

Data Center Cooling Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global data center cooling market size reached US\$ 13.3 Billion in 2022. Looking forward, IMARC Group expects the market to reach a value of US\$ 30.3 Billion by 2028, exhibiting a growth rate (CAGR) of 14% during 2023-2028.

Data center cooling refers to equipment, techniques and processes employed for maintaining an ideal operating temperature within a data center facility. It assists in transferring heat energy into the external atmosphere and enhancing the overall performance of these facilities by reducing downtime caused by overheating. Moreover, as it is cost-effective, energy-efficient and environment-friendly, data center operators across the globe are adopting these cooling systems. Some of the technologies employed for data center cooling include evaporative cooling, immersion systems, free cooling, calibrated vector cooling (CVC), chilled water systems, direct-to-chip cooling and liquid cooling.

With the rising data center density, numerous organizations are introducing innovative ways for cooling computer systems to improve efficiency and maximize uptime. For instance, Google is employing seawater to maintain the temperature in one of its data centers in Hamina, Finland. This system does not create carbon emissions as it uses cold water for cooling the devices and equipment. Similarly, Facebook is using captured rainwater for cooling data centers. Moreover, AdeptDC, a smart assistant, depends on machine learning to read CPU and GPU temperatures and aids data center managers in knowing when and how much cooling is needed. Furthermore, governments in various countries are mandating environmental regulations concerning the emission and power consumption efficiency of data center operations. This, in turn, is resulting in the rising demand for eco-friendly data center cooling solutions around the world.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global data center cooling market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on solution, services, type of cooling, cooling technology, type of data center and vertical.

Breakup by Solution:

- Air Conditioning
- Chilling Units
- Cooling Towers
- Economizer Systems
- Liquid Cooling Systems
- Control Systems
- Others

Breakup by Services:

- Consulting
- Installation and Deployment
- Maintenance and Support

Breakup by Type of Cooling:

- Room-Based Cooling
- Row-Based Cooling
- Rack-Based Cooling

Breakup by Cooling Technology:

- Liquid-Based Cooling
- Air-Based Cooling

Breakup by Type of Data Center:

- Mid-Sized Data Centers
- Enterprise Data Centers
- Large Data Centers

Breakup by Vertical:

BFSI
IT and Telecom
Research and Education Institutions
Government and Defense
Retail
Energy
Healthcare
Others

Breakup by Region:

North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being Airedale International Air Conditioning, Asetek, Black Box Corporation, Climaveneta Climate Technologies, Coolcentric, Emerson Electric, Fujitsu, Hitachi, Netmagic, Nortek Air Solutions, Rittal, Schneider Electric, STULZ GmbH and Vertiv, etc.

Key Questions Answered in This Report

1. What is the expected growth rate of the global data center cooling market?
2. What are the key factors driving the global data center cooling market?
3. What has been the impact of COVID-19 on the global data center cooling market?
4. What is the breakup of the global data center cooling market based on the solution?
5. What is the breakup of the global data center cooling market based on the services?
6. What is the breakup of the global data center cooling market based on the type of cooling?
7. What is the breakup of the global data center cooling market based on the cooling technology?
8. What is the breakup of the global data center cooling market based on the vertical?
9. What are the key regions in the global data center cooling market?
10. Who are the key players/companies in the global data center cooling market?

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