

Global Liquid Cooling Manifolds Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Cooling Manifolds market size is expected to reach \$ 2025 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

A liquid cooling manifold is a fluid distribution and collection component used in liquid cooling systems. Through an internal multi-channel flow path design, it evenly distributes coolant from the main supply line to multiple heat dissipation units (such as cold plates, server nodes, battery modules, or power devices) and collects the heated coolant after heat exchange back into the main return line, thereby enabling centralized management and efficient circulation of the cooling medium. In 2025, global sales volume for liquid cooling manifolds reached 2.07 million units, with a production capacity of approximately 3 million units; the average selling price was \$550 per unit, and the average gross margin ranged from 30% to 40%.

The upstream segment of the industry chain primarily comprises suppliers of metal materials, engineering plastics, sealing materials, and auxiliary liquid cooling components. Metal materials such as aluminum alloys, stainless steel, and copper alloys are used to fabricate the main pressure-resistant flow channel structures, while sealing materials (including rubber O-rings, fluoroelastomers, and polymer seals) ensure leak-proof performance during long-term operation; auxiliary components include quick-connect couplings, valves, flow sensors, and temperature sensors. The midstream segment consists of liquid cooling manifold design and manufacturing enterprises responsible for flow channel design, precision machining, welding and assembly, surface treatment, leak testing, and system integration, connecting the main supply lines to multiple heat dissipation units to facilitate uniform coolant distribution and recovery. Downstream application areas primarily include AI data centers, high-performance computing (HPC), cloud computing servers, power batteries for new

energy vehicles, energy storage systems, power electronics, and industrial equipment.

The global development of the digital economy, the expansion of the artificial intelligence industry, and the construction of green data centers have created a favorable environment for the liquid cooling manifold industry. As investment in AI computing infrastructure rises, major global cloud computing companies continue to build high-density GPU data centers, driving demand for supporting equipment such as liquid-cooled servers, Coolant Distribution Units (CDUs), and liquid cooling manifolds. Meanwhile, countries are consistently implementing policies to reduce energy consumption in data centers and improve server heat dissipation and energy efficiency, thereby facilitating the gradual adoption of liquid cooling technology from the high-performance computing sector into commercial data centers. In China, initiatives such as the 'East Data, West Computing' project, the growth of the AI industry, and the development of green data centers have strengthened the liquid cooling infrastructure supply chain, fueling the rapid growth of domestic enterprises specializing in liquid cooling manifolds, cold plates, and thermal control equipment.

This report studies the global Liquid Cooling Manifolds production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Liquid Cooling Manifolds total production and demand, 2021-2032, (K Units)

Global Liquid Cooling Manifolds total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Liquid Cooling Manifolds 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 Tate, CoolIT Systems, Vertiv, nVent, Kres Power Systems, Motivair (Schneider Electric), Boyd Corporation, JetCool, Haiwu Technology, Envicool, 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 Cooling Manifolds 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 Liquid Cooling Manifolds Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Cooling Manifolds Market, Segmentation by Type:

Rack Manifold

Row Manifold

Others

Global Liquid Cooling Manifolds Market, Segmentation by Materials:

Aluminum Alloy Manifold

Stainless Steel Manifold

Engineering Plastic Manifold

Global Liquid Cooling Manifolds Market, Segmentation by Rated Flow Rate:

≤10 L/min

10-30 L/min

30-60 L/min

≥60 L/min

Global Liquid Cooling Manifolds Market, Segmentation by Application:

Data Centers

High-Performance Computing

Cloud Computing Centers

Others

Companies Profiled:

Tate

CoolIT Systems

Vertiv

nVent

Kres Power Systems

Motivair (Schneider Electric)

Boyd Corporation

JetCool

Haiwu Technology

Envicool

Gaolan Technology

Lingyi iTech

Xinlai High-Tech Materials

Key Questions Answered:

1. How big is the global Liquid Cooling Manifolds market?
2. What is the demand of the global Liquid Cooling Manifolds market?

3. What is the year over year growth of the global Liquid Cooling Manifolds market?
4. What is the production and production value of the global Liquid Cooling Manifolds market?
5. Who are the key producers in the global Liquid Cooling Manifolds market?
6. What are the growth factors driving the market demand?

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