

Global Server Liquid Cold Plate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Server Liquid Cold Plate market size is expected to reach \$ 8664 million by 2032, rising at a market growth of 26.4% CAGR during the forecast period (2026-2032).

A server liquid cold plate is a plate-type heat exchanger installed inside a server, compute tray or network switching system. It forms direct thermal contact with CPUs, GPUs and other high-heat-generating electronic components and transfers the heat into a circulating coolant through sealed internal flow channels. Server liquid cold plates are also commonly referred to as direct-to-chip cold plates, processor cold plates or server water-cooling plates. A typical cold plate consists of a thermally conductive base, microchannels or other internal flow structures, a top cover, fluid connectors, mounting hardware and thermal interface materials. The coolant may be a water-based or water-glycol fluid in a single-phase system or a dielectric refrigerant in a two-phase system. Under the narrow scope of this report, the market includes only discrete cold plates installed inside servers or closely integrated IT equipment. It excludes coolant distribution units, rack manifolds, quick disconnects, tubing, pumps, rear-door heat exchangers, cooling towers, immersion tanks, and cold plates used in consumer electronics, automobiles, energy storage systems or industrial equipment. OCP defines cold-plate cooling as a direct liquid-cooling method in which liquid flowing through a cold-plate heat exchanger removes heat from IT components.

GPU cold plates and CPU cold plates currently constitute the core of the server liquid cold plate market. GPU cold plates are used for NVIDIA and AMD GPUs, custom AI accelerators, TPUs, NPUs and other high-power computing devices. Because a single AI server or compute tray may contain multiple accelerators, GPU cold plates represent the fastest-growing product category in terms of both unit shipments and revenue. CPU cold plates cover x86, Arm and other server processors and have a broader installed

base, although their average power rating and unit value are generally lower than those of leading-edge GPU cold plates. Additional product categories include cold plates for DDR DIMMs and CXL memory modules, NVSwitch and Ethernet or InfiniBand switch ASICs, voltage regulator modules, OSFP optical transceivers, FPGAs, DPUs, SmartNICs, SSDs, storage controllers and selected server power-conversion modules. OCP classifies systems cooling only CPUs and GPUs as Hybrid Basic, systems additionally cooling DIMMs as Hybrid Intermediate, and systems extending cold-plate cooling to other components as Hybrid Advanced. CoolIT has also commercialized cold plates for memory modules, OSFP transceivers and voltage regulators, confirming that these categories have progressed beyond the conceptual stage.

Copper and copper-based structures are the dominant materials for high-heat-flux GPU and CPU cold plates because of their high thermal conductivity and suitability for microchannel, skived-fin, pin-fin and complex flow-distribution designs. Aluminum alloys offer lower cost, lighter weight and favorable forming and brazing characteristics and are more frequently used in medium- or lower-heat-load products, large-area cold plates, covers, structural housings and weight-sensitive applications. Stainless steel is generally used for tubing, connectors, fasteners and wetted components requiring stronger corrosion resistance rather than as the primary chip-contact surface. Other critical materials include nickel plating, brazing alloys, solders, elastomer seals, hoses and thermal interface materials. Principal manufacturing processes include CNC machining, skiving, stamping, extrusion, vacuum brazing, controlled-atmosphere brazing, diffusion bonding, welding and soldering. Cold-plate design is therefore not simply a matter of maximizing thermal conductivity; it requires optimization among thermal resistance, coolant flow, pressure drop, weight, cost, manufacturability and long-term sealing reliability. OCP qualification guidance emphasizes that the base, cover, connectors and all other wetted materials must remain compatible with the coolant, because galvanic corrosion, particulate generation, channel blockage and seal degradation can materially impair reliability.

