

Global AI Server Liquid Cooling System 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 AI Server Liquid Cooling System market size was valued at US\$ 2552 million in 2025 and is forecast to a readjusted size of US\$ 8238 million by 2032 with a CAGR of 18.2% during review period.

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 is a detailed and comprehensive analysis for global AI Server Liquid Cooling System market. Both quantitative and qualitative analyses are presented by manufacturers, 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.

Key Features:

Global AI Server Liquid Cooling System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global AI Server Liquid Cooling System 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 AI Server Liquid Cooling System

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 AI Server Liquid Cooling System 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 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.

Market Segmentation

AI Server Liquid Cooling System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

Direct-to-Chip Liquid Cooling System

Immersion Liquid Cooling System

Rear Door Heat Exchanger Liquid Cooling System

Market segment by Coolant Circulation Mode

Single-Phase Liquid Cooling System

Two-Phase Liquid Cooling System

Hybrid Liquid Cooling System

Market segment by Deployment Configuration

- Rack-Level Liquid Cooling System
- Row-Level Liquid Cooling System
- Data Center-Level Liquid Cooling System

Market segment by Application

- AI Training Server
- AI Inference Server
- High-Density GPU Computing Server
- Other

Major players covered

- Vertiv
- Schneider Electric
- LiquidStack
- Submer
- CoolIT Systems
- Supermicro
- Hewlett Packard Enterprise
- Dell Technologies
- Lenovo

Huawei

Inspur

GIGABYTE

ASUS

Fujitsu

NEC

Samsung Electronics

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 AI Server Liquid Cooling System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Server Liquid Cooling System, with price, sales quantity, revenue, and global market share of AI Server Liquid Cooling System from 2021 to 2026.

Chapter 3, the AI Server Liquid Cooling System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Server Liquid Cooling System 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 Type and by Application, with sales market share and growth rate by Type, 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 AI Server Liquid Cooling System market forecast, by regions, by Type, 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 AI Server Liquid Cooling System.

Chapter 14 and 15, to describe AI Server Liquid Cooling System sales channel, distributors, customers, research findings and conclusion.

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