

1. Product introduction

With the rapid development of big data and cloud computing, in order to support network access and basic IT applications, the construction of small node computer rooms has greatly promoted the development of micro-module intelligent computer room products.



Deeray DJA series rackmount air conditioner, is a cabinet level temperature control product designed for all-in-one cabinets, micro-modules or high thermal density data centers, indoor units are designed according to the standard 1 9-inch rack installation size, can be placed in the cabinet close to the heat source, and integrated with the cabinet communication equipment, products The

structure is compact and beautiful, it can accurately handle the high sensible heat produced by the equipment in the cabinet, can effectively prevent the occurrence of local hot



spots, can reduce the return air distance, improve the return air temperature, improve the energy efficiency ratio, have a significant energy-saving effect, and effectively help the continuous development of the green data center.

2. Scope of application

- All-in-one cabinet
- Single row cabinet
- Micromodules
- Medium and high heat density machine room
- Modular data center
- The IT cabinet where the blade is placed
- Computer room and small data center
- Government enterprises and institutions computer room cabinets
- Cell, community cabinets
- Communication base station, computer room cabinet

3. Product advantages

High-end configuration

- ✓ High efficiency inverter compressor, cooling capacity can be 30%-100% stepless adjustable, with ultra-accurate PID control technology, temperature control is more accurate.
- ✓ Well-known brand EC centrifugal fan, the air volume can be infinitely adjusted, real-time on-demand adjustment of the air volume output ratio, improve the control accuracy, reduce the power consumption of the fan.
- ✓ Equipped with electronic expansion valve as standard, the adjustment speed is fast, the adjustment range is large, and the throttle opening is smoothly adjusted, so as to realize the precise adjustment of the refrigerant flow of the unit.
- ✓ The outdoor fan motor can be operated according to the pressure of the refrigeration system steplessly, which can achieve 25%-100% wide voltage speed control and refrigeration system pressure More stable, while reducing fan energy consumption.
- ✓ The refrigeration system R410A environmentally friendly refrigerant design conforms to the modern environmental protection concept.

Safe and secure

- ✓ Extremely wide grid adaptability, can meet the $\pm 20\%$ voltage range, adapt to a variety of harsh grid environments, reduce the risk of failure caused by the large range of grid voltage fluctuations.
- ✓ Multiple drainage anti-backfill design, eliminating cabinet flooding.
- ✓ Equipped with high and low pressure sensors, intelligent self-detection of refrigerant capacity and intelligent early warning can be carried out to ensure the safety of refrigeration system operation.
- ✓ A high and low pressure switch is configured to provide an alarm in the event that the high and low pressure exceeds the range.
- ✓ Optional PTC electric heater, semiconductor material has a positive temperature coefficient characteristics, to avoid the surface of the electric heater redness, equipped with electric heating over-temperature protection device, multiple safety protection, to ensure the safety of electric heating system operation.

Highly intelligent

- ✓ High-efficiency inverter compressor, ultra-accurate PID control technology, temperature and humidity control accuracy is higher.
- ✓ The unique vibration compensation algorithm is adopted to realize the broadband operation of the unit.
- ✓ Safe and reliable anti-condensation algorithm, avoid wind and fog, and ensure the safe operation of the server.

Easy installation and maintenance

- ✓ The standard is designed in a 1 9-inch cabinet and can be installed in any standard cabinet.
- ✓ Fan side and whole machine plug-in terminal design, the whole machine maintenance is convenient, fast installation; Small footprint, 100% full front maintenance.
- ✓ The refrigeration pipe is connected with quick couplings.

Multiple options

- ✓ Strong drainage of condensate
- ✓ Electric heater

4. Technical data sheet

Indoor unit parameters

Indoor unit model	DJA0003
Number of horses, function	1.5 HP, single phase
Performance parameters	
Cooling capacity(kW)	3.5
Cooling capacity (kW)	3.5
Air volume(m3/h)	800
SHR(%)	100
Electric heating (kW) (optional)	1
Maximum operating current	15A
Power cord specifications	3*2.5mm
Indoor/outdoor unit shut-off valve	
Refrigerant gas pipe ϕ (mm)	12.7
Refrigerant liquid pipe ϕ (mm)	9.52
Indoor unit structure parameters - width * depth * height (mm)	
Dimensions	442*714*175(4U)442*714*218(5U)
<p>Note 1: The indoor dry bulb temperature is 37 °C, the wet bulb temperature is 21 °C, and the outdoor dry bulb temperature is 35 °C;</p> <p>Note 2: The above table is only a partial parameter, and the specific configuration is subject to the actual purchase of the nameplate.</p>	

Outdoor unit parameters

Outdoor unit model	DJT3005
Enter the power supply	220Vac/1Ph/50Hz
Mounting mode	vertical
Speed regulation mode	Infinitely variable speed
Unit Noise (dBA)	54
Rated current	6A
Power cord specifications	4*1.5mm
Communication cable specifications (with shielding function)	3*1mm
Outdoor unit structure parameters - width * depth * height (mm)	
Dimensions	840*285*610
(1) Nominal working conditions for heat exchange: inlet air temperature 37 °C, condensation temperature 50 °C.	

