporators, and a microcomputer control center.

Features

- Adopts new-generation environmentally friendly R410A refrigerant for eco-friendly performance.
- Equipped with hermetic scroll compressor technology; the motor is directly cooled by refrigerant, requiring zero routine maintenance.
- High-definition true-color touch screen interface delivers intuitive and user-friendly operation.
- Each refrigeration system operates independently. Single-system maintenance can be carried out without shutting down the entire unit

Application

It is widely applicable to high-end villas, hotels, hospitals, office buildings, entertainment venues, restaurants, schools and industrial cooling applications.

Model description

AWXW 050 A C 1 D F M

- M — Power:
- F — Evaporator Type: D-Dry; F -Flooded
- D — Compressor No: D-2; S-1
- 1 — Refrigerant: 4-410A, 1-134A.....
- C — Features: C-Cooling;
- A — Design Code: A、B、C.....
- 050 — Capacity Code: RT
- AWXW — Prod. Code: Scroll Water-Cooled (Heat Pump) Chiller

Specifications

Model AWHW***...			025	050	075	100	125	150
Cooling Condition	capacity	KW	67	143	215	286	358	429
		x10³Kcal/h	58	123	185	246	308	369
		USRT	19	41	61	81	102	122
	Nominal Power	KW	16	33	49.8	66.5	83	99.6
	EER		4.19	4.33	4.32	4.30	4.31	4.31
	Nominal current	A	31	61	92	122	153	183
	Chilled water flow	m³/h	11.5	24.6	37.0	49.2	61.6	73.8
	Chilled water Resistance	kPa	52	54	55	57	59	61
	cooling water flow	m³/h	14.3	30.3	45.5	60.6	75.9	90.9
	cooling water Resistance	kPa	55	56	57	59	60	63
Heating Condition	capacity	KW	82	165	247	330	412	494
		x10³Kcal/h	71	142	213	283	354	425
		USRT	23	46.9	70.3	93.7	117.1	140.6
	Nominal Power	KW	19.6	38	57	76	96	115
	COP		4.20	4.31	4.31	4.31	4.31	4.31
	Nominal current	A	35	67.4	101.1	134.8	168.5	202.2
	Hot water flow	m³/h	14.1	28.3	42.5	56.7	70.9	85.0
	Hot water Resistance	kPa	59	60	63	65	67	69
	Chilled water flow	m³/h	10.8	21.8	32.7	43.6	54.4	65.3
	Chilled water Resistance	kPa	57	59	61	63	65	67
Max. operating current		A	49	94	142	189	236	284
Power supply			380V/3N~/50Hz					
Capacity control			Independent control for each system					
Compressor	Type		Scroll					
	Qty	Unit	2	2	3	4	5	6
Condenser	Type		Water cooled shell and tube					
	Connection Size		DN50	DN65	DN80	DN80	DN100	DN125
Evaporator	Type		Water cooled shell and tube					
	Connection Size		DN50	DN65	DN80	DN80	DN100	DN125
Dimension	Length	mm	1500	1800	2700	3600	4500	5400
	Width	mm	1200	1200	1200	1200	1200	1200
	Hight	mm	1500	1600	1600	1600	1600	1600
Weight	Net	Kg	600	900	1200	1500	1800	2100
	Run	Kg	780	1090	1320	1650	1980	2310

Note:

- Refrigeration nominal working conditions:evaporator inlet/outlet water temperature 12/7°C, Condenser inlet/outlet water temperature 18/29°C.
- Nominal heating conditions:the inlet/outlet water temperature of the evaporator is 15/7°C,and the inlet/outlet water temperature of the condenser is 40/45°C.
- The water pressure drop of evaporator and condenser does not include any external pipes and parts resistance.