

Global Data Center Cooling CDU Pumps 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 Data Center Cooling CDU Pumps market size was valued at US\$ 288 million in 2025 and is forecast to a readjusted size of US\$ 568 million by 2032 with a CAGR of 10.0% during review period.

Data center cooling CDU pumps are specialized fluid-handling devices installed within coolant distribution units (CDUs) or their associated circulation loops. They circulate coolant between the CDU and liquid-cooling terminals such as server cold plates, rear-door heat exchangers, immersion-cooling tanks, and other high-density cooling equipment, while maintaining the required flow rate, head, and differential pressure. These pumps commonly use centrifugal, multistage, magnetic-drive, or canned-motor designs and may integrate variable-frequency drives, EC motors, pressure and temperature sensors, and intelligent control systems to adjust coolant flow according to changing IT heat loads. Compared with conventional industrial circulation pumps, CDU pumps place greater emphasis on reliability, low leakage risk, low noise, energy efficiency, coolant compatibility, and continuous-duty operation. Dual-pump or N+1 redundant configurations are also frequently adopted to support uninterrupted cooling of mission-critical computing infrastructure. In 2025, global Data Center Cooling CDU Pumps production reached approximately 117 k Units, with an average global market price of around 2394 USD/Unit. The production capacity for Data Center Cooling CDU Pumps in 2025 was approximately 150 k Units. The typical gross profit margin for Data Center Cooling CDU Pumps between 20% and 40%.

The global data center cooling CDU pump market is expanding as artificial intelligence training, cloud computing, high-performance computing, and high-density server deployments continue to increase. Rising power consumption and heat generation from

GPUs and AI accelerators are reducing the effectiveness of conventional air-cooling systems in high-heat-load environments, accelerating the adoption of direct-to-chip cooling, rear-door heat exchangers, and immersion cooling. This transition is creating growing demand for CDUs and their associated circulation pumps. Market development is increasingly focused on high-flow and high-head performance, variable-speed operation, intelligent monitoring, and redundant system configurations, while stainless-steel wetted components, sealless designs, permanent-magnet motors, and integrated control technologies are gaining wider adoption. Cloud and hyperscale data centers, AI and HPC facilities, and colocation data centers currently represent the main demand segments, while enterprise and edge data centers are increasingly adopting compact and modular CDU pump solutions. Going forward, closer cooperation among pump manufacturers, CDU suppliers, and liquid-cooling system integrators is expected, with competition shifting from basic hydraulic performance toward energy efficiency, operational reliability, digital control, and lifecycle service capabilities.

This report is a detailed and comprehensive analysis for global Data Center Cooling CDU Pumps 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 Data Center Cooling CDU Pumps market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Data Center Cooling CDU Pumps market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Data Center Cooling CDU Pumps market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Data Center Cooling CDU Pumps market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Data Center Cooling CDU Pumps

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 Data Center Cooling CDU Pumps market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Grundfos, Xylem, Wilo, EBARA Corporation, Flowserve Corporation, Gates Corporation, Gorman-Rupp Industries, SPP Pumps, Panasonic, SPAL Automotive, etc.

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

Market Segmentation

Data Center Cooling CDU Pumps 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

Centrifugal Pumps

Positive Displacement Pumps

Others

Market segment by Number of Stages

Single-Stage Pumps

Multistage Pumps

Others

Market segment by Application

AI and High-Performance Computing Data Centers

Cloud and Hyperscale Data Centers

Enterprise Data Centers

Edge Data Centers

Others

Major players covered

Grundfos

Xylem

Wilo

EBARA Corporation

Flowserve Corporation

Gates Corporation

Gorman-Rupp Industries

SPP Pumps

Panasonic

SPAL Automotive

Tark Thermal Solutions

Calpeda S.p.A.,

Moog Company

Concentric

AMETEK

Fluid-o-Tech

Crest Pumps

Johnson Electric

GuangDong Shenpeng Technology

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 Data Center Cooling CDU Pumps product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Data Center Cooling CDU Pumps, with price, sales quantity, revenue, and global market share of Data Center Cooling CDU Pumps from 2021 to 2026.

Chapter 3, the Data Center Cooling CDU Pumps competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Data Center Cooling CDU Pumps 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 Data Center Cooling CDU Pumps market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Data Center Cooling CDU Pumps.

Chapter 14 and 15, to describe Data Center Cooling CDU Pumps sales channel, distributors, customers, research findings and conclusion.

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