



Vertiv Custom Thermal
Chilled Water CRAH
29-86k CFM



Overview

The Vertiv Custom Chilled Water unit is part of a configurable product family that provides Vertiv engineers and customers a starting point for designing air handling equipment. This product uses a flexible design that allows it to be configured to meet specific requirements, aimed at reducing design and production lead time of traditional engineered-to-order equipment.

Benefits

- One key component of the full offering suite of Vertiv Data Center products.
- Engineered, manufactured, and serviced by Vertiv, a global supplier.
- Pre-engineered starting point that allows efficient unit configuration.
- Reduced time to quote for customers that need an engineered-to-order solution.

Features

- Modular Air flow
29,000 - 86,000 CFM (+/-)
- Flexible air flow direction
(Contact Vertiv)
- Configurable component selection
(fans, material, color, controls, etc)
- Engineered with service in mind to reduce installation requirements and encourage uptime.



*Small Or Medium Configuration
29,000 – 43,000 CFM*



*Large (2 x Small) Or X-Large (2 x Medium) Configuration
64,000 – 96,000 CFM*

*Large Or XL Configuration
58,000 – 86,000 CFM*

Optimized Configuration Vertiv Custom CW (Chilled Water) products offer a starting point and Fast Engineered-To-Order (ETO) process for configurable air handler designs that provide value, where customers need it the most.

Faster



- Reduced project schedule due to ease of installation and design
- Start-up and installation documentation provided early in the unit configuration process

Accurate



- Industry-accredited design tools utilized for fan and coil performance modeling
- Cooling capacity, power consumption, airflow, and sound modeled and/or physically tested and confirmed

Serviceability



- Thoughtfully engineered solution to provide access to all serviceable components
- Supported by a full suite of Service Offerings aimed to maximize unit operational up time

Testing/Start-Up



- Customer witness testing supported by a fully integrated test lab
- Start-up services and on-site training also available by request

Efficient



- Component selections reviewed with quality, performance, and cost in mind
- Configurable design promotes an effective alternate component selection process to meet customer requirements

Transport



- Modular sections engineered to reduce shipping costs
- Removable lifting lugs promotes easy handling during transport and installation

Optimized



- Design standardization, focusing on improving main customer concerns (cost, flexibility, cycle time)
- Key design characteristics (dimensions, weight, capacity) scrutinized to provide meaningful or impactful starting point for customer conversations

Technical Specifications

Vertical Flow Chilled Water:

Small	Airflow, ACFM	29,000
	Capacity, kW (MBH)	281 (9,60)
	Water Flow Rate, GPM (PD, ft H2O)	115 (24.31)
Medium	Airflow, ACFM	43,000
	Capacity, kW (MBH)	433 (1,476)
	Water Flow Rate, GPM (PD, ft H2O)	185 (30.14)
Large	Airflow, ACFM	58,000
	Capacity, kW (MBH)	563 (1,920)
	Water Flow Rate, GPM (PD, ft H2O)	230 (24.31)
XL	Airflow, ACFM	86,000
	Capacity, kW (MBH)	866 (2,953)
	Water Flow Rate, GPM (PD, ft H2O)	370 (30.14)

