



Rack-mounted Precision Air Conditioner





■ Product Description

Rack-mounted precision air conditioner is mainly used for the cooling of information and communication equipment such as rack servers, and the air conditioner is embedded in the rack. It is energy-efficient, safe, reliable, intelligent, compact, and exquisite, and fully meets the cooling requirements of the rack.



■ Application

Applied in micro data centers, edge computing sites, base station communication IT rooms, modular data rooms, and high-density data rooms.

■ Feature

- Energy efficient, complete intelligent control system, heat exchanger and duct are optimized by CFD, heat and mass transfer with high efficiency and low resistance.
- The installation of 5U(4kW) and 8U(8kW) space saves rack space, rack-mounted for easy installation and maintenance.
- High reliability with a design for 24/7 continuous operation, 365 days a year, and a lifespan of up to 10 years. All components undergo rigorous testing and inspection.
- Comprehensive automatic protection and alarm functions, fault self-diagnosis, and complete parameter monitoring and adjustment capabilities.
- Provides free communication protocol, along with dry contact and RS485 intelligent communication interfaces for remote monitoring. Supports backup operation, polling, cascading, and group control features to prevent conflicts.
- Flexible configuration with options for upward airflow (compatible with side airflow) or front airflow, adapting to various installation needs.

■ Air Supply Mode



Mode 1: Upper air supply or side air supply

Mode 2: Normal front air supply



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ZT-INFINITY TECHNOLOGY

■ Product Specification

Indoor Unit Model	ZT-G05	ZT-G08
Main power supply	220V, 1PH, 50Hz	
Indoor return air conditions:37℃ DB/ 24%RH; outdoor environmental conditions (Air-Cooled):35℃		
Cooling capacity-kW	4.2	8.1
Sensible cooling capacity-kW	4.2	8.1
Indoor return air conditions:35℃ DB/ 30%RH; Outdoor environmental conditions (Air-Cooled):35℃		
Cooling Capacity-kW	3.7	6.5
Sensible cooling capacity-kW	3.7	6.5
Indoor Fan (Backward Curved EC Centrifugal Fan)		
Airflow volume- m³/h	800	1500
Electric heating performance specification		
Heating capacity- kW	0.5	1
Connection pipe size specification		
Liquid line - mm (Threaded)	6	9.52
Gas line - mm (Threaded)	9.52	12.7
Unit drainage pipe OD - mm (Hose)	7	7
Maximum operating power of indoor unit (Including outdoor unit)KW	2.37	4.55
Maximum current of indoor unit (Including outdoor unit) FLA-A		
Indoor unit (Including outdoor unit)	9.3	115.7
Indoor unit dimension		
Unit dimension (width × depth × height) -mm	440×760×217	440×760×350
Indoor unit weight		
Indoor unit net weight-kg	26	36
Outdoor unit model	1*SW06WWHS0	1*SW10WWHS0
Compressor (high-efficiency DC inverter rotary compressor)		
Quantity (unit)	1	1
Main power supply (Outdoor unit power supplied by indoor Unit)	220V, 1PH, 50Hz	220V, 1PH, 50Hz
Maximum power of outdoor unit		
Maximum power of outdoor unit-KW	1.8	3.1
Maximum current of outdoor unit - A	7.99	13.8
Outdoor unit dimensions (length × width × height)-mm	830×325×540	960×396×700
Outdoor unit net weight-kg	30.5	43.5
Environmental temperature	indoor: 4℃～40℃	
	Indoor cooling operating environment temperature: 18℃～40℃	
	Outdoor: Standard type: -20℃～+45℃	
	Low-temperature type: -40℃～+45℃	
Indoor environmental humidity	20%～80%RH	
Protection level (Outdoor unit)	IPX4	
Altitude	≤1000m	
Power supply adaptability	220V±15%, 50±3Hz	
External static pressure	0	



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