

## **Data Centre Liquid Cooling System Market Report and Forecast 2025-2034**

Market Report | 2025-08-11 | 170 pages | EMR Inc.

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### **Report description:**

The global data centre liquid cooling system market attained a value of USD 3.46 Billion in 2024 . The market is further expected to grow in the forecast period of 2025-2034 at a CAGR of 22.30% to reach USD 25.90 Billion by 2034 .

Growing BFSI Sector to Aid the Growth of the Data Centre Liquid Cooling System Industry

The banking, financial services, and insurance (BFSI) industry is being transformed with the rapid deployment of cloud computing technology, which is a crucial component of the digital revolution. Security concerns, legacy architecture, country-specific regulations, and difficulty in managing the complicated shifts have been major challenges in the deployment of cloud technology in the BFSI industry.

However, the desire to accept new business models, infuse agility to adapt quickly to the changing market scenarios, and decrease total cost of ownership (TCO) are driving BFSI enterprises to deploy cloud solutions. This is expected to result in even more data points, requiring powerful data storage and processing. In this regard, the cost of maintaining these data centres could be very high if the system is not optimised, thus, necessitating the need for liquid cooling systems. These factors are projected to aid the market growth in the forecast period.

Data Centre Liquid Cooling System: Market Segmentation

A liquid cooling system uses water as the cooling medium to keep the temperature of a computer CPU low. This cooling method keeps the processor cool while also reducing the noise generated by increased processing speeds. Data centres use this system to improve efficiency due to their high power requirements.

By type, the market can be classified into

- Indirect Cooling

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??- In-Row-Based  
??- In-Rack Based

- Direct Cooling

??- Single Phase

??- Two Phase

On the basis of data centre type, the market can be distributed into

- Hyperscale Centres
- Enterprise Type
- Colocation Type Centres
- Others

The market can be broadly categorised, on the basis of end use, into

- IT and Telecom
- Banking, Financial Services, and Insurance (BFSI)
- Government and Public Sector
- Healthcare
- Manufacturing
- Retail
- Others

The regional markets for the product include

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Growing Demand for Energy Efficient Cooling Systems to Bolster the Global Data Centre Liquid Cooling System Industry

The IT infrastructure, which consists of millions of servers and computer devices for data processing and storage, is facilitated by data centres. The equipment (50%) and HVAC (25%-40%) in place to maintain the computer room environment or computer room air-conditioners absorb the majority of the electricity in these data centres. In this regard, the demand for efficient cooling solutions has increased, with the rapid advancements in computer equipment design and higher equipment density. There is also an increase in demand for noiseless cooling systems across all equipment, starting from laptops to more extensive systems. In addition, the liquid cooling systems also help in achieving better overclocking potential due to better heat management. Moreover, emerging technologies including artificial intelligence (AI) and machine learning (ML) are also creating the need for efficient cooling systems, owing to the increased use of high-performance computing (HPC) principles by a large number of enterprises. These applications necessitate the ability to process large amounts of data in a short amount of time. However, unlike HPC, AI systems frequently analyse data from various sources in a variety of formats, such as big images, audio, and video files. Thus, liquid cooling solutions can efficiently and successfully cool racks with capacities of 50 kW and greater. These factors are projected to aid the market growth in the forecast period.

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## Key Industry Players in the Global Data Centre Liquid Cooling System Market

The report presents a detailed analysis of the following key players in the global data centre liquid cooling system market, looking into their capacity, market shares, and latest developments like capacity expansions, plant turnarounds, and mergers and acquisitions:

- Asetek, Inc.
- Schneider Electric
- Submer Technologies SL.
- Green Revolution Cooling, Inc. (GRC)
- Munters Europe AB
- Aspen Systems Inc.
- Others

The comprehensive report looks into the macro and micro aspects of the industry. The EMR report gives an in-depth insight into the market by providing a SWOT analysis as well as an analysis of Porter's Five Forces model.

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