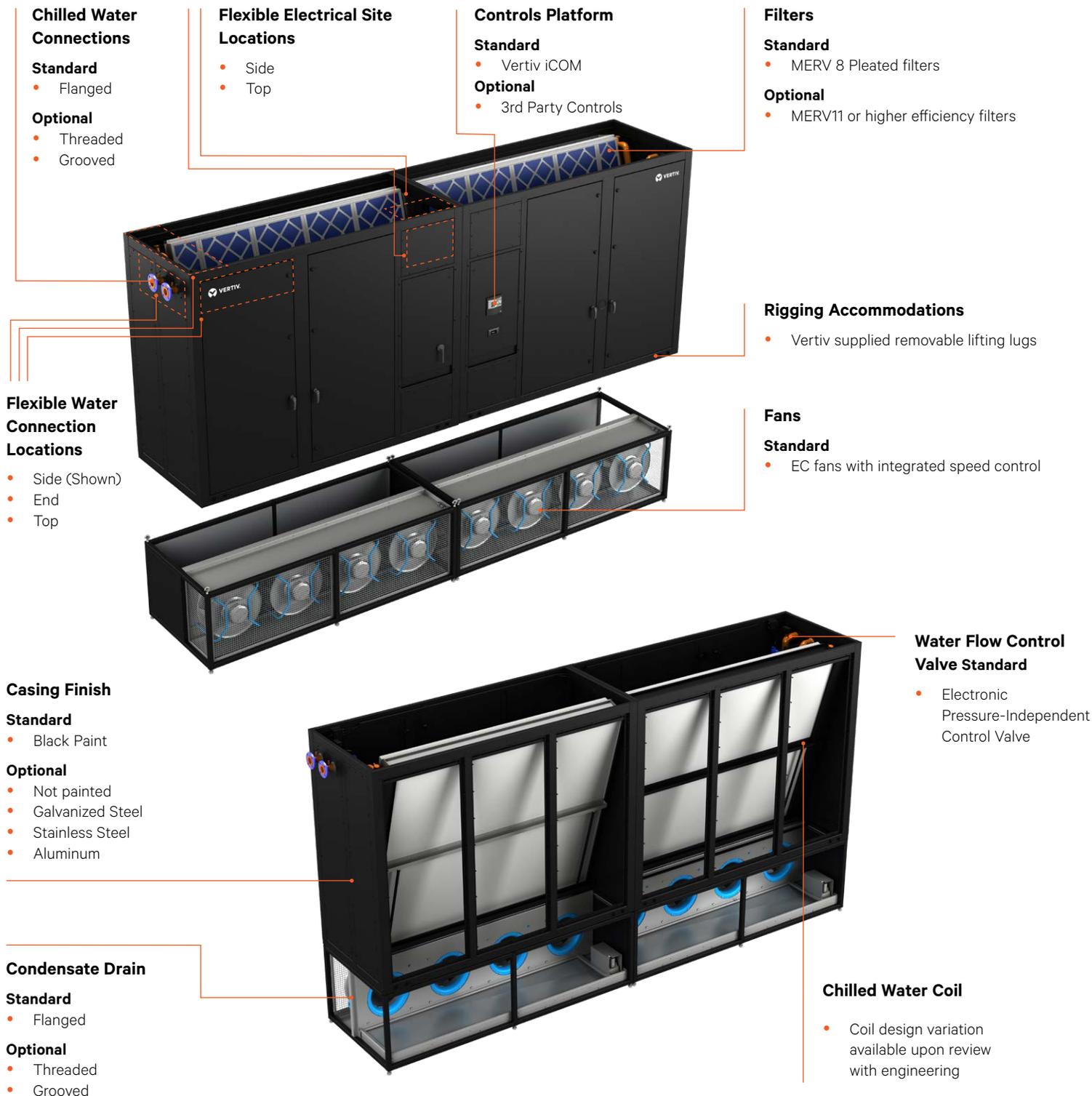
Unit Dimension Summary**

Size	L x H x W (in)	Cabinet Dimensions (Split Section)	
		Fan Section	Coil Section
Small	125 x 134 x 54	125 x 36 x 54	125 x 98 x 54
Medium	192 x 134 x 54	192 x 36 x 54	192 x 98 x 54
Large	250 x 134 x 54	250 x 36 x 54	250 x 98 x 54
XL	384 x 134 x 54	384 x 36 x 54	384 x 98 x 54

**Actual unit dimensions may vary based off of component selections.

Product Overview

Standard and available options listed, for custom options contact applications engineering.
Alternative water & electrical site connections available, contact applications engineering for options.



Chilled Water Connections

Standard

- Flanged

Optional

- Threaded
- Grooved

Flexible Electrical Site Locations

- Side
- Top

Controls Platform

Standard

- Vertiv iCOM

Optional

- 3rd Party Controls

Filters

Standard

- MERV 8 Pleated filters

Optional

- MERV11 or higher efficiency filters

Flexible Water Connection Locations

- Side (Shown)
- End
- Top

Rigging Accommodations

- Vertiv supplied removable lifting lugs

Fans

Standard

- EC fans with integrated speed control

Casing Finish

Standard

- Black Paint

Optional

- Not painted
- Galvanized Steel
- Stainless Steel
- Aluminum

Water Flow Control Valve Standard

- Electronic Pressure-Independent Control Valve

Condensate Drain

Standard

- Flanged

Optional

- Threaded
- Grooved

Chilled Water Coil

- Coil design variation available upon review with engineering



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