

Global Liquid Cooling Systems Market Size study & Forecast, by Component (Solution, Services), by Type (Liquid Heat Exchanger Systems, Compressor-based Systems), by End User (BFSI, Manufacturing, IT & Telecom, Media & Entertainment, Retail, Government & Defense, Healthcare, Energy, and Others) and Regional Analysis, 2023-2030

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Abstracts

Global Liquid Cooling Systems Market is valued at approximately USD 3.67 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 17.1% over the forecast period 2023-2030. Liquid cooling systems, also known as liquid cooling or water cooling, are cooling solutions used in various electronic devices, such as computers and high-performance servers, to dissipate heat more efficiently than traditional air-cooling methods. These systems use a liquid, typically water or a specialized coolant, to transfer heat away from the heat-generating components and disperse it into the environment. The Liquid Cooling Systems market is expanding because of factors such as the increasing penetration of smartphones and the rising number of data centers. Moreover, expanding data center infrastructure increases the demand for efficient liquid cooling systems to manage the heat generated by high-density computing equipment, driving the growth of the Liquid Cooling Systems Market.

According to Statista in 2023, the Data Center market is estimated to generate a revenue of USD 342.10 billion worldwide. Additionally, as of 2022, there were 2,701 data centers in the United States, while Germany had 487 operational data centers. Furthermore, increasing penetration of smartphones influence the demand for efficient liquid cooling systems to manage heat generated by high-performance mobile devices, contributing to the growth of the Liquid Cooling Systems Market. According to Statista in

2022, the global smartphone penetration rate reached 68% and United States exhibited one of the highest rates of smartphone adoption worldwide, with 81.6% of its population using smartphones. In France, the smartphone penetration rate was even higher, reaching 82.6%. In addition, rising technological advancements in Liquid Cooling Systems and growing demand for high-performance computing would create a lucrative growth opportunity. However, the high maintenance cost and technical complexity stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Liquid Cooling Systems Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market during the forecast period owing to increasing number of established data centers in the region. Asia Pacific is the fastest growing region during the forecast period owing to the factors such as rapid industrialization and urbanization in the region.

Major market player included in this report are:

Allied Control Services, Inc.

Asetek, Inc.

Boyd Corporation

CoolIT Systems, Inc.

Emerson Electric Co.

Green Revolution Cooling Inc.

Air Care System & Solution India Pvt. Ltd.

MIDAS Immersion Cooling

Rittal GmbH & Co. KG

Schneider Electric SE

Recent Developments in the Market:

In April 2023, ASUS has unveiled the third version of its ROG RYUJIN all-in-one CPU cooling, according to Asetek A/S. These CPU coolers make use of Asetek A/S's cutting-edge liquid cooling technology, providing exceptional overclocking capability, noiseless operation, and cutting-edge aesthetics. The goal is to provide outstanding gaming experiences while also pushing performance to new heights.

Global Liquid Cooling Systems Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Component, Type, End-User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Component:

Solution

Services

By Type:

Liquid Heat Exchanger Systems

Compressor-based Systems

By End-User:

BFSI

Manufacturing

IT & Telecom

Media & Entertainment

Retail

Government & Defense

Healthcare

Energy

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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