

Global Single-Phase Server Immersion Liquid Cooling System Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GF3C061940ABEN.html>

Date: July 2026

Pages: 153

Price: US\$ 4,480.00 (Single User License)

ID: GF3C061940ABEN

Abstracts

The global Single-Phase Server Immersion Liquid Cooling System market size is expected to reach \$ 2313 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

A single-phase server immersion liquid cooling system is a high-density data center thermal management solution in which servers, GPU nodes, AI training servers, or high-density computing equipment are submerged in an insulating coolant that remains in a liquid state during operation. Heat generated by chips, memory, power supplies, and circuit boards is removed through liquid circulation, heat exchangers, Coolant Distribution Units (CDUs), filtration systems, sensors, and intelligent control systems. These systems are suitable for AI computing centers, cloud data centers, supercomputing centers, financial data centers, telecommunications facilities, and edge computing nodes. In 2025, global sales of single-phase server immersion liquid cooling systems are projected to reach approximately 9,650 units, with an average unit price of around \$128,000; the industry's average capacity utilization rate is estimated at 73.2%, and the gross profit margin at 33.6%. Upstream enterprises operate in sectors such as hydrocarbon coolants, silicone coolants, fluorinated fluids, heat exchangers, pumps and valves, filters, sensors, sheet metal structural components, sealing materials, controllers, electrical components, server structural adaptation, and data center engineering design. Downstream enterprises include cloud service providers, AI computing operators, internet data centers, supercomputing centers, financial institutions, telecommunications operators, research institutes, server OEMs, and liquid-cooled data center integrators. The product cost structure is broken down as follows: coolant (approx. 22%), immersion tanks and cabinet structures (approx. 19%), CDUs and heat exchangers (approx. 21%), pumps, valves, filters, and piping (approx. 10%),

sensors, control systems, and software (approx. 7%), engineering design and on-site installation (approx. 8%), manufacturing labor (approx. 5%), testing, certification, and quality control (approx. 3%), and packaging, logistics, and after-sales O&M (approx. 5%). The product portfolio includes single-phase immersion cooling systems for AI servers and GPU clusters, modular immersion tanks, integrated immersion liquid cooling systems, single-phase coolants, CDUs, low-PUE facility retrofit solutions, high-density cabinet liquid cooling systems, and liquid cooling O&M monitoring systems. Downstream customers include cloud service providers, internet platforms, AI large-model computing centers, IDC operators, supercomputing centers, telecommunications operators, financial data centers, server OEMs, research institutions, and government computing platforms. In terms of business opportunities, policy drivers include the construction of green data centers, energy conservation and consumption reduction, investment in computing infrastructure, the development of low-carbon parks, and data center energy efficiency assessments. Technological innovation is driven by advancements such as highly stable coolants, optimized material compatibility, low-energy circulation pumps, intelligent temperature control, modular delivery, waste heat recovery, and server liquid-cooling structural adaptations. Meanwhile, shifting consumer demands are reflected in the growing need for lower PUE, higher rack power density, faster deployment, reduced noise levels, lower maintenance complexity, and reduced lifecycle energy costs.

This report studies the global Single-Phase Server Immersion Liquid Cooling System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Single-Phase Server Immersion Liquid Cooling System total production and demand, 2021-2032, (K Units)

Global Single-Phase Server Immersion Liquid Cooling System total production value, 2021-2032, (USD Million)

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

Global Single-Phase Server Immersion Liquid Cooling System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Single-Phase Server Immersion Liquid Cooling System domestic production, consumption, key domestic manufacturers and share

Global Single-Phase Server Immersion Liquid Cooling System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Single-Phase Server Immersion Liquid Cooling System production by Coolant, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Single-Phase Server Immersion Liquid Cooling System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Single-Phase Server Immersion 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 Fujitsu (JP), Supermicro (US), Mitsubishi Heavy Industries (JP), Delta Electronics (TW), Araner (ES), AMAX (US), DCX (PL), Baltimore Aircoil Company (US), FCN (TW), CoolBitts (US), 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 Single-Phase Server Immersion 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 (US\$/Unit) by manufacturer, by Coolant, 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 Single-Phase Server Immersion Liquid Cooling System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-Phase Server Immersion Liquid Cooling System Market, Segmentation by Coolant:

Hydrocarbons

Organosilicon Compounds

Fluorinated Liquids

Others

Global Single-Phase Server Immersion Liquid Cooling System Market, Segmentation by System Design:

Modular Immersion Liquid Cooling System

Integrated Immersion Liquid Cooling System

Global Single-Phase Server Immersion Liquid Cooling System Market, Segmentation by PUE:

≥1.05

?1.1

?1.2

Others

Global Single-Phase Server Immersion Liquid Cooling System Market, Segmentation by Application:

Rack Type

Tower Type

Multi-node/ORV Type

Other

Companies Profiled:

Fujitsu (JP)

Supermicro (US)

Mitsubishi Heavy Industries (JP)

Delta Electronics (TW)

Araner (ES)

AMAX (US)

DCX (PL)

Baltimore Aircoil Company (US)

FCN (TW)

CoolBitts (US)

DUG (AU)

UL Solutions (US)

Aspsys (US)

Nortek Data Center Cooling (US)

Ingrasys (TW)

Asperitas (NL)

PEZY Computing (JP)

Envicool (CN)

Key Questions Answered:

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

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