

The power behind competitiveness

Delta InfraSuite Precision Cooling

RowCool, 70kW
Chilled Water

RowCool for effective heat removal in data centers

As the power density increases in modern data centers, traditional precision cooling fails to provide complete cooling for the following situations:

- Load variations for peak and off-peak period
- High power density
- Uneven heat distribution

The Delta InfraSuite Precision Cooling RowCool Chilled Water can effectively solve the above problems.

High Availability

- Built-in dual input for better power reliability
- Panel made of cold-rolled steel plate and coated with surface electrostatic spraying of epoxy is highly resistant to rust
- Built-in leakage detector capable of leak display and alert
- Modular rack design readily expandable by load to enable quick configuration of new cooling units
- Built-in manual dehumidifying for quick and precise dehumidification
- Supporting group control and used as backup

High Flexibility

- Chilled water pipe suitable for both top and bottom insertion, with top and bottom input power wiring, providing flexible configuration as required
- Wheels on bottom for easy moving to locations that need cooling
- Disposable filter with high efficiency (MERV 8 ASHRAE 52.2)
- Remote monitoring can be carried out through SNMP card, providing more comprehensive system protection
- Optional reheater and humidifier accessories for more precise temperature and humidity control

High Efficiency

- Continuously variable speed fan design for energy saving
- Cooling system capable of variable flow control for energy saving
- Built-in vortex wafer flow meter capable of monitoring chilled water flow that renders easy display of system status

Applications

- High power density rack area
- Environment that requires precise environmental control



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Technical Specifications

Model			HCH1CB0	HCH1CB0 with reheater/humidifier
Capacity	Maximum cooling capacity *1	kW	70	70
	Sensible cooling capacity	kW	69.3	69.3
Power	Input power	Φ/Hz/V	3Φ4W+G/50,60Hz/ 380V	3Φ4W+G/50,60Hz/ 380V
	Maximum input power	kW	3	14
	Maximum current	AMP	5	22
Fan	Air flow	CMH (CFM)	11400 (6700)	11400 (6700)
	Type		EC Fan	EC Fan
	Number of fans	n	3	3
Coil	Water flow	LPM	111.2	111.2
Reheater	Capacity	kW(Btu/HR)	N/A	8.1(27600)
	Current	Amp	N/A	12.3
	Stages	n	N/A	3
Humidifier	Capacity	kg/h	N/A	3
	Power consumption	kW	N/A	2.25
	Current	Amp	N/A	3.5
Filter (disposable)	Filter class		30~35% MERV8	30~35% MERV8
Tubing Dimensions	Inlet water	mm(in)	32A(1 1/4") PT thread female	32A(1 1/4") PT thread female
	Outlet water	mm(in)	32A(1 1/4") PT thread female	32A(1 1/4") PT thread female
	Drain pipe	mm(in)	20A (3/4") PT thread male	20A (3/4") PT thread male
	Humidifier supply water	mm(in)	N/A	10A (3/8") PT thread male
	Connections of inlet/outlet water		Bottom/ Top(optional)	Bottom/ Top(optional)
	Power Wiring		Both at top and bottom	Both at top and bottom
Communication Interface			SNMP slot x1 (SNMP card is optional), RS232x1, RS485x1 (Modbus protocol), Input dry contact x2, Output dry contact x2, Temperature sensor x3, Remote temperature/humidity sensor x1	
Accessories			SNMP card, Connection tube for top tubing, Humidifier accessory kit, reheater accessory kit, Remote temperature/humidity sensor, Drain Pump, Washable filter	
Physical	Height (wo/w packaging)	mm	2000 / 2220	
	Width (wo/w packaging)	mm	600 / 764	
	Depth (wo/w packaging)	mm	1090 / 1342	
	Weight (Gross / Operating)	kg	368 / 414	

Please contact Delta or a local distributor for new specifications regarding the constant improvements Delta makes for various lines of products

1. Testing standard of cooling capacity at 60Hz

Returned air	40.6°C (DB) / 21.6°C(WB)
Incoming chilled water temperature	7.2°C
Temperature difference of inlet and outlet chilled water	8.8°C

2. Reference for cooling capacity testing: ASHARE 127 and GB/T 19413-2003

3. Operation conditions: inlet water temperature 5~15°C, return air temperature 4~40°C DB · 30~85% non-condensing

4. Specifications are subject to change due to constant product updates