

The power behind competitiveness

Delta InfraSuite Precision Cooling

RoomCool series
DX CyberMate

Precise control of temperature and humidity for the optimal data center operating environment

Delta's RoomCool series is a high-performance precision cooling product specially developed for modern data centers with low to medium IT heat density. This model is a precision temperature and humidity control system featuring high energy efficiency, high flexibility, high manageability and ease of maintenance. The advanced 7-inch touch screen is a user-friendly interface that allows IT managers to operate and monitor the key parameters for comprehensive environment control. With these product advantages, Delta's RoomCool series serves as the thermal management guardian for your data center.

High Efficiency

- High evaporation temperature design enables the compressor to run at optimal efficiency, and creates high sensible heat ratio and energy efficiency ratio (EER)
- Fans under raised floor provide same air flow with 20% less power consumption.
- Both indoor and outdoor units can use EC fans that achieve 10% to 20% energy savings when compared with traditional AC fans
- The smart fuzzy control is applicable to a wide range of outdoor temperatures and achieves the best energy efficiency for compressors and outdoor units

High Flexibility

- Maximizes cooling capacity in the compact footprint, easy to configure data center and increase the number of racks, while reducing the difficulty of transportation and handling
- Fan speed is adjustable according to the data center layout and air flow distance to ensure adequate air flow volume is provided
- Either cooling only models or models with humidity control are available to meet different data center design and applications

High Manageability

- User-friendly 7-inch color touch screen display supporting graphic interface
- Remote monitoring can be carried out through RS485 in Modbus protocol or SNMP card and is easy to integrate with data center infrastructure system
- Supports group control, fulfills functions such as backup, rotation, competition prevention, soft start, etc., very suitable for data center operation management
- Can be integrated into Delta InfraSuite data center solutions with uninterruptible power supplies (UPS), power distribution system, racks and environment management system for rapid construction of data centers

Easy Maintenance

- Supports front access servicing of key components for quick maintenance
- Can be installed against a wall to save valuable data center space



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Technical Specification

Model		DXA-60 (In)	DXA-100 (In)
Power Supply		380V 3Ph - 50Hz	
Air Discharge		Upflow / Downflow	
Performance	1. Return air condition : 24 ℃ , 50% RH, outdoor temperature 35 ℃		
	Total Cooling Capacity (kW)	65.8	100.2
	Sensible Cooling Capacity (kW)	59.3	90.6
	2. Return air condition : 24 ℃ , 50% RH, outdoor temperature 45 ℃		
	Total Cooling Capacity (kW)	57.8	90.5
	Sensible Cooling Capacity (kW)	52	85
Quantity of Compressor		2	2
Indoor Fan	Airflow (m3/h)	17000	23000
	Quantity of Fan	2	3
Reheat	Capacity (kW)	9	9
Humidifier	Capacity (kg/h)	10	10
Piping	Liquid Pipe - OD (mm)	16	19
	Gas Pipe - OD (mm)	22	22
	Inlet Pipe of Humidifier (Female)	G1/2"	G1/2"
	Drain Pipe - ID (mm)	25	25
Physical	Width (mm)	2100	2500
	Depth (mm)	890	890
	Height (mm)	1990	1990
	Weight (kg)	670	900
Breakers & Cables			
Indoor Unit	Recommended Air Break Switch (A)	100	125
	Cables (mm2)	16	25
Outdoor Unit	Recommended Air Break Switch (A)	20	20
	Cables (mm2)	2.5	2.5
Outdoor Condenser Type and Qty		CS54 x 2	CS78 x 2

Remark:

- EC fan configured as standard.
- Electric expansion valve as standard.
- For modularized system, fan quantity is 2.

Outdoor Condenser

Model	Quantity of fan (s)	Length (mm)	Height (mm)	Width (mm)	Weight (kg)	Liquid Line-OD (mm)	Hot Gas Line-OD (mm)
DXA-60 (out)	1	1910	1270	653	150	19	28
DXA-100 (out)	2	2410	1270	653	200	19	28

