

Delta InfraSuite Precision Cooling

RowCool Series 43kW, Chilled Water

Delta's RowCool CW offers outstanding performance in high temperature chilled water applications via the optimized design of its heat exchanger. With industry-leading high cooling capabilities, the RowCool CW increases the overall cooling efficiency of data center precision cooling systems. The RowCool CW provides the best cooling solutions for data centers over hundreds of kW, focusing on both high efficiency and high density.

High Efficiency

- Optimized for high temperature chilled water applications, the heat exchanger design increases the overall efficiency of precision cooling systems.
- The Electronically Commuted (EC) Fans design provides variable fan speed control for optimal speeds in real-time according to load changes, avoiding unnecessary power waste.
- Closely couples to IT heat loads and quickly adapts to load changes for direct and effective heat removal.

High Availability

- Supports dual power feed input and is suitable for any tier level of power reliability architectures.
- Thanks to the inherent redundancy design of the fan system, other fans automatically increase fan speeds to make up for the required airflow if one of the fans malfunctions.
- 1+1 redundant design of the power modules increases reliability.
- Hot-swappable power module and fan design allows replacement without the need of a power shut down while malfunctioning.
- The smart group control function is equipped with rotation, back up, competition free, and soft start functions.
- Comprehensive operation monitoring such as chilled water flow and leakage detection allows full control of machine operations and the ability to take necessary troubleshooting measures in real-time.

High Flexibility

- Top or bottom piping and wiring options are available to satisfy the pipeline design needs for different data center requirements.
- Multiple communication interfaces satisfy the surveillance and communication needs of a variety of data centers.
- High efficiency filter (MERV 8) or washable filters (MERV 1) are available for users to choose according to their needs.
- Equipped with casters for easy movement and positioning during installation without the need for additional handling tools.



Technical Specifications

Model		CW 43 kW HCH1870
Power	Input	1-phase 208-230V, 50/60 Hz
Capacity	Total Capacity ⁽¹⁾	43.4 kW
	Sensible Capacity ⁽¹⁾	43 kW
	Total Capacity ⁽²⁾	59.1 kW
	Sensible Capacity ⁽²⁾	59.1 kW
	Total Capacity ⁽³⁾	37 kW
	Sensible Capacity ⁽³⁾	37 kW
Fan	Type	EC
Piping Connection		Top / Bottom
Conformance		UL
Communication		RS-485 x 1, Input dry contact x 2, Output dry contact x 2, SNMP slot x 1
Dimension	Width	300 mm (11.8 inches)
	Depth	1090 mm (42.9 inches)
	Height	2000 mm (78.7 inches)
Weight		187 kg (412.3 lb)

*1. Rating capacity is measured at 105°F (40.6°C) DB / 70.9°F (21.6°C) WB / Inlet water temperature 44.6°F (7°C).
*2. Maximum capacity is measured at 120°F (48.9°C) DB / 73.9°F (23.3°C) WB / Inlet water temperature 44.6°F (7°C).
*3. High temperature water capacity is measured at 105°F (40.6°C) DB / 70.9°F (21.6°C) WB / Inlet water temperature 53.6°F (12°C) / Outlet water temperature 68°F (20°C).

