

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

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Abstracts

The global AI Server Liquid Cooling Manifold market size is expected to reach \$ 3192 million by 2032, rising at a market growth of 23.1% CAGR during the forecast period (2026-2032).

In 2025, global AI Server Liquid Cooling Manifold production reached approximately 1.89 million units, with an average global market price of around USD 380 per unit.

The gross profit margin of major companies in the industry is between 24.76%-43.58%.

In 2025, the global production capacity of AI Server Liquid Cooling Manifold was approximately 2.49 million units.

AI Server Liquid Cooling Manifold is a fluid distribution component used in cold-plate liquid cooling systems for AI servers, GPU trays and high-density computing racks. It distributes coolant from the rack or chassis loop to multiple cold plates and collects return fluid after heat absorption. The product supports balanced flow, leak control, quick connection, pressure monitoring and maintainability in high-power server platforms. The market includes server-level and rack-level manifolds for AI liquid cooling, but excludes complete cooling distribution units, cold plates, pumps and general plumbing manifolds.

The industry chain includes stainless steel, copper, aluminum, engineering plastics, quick connectors, valves, seals, sensors, hoses, machining parts and leak detection components. Midstream production covers flow path design, precision machining, welding or brazing, sealing assembly, pressure testing, leak testing, cleanliness control and reliability validation. Downstream demand comes from AI servers, GPU clusters,

high-performance computing, cloud data centers and liquid-cooled rack integration. Growth is driven by GPU power density, direct-to-chip cooling adoption, AI training demand and data center energy efficiency requirements.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global AI Server Liquid Cooling Manifold 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 CoolIT Systems, Motivair, nVent, Shenzhen Envicool Technology Co., Ltd., Guangzhou Goaland Energy Conservation Tech Co., Ltd., Guangdong Shenling Environmental Systems Co., Ltd., Sanhe Tongfei Refrigeration Co., Ltd., Sugon Data Energy (Beijing) Co., Ltd., LINGYI iTECH (GUANGDONG) COMPANY, 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 Manifold market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Manifold Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Server-Level Manifolds

Rack-Level Manifolds

CDU Distribution Manifolds

Global AI Server Liquid Cooling Manifold Market, Segmentation by Material Type:

Stainless Steel Manifolds

Aluminum Alloy Manifolds

Engineering Plastic Manifolds

Global AI Server Liquid Cooling Manifold Market, Segmentation by Coolant Flow Rate:

Low Flow??20 L/min?

Medium Flow?20.1?80 L/min?

High Flow??80 L/min?

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

Direct-to-Chip Liquid Cooling

Cold Plate Coolant Distribution

Rack Liquid Cooling Retrofit

Other

Companies Profiled:

CoolIT Systems

Motivair

nVent

Shenzhen Envicool Technology Co., Ltd.

Guangzhou Goaland Energy Conservation Tech Co., Ltd.

Guangdong Shenling Environmental Systems Co., Ltd.

Sanhe Tongfei Refrigeration Co., Ltd.

Sugon Data Energy (Beijing) Co., Ltd.

LINGYI ITECH (GUANGDONG) COMPANY

Key Questions Answered:

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

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