

# Global High-power Coolant Distribution Units(CDU) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High-power Coolant Distribution Units(CDU) market size is expected to reach \$ 2000 million by 2032, rising at a market growth of 18.5% CAGR during the forecast period (2026-2032).

The High-Power Coolant Distribution Unit (CDU) is a cooling unit specifically designed for use in high heat density data centres and other environments that require efficient heat dissipation. Its primary function is to absorb and discharge large amounts of heat generated by servers and other equipment by circulating coolant. High-power CDUs typically have extremely high heat dissipation capabilities to effectively support high-performance computing (HPC) and high heat load servers in modern data centres.

Upstream: The main components of a CDU include pumps, reservoirs, power supplies, control boards, and heat exchangers. Additionally, filters, flow meters, pressure transducers, and other devices are used in managing the operation of the CDU in conjunction with the Server Rack. Downstream: CDUs are primarily used in data centers.

In 2025, global sales of High-power Coolant Distribution Units reached approximately 19 K units, with an average global market price of around US\$ 31 K/unit. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 30% to 50%.

Coolant distribution unit (CDU) is a system that enables smaller, more efficient, more precise liquid cooling in a data center at rack level, often integrating facility water. The CDU circulates coolant in a closed loop system within the rack on the secondary (Cooling Application) side and utilizes facility water on the primary (Heat Rejection) side.

A CDU has a pump, reservoir, power supply, control board and a heat-exchanger as the key components. Filters, flow meters, pressure transducers, and other devices are also used in managing the operation of the CDU in conjunction with the Server Rack.

With data center workloads ever increasing due to advanced analytics, AI, and the digitization of every process, the average rack power draw has shot up considerably. And, as we know, with more power draw comes more waste heat that needs to be removed from the rack and eventually the white space. Based on this, liquid cooling technology is gradually replacing traditional air cooling technology to provide high performance solutions to data centers. As a key part of liquid cooling system, CDU will benefit from the permeability of liquid cooling in data centers accordingly.

As data center footprints continue to shrink due to urbanization and real estate constraints, optimizing space utilization has become a pressing priority for data center managers. Liquid cooling solutions offer a compact and space-efficient alternative to traditional air cooling systems, enabling data centers to maximize their rack densities and floor space without compromising thermal performance. Moreover, the scalability of liquid cooling systems makes them well-suited for accommodating future growth and expansion. By modularizing cooling infrastructure and deploying liquid cooling units in a distributed manner, data centers can easily scale their cooling capacity in response to changing workload demands. This flexibility not only enhances operational agility but also streamlines the deployment of new IT equipment without the need for extensive retrofitting or reconfiguration.

This report studies the global High-power Coolant Distribution Units(CDU) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-power Coolant Distribution Units(CDU) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High-power Coolant Distribution Units(CDU) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global High-power Coolant Distribution Units(CDU) total production and demand, 2021-2032, (Units)

Global High-power Coolant Distribution Units(CDU) total production value, 2021-2032, (USD Million)

Global High-power Coolant Distribution Units(CDU) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global High-power Coolant Distribution Units(CDU) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: High-power Coolant Distribution Units(CDU) domestic production, consumption, key domestic manufacturers and share

Global High-power Coolant Distribution Units(CDU) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global High-power Coolant Distribution Units(CDU) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global High-power Coolant Distribution Units(CDU) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global High-power Coolant Distribution Units(CDU) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Vertiv, Schneider Electric, nVent, CoolIT Systems, Boyd (Eaton), Envicool, Nortek DCC, Delta Electronics, Coolcentric, DCX, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High-power Coolant Distribution Units(CDU) market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High-power Coolant Distribution Units(CDU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-power Coolant Distribution Units(CDU) Market, Segmentation by Type:

100-500 kW

Above 500 kW

Global High-power Coolant Distribution Units(CDU) Market, Segmentation by Cooling Method:

Liquid to Liquid CDU

Liquid to Air CDU

Global High-power Coolant Distribution Units(CDU) Market, Segmentation by Installation Level:

Rack-based CDU

Row-based CDU

Global High-power Coolant Distribution Units(CDU) Market, Segmentation by

Application:

Internet

Telecommunications

Finance

Government

Other

Companies Profiled:

Vertiv

Schneider Electric

nVent

CoolIT Systems

Boyd (Eaton)

Envicool

Nortek DCC

Delta Electronics

Coolcentric

DCX

Chillydyne (Daikin)

Kehua Data

**Key Questions Answered:**

1. How big is the global High-power Coolant Distribution Units(CDU) market?
2. What is the demand of the global High-power Coolant Distribution Units(CDU) market?
3. What is the year over year growth of the global High-power Coolant Distribution Units(CDU) market?
4. What is the production and production value of the global High-power Coolant Distribution Units(CDU) market?
5. Who are the key producers in the global High-power Coolant Distribution Units(CDU) market?
6. What are the growth factors driving the market demand?

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