COOLNET

Innovation and Precision

CJA Series

Rack Mounted Precision Air Conditioning

COMPANY PROFILE

Coolnet focuses on the R&D, production, and application of data center integrated solutions. As technical consulting, product supply, system integrator, and service provider, it is committed to serving customers in the fields of communication equipment rooms, data centers, smart construction, and energy management.

Our solutions include data center temperature, humidity, and energy-saving solutions, small and medium-sized computer room temperature control solutions, micro-module data center solutions, micro-module cabinet solutions, container, and modular data center solutions, communication outdoor cabinet temperature control and energy saving Solutions, cabinet temperature and humidity, and energy-saving solutions.
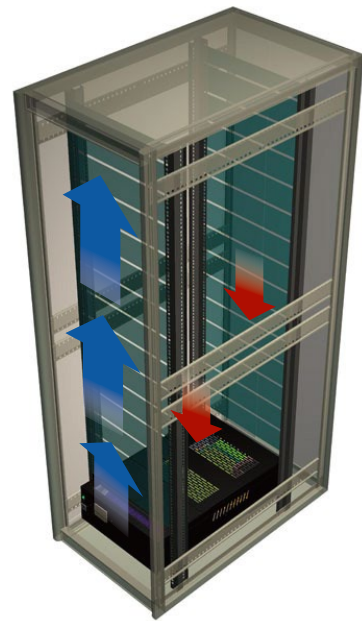
Has rich research and manufacturing experience in the field of data center equipment, with world-class laboratories, production testing equipment, and a complete line of key equipment rooms. And passed the ISO9001 quality management system certification, ISO14001 environmental management system certification, and the products have passed CE certification, CCC certification, CQC certification, CRAA quality certification, etc.

We are committed to "paying attention to customer needs and realizing customer value" and establishing a win-win cooperation pattern with customers. To become your most trustworthy, most grateful, most professional, most practical, and most reliable partner with the best vision. We will "make every effort to provide value for money products and services to make customers more competitive", and continue to explore and innovate.

Introduction

CJA Series Rack Mounted Precision Air Conditioner is a cabinet-level temperature control product specially designed for integrated cabinets, micro-modules or high heat density data centers. It can be placed close to the heat source in the cabinet and it can accurately handle the high sensible heat generated by the equipment in the cabinet. It can effectively prevent the generation of local hot spots, reduce the return air distance, increase the return air temperature, improve energy efficiency ratio, have significant energy saving effect and effectively develop green data centers for long term.

Applications

■ Micro Data Center

■ Single row cabinet

■ Modular Computer Rooms

■ Medium and high heat density computer room

■ Modular Data Center

■ IT Rack for Blade Servers

Airflow Schematic

Split Type Rack Cooling System

Air-cooled rack-mounted precision air conditioner, split design with outdoor unit, 19-inch rack-mounted, compact design, suitable for all types of enclosed rack-mounted micro-module data center.

Capacity:3.5kw-12.8kw
Height:4U-12U

1 Adoptingfrequency conversion refrigeration system,the cooling capacityis continuously adjustable between30%~100%,precise temperature control,low carbon and energy saving

2 Rack modular structure design, seamlessly compatible with standard 19inch server cabinet, support modularexpansion management.

3 Circuit breakers,contactors and otherswitching devices are Schneider brand,stable and reliable.

4 R410Aenvironmentallyfriendly high-efficiency refrigerant, high refrigeration efficiency,green and no ozone layer destruction.

5 Dedicated precision air-conditioning controlsystem supports dynamic fault alarmand protection,monitoring information upload and remote monitoringand management.

6 Adoptinginternationalfamous brand EC backward tilting centrifugal fan, automatically adjusting the airflow accordingto the cooling demand to save energy.

7 The fan is connected byjoints, supportingquickreplacement and positive maintenance.

8 Dedicated precision air-conditioning controlsystem supports dynamic fault alarm and protection,monitoring information upload and remote monitoringand management.

