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Global Liquid Cooled CDUs for Data Centers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Cooled CDUs for Data Centers market size is expected to reach $ 3950 million by 2032, rising at a market growth of 19.7% CAGR during the forecast period (2026-2032).

Liquid Cooled CDU (Coolant Distribution Unit) is an essential component in liquid cooling systems that distribute coolant or water evenly throughout the system. The CDU regulates and controls the flow of coolant, maintaining the desired temperature and flow rate. It works in conjunction with pumps, radiators, heat exchangers, and control units to ensure the cooling system runs smoothly and efficiently. Liquid cooled CDU also helps keep the system clean by removing impurities from the coolant, preventing clogging and damage to other components in the system. Overall, liquid cooled CDU is used in data center and plays a critical role in maintaining the proper functioning of liquid cooling systems.

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

In 2025, global sales of liquid cooled CDUs for data centers reached approximately 60 K units, with an average global market price of around US$ 16 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

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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.

In an era marked by growing environmental consciousness and stringent energy regulations, data centers are under increasing pressure to enhance their sustainability practices. Liquid cooling technologies present a compelling solution to address these concerns by reducing overall energy consumption and carbon footprint. Unlike air cooling, which relies on fans to circulate air and dissipate heat, liquid cooling systems leverage the superior thermal conductivity of liquids to efficiently remove heat from IT equipment. This results in lower cooling energy requirements and operational costs, translating into tangible environmental benefits and long-term cost savings for data center operators. Additionally, liquid cooling enables the reuse of waste heat for heating purposes, further maximizing energy efficiency and sustainability efforts.

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This report studies the global Liquid Cooled CDUs for Data Centers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Cooled CDUs for Data Centers 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 Liquid Cooled CDUs for Data Centers that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Liquid Cooled CDUs for Data Centers total production and demand, 2021-2032, (Units)
Global Liquid Cooled CDUs for Data Centers total production value, 2021-2032, (USD Million)
Global Liquid Cooled CDUs for Data Centers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Liquid Cooled CDUs for Data Centers consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Liquid Cooled CDUs for Data Centers domestic production, consumption, key domestic manufacturers and share
Global Liquid Cooled CDUs for Data Centers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Liquid Cooled CDUs for Data Centers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Liquid Cooled CDUs for Data Centers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Liquid Cooled CDUs for Data Centers 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, Eaton, nVent, Nidec, Nortek DCC, CoolIT Systems, Coolcentric, Delta Electronics, 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 Liquid Cooled CDUs for Data Centers market

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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 Liquid Cooled CDUs for Data Centers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Cooled CDUs for Data Centers Market, Segmentation by Type:

Liquid to Liquid CDU

Liquid to Air CDU

Global Liquid Cooled CDUs for Data Centers Market, Segmentation by Installation Level:

Rack-based CDU

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Row-based CDU

Other

Global Liquid Cooled CDUs for Data Centers Market, Segmentation by Capacity:

Capacity ? 100kW

Capacity ? 100kW

Global Liquid Cooled CDUs for Data Centers Market, Segmentation by Application:

Internet

Telecommunications

Finance

Government

Other

Companies Profiled:

Vertiv

Schneider Electric

Eaton

nVent

Nidec

Nortek DCC

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CoolIT Systems

Coolcentric

Delta Electronics

DCX

Envicool

Kehua Data

Chilldyne

Key Questions Answered:

1. How big is the global Liquid Cooled CDUs for Data Centers market?
2. What is the demand of the global Liquid Cooled CDUs for Data Centers market?
3. What is the year over year growth of the global Liquid Cooled CDUs for Data Centers market?
4. What is the production and production value of the global Liquid Cooled CDUs for Data Centers market?
5. Who are the key producers in the global Liquid Cooled CDUs for Data Centers market?
6. What are the growth factors driving the market demand?

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