

Vertiv™ CoolLoop Thermal Wall

From 350 to 500 kW

The turnkey thermal wall unit, for air and hybrid cooling, designed for slab floor applications.



Vertiv™ CoolLoop Thermal Wall is designed to elevate the technology threshold of Chilled Water air handling units for slab floor applications installed on the gallery side and is part of a comprehensive, integrated chilled water architecture for hyperscale and colocation data centers, fully compatible with both traditional air cooling systems and high-density hybrid solutions.

Key features

- Latest generation of EC fans for increased cooling capacity at the same footprint.
- Pressure independent control valve for better air distribution.
- Multiple enhanced coils.
- Touch screen display.
- Dual power supply with control power continuity.
- Flanges connections.
- Automatic Transfer Switch (ATS) Control with dual disconnect switches.
- IBC Certification meets seismic rating:
 - Option 1: Sds of 0.75, Ip = 1.0
 - Option 2: Sds of 2.5, Ip = 1.0
- Integrated Active THD Mitigation Fan: <5% THDi content down to 10% load, eliminating voltage bumps and enhancing fan reliability.
- Smoke Sensor & High Temp Sensor to sample return air & Vertiv™ Liebert® Liqui-Tect™ to sense presence of moisture.
- State-of-the-art Vertiv™ Liebert® iCOM™ controls and a modern network interface with the Unity card with auto-tuning feature factory installed.



*Vertiv™ CoolLoop Thermal Wall
CA80 model up to 500 kW*

Key benefits

- **Speed to Market:** eliminates the need for customization with a ready-to-use air handling unit purpose-built for slab floor data centers engineered to maximize the cooling density for unit footprint with all the main components factory installed, thus reducing installation costs on site.
- **Cooling Continuity:** enhanced cooling continuity and reliability to extend data center uptime.
- **Energy Efficiency:** designed to set new efficiency standards combining market-leading technologies and optimizing the aerodynamic impact of all the internal components.
- **Holistic & integrated chilled water experience:** optimize and control the full thermal chain, from chip cooling to heat recovery, with Vertiv™ free cooling chillers, Vertiv Liebert iCOM smart controls with slab floor-specific algorithms, and Vertiv™ Services for design, commissioning, and ongoing optimization.



*Vertiv™ CoolLoop Thermal Wall
CA60 model up to 400 kW*

Technical specifications

Vertiv™ CoolLoop Thermal Wall	CA60	CA80
Cooling capacity (kW)	400	500
Power input (kW)	12,1	25,5
Airflow range [m³/h/cfm]	20,000-60,000	26,500-90,000
Fans	4 & 6	8
Depth (in/mm)	60 / 1524	60 / 1524
Width (in/mm)	120 / 3050	156 / 3960
Height (in/mm)	144,3 / 3665	144,5 / 3667



Vertiv™ CoolLoop Thermal Wall environmentally conscious features

- The unit design minimizes the aerodynamic impact of all the internal parts, ensuring a reduction in the internal air pressure drop, which translates in reduced unit power consumption.
- Compliant with the ErP directive, the latest generation of EC fan technology results in highly efficient units.
- The pressure independent control valve regulates and maintains a constant flow improving water distribution.

From chip to heat rejection: the Vertiv™ CoolLoop end-to-end systems and service strategy

A holistic chilled water strategy that intelligently optimizes and controls the entire thermal chain, from chip-level cooling to heat recovery, allowing efficiency, environmental responsibility and performance across the system.

Heat rejection

Vertiv™ CoolLoop Chiller

Air cooling

Vertiv™ Smartaisle™

Liquid cooling

Vertiv™ CoolChip CDU

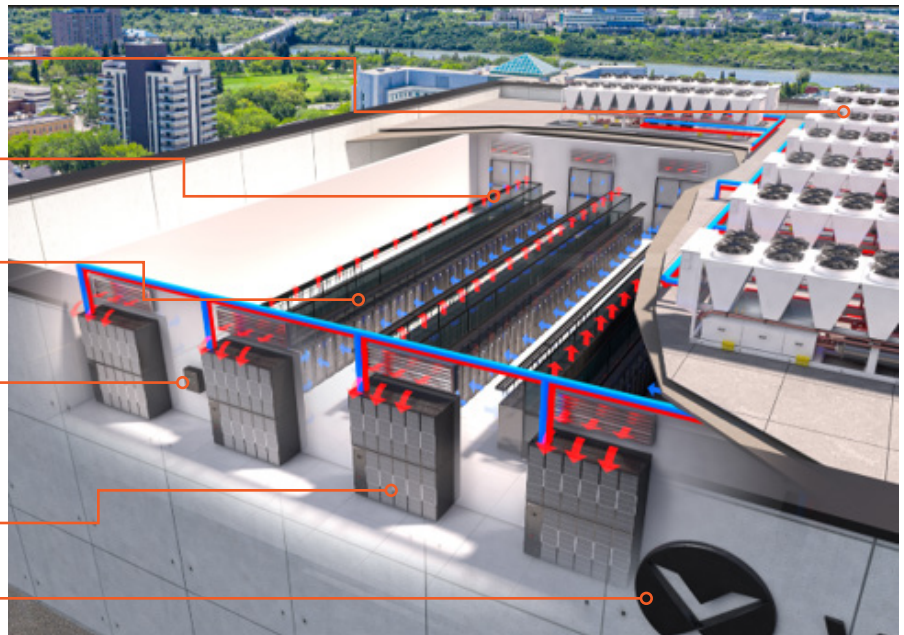
Intelligent controls

**Vertiv™ Liebert® iCOM™
& Vertiv™ system-level controls**

Heat collection

Vertiv™ CoolLoop Thermal Wall

End-to-end Vertiv™ services



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