Indoor unit model	DJA0005
Number of horses, function	2 HP, single phase
Performance parameters	
Cooling capacity(kW)	5.0
Cooling capacity (kW)	5.0
Air volume(m ³ /h)	1150
SHR(%)	100
Electric heating (kW) (optional)	1
Maximum operating current	15A
Power cord specifications	3*2.5mm
Indoor/outdoor unit shut-off valve	
Refrigerant gas pipe φ(mm)	12.7
Refrigerant liquid pipe φ(mm)	9.52
Indoor unit structure parameters - width * depth * height (mm)	
Dimensions	442*714*218(5U)

Note 1: The indoor dry bulb temperature is 37 °C, the wet bulb temperature is 21 °C, and the outdoor dry bulb temperature is 35 °C;
 Note 2: The above table is only a partial parameter, and the specific configuration is subject to the actual purchase of the nameplate.

Outdoor unit parameters

Outdoor unit model	DJT3005
Enter the power supply	220Vac/1Ph/50Hz
Mounting mode	vertical
Speed regulation mode	Ininitely variable speed
Unit Noise (dBA)	55
Rated current	6A
Power cord specifications	4*1.5mm
Communication cable specifications (with shielding function)	3*1mm
Outdoor unit structure parameters - width * depth * height (mm)	
Dimensions	840*285*610
(1) Nominal working conditions for heat exchange: inlet air temperature 37 °C, condensation temperature 50 °C.	

Indoor unit parameters

Indoor unit model	DJA0007
Number of horses, function	3 HP, single phase
Performance parameters	
Cooling capacity(kW)	7.5
Cooling capacity (kW)	7.5
Air volume(m ³ /h)	1600
SHR(%)	100
Electric heating (kW) (optional)	2
Maximum operating current	25A
Power cord specifications	3*4mm

Indoor/outdoor unit shut-off valve	
Refrigerant gas pipe ϕ (mm)	12.7
Refrigerant liquid pipe ϕ (mm)	9.52
Indoor unit structure parameters - width * depth * height (mm)	
Dimensions	442*714*351(8U)
Note 1: The indoor dry bulb temperature is 37 °C, the wet bulb temperature is 21 °C, and the outdoor dry bulb temperature is 35 °C;	
Note 2: The above table is only a partial parameter, and the specific configuration is subject to the actual purchase of the nameplate.	

Outdoor unit parameters

Outdoor unit model	DJT3008
Enter the power supply	220Vac/1Ph/50Hz
Mounting mode	vertical
Speed regulation mode	Infinitely variable speed
Unit Noise (dBA)	56
Rated current	10A
Power cord specifications	4*2.5mm
Communication cable specifications (with shielding function)	3*1mm
Outdoor unit structure parameters - width * depth * height (mm)	
Dimensions	880*360*800
(1) Nominal working conditions for heat exchange: inlet air temperature 37 °C, condensation temperature 50 °C.	

Indoor unit parameters

Indoor unit model	DJA0012
Number of horses, function	5 HP, single phase
Performance parameters	
Cooling capacity(kW)	12.5
Cooling capacity (kW)	12.5
Air volume(m ³ /h)	2300
SHR(%)	100

Electric heating (kW) (optional)	3
Maximum operating current	34A
Power cord specifications	3*6mm
Indoor/outdoor unit shut-off valve	
Refrigerant gas pipe ϕ (mm)	15.88
Refrigerant liquid pipe ϕ (mm)	9.52
Indoor unit structure parameters - width * depth * height (mm)	
Dimensions	442*714*440(10U)
<p>Note 1: The indoor dry bulb temperature is 37 °C, the wet bulb temperature is 21 °C, and the outdoor dry bulb temperature is 35 °C;</p> <p>Note 2: The above table is only a partial parameter, and the specific configuration is subject to the actual purchase of the nameplate.</p>	

Outdoor unit parameters

Outdoor unit model	DJT3013
Enter the power supply	220Vac/1Ph/50Hz
Mounting mode	vertical
Speed regulation mode	Infinitely variable speed
Unit Noise (dBA)	58
Rated current	15A
Power cord specifications	4*4mm
Communication cable specifications (with shielding function)	3*1mm
Outdoor unit structure parameters - width * depth * height (mm)	
Dimensions	930*390*1270
(1) Nominal working conditions for heat exchange: inlet air temperature 37 °C, condensation temperature 50 °C.	