

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

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Abstracts

The global Rack Manifolds for Liquid Cooling Systems market size is expected to reach \$ 2369 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

Rack Manifolds for Liquid Cooling Systems are coolant distribution and collection components installed inside or alongside server racks. They distribute low-temperature coolant from a CDU or main supply line to multiple servers, GPU nodes, CPU/GPU cold plates, or liquid cooling modules, and collect the heated return coolant back to the CDU or heat exchange system. They are typically used with quick disconnects, hoses, valves, sensors, and rack-level liquid cooling piping to enable balanced flow distribution, reduced pressure drop, fast maintenance, server hot-swapping, and modular deployment in AI server racks, HPC facilities, cloud data centers, and high-power-density data centers. In 2025, global Rack Manifolds for Liquid Cooling Systems production reached approximately 162 k units, with an average global market price of around 8000 USD/unit. The production capacity for Rack Manifolds for Liquid Cooling Systems in 2025 was approximately 200 k units. The typical gross profit margin for Rack Manifolds for Liquid Cooling Systems between 20% and 40%.

The rack manifolds for liquid cooling systems market is expanding rapidly as AI servers, GPU clusters, and high-density data centers accelerate the adoption of direct-to-chip liquid cooling and rack-level thermal management. Demand is driven by rising rack power density, the limitations of traditional air cooling, and the need for standardized, serviceable, and leak-resistant fluid distribution infrastructure. Key customers include hyperscale data centers, cloud service providers, colocation operators, HPC centers, and AI server OEMs. As liquid cooling moves from pilot projects to large-scale deployment, rack manifolds are becoming a key enabling component in the data center

liquid cooling supply chain.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Rack Manifolds for Liquid Cooling Systems 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, nVent, Tate, Kres Power Systems, CoolIT Systems, Boyd Corporation, Motivair, Parker, JetCool, Envicool Technology, 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 Rack Manifolds for Liquid Cooling Systems 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 Rack Manifolds for Liquid Cooling Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Rack Manifolds for Liquid Cooling Systems Market, Segmentation by Type:

Rack Manifold

Row Manifold

Server Manifold

CDU-side Manifold

Others

Global Rack Manifolds for Liquid Cooling Systems Market, Segmentation by Manifold Shape:

Quick Disconnect Manifold

Blind-mate Manifold

Threaded Manifold

Others

Global Rack Manifolds for Liquid Cooling Systems Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers / AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

Companies Profiled:

Vertiv

nVent

Tate

Kres Power Systems

CoolIT Systems

Boyd Corporation

Motivair

Parker

JetCool

Envicool Technology

Shenling Environmental Systems

Goaland Energy Conservation Tech

Chongqing Sulian Plastic

Kunshan Kinglai Hygienic Materials

Key Questions Answered:

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

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