

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Zero-Evaporation Water Closed-Loop Liquid Cooling System market size is expected to reach \$ 7765 million by 2032, rising at a market growth of 25.2% CAGR during the forecast period (2026-2032).

A zero-evaporation closed-loop water liquid cooling system is a single-phase water/glycol closed-loop liquid cooling system for high-density servers, GPU clusters, and AI computing centers. It typically consists of cold plates, manifolds, CDU/TMU, pump sets, heat exchangers, dry coolers or air-to-liquid heat exchange units, piping, quick connectors, fluid replenishment, and monitoring systems. The product's gross margin is approximately 34%.

The core demand driver is the rising power density of AI training, inference clusters, and HPC data centers. When rack power reaches tens of kilowatts to hundreds of kilowatts, traditional air cooling is constrained by airflow, noise, energy consumption, and data center space. Closed-loop water liquid cooling can remove heat directly from chips or racks and reduce on-site evaporative water replenishment through air-to-liquid heat exchange, dry coolers, or high-temperature water loops. In water-scarce regions, areas with stricter permitting, and new AI computing center projects, zero-evaporation design is shifting from an optional energy-saving solution to a basic design condition.

On the supply side, the market is jointly driven by data center infrastructure vendors, specialized liquid cooling companies, server OEMs, and Chinese temperature-control equipment manufacturers. European and U.S. companies are stronger in CDU, thermal management control, cold plates, and full-system delivery experience, while Chinese companies are building rapid engineering capabilities through AI computing center

construction, telecom operators, and internet customers. Future procurement will focus more on total cooling capacity, liquid-to-air or liquid-to-liquid heat exchange paths, redundancy level, leak detection, water quality control, quick connector compatibility, and adaptation to OCP/rack standards.

Short-term constraints mainly include initial investment, difficulty of on-site retrofitting, non-unified cold plate interfaces across different servers, and insufficient operations and maintenance experience. As GPU platforms adopt liquid cooling at a higher rate, CDU and rack-level closed-loop systems will move from project-based delivery toward standardization, and prices will gradually decline. However, high-reliability pumps, heat exchangers, control systems, and engineering delivery will continue to retain high value, and market growth is expected to remain at a high level.

This report studies the global Zero-Evaporation Water Closed-Loop Liquid Cooling System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Zero-Evaporation Water Closed-Loop 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 Zero-Evaporation Water Closed-Loop Liquid Cooling System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System total production and demand, 2021-2032, (Units)

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System total production value, 2021-2032, (USD Million)

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Zero-Evaporation Water Closed-Loop Liquid Cooling System domestic production, consumption, key domestic manufacturers and share

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System production by

Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Zero-Evaporation Water Closed-Loop Liquid Cooling System production by
Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Zero-Evaporation Water Closed-Loop 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, Schneider Electric, CoolIT Systems, Boyd, Delta Electronics, Rittal, STULZ, nVent, Supermicro, Huawei Digital Power, 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 Zero-Evaporation Water Closed-Loop Liquid Cooling System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Zero-Evaporation Water Closed-Loop Liquid Cooling System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System Market,
Segmentation by Type:

Direct-to-Chip Loop

Rear-Door Heat Exchanger Loop

Cold Plate Plus Rear Door Loop

Liquid-Cooled Rack Loop

Other

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System Market,
Segmentation by Heat Rejection Architecture:

Liquid-to-Air CDU

Liquid-to-Liquid CDU

Dry Cooler Loop

Hybrid Air-Liquid Loop

Other

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System Market,
Segmentation by Deployment Scope:

Server-Level System

Rack-Level System

Row-Level System

Room-Level System

Facility-Level System

Other

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System Market,
Segmentation by Cooling Capacity:

Below 100 kW

100-500 kW

500 kW-1 MW

Above 1 MW

Other

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System Market,
Segmentation by Application:

AI Training Data Centers

High-Performance Computing Centers

Hyperscale Cloud Data Centers

Colocation Data Centers

Telecom Edge Data Centers

Enterprise Private Data Centers

Industrial Computing Rooms

Companies Profiled:

Vertiv

Schneider Electric

CoolIT Systems

Boyd

Delta Electronics

Rittal

STULZ

nVent

Supermicro

Huawei Digital Power

Envicool

Lenovo

Hewlett Packard Enterprise

Johnson Controls

Nidec

Modine

Chilidyne

ThermalWorks

Asetek

IEIT Systems

Key Questions Answered:

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

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