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Global Liquid-Cooled Servers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid-Cooled Servers market size is expected to reach $ 9545 million by 2032, rising at a market growth of 10.8% CAGR during the forecast period (2026-2032).

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

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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 studies the global Liquid-Cooled Servers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid-Cooled Servers and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Liquid-Cooled Servers that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Liquid-Cooled Servers total production and demand, 2021-2032, (Units)
Global Liquid-Cooled Servers total production value, 2021-2032, (USD Million)
Global Liquid-Cooled Servers production by region & country, production, value, CAGR,

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2021-2032, (USD Million) & (Units), (based on production site)
Global Liquid-Cooled Servers consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Liquid-Cooled Servers domestic production, consumption, key domestic manufacturers and share
Global Liquid-Cooled Servers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Liquid-Cooled Servers production by Cooling Technology, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Liquid-Cooled Servers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Liquid-Cooled Servers market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Liquid-Cooled Servers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (US$/Unit) by manufacturer, by Cooling Technology, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Liquid-Cooled Servers Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid-Cooled Servers Market, Segmentation by Cooling Technology:

Cold Plate Liquid Cooling

Immersion Liquid Cooling

Spray Liquid Cooling

Hybrid Liquid Cooling

Others

Global Liquid-Cooled Servers Market, Segmentation by Rack Power Density:

Below 30kW

30–80kW

80–150kW

Above 150kW

Global Liquid-Cooled Servers Market, Segmentation by Application:

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Military and Aerospace

Artificial Intelligence and Deep Learning

Virtualization and Hyper-Converged Infrastructure

Financial Industry and Quantitative Trading

Others

Companies Profiled:

LiquidCool Solutions

Vertiv

IBM

Schneider Electric

CoolIT Systems

Delta Electronics

Huawei

Rittal

Supermicro

Inspur Information

Envicool

Sugon

Fusionx

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Key Questions Answered:

1. How big is the global Liquid-Cooled Servers market?
2. What is the demand of the global Liquid-Cooled Servers market?
3. What is the year over year growth of the global Liquid-Cooled Servers market?
4. What is the production and production value of the global Liquid-Cooled Servers market?
5. Who are the key producers in the global Liquid-Cooled Servers market?
6. What are the growth factors driving the market demand?

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