

Global AI Server Liquid Cooling Manifold Market Growth 2026-2032

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Abstracts

The global AI Server Liquid Cooling Manifold market size is predicted to grow from US\$ 704 million in 2025 to US\$ 3254 million in 2032; it is expected to grow at a CAGR of 24.6% from 2026 to 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.

United States market for AI Server Liquid Cooling Manifold is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for AI Server Liquid Cooling Manifold is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for AI Server Liquid Cooling Manifold is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key AI Server Liquid Cooling Manifold players cover CoolIT Systems, Motivair, nVent, Shenzhen Envicool Technology Co., Ltd., Guangzhou Goaland Energy Conservation Tech Co., Ltd., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?AI Server Liquid Cooling Manifold Industry Forecast? looks at past sales and reviews total world AI Server Liquid Cooling Manifold sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Server Liquid Cooling Manifold sales for 2026 through 2032. With AI Server Liquid Cooling Manifold sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Server Liquid Cooling Manifold industry.

This Insight Report provides a comprehensive analysis of the global AI Server Liquid Cooling Manifold landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on AI Server Liquid Cooling Manifold portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Server Liquid Cooling Manifold market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Server Liquid Cooling Manifold and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

view of the current state and future trajectory in the global AI Server Liquid Cooling Manifold.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Server Liquid Cooling Manifold market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Server-Level Manifolds

Rack-Level Manifolds

CDU Distribution Manifolds

Segmentation by Material Type:

Stainless Steel Manifolds

Aluminum Alloy Manifolds

Engineering Plastic Manifolds

Segmentation by Coolant Flow Rate:

Low Flow??20 L/min?

Medium Flow?20.1?80 L/min?

High Flow??80 L/min?

Segmentation by Application:

Direct-to-Chip Liquid Cooling

Cold Plate Coolant Distribution

Rack Liquid Cooling Retrofit

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global AI Server Liquid Cooling Manifold market?

What factors are driving AI Server Liquid Cooling Manifold market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do AI Server Liquid Cooling Manifold market opportunities vary by end market size?

How does AI Server Liquid Cooling Manifold break out by Type, by Application?

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