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Global Liquid Cooling QD Couplings Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Cooling QD Couplings market size is expected to reach $ 2551 million by 2032, rising at a market growth of 19.0% CAGR during the forecast period (2026-2032).

In 2025, global Liquid Cooling QD Couplings production reached approximately 30,000 thousand units, with an average global market price of around USD 24 per unit.

The gross profit margin of major companies in the industry was approximately 32%–52%.

In 2025, global production capacity was approximately 40,000 thousand units.

Liquid Cooling QD Couplings are self-sealing fluid connectors that enable rapid connection and disconnection of liquid-cooling loops with minimal leakage and air ingress. They are used in servers, battery systems, industrial equipment, and power electronics. The scope excludes ordinary pipe fittings, pneumatic couplings, non-sealing connectors, hoses, manifolds, pumps, valves sold separately, and complete cooling systems.

The industrial chain includes upstream stainless steel, brass, engineering plastics, seals, springs, valves, and precision-machined components. Midstream covers coupling design, machining, molding, assembly, surface treatment, leakage testing, and pressure validation. Downstream applications include AI servers, data centers, battery energy storage, electric vehicles, power electronics, medical equipment, industrial lasers, and automated machinery.

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Report Scope

This report studies the global Liquid Cooling QD Couplings production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Liquid Cooling QD Couplings total production and demand, 2021-2032, (K Units)

Global Liquid Cooling QD Couplings total production value, 2021-2032, (USD Million)

Global Liquid Cooling QD Couplings production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Liquid Cooling QD Couplings consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Liquid Cooling QD Couplings domestic production, consumption, key domestic manufacturers and share

Global Liquid Cooling QD Couplings production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Liquid Cooling QD Couplings production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Liquid Cooling QD Couplings production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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This report profiles key players in the global Liquid Cooling QD Couplings 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 Colder Products Company, Stäubli International AG, Danfoss A/S, Parker-Hannifin Corporation, CEJN AB, Lüdecke GmbH, Eaton Corporation plc, Koolance, Inc., Nitto Kohki Co., Ltd., Fujikin Incorporated, 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 Liquid Cooling QD Couplings 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 Liquid Cooling QD Couplings Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Market Segmentation

Global Liquid Cooling QD Couplings Market, Segmentation by Type:

Single Shut-off Couplings

Double Shut-off Couplings

Non-valved Couplings

Global Liquid Cooling QD Couplings Market, Segmentation by Body Material:

Stainless Steel Couplings

Brass Couplings

Engineering Polymer Couplings

Global Liquid Cooling QD Couplings Market, Segmentation by Nominal Diameter:

Small-bore(?6 mm)

Medium-bore(>6–12 mm)

Large-bore(>12 mm)

Global Liquid Cooling QD Couplings Market, Segmentation by Application:

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Rack-Level Cooling Connections

Server-Level Cooling Connections

Cooling Distribution Unit Connections

Other

Companies Profiled:

Colder Products Company

Stäubli International AG

Danfoss A/S

Parker-Hannifin Corporation

CEJN AB

Lüdecke GmbH

Eaton Corporation plc

Koolance, Inc.

Nitto Kohki Co., Ltd.

Fujikin Incorporated

SMC Corporation

AVIC Jonhon Optronic Technology Co., Ltd.

Zhejiang Songqiao Pneumatic Hydraulic Co., Ltd.

Dongguan Handa Precision Fluid Technology Co., Ltd.

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Key Questions Answered

1. How big is the global Liquid Cooling QD Couplings market?
2. What is the demand of the global Liquid Cooling QD Couplings market?
3. What is the year over year growth of the global Liquid Cooling QD Couplings market?
4. What is the total value of the global Liquid Cooling QD Couplings market?
5. Who are the Major Players in the global Liquid Cooling QD Couplings market?
6. What are the growth factors driving the market demand?

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