

Global AI Server Liquid Cooling System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Server Liquid Cooling System market size is expected to reach \$ 8238 million by 2032, rising at a market growth of 18.2% CAGR during the forecast period (2026-2032).

In 2025, global AI Server Liquid Cooling System production reached approximately 42,759 units, with an average global market price of around US\$58,000 per unit.

The gross profit margin of major companies in the industry is between 22%-38%.

In 2025, the global production capacity of AI Server Liquid Cooling System was approximately 57,012 units.

AI Server Liquid Cooling System is a thermal management solution designed for high-density AI servers and accelerated computing clusters. It removes heat through liquid-based circulation instead of relying only on air cooling, helping maintain stable chip temperatures, improve power usage efficiency, and support higher rack density. The system typically includes cold plates, coolant distribution units, pumps, heat exchangers, manifolds, sensors, and control modules. It is increasingly used in data centers running GPUs and other high-performance processors where heat load, energy efficiency, and operating reliability are critical.

The industrial chain of AI Server Liquid Cooling System includes upstream materials and components such as cold plates, pumps, valves, connectors, manifolds, heat exchangers, coolant fluids, control sensors, and precision metal parts. The midstream consists of system design, thermal simulation, module integration, leak-proof assembly, software control, and testing. Downstream applications mainly include AI training

clusters, cloud data centers, edge computing nodes, and high-performance computing facilities. Related services such as installation, commissioning, maintenance, coolant replacement, monitoring, and energy optimization also form key parts of the value chain.

This report studies the global AI Server Liquid Cooling System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Server Liquid Cooling System 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 AI Server Liquid Cooling System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Server Liquid Cooling System total production and demand, 2021-2032, (Units)

Global AI Server Liquid Cooling System total production value, 2021-2032, (USD Million)

Global AI Server Liquid Cooling System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global AI Server Liquid Cooling System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: AI Server Liquid Cooling System domestic production, consumption, key domestic manufacturers and share

Global AI Server Liquid Cooling System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global AI Server Liquid Cooling System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global AI Server Liquid Cooling System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global AI Server Liquid Cooling System 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 Vertiv, Schneider Electric, LiquidStack, Submer, CoolIT Systems, Supermicro, Hewlett Packard Enterprise, Dell Technologies, Lenovo, Huawei, 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 AI Server Liquid Cooling System 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 Type, 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 AI Server Liquid Cooling System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Server Liquid Cooling System Market, Segmentation by Type:

Direct-to-Chip Liquid Cooling System

Immersion Liquid Cooling System

Rear Door Heat Exchanger Liquid Cooling System

Global AI Server Liquid Cooling System Market, Segmentation by Coolant Circulation Mode:

Single-Phase Liquid Cooling System

Two-Phase Liquid Cooling System

Hybrid Liquid Cooling System

Global AI Server Liquid Cooling System Market, Segmentation by Deployment Configuration:

Rack-Level Liquid Cooling System

Row-Level Liquid Cooling System

Data Center-Level Liquid Cooling System

Global AI Server Liquid Cooling System Market, Segmentation by Application:

AI Training Server

AI Inference Server

High-Density GPU Computing Server

Other

Companies Profiled:

Vertiv

Schneider Electric

LiquidStack

Submer

CoolIT Systems

Supermicro

Hewlett Packard Enterprise

Dell Technologies

Lenovo

Huawei

Inspur

GIGABYTE

ASUS

Fujitsu

NEC

Samsung Electronics

Key Questions Answered:

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

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