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Global Data Center Liquid Cooling Market 2023-2029

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Abstracts

Data center liquid cooling is a technology used to cool the servers and other equipment in a data center by using liquid instead of air. This technology is becoming increasingly popular as data centers become more powerful and generate more heat. Liquid cooling works by circulating a liquid coolant through a system of pipes and heat exchangers, which absorb the heat generated by the servers and other equipment. The heated coolant is then pumped out of the data center and cooled down before being recirculated back into the system. The global data center liquid cooling market is projected to rise by USD 5.6 billion by 2029, according to the latest market study results. It is anticipated to expand at a CAGR of 21.3 percent during the forecast period. One of the key drivers of growth in the data center liquid cooling market is the increasing power density of data centers. As data centers become more powerful and generate more heat, traditional air cooling methods are becoming less effective. Liquid cooling offers a more efficient and effective way to cool data centers, which is driving demand for this technology. Another factor driving growth in the data center liquid cooling market is the increasing focus on sustainability and energy efficiency. Liquid cooling can help to reduce the energy consumption of data centers, which can help to lower operating costs and reduce carbon emissions. In addition, the growing demand for cloud computing and data analytics is driving the need for more data centers, which is further fueling demand for liquid cooling technology.One of the key drivers of growth in the data center liquid cooling market is the increasing power density of data centers. As data centers become more powerful and generate more heat, traditional air cooling methods are becoming less effective. Liquid cooling offers a more efficient and effective way to cool data centers, which is driving demand for this technology. Another factor driving growth in the data center liquid cooling market is the increasing focus on sustainability and energy efficiency. Liquid cooling can help to reduce the energy consumption of data centers, which can help to lower operating costs and reduce carbon emissions. In addition, the growing demand for cloud computing and data analytics is driving the need for more data centers, which is further fueling demand for

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liquid cooling technology.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global data center liquid cooling market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the solution, data center type, end user, and region. The global market for data center liquid cooling can be segmented by solution: direct cooling, indirect cooling. The indirect cooling segment is estimated to account for the largest share of the global data center liquid cooling market. Data center liquid cooling market is further segmented by data center type: colocation data centers, enterprise data center, hyperscale data centers, others. The hyperscale data centers segment held the largest revenue share in 2022. Based on end user, the data center liquid cooling market is segmented into: BFSI, government and public, healthcare, IT and telecom, manufacturing, retail, others. Globally, the IT and telecom segment made up the largest share of the data center liquid cooling market. On the basis of region, the data center liquid cooling market also can be divided into: Asia-Pacific, Europe, North America, Rest of the World (RoW). Europe was the largest contributor to the global data center liquid cooling market in 2022.

The indirect cooling market is further segmented into row-based, rack-based. The row-based segment held the largest share of the global data center liquid cooling market in 2022 and is anticipated to hold its share during the forecast period. Furthermore, the direct cooling market has been categorized into direct-to-chip, immersion cooling. In 2022, the direct-to-chip segment made up the largest share of revenue generated by the data center liquid cooling market.

Market Segmentation

By solution: direct cooling, indirect cooling

By data center type: colocation data centers, enterprise data center, hyperscale data centers, others

By end user: BFSI, government and public, healthcare, IT and telecom, manufacturing,

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retail, others

By region: Asia-Pacific, Europe, North America, Rest of the World (RoW)

The report has also analysed the competitive landscape of the global data center liquid cooling market with some of the key players being Aecorsis BV, Asetek, Inc., Chilldyne, Inc., DCX The Liquid Cooling Company, ExaScaler Inc., Fujitsu Limited, Green Revolution Cooling, Inc., Schneider Electric SE, Submer Technologies SL, among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

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Scope of the Report

To analyze and forecast the market size of the global data center liquid cooling market.

To classify and forecast the global data center liquid cooling market based on solution, data center type, end user, region.

To identify drivers and challenges for the global data center liquid cooling market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global data center liquid cooling market.

To identify and analyze the profile of leading players operating in the global data center liquid cooling market.

Why Choose This Report

Gain a reliable outlook of the global data center liquid cooling market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

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