

Global Rack-level Liquid Cooling System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Rack-level Liquid Cooling System market size is expected to reach \$ 23933 million by 2032, rising at a market growth of 18.3% CAGR during the forecast period (2026-2032).

A Rack-level Liquid Cooling System is a thermal management solution that treats an individual server rack as a self-contained cooling unit. It uses liquid as the heat transfer medium to remove heat from high-power-density components such as servers, CPUs, and GPUs. The coolant is delivered directly to or near the rack to achieve efficient heat dissipation. The system typically includes a coolant distribution unit (CDU), cold plates, piping, heat exchangers, pumps, and control systems, enabling higher cooling efficiency and reduced energy consumption in data centers. In 2025, global Rack-level Liquid Cooling System production reached approximately 389 K units, with an average global market price of around US\$ 18,500 per unit. Annual production capacity is 450 K units. Gross Profit Margin: 28%. The rack-level liquid cooling system industry chain is divided into upstream, midstream, and downstream segments. Upstream mainly includes raw materials and component suppliers such as high-performance metals, pumps, heat exchangers, and cooling plates. Midstream is dominated by manufacturers of coolant distribution units (CDUs) and integrated rack-level liquid cooling systems. Downstream consists of data centers, cloud service providers, and enterprise IT infrastructures that deploy these solutions to manage high-power-density computing environments efficiently. The industry is characterized by tight integration between component suppliers and system integrators, with technological innovation in heat transfer and fluid management driving competitive advantage. Rack-level liquid cooling systems are becoming increasingly essential as AI, HPC, and cloud workloads grow. Traditional air cooling is no longer sufficient for high-density racks, making liquid cooling the preferred solution for energy efficiency and performance. I see significant growth potential in this

market, particularly in China and North America, driven by expanding data center capacity and rising demand for sustainable cooling solutions. Companies that can innovate in compact, modular, and energy-efficient designs will likely capture the most value in the coming years.

This report studies the global Rack-level Liquid Cooling System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Rack-level Liquid Cooling System total production and demand, 2021-2032, (K Units)

Global Rack-level Liquid Cooling System total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Rack-level Liquid Cooling System domestic production, consumption, key domestic manufacturers and share

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

Global Rack-level Liquid Cooling System production by Cooling Method, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Rack-level Liquid Cooling System 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 Holdings Co, Schneider Electric SE, Stulz GmbH, Rittal GmbH & Co Kg, Delta Electronics Inc, Boyd Corporation, nVent Electric Plc, Motivair Corporation, Nortek Data Center Cooling, Fujitsu Limited, 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-level Liquid Cooling System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K US\$/Unit) by manufacturer, by Cooling Method, 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-level Liquid Cooling System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Rack-level Liquid Cooling System Market, Segmentation by Cooling Method:

Direct-to-Chip Liquid Cooling System

Immersion Cooling System

Rear Door Heat Exchanger (RDHx) Cooling System

Global Rack-level Liquid Cooling System Market, Segmentation by CDU Placement:

In-Rack CDU Liquid Cooling System

In-Row CDU Liquid Cooling System

Facility-level CDU Liquid Cooling System

Global Rack-level Liquid Cooling System Market, Segmentation by Coolant Type:

Water-based Liquid Cooling System

Glycol-based Liquid Cooling System

Dielectric Fluid Cooling System

Global Rack-level Liquid Cooling System Market, Segmentation by Application:

Data Center

HPC

Telecommunications

Healthcare

Others

Companies Profiled:

Vertiv Holdings Co

Schneider Electric SE

Stulz GmbH

Rittal GmbH & Co Kg

Delta Electronics Inc

Boyd Corporation

nVent Electric Plc

Motivair Corporation

Nortek Data Center Cooling

Fujitsu Limited

Inspur Electronic Information

Huawei Technologies

Lenovo Group

Sugon

H3C

LiquidStack Inc

Submer Technologies SL

CoolIT Systems Inc

Asetek Inc

Shenzhen Envicool Technology

Key Questions Answered:

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

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