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Global Data Center Cooling Systems Market 2026 by Company, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G52A8F50E8A9EN.html
Date: January 2026
Pages: 114
Price: US$ 3,480.00 (Single User License)
ID: G52A8F50E8A9EN

Abstracts

According to our (Global Info Research) latest study, the global Data Center Cooling Systems market size was valued at US$ 11435 million in 2025 and is forecast to a readjusted size of US$ 32242 million by 2032 with a CAGR of 15.9% during review period.

A Data Center Cooling System is the set of equipment and controls used to remove heat generated by servers, storage, and power electronics in a data center, so the facility can keep IT hardware within safe temperature and humidity limits and operate reliably and efficiently.

Data Center Expansion: The ongoing expansion of data center infrastructure, driven by the growth in data storage and processing demands, is a primary driver for cooling systems. Larger data centers require more effective cooling solutions to maintain optimal operating conditions. Heat Density: The trend toward higher heat densities in modern data centers, which results from the use of more powerful servers and equipment, necessitates advanced cooling systems to dissipate the heat effectively. Energy Efficiency: Data center operators are increasingly focused on energy efficiency and cost savings. Efficient cooling systems that reduce energy consumption and operating costs are in high demand.

AI/HPC drives a surge in heat dissipation density, transforming liquid cooling from an 'optional' to a 'standard feature': As the power density of GPU/AI racks rapidly increases, traditional pure air cooling is becoming increasingly inadequate in high-density scenarios. Market trends are clearly shifting towards direct-to-chip, immersion cooling, and 'air-cooling + liquid-cooling hybrid' architectures, particularly evident in

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newly built high-density data centers and cloud/hosted data centers. Industry organizations and market research generally consider the 'heat dissipation bottleneck brought about by high-density computing power' as the core reason for the growth in cooling system investment in the coming years, and point out that the proportion of liquid cooling solutions in overall data center cooling technology is rising.

Sustainability and resource constraints are becoming key variables, with water usage effectiveness (WUE) and site climate inversely influencing technology roadmaps: The market is not only pursuing lower PUE but also paying more attention to the water risks associated with cooling (water prices, water permits, droughts, and water restriction policies), driving more projects to adopt closed-loop, low-water/zero-water cooling, and heat recovery solutions. However, this often involves a 'water-electricity trade-off' (more water-efficient may consume more electricity or have higher CAPEX). Meanwhile, research and media reports also point out that many data centers are located in warmer climates, objectively increasing cooling loads and energy efficiency pressures, prompting operators to accelerate the adoption of more advanced cooling and intelligent control strategies.

Engineering delivery and energy efficiency optimization are progressing in tandem: modularization/prefabrication + increased supply and return water temperatures/intelligent control: On the supply side, data center construction cycles are being compressed, driving cooling systems towards modular, prefabricated, and rapidly scalable 'building block' delivery to match the rapid deployment of computing power; on the operation side, more and more data centers are reducing system energy consumption by increasing chilled water/cooling water setpoints, expanding natural cooling windows, refining airflow management, and implementing AI control. Industry analysis indicates that increasing chilled water temperature typically brings considerable energy savings to cooling systems (e.g., approximately 2?3% energy savings per 1?C increase), making 'higher temperature liquid cooling loops + less mechanical refrigeration' a continuously strengthening trend.

This report is a detailed and comprehensive analysis for global Data Center Cooling Systems market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

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Key Features:

Global Data Center Cooling Systems market size and forecasts, in consumption value ($ Million), 2021-2032

Global Data Center Cooling Systems market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Data Center Cooling Systems market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global Data Center Cooling Systems market shares of main players, in revenue ($ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Data Center Cooling Systems

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Data Center Cooling Systems market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Vertiv, Stulz, Envicool, Schneider Electric, Rittal, Mitsubishi Electric, Shenling, YMK, Huawei, Canatal, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Data Center Cooling Systems market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts

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for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Air Cooled

Liquid Cooled

Other

Market segment by Equipment

Coolant Distribution Unit (CDU)

Computer Room Air Conditioner

Chillers

Other

Market segment by Power

High Power

Low Power

Market segment by Application

Small and Medium Data Center

Large Data Center

Market segment by players, this report covers

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Vertiv

Stulz

Envicool

Schneider Electric

Rittal

Mitsubishi Electric

Shenling

YMK

Huawei

Canatal

iTeaq

Airsys

Airedale

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

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The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Data Center Cooling Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Data Center Cooling Systems, with revenue, gross margin, and global market share of Data Center Cooling Systems from 2021 to 2026.

Chapter 3, the Data Center Cooling Systems competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and Data Center Cooling Systems market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Data Center Cooling Systems.

Chapter 13, to describe Data Center Cooling Systems research findings and conclusion.

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