AI training and inference servers are the principal growth engines for server liquid cold plates, while high-performance computing, cloud infrastructure and high-density network equipment provide a stable underlying demand base. Conventional air cooling remains adequate for many low- and medium-power general-purpose servers. However, as the power and heat flux of GPUs, AI ASICs and high-end CPUs increase, and as rack power density moves from conventional single-digit or low double-digit kilowatt levels toward 100 kW and above, air cooling becomes increasingly constrained by heat-sink volume, airflow requirements, acoustic limits and fan power consumption. Direct-to-chip liquid cooling has therefore been adopted first in AI clusters, supercomputers, research

HPC systems, hyperscale cloud infrastructure and high-end enterprise computing. Its application is now extending from compute processors to NVSwitch devices, Ethernet and InfiniBand switch ASICs, optical modules, memory and voltage regulation systems, transforming liquid cooling from a discrete processor-cooling component into an integrated server- and rack-level thermal-management architecture. Delta, for example, has introduced cold-plate loops for current NVIDIA GPU and CPU platforms and has integrated them with rack-level CDUs for high-density AI systems.

The global server liquid cold plate market comprises four broad groups: specialist liquid-cooling companies, established thermal-module manufacturers, integrated data-center infrastructure suppliers and emerging Chinese vendors. Specialist suppliers include Eaton's Boyd Thermal, CoolIT Systems, Motivair, JetCool, Mikros Technologies and Advanced Cooling Technologies, whose competitive advantages generally lie in fluid mechanics, microchannel design, cold-plate-loop integration, qualification experience and relationships with global server OEMs and cloud service providers. Major suppliers from Taiwan include AVC, Auras Technology, Delta Electronics, Cooler Master, Jentech Precision, TaiSol Electronics, Forcecon Technology and SUNON, which benefit from proximity to the global server ODM ecosystem and strong capabilities in precision manufacturing and volume customization. Chinese mainland participants include Envicool, AVIC Jonhon Optron Technology, FRD, Cotran New Material, Bihe Electric and Shenglan Technology, supported by domestic AI-server investment and localization of the liquid-cooling supply chain. Based on the preceding market model, the five largest suppliers are estimated to account for approximately 61% of global revenue and 58% of shipment volume in 2026, indicating moderate concentration but not a fully consolidated oligopoly. Industry consolidation is accelerating: Eaton completed its acquisition of Boyd Thermal in March 2026, while Ecolab completed its acquisition of CoolIT Systems in July 2026. These transactions demonstrate that competition is shifting from individual cold plates toward integrated capabilities spanning power delivery, cooling hardware, water management, rack integration and lifecycle services.

The locations of final demand and manufacturing capacity differ materially. North America is the largest end-demand market, while Taiwan and mainland China are among the most important manufacturing and server-ODM supply bases. Under the regional model developed above, North America is estimated to account for approximately 51% of global server liquid cold plate shipments in 2026, driven by hyperscale cloud providers, AI model developers and large-scale GPU cluster deployments in the United States. Mainland China is estimated to represent approximately 23% of global shipments in 2026, with its share potentially increasing to around 26.5% by 2032 as domestic AI accelerators, internet platforms,

telecommunications operators and national computing infrastructure expand. Europe is supported by sovereign AI, research HPC, industrial computing and energy-efficient data-center investment. Japan and South Korea are smaller in absolute volume but maintain strong requirements for reliability and customized thermal solutions. Southeast Asia is expected to record particularly rapid growth as Singapore, Malaysia, Indonesia and other markets attract additional hyperscale data-center capacity. The IEA projects that the United States and China will account for nearly 80% of the increase in global data-center electricity consumption through 2030, with consumption rising by approximately 130% in the United States and 170% in China compared with 2024.

The server liquid cold plate industry has moved from low-volume, highly customized HPC applications into the volume-production phase for AI servers, with 2024-2026 representing a major inflection period. Revenue growth is expected to outpace shipment growth because of increasing contributions from high-power GPU cold plates, NVSwitch cold plates, multi-chip integrated designs and complete cold-plate loops. Nevertheless, large-scale adoption remains constrained by leakage risks, channel contamination, pressure-drop management, coolant compatibility, rapid platform changes and extensive reliability qualification. Customer evaluation criteria are consequently expanding from thermal resistance alone to include lifetime leakage performance, pressure integrity, serviceability, cleanliness and system-level energy efficiency. OCP documentation similarly treats thermal performance, flow impedance, hydrostatic pressure resistance, coolant compatibility and long-term reliability as core qualification requirements.

