

The power behind competitiveness

Delta InfraSuite Precision Cooling

RowCool, 29kW
Chilled Water

RowCool for effective heat removal in data centers

As the power density increases in modern data centers, traditional precision air conditioning 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 power supply with dual input for better power reliability
- Rectifiers and fan that support hot swappable, greatly reducing maintenance time
- 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 unit
- 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 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, 45mm); washable MERV 1 filter is available for purchase to save cost
- Remote monitoring can be carried out through SNMP card, providing more comprehensive system protection

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	HCH1850	
Cooling method	Chilled Water	
Maximum cooling capacity	29 kW	
Sensible cooling capacity	28.7 kW	
Input power	Single phase 220-240 Vac, 50/60 Hz	
Maximum input current	5A	
Power consumption	1 kW	
Air flow	2900 (4930) CFM (CMH)	
Tubing Dimensions	25A (1 inch), PT thread female	
Connections of inlet/outlet water	Top and bottom	
Filter	30~35 %, MERV 8 (Disposable)	
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	Washable filter Remote temperature/humidity sensor, SNMP card, Drain Pump	
Environment	Operation temperature	4 ~ 40°C
	Relative humidity	30 ~ 85%, non-condensing
External dimensions	Dimensions (WxDxH) mm	300 x 1090 x 2000
	Weight (kg)	185

Test conditions of total cooling capacity: Return air temperature: 40.6°C DB / 21.6°C WB / chilled water inlet temperature: 7.2°C/ chilled water outlet temperature: 13.8°C

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

