

# Global Data Center Heat Exchanger Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Data Center Heat Exchanger market size is expected to reach \$ 6481 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

A data center heat exchanger is a critical thermal management device used to transfer heat between different cooling media or cooling loops within a data center. Its primary function is to remove heat generated by servers, storage systems, networking equipment, and high-density computing racks and transfer it to facility-side chilled water, cooling water, air, refrigerant, or other heat-rejection media without directly mixing the hot and cold fluids. Common product types include plate heat exchangers, rear-door heat exchangers, finned-tube heat exchangers, microchannel heat exchangers, and liquid-to-liquid heat exchanger modules integrated into coolant distribution units (CDUs). These products are used in conventional air-cooling, direct-to-chip liquid-cooling, immersion-cooling, and hybrid-cooling systems and generally require high thermal efficiency, low pressure drop, corrosion resistance, reliable sealing, and long-term operational stability. In 2025, global Data Center Heat Exchanger production reached approximately 124 k units, with an average global market price of around 28412 USD/unit. The production capacity for Data Center Heat Exchanger in 2025 was approximately 150 k units. The typical gross profit margin for Data Center Heat Exchanger between 20% and 40%.

The data center heat exchanger market is primarily driven by the rapid expansion of cloud computing, artificial intelligence, high-performance computing, hyperscale data centers, and edge infrastructure. As the power density of AI servers and high-performance computing racks continues to increase, conventional room-level air-cooling systems are becoming less capable of handling high heat loads, accelerating the

adoption of direct-to-chip liquid cooling, rear-door heat exchangers, liquid-to-liquid CDUs, and immersion-cooling solutions. Market participants include specialized heat exchanger manufacturers as well as suppliers of data center cooling equipment, racks, liquid-cooling systems, and power infrastructure. Future competition is expected to focus on thermal efficiency, compact design, coolant compatibility, leakage monitoring, system redundancy, modular deployment, and integration with data center energy management platforms. Growing demand for low-PUE facilities and data center waste-heat recovery is also expected to create additional opportunities for advanced heat exchanger technologies.

This report studies the global Data Center Heat Exchanger production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Heat Exchanger 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 Data Center Heat Exchanger that contribute to its increasing demand across many markets.

#### Highlights and key features of the study

Global Data Center Heat Exchanger total production and demand, 2021-2032, (K Units)

Global Data Center Heat Exchanger total production value, 2021-2032, (USD Million)

Global Data Center Heat Exchanger production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Data Center Heat Exchanger consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Data Center Heat Exchanger domestic production, consumption, key domestic manufacturers and share

Global Data Center Heat Exchanger production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Data Center Heat Exchanger production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Data Center Heat Exchanger production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Data Center Heat Exchanger 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 Alfa Laval, Kelvion, Danfoss, SWEP, Tranter, API Heat Transfer, thermowave, KAORI Heat Treatment, SPX FLOW, Xylem, 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 Data Center Heat Exchanger 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 Data Center Heat Exchanger Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Heat Exchanger Market, Segmentation by Type:

Air-to-Air Heat Exchangers

Liquid-to-Liquid Heat Exchangers

Liquid-to-Air Heat Exchangers

Refrigerant-based Heat Exchangers

#### Global Data Center Heat Exchanger Market, Segmentation by Product Structure:

Plate Heat Exchangers

Shell-and-Tube Heat Exchangers

Finned-Tube Heat Exchangers

Microchannel Heat Exchangers

Others

#### Global Data Center Heat Exchanger Market, Segmentation by Application:

Enterprise Data Centers

Cloud & Hyperscale Data Centers

Edge Data Centers

Others

#### Companies Profiled:

Alfa Laval

Kelvion

Danfoss

SWEP

Tranter

API Heat Transfer

thermowave

KAORI Heat Treatment

SPX FLOW

Xylem

Vertiv

Schneider Electric

Rittal

STULZ

Modine Manufacturing Company

CoolIT Systems

Munters Group

Eaton Corporation

nVent Electric

Delta Electronics

Envicool

Key Questions Answered:

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

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