Vertiv™ CoolChip Fluid Network

Modular in-row manifolds for the technology cooling system (TCS)

The Vertiv™ CoolChip Fluid Network in-row manifold distributes coolant between CDUs and racks, replacing field-fabricated piping systems with a factory-engineered solution that is pre-assembled, pre-cleaned, and factory-tested. Pre-engineered modular sections combine to match any row length, accelerating installation timelines and enabling row-by-row deployment as capacity demands grow.

Key benefits

Arrives pre-cleaned

Every module ships factory-flushed, leak-tested, dried, and sealed, delivering a verified-clean fluid path ready for connection. On-site cleaning requirements are significantly reduced, accelerating commissioning timelines.

Removes on-site fabrication

Pre-assembled modules with high-pressure, bolted sanitary connections arrive ready to connect, eliminating the need for on-site welding, hot-work permits, and extended flush cycles associated with field-fabricated systems.

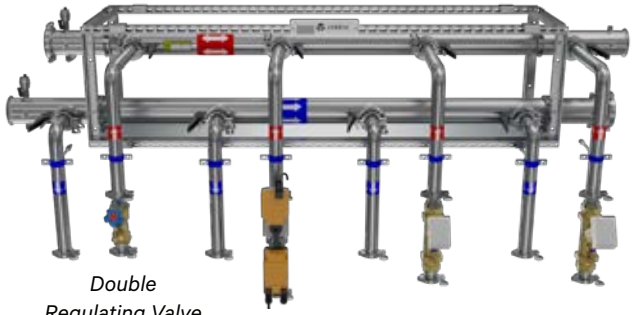
Flexible to fixed layouts

Modular sections accommodate virtually any layout, routing path, and flow-control configuration, enabling rapid adaptation to evolving facility requirements without custom fabrication.

Backed by Vertiv™ Global Service Network

Includes support from initial design consultation through installation, commissioning, and ongoing fluid management. Vertiv's global service organization provides lifecycle support to help customers deploy, operate, and maintain fluid management solutions across their data center operations.

***Rack Module**: Provides connection points for up to four racks.*



Double Regulating Valve (DRV)

Energy Valve (EV)

Pressure Independent Control Valve (PICV)

Physical data	
Tube diameter	4" or 6"
Wetted material compatibility	OCP, ASHRAE compliant
Manifold placement	Overhead or underfloor
Rack module connection size	1.5" or 2"
CDU connection size	1.5", 2.5", 3", or 4"
Module connection type	Sanitary (tri-clamp) high-pressure bolted
Fluid circuit data	
Fluid type	Water or PG-25 with inhibitors
Nominal flow rate	4“ tube: 1300 lpm 6“ tube: 3000 lpm
Maximum flow velocity	4 m/s (header)
Max process pressure	87 psi
Fluid temperature range	17-65°C
Flush / bleed ports	Included for span module and rack feed modules
Return valves for rack module	DRV, PICV, EV



***CDU Module**: Provides connection points for up to two CDUs.*



***Span Module**: Extends the run between CDU and Rack Modules.*

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