

Global Liquid-Cooled Servers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Liquid-Cooled Servers market size was valued at US\$ 4630 million in 2025 and is forecast to a readjusted size of US\$ 9545 million by 2032 with a CAGR of 10.8% during review period.

Liquid cooling servers refer to server systems that utilize liquid as the primary heat transfer medium to dissipate heat from CPUs, GPUs, HBM modules, high-speed switching chips, and other high-power electronic components through cold plate cooling, immersion cooling, spray cooling, or hybrid liquid cooling architectures. The research scope mainly covers AI training servers, AI inference servers, high-performance computing (HPC) servers, supercomputing nodes, and high-density data center servers. Major product forms include 2U/4U GPU servers, blade-type liquid cooling servers, rack-scale liquid cooling clusters, integrated liquid-cooled cabinets, and modular compute nodes. Core technologies involve cold plate channel engineering, liquid circulation systems, CDU integration, immersion tank packaging, thermal interface materials, high-reliability sealing technologies, and intelligent thermal management systems. Key specifications include rack power density, PUE performance, coolant flow rate, heat exchange efficiency, leakage prevention capability, chip junction temperature control, and overall system energy efficiency. The primary function of liquid cooling servers is to address thermal bottlenecks caused by rapidly increasing AI computing density while simultaneously reducing data center energy consumption and improving deployment efficiency and operational stability. The market is mainly applied in AI training centers, cloud data centers, supercomputing facilities, financial computing, biomedical simulation, autonomous driving training platforms, and hyperscale internet computing infrastructures.

According to our research, the liquid cooling server industry has entered a rapid expansion phase driven by the global AI computing boom and is expected to become one of the core beneficiaries of next-generation data center infrastructure upgrades between 2025 and 2030. As GPU power consumption continues to rise and high-density rack deployment accelerates, conventional air-cooling architectures are approaching their practical thermal and energy efficiency limits, making liquid cooling increasingly essential for AI training clusters and supercomputing facilities. From a technology perspective, cold plate liquid cooling remains the dominant commercial solution due to its compatibility with existing server architectures and relatively mature engineering ecosystem, while immersion cooling is gaining traction in ultra-high-density computing environments. From the demand side, hyperscale cloud providers, AI foundation model developers, and large internet data center operators in North America and China represent the primary purchasing groups, while the Middle East and Southeast Asia are emerging as new regional growth markets driven by greenfield AI data center investments. Industry developments indicate accelerating product launches of next-generation liquid-cooled AI servers by OEMs, ODMs, and GPU ecosystem participants, alongside growing capital expenditure directed toward liquid cooling cabinets, CDU systems, thermal management materials, and high-density power infrastructure. Policy trends focused on green data centers and lower PUE targets are further increasing liquid cooling adoption rates. The industry also shows a clear layered structure: the core formal supplier group mainly consists of large-scale AI server manufacturers and ODM suppliers with mass delivery capabilities, while the broader supplier ecosystem includes regional system integrators, immersion cooling specialists, and thermal management component vendors. Over the coming years, continued expansion of AI training clusters, increasing GPU thermal density, and the deployment of edge AI computing centers are expected to drive liquid cooling servers from premium AI infrastructure into mainstream data center adoption.

This report is a detailed and comprehensive analysis for global Liquid-Cooled Servers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Cooling Technology 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.

Key Features:

Global Liquid-Cooled Servers market size and forecasts, in consumption value (\$

Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Liquid-Cooled Servers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Liquid-Cooled Servers market size and forecasts, by Cooling Technology and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Liquid-Cooled Servers market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 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 Liquid-Cooled Servers

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 Liquid-Cooled Servers market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LiquidCool Solutions, Vertiv, IBM, Schneider Electric, CoolIT Systems, Delta Electronics, Huawei, Rittal, Supermicro, Inspur Information, etc.

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

Market Segmentation

Liquid-Cooled Servers market is split by Cooling Technology and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Cooling Technology, and by Application in terms of

volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Cooling Technology

Cold Plate Liquid Cooling

Immersion Liquid Cooling

Spray Liquid Cooling

Hybrid Liquid Cooling

Others

Market segment by Rack Power Density

Below 30kW

30–80kW

80–150kW

Above 150kW

Market segment by Application

Military and Aerospace

Artificial Intelligence and Deep Learning

Virtualization and Hyper-Converged Infrastructure

Financial Industry and Quantitative Trading

Others

Major players covered

LiquidCool Solutions

Vertiv

IBM

Schneider Electric

CoolIT Systems

Delta Electronics

Huawei

Rittal

Supermicro

Inspur Information

Envicool

Sugon

Fusionx

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Liquid-Cooled Servers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Liquid-Cooled Servers, with price, sales quantity, revenue, and global market share of Liquid-Cooled Servers from 2021 to 2026.

Chapter 3, the Liquid-Cooled Servers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Liquid-Cooled Servers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Cooling Technology and by Application, with sales market share and growth rate by Cooling Technology, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Liquid-Cooled Servers market forecast, by regions, by Cooling Technology, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Liquid-Cooled Servers.

Chapter 14 and 15, to describe Liquid-Cooled Servers sales channel, distributors, customers, research findings and conclusion.

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