Technical Parameter

Model-CJA	03	05	07	12
Phase/Function	1.5P、Single Phase	2P、Single Phase	3P、Single Phase	5P、Single Phase
Parameters				
Cooling Capacity (kw)	3.5	5	7.5	12.5
Sensible Cooling Capacity (kw)	3.5	5	7.5	12.5
Air Volume (m³/h)	800	1150	1600	2300
Mount Type	Rack Inside			
Sensible Heat Ratio (%)	100	100	100	100
Heating (kw) (Option)	1	1	2	3
Maximum Operating Current (A)	15	15	25	37
Power Cord Cable Specifications (mm)	3×2.5	3×2.5	3×4	3×6
Refrigerant Gas Pipe (φmm)	12.7	12.7	12.7	15.88
Refrigerant Liquid Pipe (φmm)	9.52	9.52	9.52	9.52
Indoor Unit Structural Parameters				
Dimension:W*D*H (mm)	442*714*175(4U) 442*714*218(5U)	442*714*218 (5U)	442*714*351 (8U)	442*714*440(10U)
Outdoor Unit				
Type-CJT	3005	3006	3008	3013
Quantity	1	1	1	1

① Under standard conditions, the indoor dry bulb temperature is 37°C, the wet bulb temperature is 21°C, and the outdoor dry bulb temperature is 35°C;
② The above table is only part of the parameters, the specific configuration is subject to the actual purchase of the nameplate

Condenser Unit

Type- CJT	3005	3006	3008	3013
Power Supply	220Vac/1Ph/50Hz			
Installation	Vertical			
Speed Mode	Stepless speed regulation			
Noise (dBA)	54	55	56	58
Rated Current (A)	7	10	11.5	15
Power Cord Cable Specifications (mm²)	4×1.5	4×2.5	4×2.5	4×4
Communication Cable Specificati (mm²) (With Shielding Function)	3×1	3×1	3×1	3×1
Structural parameters of outdoor unit				
Dimension:W*D*H(mm)	840*285*610	830*310*720	880*360*800	930*385*1260

① The power cord of the outdoor unit must be connected from the indoor unit;
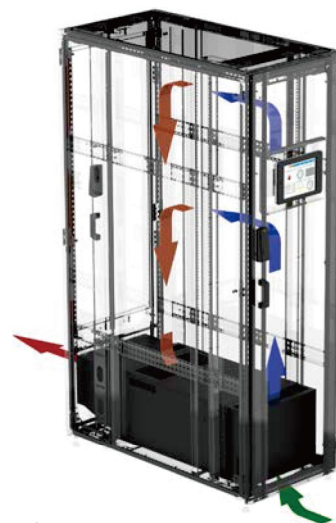② The ex-factory unit is not equipped with a 4.3-inch touch screen, and needs to be purchased separately.

Rack Mounted Integrated Cooling

Air cooled,top/bottom mounted,indoor and outdoor Integrated-ed,suitable for micro date center,mini modular data center soutions.

Capacity:3.5kw
Height:8U

1 Industry top brand compressor. Highly reliable and efficient.

2 Precision cooling controller monitors and protects unit constantly. Easy to be integratedinto BMS to display, control and manage the system.

3 Compatible with standard rack size forms unified and integrated micro data center solution.

4 Packaged design easy for installation, service and shipping.

5 Rack mount means good air management of hot/cold stream and no concern of water leak.

6 Green refrigerant is highly efficient and no ODP.

Technical Parameter

Model-CJA	03T	05T
Total Cooling(kw)	3.5	5
SHR (%)	100	100
Airflow (m³/h)	700	960
Reheat (kw)	1.2	1.2
Humidification (kg/h)	N/A	N/A
Mount Type	Rack Bottom	Rack Bottom
Power Input	220V/50Hz/60Hz/1Ph	220V/50Hz/60Hz/1Ph
Height(mm)	355(8U)	532(12U)
Depth(mm)	900	900
Width(mm)	440	400
Weight(kg)	45	65
Cooling Type	Air Cooled DX	Air Cooled DX
Refrigerant	R410A	R410A
FLA(A)	13.5	18.8
Monitoring Port	RS485	RS485
Working Range(℃)	-15-45	-15-46

Notes:

1.Cooling capacity based on 37℃/24%RH return air and 35℃ outdoor air.

2.Options including SNMP monitoring protocol.

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