The industry is expected to evolve along four primary paths: higher cooling capacity, greater liquid heat capture, increasing standardization and deeper system integration. First, continued growth in AI-chip power and heat flux will require cold plates capable of removing several kilowatts from a single device or package. CoolIT demonstrated a 15 kW single-phase cold-plate design in June 2026, following its earlier 4 kW platform, indicating that single-phase direct liquid cooling still has considerable performance headroom. Second, cooling coverage will expand beyond GPUs and CPUs to DIMMs, VRMs, switch ASICs, optical transceivers, storage devices and power modules, allowing systems to progress from partial liquid heat capture toward near-complete liquid cooling. Third, cold plates will gradually transition from highly customized components toward standardized interfaces, test procedures, material-compatibility requirements and multi-vendor ecosystems; the OCP Cold Plate Sub-Project explicitly identifies standardization and an open direct-liquid-cooling ecosystem as its central objectives. Fourth, suppliers will deepen cooperation with chip designers, server OEMs and ODMs, CDU manufacturers and data-center operators, shifting industry value from

isolated component manufacturing toward loop design, rack integration, commissioning and global lifecycle support. The principal structural drivers are the continued expansion of AI training and inference, rising processor TDP and heat flux, higher rack power density, constraints on data-center power and floor space, efforts to reduce fan and mechanical-cooling energy consumption, and the adoption of warm-water cooling and lower-PUE infrastructure.

This report studies the global Server Liquid Cold Plate production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Server Liquid Cold Plate total production and demand, 2021-2032, (K Pcs)

Global Server Liquid Cold Plate total production value, 2021-2032, (USD Million)

Global Server Liquid Cold Plate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Server Liquid Cold Plate consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Server Liquid Cold Plate domestic production, consumption, key domestic manufacturers and share

Global Server Liquid Cold Plate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Server Liquid Cold Plate production by Material, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Server Liquid Cold Plate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Server Liquid Cold Plate 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 AVC, Auras Technology, Cooler Master, Forcecon Technology, KENMEC MECHANICAL ENGINEERING, Sunon, Delta Electronics, Inc, TaiSol Electronics, Ecolab (CoolIT Systems), Eaton (Boyd Thermal),

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 Server Liquid Cold Plate market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Material, 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 Server Liquid Cold Plate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Server Liquid Cold Plate Market, Segmentation by Material:

Copper Cold Plate

Copper+Aluminum Cold Plate

Others

Global Server Liquid Cold Plate Market, Segmentation by Heat Transfer Mechanism:

Single-Phase Cold Plate

Two-Phase Cold Plate

Global Server Liquid Cold Plate Market, Segmentation by Server Type:

AI Liquid Cooling Server

General-Purpose Liquid Cooling Server

Global Server Liquid Cold Plate Market, Segmentation by Application:

GPU Cold Plate

CPU Cold Plate

ASIC Cold Plate

DIMM Cold Plate

Others

Companies Profiled:

AVC

Auras Technology

Cooler Master

Forcecon Technology

KENMEC MECHANICAL ENGINEERING

Sunon

Delta Electronics, Inc

TaiSol Electronics

Ecolab (CoolIT Systems)

Eaton (Boyd Thermal)

JetCool Technologies Inc

Chillydyne

Motivair Corporation

Advanced Cooling Technologies, Inc. (ACT)

United Precision Technologies Co., Ltd. (UPT)

DCX Liquid Cooling Systems

Mikros Technologies

Fröre Systems

Alloy Enterprises

Jentech Precision Industrial

Advanced Thermal Solutions, Inc. (ATS)

ZutaCore

Nidec

Shenzhen Cotran New Material

Shenzhen FRD

Shenzhen Envicool Technology

JONHON OPTRONIC TECHNOLOGY

Shenglan Technology

BEEHE TECHNOLOGY

Vekooler Technology

Haite Xinke New Materials Technology

General Connectivity System

Key Questions Answered:

1. How big is the global Server Liquid Cold Plate market?
2. What is the demand of the global Server Liquid Cold Plate market?
3. What is the year over year growth of the global Server Liquid Cold Plate market?
4. What is the production and production value of the global Server Liquid Cold Plate market?
5. Who are the key producers in the global Server Liquid Cold Plate market?
6. What are the growth factors driving the market demand?

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