

Global AI Data Center Liquid Cooling Quick Disconnects Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Data Center Liquid Cooling Quick Disconnects market size is expected to reach \$ 754 million by 2032, rising at a market growth of 16.5% CAGR during the forecast period (2026-2032).

In 2025, global sales of quick-connect couplings for AI data center liquid cooling are projected to reach approximately 6,000,000 units, with an average price of around \$42 per unit.

These quick-connect couplings (UQDs) serve as pluggable, low-leakage connectors linking GPU server cold plates, rack manifolds, CDUs, and facility water circuits; they require high flow rates, low pressure drops, drip control, corrosion resistance, and blind-mating or hot-swapping capabilities. They are critical components for ensuring the stable operation of high-density computing in AI data centers, enabling rapid, drip-free hot-swapping under pressure while maintaining system integrity and continuous coolant circulation. The industry is currently accelerating the adoption of universal interchangeability standards to reduce O&M costs and system integration complexities.

Upstream components include stainless steel, engineering plastics, seals, and precision-machined parts, while downstream applications encompass liquid-cooled servers, CDUs/manifolds, HPC/cloud data centers, and system integrators.

This report studies the global AI Data Center Liquid Cooling Quick Disconnects production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Data

Center Liquid Cooling Quick Disconnects 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 AI Data Center Liquid Cooling Quick Disconnects that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Data Center Liquid Cooling Quick Disconnects total production and demand, 2021-2032, (K Units)

Global AI Data Center Liquid Cooling Quick Disconnects total production value, 2021-2032, (USD Million)

Global AI Data Center Liquid Cooling Quick Disconnects production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AI Data Center Liquid Cooling Quick Disconnects consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AI Data Center Liquid Cooling Quick Disconnects domestic production, consumption, key domestic manufacturers and share

Global AI Data Center Liquid Cooling Quick Disconnects production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AI Data Center Liquid Cooling Quick Disconnects production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AI Data Center Liquid Cooling Quick Disconnects production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AI Data Center Liquid Cooling Quick Disconnects 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 CPC (Dover) (US), St?ubli (CH), Parker Hannifin (US), CEJN (SE), Danfoss (DK), Eaton (IE), SMC Corporation (JP), Fujikin (JP), Sanhua Holding Group (CN), LOTES (TW), 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 AI Data Center Liquid Cooling Quick Disconnects 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 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 AI Data Center Liquid Cooling Quick Disconnects Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Data Center Liquid Cooling Quick Disconnects Market, Segmentation by Type:

Metal Quick Disconnects

Polymer Quick Disconnects

Hybrid Metal-Polymer Quick Disconnects

Blind-Mate Couplings

Global AI Data Center Liquid Cooling Quick Disconnects Market, Segmentation by

Technical Parameters:

DN3-DN5 / ?2 L/min

DN6-DN10 / 2-8 L/min

DN12-DN19 / 8-20 L/min

DN20+ / ?20 L/min

Global AI Data Center Liquid Cooling Quick Disconnects Market, Segmentation by Functional Category:

Rack Manifold Interface

Cold Plate/Server Interface

CDU/Pump Interface

Facility Loop Interface

Global AI Data Center Liquid Cooling Quick Disconnects Market, Segmentation by Application:

AI GPU Servers

HPC Clusters

Cloud Data Centers

Edge AI Data Centers

Liquid Cooling Retrofit

Companies Profiled:

CPC (Dover) (US)

St?ubli (CH)

Parker Hannifin (US)

CEJN (SE)

Danfoss (DK)

Eaton (IE)

SMC Corporation (JP)

Fujikin (JP)

Sanhua Holding Group (CN)

LOTES (TW)

T&S Communications (CN)

Koolance (US)

Key Questions Answered:

1. How big is the global AI Data Center Liquid Cooling Quick Disconnects market?
2. What is the demand of the global AI Data Center Liquid Cooling Quick Disconnects market?
3. What is the year over year growth of the global AI Data Center Liquid Cooling Quick Disconnects market?
4. What is the production and production value of the global AI Data Center Liquid Cooling Quick Disconnects market?
5. Who are the key producers in the global AI Data Center Liquid Cooling Quick Disconnects market?
6. What are the growth factors driving the market demand?

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