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Global Liquid Cooled CDUs for Data Centers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Liquid Cooled CDUs for Data Centers market size was valued at US$ 1014 million in 2025 and is forecast to a readjusted size of US$ 3950 million by 2032 with a CAGR of 19.7% during review period.

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%.

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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.

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 is a detailed and comprehensive analysis for global Liquid Cooled CDUs for Data Centers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Liquid Cooled CDUs for Data Centers market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Liquid Cooled CDUs for Data Centers market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Liquid Cooled CDUs for Data Centers market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Liquid Cooled CDUs for Data Centers market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Liquid Cooled CDUs for Data Centers

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Liquid Cooled CDUs for Data Centers market based on the following parameters - company overview, sales quantity, revenue,

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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.

Market Segmentation

Liquid Cooled CDUs for Data Centers market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Liquid to Liquid CDU

Liquid to Air CDU

Market segment by Installation Level

Rack-based CDU

Row-based CDU

Other

Market segment by Capacity

Capacity ? 100kW

Capacity ? 100kW

Market segment by Application

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Internet

Telecommunications

Finance

Government

Other

Major players covered

Vertiv

Schneider Electric

Eaton

nVent

Nidec

Nortek DCC

CoolIT Systems

Coolcentric

Delta Electronics

DCX

Envicool

Kehua Data

Chilldyne

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Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Liquid Cooled CDUs for Data Centers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Liquid Cooled CDUs for Data Centers, with price, sales quantity, revenue, and global market share of Liquid Cooled CDUs for Data Centers from 2021 to 2026.

Chapter 3, the Liquid Cooled CDUs for Data Centers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Liquid Cooled CDUs for Data Centers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Liquid Cooled CDUs for Data Centers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Liquid Cooled CDUs for Data Centers.

Chapter 14 and 15, to describe Liquid Cooled CDUs for Data Centers sales channel, distributors, customers, research findings and conclusion.

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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