

Global Full Liquid Cooling Plate System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Full Liquid Cooling Plate System market size was valued at US\$ 844 million in 2025 and is forecast to a readjusted size of US\$ 4871 million by 2032 with a CAGR of 27.9% during review period.

Full Liquid Cooling Plate Systems use cold plates and sealed liquid loops to cool CPUs, GPUs, memory, networking chips, power modules, and other major heat-generating components inside servers, allowing most or nearly all system heat to be removed by liquid. A complete system generally includes multi-component cold plates, internal server tubing, quick disconnects, rack manifolds, coolant distribution units, heat exchangers, filtration and refill devices, leak detection, and intelligent controls. Major applications include artificial intelligence, high-performance computing, cloud data centers, and scientific computing environments with extremely high power density. Key upstream inputs include copper or aluminum cold plates, microchannel components, pumps, valves, heat exchangers, sensors, quick disconnects, seals, and coolants, while major downstream customers include data center operators, cloud and AI computing providers, HPC and research institutions, and telecom and enterprise customers. On a standardized fully liquid-cooled rack-equivalent basis, global effective annual production capacity was approximately 5,600 systems in 2025, sales reached about 4,370 systems, the average ex-factory price was approximately USD 187,600 per system, and the estimated industry gross margin was approximately 27%-40%.

The global Full Liquid Cooling Plate System market is expanding from customized high-performance computing technology into AI infrastructure and high-density cloud data centers. As the power consumption of GPUs, AI accelerators, memory, and networking

components increases simultaneously, cooling only CPUs and GPUs is becoming insufficient for managing total rack heat. Full liquid cooling extends coverage to memory, power supplies, networking chips, and voltage regulation modules, significantly reducing residual air-cooling demand and enabling higher server and rack power density. Current adoption remains concentrated in large AI clusters, supercomputing centers, and leading cloud service providers, while deployment in conventional enterprise data centers remains limited.

Technology is shifting from localized processor cooling toward coordinated liquid cooling of multiple server components. Cooling coverage, component compatibility, and system-level flow control are becoming important performance indicators. As the number of cold plates inside each server increases, pressure drop, flow balance, material compatibility, and leakage prevention become more complex, encouraging integrated design across cold plates, manifolds, quick disconnects, coolant distribution units, and control software. Single-phase water-based cooling remains the dominant architecture, while pumped two-phase technology is gradually being validated for higher heat-flux applications. Future competition will move beyond individual cold plate performance toward end-to-end coordination from the server to the rack and facility.

Market growth is being driven by the expansion of AI training and inference clusters, rising rack power density, stricter data center energy-efficiency requirements, and increased investment in high-performance computing. Full-system liquid cooling can reduce demand for server fans and room-level air cooling, lower the space occupied by cooling equipment, and improve the feasibility of heat reuse. As server manufacturers integrate cold plates and liquid loops during product design and data centers install facility-water systems during construction, deployment and integration complexity is expected to decline. Further standardization of interfaces, coolant parameters, and monitoring protocols will also support the transition from customized projects to scalable delivery.

The industry still faces constraints related to high initial investment, differences among server platforms, changing maintenance procedures, and inconsistent technical standards. Compared with conventional cold plate cooling, full liquid cooling involves more cold plates, tubing, and connection points, placing higher requirements on leakage control, flow distribution, and online maintenance. Liquid cooling designs for power supplies, storage devices, and optical components are also not yet fully standardized. Existing data centers frequently lack facility-water networks, resulting in high retrofit costs and engineering complexity. Future expansion will depend on greater availability of fully liquid-cooled servers, standardized interfaces, proven long-term reliability, and

stronger lifecycle economics compared with conventional air cooling and partial liquid cooling alternatives.

This report is a detailed and comprehensive analysis for global Full Liquid Cooling Plate System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Full Liquid Cooling Plate System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Full Liquid Cooling Plate System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Full Liquid Cooling Plate System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Full Liquid Cooling Plate System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Full Liquid Cooling Plate System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Full Liquid Cooling Plate System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Lenovo, Supermicro, Hewlett Packard Enterprise, Dell Technologies, Eviden, Schneider Electric, Vertiv, CoolIT Systems, Eaton, nVent, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Full Liquid Cooling Plate System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Single-phase Cold Plate Cooling

- Pumped Two-phase Cold Plate Cooling

Market segment by System Configuration

- Server-level Systems

- Rack-level Systems

- Row-level Systems

- Other

Market segment by Cooling Capacity

- Below 100 kW

100?499 kW

500?999 kW

1 MW and Above

Market segment by Application

Data Center Operators

Cloud and AI Computing Providers

HPC and Research Institutions

Other

Major players covered

Lenovo

Supermicro

Hewlett Packard Enterprise

Dell Technologies

Eviden

Schneider Electric

Vertiv

CoolIT Systems

Eaton

nVent

Delta Electronics

Envicool

Inspur

Sugon Data Energy

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Full Liquid Cooling Plate System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Full Liquid Cooling Plate System, with price, sales quantity, revenue, and global market share of Full Liquid Cooling Plate System from 2021 to 2026.

Chapter 3, the Full Liquid Cooling Plate System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Full Liquid Cooling Plate System breakdown data are shown at the

regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Full Liquid Cooling Plate System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Full Liquid Cooling Plate System.

Chapter 14 and 15, to describe Full Liquid Cooling Plate System sales channel, distributors, customers, research findings and conclusion.

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