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Global CDU Liquid Cooling Pumps for Data Centers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CDU Liquid Cooling Pumps for Data Centers market size is expected to reach $ 558 million by 2032, rising at a market growth of 10.7% CAGR during the forecast period (2026-2032).

A CDU liquid cooling pump for data center is a core component within a Coolant Distribution Unit (CDU), responsible for circulating coolant throughout a closed-loop liquid cooling system. It drives coolant through cold plates attached to high-density components such as CPUs and GPUs, absorbs heat, and returns it to the CDU, where the heat is transferred to the facility?s primary cooling loop via a heat exchanger. The pump?s performance directly impacts flow stability, pressure control, and overall thermal efficiency, making it a critical element in high-performance liquid-cooled data centers. In 2025, global sales of CDU liquid cooling pumps for data centers are projected to reach 150,000 units, with an average unit price of approximately $1,800; industry gross margins typically range between 25% and 40%. The industry chain for liquid-cooled pumps within Data Center Cooling Distribution Units (CDUs) can be broadly categorized into three tiers: upstream core components, midstream equipment manufacturing and system integration, and downstream applications. The upstream tier primarily comprises suppliers of critical components?such as motors (specifically brushless DC motors), pump body materials (stainless steel, engineering plastics), sealing elements (fluororubber, ceramic bearings), and controllers and sensors (for pressure, flow, and temperature)?the quality of which directly determines a product's reliability and service life. The midstream tier consists of liquid-cooled pump manufacturers and CDU system integrators; these enterprises not only supply standard pump products but also undertake system-matching design (covering flow rate, head pressure, and redundancy) and integrate these components with heat exchangers, piping networks, and control systems. A number of manufacturers have already

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successfully implemented integrated solutions encompassing the 'CDU + Pump + Control' triad. The downstream tier is predominantly driven by high-heat-density environments?most notably data centers operated by data center operators?while also extending into adjacent sectors such as industrial cooling and medical equipment. As liquid cooling transitions from a 'supplementary solution' to a 'mainstream solution,' the industry chain is undergoing an upgrade toward greater reliability, modularity, and intelligence, thereby driving the supply chain to concentrate its capabilities on high-end manufacturing and comprehensive system integration.

This report studies the global CDU Liquid Cooling Pumps for Data Centers production, demand, key manufacturers, and key regions.

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

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

This report profiles key players in the global CDU Liquid Cooling Pumps for Data Centers market based on the following parameters - company overview, production,

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value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Grundfos (DNK), Wilo (DEU), Xylem Inc. (USA), Flowserve (USA), Sulzer (CHE), Ebara Corporation (JPN), ITT Inc.(USA), Danfoss (DNK), KNF Group (DEU), Tuthill Corporation (USA), 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 CDU Liquid Cooling Pumps for Data Centers 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 CDU Liquid Cooling Pumps for Data Centers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global CDU Liquid Cooling Pumps for Data Centers Market, Segmentation by Type:

Single-stage Pump

Multi-stage Pump

Global CDU Liquid Cooling Pumps for Data Centers Market, Segmentation by Drive Type:

BLDC pump

AC pump

Global CDU Liquid Cooling Pumps for Data Centers Market, Segmentation by Application:

Hyperscale

Large

Small/Medium

Companies Profiled:

Grundfos (DNK)

Wilo (DEU)

Xylem Inc. (USA)

Flowserve (USA)

Sulzer (CHE)

Ebara Corporation (JPN)

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ITT Inc.(USA)

Danfoss (DNK)

KNF Group (DEU)

Tuthill Corporation (USA)

Micropump (USA)

Iwaki Co., Ltd. (JPN)

Johnson Electric (HKG)

Key Questions Answered:

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

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