AWSA SERIES SCREW AIR COOLED CHILLER (HEAT PUMP)

AirWellTech
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Product Overview

Model AWSA Series Screw Air-Cooled Chiller (Heat Pump) Units adopt high-efficiency semi-hermetic screw compressors and high-performance V-fin heat exchangers. Equipped with advanced electronic expansion valve control technology, the units operate in energy-saving modes across the full operating range to meet users' demands. All refrigeration components and control elements of the units are sourced from world-famous brands, paired with sophisticated intelligent control solutions. The products feature high energy efficiency, stable performance and outstanding reliability



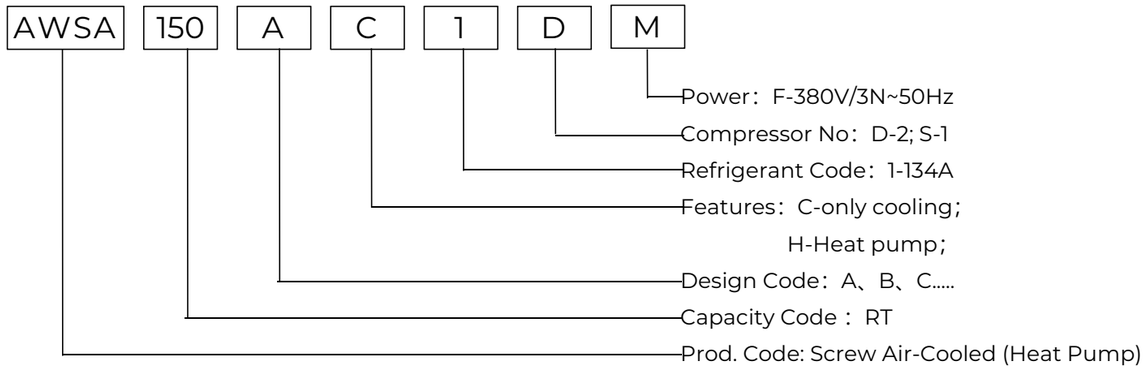
Features

- Equipped with high-efficiency semi-hermetic screw compressors.
- Precise pulse modulation via electronic expansion valves enables operation over an extremely wide ambient temperature range.

Application

Widely used in star-rated hotels, office buildings, shopping malls, factories, hospitals, schools and other spaces for comfort air conditioning and industrial process cooling applications.

Model description



Specifications

Model AWSA***...			090	125	150	175	200	250	300
Cooling Mode	Capacity	KW	305	430	513	600	687	860	1027
		x10³Kcal/h	262	370	441	516	591	740	883
		USRT	87	123	147	172	196	246	293
	Rated Power	KW	92	127	152	174	205	254	303
	Nominal current	A	169	231	275	315	381	461	549
Heating Mode	Capacity	KW	330	462	550	640	714	924	1101
		x10³Kcal/h	284	397	473	550	614	795	946
		USRT	94	132	157	183	204	264	314
	Rated Power	KW	90	124	148	169	199	248	296
	Nominal current	A	166	226	269	309	372	453	539
Max. operating current		A	195	264	315	361	467	529	630
Power supply			380V/3N~/50Hz						
Capacity control			25%~100%					12.5%~100%	
Compressor	Type		screw						
	Start-up method		Y - Δ						
	Q'ty	Unit	1	1	1	1	1	2	2
Fans	Type		axial flow						
	Air Flow	m³/h	120000	160000	200000	240000	280000	320000	400000
	Q'ty	Unit	6	8	10	12	14	16	20
Water-side heat exchanger	Type		Shell-tube Evaporator						
	Water Flow	m³/h	52	74	88	103	118	148	177
	Resistance	KPa	52	53	55	55	58	60	60
	Connection Size		DN125	DN125	DN125	DN150	DN150	DN200	DN200
Dimensions	Length	mm	3345	4455	5565	6678	8140	9250	11475
	Width	mm	2280						
	Height	mm	2580						
weight	Net	Kg	3850	4560	5730	6350	7500	9120	11460
	Run	Kg	3990	4740	5950	6580	7760	9390	11770

注:

- Cooling nominal conditions: chilled water inlet/outlet temperature 12/7°C,ambient temperature 35°C;
- Heating nominal condition: hot water inlet/outlet temperature 40/45℃, ambient temperature 7°C, wet bulb temperature 6°C;
- Voltage: 380V three-phase 50Hz voltage fluctuation ±10% allowed;
- Water pressure drop does not include the resistance of any extemal water pipes and components;
- Heat production" in the parameter table is only for heat pump units, not for single cooling unitsThe length, width, height and weight in the table are for reference only, if you need detailed dimensions, please consult the manufacturer.