

## Liquid-cooled distribution box



### Overview

Liquid-to-Liquid (L2L), Liquid-to-Air (L2A) Coolant Distribution Units and Rack Emulator - CDUs cool, distribute, and regulate fluid within a liquid cooling system. By regulating flow, pressure, and temperature, they ensure even heat dissipation across all servers, improving efficiency and performance. Pump redundancy and smart control guarantee maximum availability. The passive module is an air/water heat exchanger in an enclosure for direct mounting on VX IT or TS IT racks in place of. Designed to support liquid cooling within high density environments, the Liebert® XDU Coolant Distribution Units are suitable for chip & rear door cooling applications that offer easy, cost-effective deployment in any data center. The Liebert XDU family offers multiple system designs that operate. This is why DCX introduced a new architecture of DCX HYDRO Direct Liquid Cooling solutions: Coolant Distribution Units (CDUs), affordable rack manifolds and open DCX coldplates. We offer the most comprehensive portfolio of CDU systems: from 100kW in-rack units to datacenter scale In-Row systems. Schneider Electric's data center liquid cooling solutions are purpose-built for AI workloads, GPU servers, and high-density IT environments.

## Article Content

### Tate Manifolds

Tate's Liquid Cooling Manifolds deliver coolant from the Coolant Distribution Unit (CDU) to the rack, enabling liquid cooling for high-density data centres. By regulating flow, pressure, and temperature,

Deploying liquid cooling in data centers: Installing and managing ...

Learn about coolant distribution units (CDUs), their strategic placement, and effective management for implementing liquid cooling in new or existing data centers.

### Liquid Cooling In-Rack Manifolds & Quick Disconnects

Whether you're scaling up or optimizing performance, our liquid cooling distribution manifolds provide reliability, flexibility, and speed. Optimize your liquid cooling

### CDU Solutions for Direct-to-Chip Liquid Cooling

Coolant Distribution Units for data centers deliver direct-to-chip cooling with an user-friendly design, high reliability & simple installation. Learn more!

### Deploying liquid cooling in the data center

Adopting Liquid Cooling at Existing Data Centers The future of IT thermal management has arrived, and it's a hybrid of air and liquid cooling technologies. Enterprises are adopting high-performance

### Project: LN2 distribution boxes

End-user Cooling with Eco friendly LN2 instead of CFK's For various projects we developed LN2 distribution systems that can accurately distribute LN2 flows to

### Direct Liquid Cooling Systems

Direct Liquid Cooling Systems For the past few years, the industry has been unable to deliver cost-effective, reliable, and flexible direct liquid cooling systems. This is

### In-Rack Manifold| Liquid Cooling Systems | Motivair

Built from durable 304 stainless steel, Motivair's In-Rack Manifolds are engineered to withstand the demanding conditions of modern data centers. The robust

### Data center cooling systems: coolant distribution unit liquid cooling

Data center cooling systems: coolant distribution unit liquid cooling Mastering IT cooling: the power of liquid cooling solutions The ever-increasing demands of data center infrastructure management

### Liquid Cooling Success: How Coolant Distribution Units

Understanding CDUs for Liquid Cooling in High-Density Data Centers As the demand for real-time digital services, AI computing, and cloud

Coolant distribution unit (CDU) | Eaton

What does a coolant distribution unit do? Coolant distribution units are essential components that ensure liquid cooled systems meet or exceed lifetime expectations. Operation logic integrated into intelligent

DCX Liquid Cooling Systems

The DCX Facility Distribution Unit (FDU) is a centralized coolant distribution unit used in direct liquid cooling systems for large-scale server clusters, including

Liquid cooling solutions for AI and high-density data

Schneider Electric's data center liquid cooling solutions are purpose-built for AI workloads, GPU servers, and high-density IT environments. With over a decade

The Ultimate Guide to Coolant Distribution Units (CDUs)

Coolant distribution units are key components in closed-loop liquid cooling systems, managing coolant temperature and flow with precision.

Coolant Distribution Units for High Performance Data Centers

Boyd's liquid cooling solutions include all the components required to construct a high reliability liquid cooling system. The components include high performance cold plates, rack manifolds, liquid loops,

Direct Liquid Cooling Systems

A broad range of 7 Coolant Distribution Units, including 4U rack-based CDUs and standalone In-Row CDUs with capacities reaching from 100kW up to 5MW. Over

Understanding coolant distribution units (CDUs) for liquid cooling

Understand the role of coolant distribution unit (CDUs) for liquid cooling and its ability to support higher heat densities in the data center environment.

Liquid Cooling System

The secondary side includes a coolant distribute unit (CDU), liquid cooling cabinets, liquid-cooled chassis, and liquid-cooled nodes. Figure 1-1 and Figure 1-2 show the logical architecture of the full

Liquid Cooling Packages

The CDU In-Row is a liquid-to-liquid coolant distribution unit installed in an OCP rack (ORv3). Its unique modular configuration is designed for maximum scalability and maintenance-friendliness.

Liquid cooling loops | Eaton

An Eaton Boyd Thermal liquid cooling loop is a specialized assembly with one or more cold plates connected with a single inlet port entering the enclosure and a single outlet port. Liquid cooling loop

Liebert® XDU Coolant Distribution Units

Designed to support liquid cooling within high density environments, the Liebert® XDU Coolant Distribution Units are suitable for chip & rear door cooling

Shenglin Liquid-Cooled Rack-Mounted Load Box

The load box is designed to fit in standard racks, making it easy to integrate with other equipment and liquid cooling systems. Its modular nature also allows for

Coolant Distribution Units for High Performance Data Centers

Coolant Distribution Units for High Performance Data Centers Boyd's liquid cooling solutions include all the components required to construct a high reliability liquid cooling system. The components include

Coolant Distribution Units

Coolant Distribution Units Improve Cooling and Performance of Cloud, Enterprise & 5G Applications Overview Boyd Corporation has been the leading innovator in Enterprise cooling and engineered

## Contact Us

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