

Global Zero-Evaporation Water Closed-Loop Liquid Cooling 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 Zero-Evaporation Water Closed-Loop Liquid Cooling System market size was valued at US\$ 1564 million in 2025 and is forecast to a readjusted size of US\$ 7765 million by 2032 with a CAGR of 25.2% during review period.

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 is a detailed and comprehensive analysis for global Zero-Evaporation Water Closed-Loop Liquid Cooling 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 Zero-Evaporation Water Closed-Loop Liquid Cooling System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global Zero-Evaporation Water Closed-Loop Liquid Cooling System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP

(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 Zero-Evaporation Water Closed-Loop Liquid Cooling 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 Zero-Evaporation Water Closed-Loop Liquid Cooling 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 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.

Market Segmentation

Zero-Evaporation Water Closed-Loop Liquid Cooling 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

Direct-to-Chip Loop

Rear-Door Heat Exchanger Loop

Cold Plate Plus Rear Door Loop

Liquid-Cooled Rack Loop

Other

Market segment by Heat Rejection Architecture

Liquid-to-Air CDU

Liquid-to-Liquid CDU

Dry Cooler Loop

Hybrid Air-Liquid Loop

Other

Market segment by Deployment Scope

Server-Level System

Rack-Level System

Row-Level System

Room-Level System

Facility-Level System

Other

Market segment by Cooling Capacity

Below 100 kW

100-500 kW

500 kW-1 MW

Above 1 MW

Other

Market segment 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

Major players covered

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

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 Zero-Evaporation Water Closed-Loop Liquid Cooling System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Zero-Evaporation Water Closed-Loop Liquid Cooling System, with price, sales quantity, revenue, and global market share of Zero-Evaporation Water Closed-Loop Liquid Cooling System from 2021 to 2026.

Chapter 3, the Zero-Evaporation Water Closed-Loop Liquid Cooling System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Zero-Evaporation Water Closed-Loop Liquid Cooling 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 Zero-Evaporation Water Closed-Loop Liquid Cooling 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 Zero-Evaporation Water Closed-Loop Liquid Cooling System.

Chapter 14 and 15, to describe Zero-Evaporation Water Closed-Loop Liquid

Cooling System sales channel, distributors, customers, research findings and conclusion.

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