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Global Liquid Cooling System for Data Centers Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Liquid Cooling System for Data Centers market size was valued at US$ 2109 million in 2024 and is forecast to a readjusted size of USD 23300 million by 2031 with a CAGR of 19.3% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Data centers are critical infrastructures for modern computing and data management, and effective cooling systems are essential for their operation. As data centers become more densely packed with high-performance servers and equipment that generate significant amounts of heat, conventional air-cooling systems may face limitations. As a result, liquid cooling systems have gained prominence as an efficient alternative for thermal management in data centers.

Liquid Cooling System for Data Centers Market Drivers

Increasing Heat Generation: Modern data centers are characterized by high-performance computing and dense server environments, which generate significant amounts of heat. Liquid cooling systems provide efficient heat removal, ensuring equipment operates within safe temperature limits.

Rising Demand for Energy Efficiency: Data centers consume a considerable amount of energy, and the push for energy-efficient solutions is strong. Liquid cooling systems

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typically require less energy compared to traditional air conditioning systems, contributing to lower operational costs.

Growing Adoption of High-Performance Computing (HPC): The rise in HPC applications, such as artificial intelligence (AI) and big data analytics, necessitates advanced cooling solutions that liquid cooling systems can provide due to their superior thermal management capabilities.

Increasing Density of Data Centers: Higher server and rack densities drive the need for effective cooling solutions. Liquid cooling systems accommodate these demands better than traditional air cooling systems, allowing for more servers in a smaller footprint.

Support for Renewable Energy Initiatives: Companies are increasingly looking to reduce their carbon footprints. Liquid cooling systems can utilize thermal energy recovery and integrate with renewable energy sources, making them an attractive option for environmentally conscious data centers.

Technological Advancements: Continuous innovations in liquid cooling technologies (like immersion cooling) enhance the efficiency and effectiveness of these systems, attracting more operators to implement liquid cooling solutions.

Liquid Cooling System for Data Centers Market Restraints

High Initial Costs: The initial investment required for liquid cooling infrastructure can be significantly higher than traditional air cooling systems. This can deter smaller operators or those with limited budgets from making the switch.

Complexity of Installation and Maintenance: Implementing a liquid cooling system can be more complex than traditional air-cooled systems, requiring specialized knowledge for installation and maintenance. The need for skilled personnel can create additional hurdles.

Leakage Risks and Maintenance Challenges: The potential for leaks and water damage poses a concern for data center operators. Effective management and maintenance protocols are necessary to mitigate these risks.

Lack of Standardization: The absence of standardized designs and protocols in liquid cooling systems can lead to compatibility issues with various hardware setups and create uncertainties for potential adopters.

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Limited Awareness and Understanding: The relatively nascent stage of liquid cooling technology means that many data center managers may be unaware of the benefits or may have misconceptions about its implementation and maintenance.

Economic Factors: Economic downturns may lead organizations to delay or reduce capital expenditures, affecting the adoption of new technologies, including liquid cooling solutions.

This report is a detailed and comprehensive analysis for global Liquid Cooling System 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 Cooling System for Data Centers market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2020-2031

Global Liquid Cooling System for Data Centers market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2020-2031

Global Liquid Cooling System 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), 2020-2031

Global Liquid Cooling System for Data Centers market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2020-2025

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 Cooling System for Data Centers

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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 Cooling System for Data Centers 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 Vertiv, nVent Schroff, STULZ, Envicool, Boyd Corporation, Delta Electronics, Rittal (Friedhelm Loh Group), Schneider Electric, Kaori Heat Treatment, Green Revolution Cooling (GRC), etc.

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

Market Segmentation

Liquid Cooling System for Data Centers market is split by Type and by Application. For the period 2020-2031, 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

Direct-to-chip Cooling

Immersion Cooling

Others

Market segment by Application

Onsite Data Centers

Colocation Facilities

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Hyperscale Data Centers

Edge Data Centers

Major players covered

Vertiv

nVent Schroff

STULZ

Envicool

Boyd Corporation

Delta Electronics

Rittal (Friedhelm Loh Group)

Schneider Electric

Kaori Heat Treatment

Green Revolution Cooling (GRC)

Laird Thermal Systems

Airedale (Modine)

Midas Green Technologies

LiquidStack

DCX

Motivair

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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 Cooling System for Data Centers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Liquid Cooling System for Data Centers, with price, sales quantity, revenue, and global market share of Liquid Cooling System for Data Centers from 2020 to 2025.

Chapter 3, the Liquid Cooling System 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 Cooling System for Data Centers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025.and Liquid Cooling System for Data Centers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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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 Cooling System for Data Centers.

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

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Figure 86. Research Process and Data Source

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