

Delta InfraSuite Precision Cooling

RowCool Series 29/43/70/95kW, 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 cooling capacity of a single unit can reach up to 260kW. 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 (applicable to some models).
- 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.
- 2.4-meter-high models using the 52U rack are also available to customers. (For special height requirements, please contact your local Delta office)



Technical Specifications

Model		CW 29 kW HCH1850	CW 43 kW HCH1870
Power	Input	1-phase 220-240V, 50/60 Hz	
Capacity	Total Capacity ⁽¹⁾	30.8 kW	43.4 kW
	Sensible Capacity ⁽¹⁾	30.2 kW	43 kW
	Total Capacity ⁽²⁾	37.1 kW	50.4 kW
	Sensible Capacity ⁽²⁾	37.1 kW	50.4 kW
	Total Capacity ⁽³⁾	28.8 kW	36 kW
	Sensible Capacity ⁽³⁾	28.8 kW	36 kW
Fan	Type	EC	
Piping Connection		Top / Bottom	
Conformance		CE	
Communication		RS-485 x 1, Input dry contact x 2, Output dry contact x 2, SNMP slot x 1	
Dimension	Width	300 mm	300 mm
	Depth	1090 mm	1090 mm
	Height	2000 mm	2000 mm
Weight		185 kg	187 kg

*1. Rating capacity is measured at 40.6°C DB / 21.6°C WB / Inlet water temperature 7°C.

*2. Maximum capacity is measured at 48.9°C DB / 23.9°C WB / Inlet water temperature 7°C.

*3. High temperature water capacity is measured at 40.6°C DB / 21.6°C WB / Inlet water temperature 12°C / Outlet water temperature 20°C.



Model		CW 70kW HCH1CB0	CW 70kW HCH1CB0 Humidity Control	CW 95kW HCH1CD0	CW 95kW HCH1CD0 Humidity Control
Power	Input	3-phase 380-415V, 50/60 Hz			
Capacity	Total Capacity ⁽¹⁾	69.3 kW	69.3 kW	92.6 kW	92.6 kW
	Sensible Capacity ⁽¹⁾	69.3 kW	69.3 kW	91.6 kW	91.6 kW
	Total Capacity ⁽²⁾	83.1 kW	83.1 kW	110.7 kW	110.7 kW
	Sensible Capacity ⁽²⁾	83.1 kW	83.1 kW	110.7 kW	110.7 kW
	Total Capacity ⁽³⁾	57.4 kW	57.4 kW	79.4 kW	79.4 kW
	Sensible Capacity ⁽³⁾	57.3 kW	57.3 kW	79.4 kW	79.4 kW
Fan	Type	EC			
Heater	Type	None	Finned tube reheater	None	Finned tube reheater
Humidifier	Type	None	Electrode	None	Electrode
Piping Connection		Top / Bottom			
Conformance		CE			
Communication		RS-485 x 1, Input dry contact x 2, Output dry contact x 2, SNMP slot x 1			
Dimension	Width	600 mm	600 mm	600 mm	600 mm
	Depth	1090 mm	1090 mm	1090 mm*4	1090 mm*4
	Height	2000 mm	2000 mm	2000 mm	2000 mm
Weight		368 kg	375 kg	415 kg	422 kg

*1. Rating capacity is measured at 40.6°C DB / 21.6°C WB / Inlet water temperature 7°C.

*2. Maximum capacity is measured at 48.9°C DB / 23.9°C WB / Inlet water temperature 7°C.

*3. High temperature water capacity is measured at 40.6°C DB / 21.6°C WB / Inlet water temperature 12°C / Outlet water temperature 20°C.

*4. Depth is 1200 mm for top piping model.

All specifications are subject to change without prior notice.