

# **Data Center Liquid Cooling Market Size, Share & Trends Analysis Report By Component, By Solution, By Service, By Type Of Cooling (Immersion Cooling, Cold Plate Cooling, Spray Liquid Cooling), By Data Center Type, By End-use, By Region, And Segment Forecasts, 2025 - 2030**

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## **Abstracts**

This report can be delivered to the clients within 3 Business Days

### **Data Center Liquid Cooling Market Summary**

The global data center liquid cooling market size was estimated at USD 5.38 billion in 2024 and is projected to reach USD 17.77 billion by 2030, growing at a CAGR of 21.6% from 2025 to 2030. The industry has experienced significant growth due to several key drivers. One of the main factors is the growing demand for energy-efficient solutions.

As the volume of data generated globally grows, so does the need for advanced cooling systems to manage the heat generated by densely packed server racks. Traditional air cooling systems are reaching their limitations in terms of efficiency, leading many data centers to adopt liquid cooling solutions. Liquid cooling systems are known for their superior efficiency, as liquids can absorb and transfer heat more effectively than air, allowing for better heat dissipation and reduced energy consumption.

Another key factor is the increasing use of high-performance computing (HPC) applications and artificial intelligence (AI). These applications require high computational power, which in turn generates considerable heat. Liquid cooling systems are essential for maintaining the performance and reliability of such systems, making

them an attractive option for data centers that host HPC workloads, machine learning models, and AI-driven applications. The growing demand for AI, machine learning, and data analytics in industries such as healthcare, automotive, and finance is fueling the need for high-density server environments that rely heavily on advanced cooling methods.

Moreover, sustainability initiatives are contributing to the data center liquid cooling industry. With increased awareness of the environmental impact of energy consumption, companies are seeking ways to reduce their carbon footprints. Liquid cooling, due to its energy efficiency, helps in lowering power consumption compared to traditional air cooling systems, contributing to more sustainable operations in data centers. This shift aligns with the broader trend of adopting green technologies in various industries, especially in regions with stringent environmental regulations.

For instance, in May 2023, the U.S. Department of Energy (DOE) announced USD 40 million in funding for 15 projects aimed at developing high-performance, energy-efficient cooling solutions for data centers. Data centers, which house computers, storage systems, and computing infrastructure, currently account for around 2% of total U.S. electricity consumption. Cooling systems alone can represent up to 40% of the total energy usage in these facilities. This funding is designed to help reduce energy consumption and enhance the sustainability of data centers.

The advancement of liquid cooling technologies, including immersion cooling and direct-to-chip cooling, is also driving the market. These innovations are designed to optimize heat transfer while minimizing the space requirements and maintenance costs associated with traditional cooling methods. As these technologies become more cost-effective and scalable, more data centers are adopting liquid cooling solutions to meet the evolving demands of high-performance workloads.

### Global Data Center Liquid Cooling Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global data center liquid cooling market report based on component, solution, service, type of cooling, data center type, end-use, and region.

### Component Outlook (Revenue, USD Billion, 2018 - 2030)

Solution

Service

Solution Outlook (Revenue, USD Billion, 2018 - 2030)

Direct Liquid Cooling

Indirect Liquid Cooling

Service Outlook (Revenue, USD Billion, 2018 - 2030)

Design and Consulting

Installation and Deployment

Maintenance and Support

Type of Cooling Outlook (Revenue, USD Billion, 2018 - 2030)

Immersion Cooling

Cold Plate Cooling

Spray Liquid Cooling

Data Center Type Outlook (Revenue, USD Billion, 2018 - 2030)

Hyperscale Data Centers

Enterprise Data Centers

Colocation Data Centers

Edge Data Centers

High-Performance Computing (HPC) Data Centers

End Use Outlook (Revenue, USD Billion, 2018 - 2030)

IT

Telecom

Healthcare

BFSI

Retail & E-commerce

Entertainment & Media

Energy

Others

Regional Outlook (Revenue, USD Billion, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Middle East & Africa

UAE

Saudi Arabia

South Africa

## **Companies Mentioned**

Alfa Laval

Asetek, Inc.

Asperitas

COOLIT SYSTEMS

Dell Inc.

Fujitsu

Hitachi, Ltd.

Iceotope Technologies

Lenovo Group Limited

LiquidStack

Mitsubishi Electric Corporation

NTT Ltd.

Schneider Electric

STULZ GMBH

Vertiv Group Corp.

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