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Global Plate Heat Exchanger for Data Center 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 Plate Heat Exchanger for Data Center market size was valued at US$ 2271 million in 2025 and is forecast to a readjusted size of US$ 4095 million by 2032 with a CAGR of 8.9% during review period.

Data center plate heat exchangers are high-efficiency heat exchange devices composed of multiple stacked thin metal plates. They utilize the flow channels between the plates to exchange heat between hot and cold fluids, featuring high heat transfer efficiency, compact structure, and convenient maintenance. They are commonly used in liquid-cooled data centers for heat transfer between chilled water systems and circulating coolant. In 2025, approximately 108,000 data center plate heat exchangers were sold, with an average unit price of approximately US$19,000. A typical single production line has an annual capacity of approximately 5,000 units, depending on plate size, level of automation, and customer customization rate. Upstream companies mainly include suppliers of stainless steel and titanium alloy plates, manufacturers of gasket materials, brazing material manufacturers, and manufacturers of pumps, valves, and welding equipment for liquid cooling systems. Downstream companies encompass data center system integrators, cooling system engineers, server liquid cooling solution providers, IDC operators, and modular data center manufacturers. Product gross profit margins typically range from 22% to 30%, depending on process complexity and customization rate. In the product cost structure, raw material costs account for approximately 45%, manufacturing and welding processes for approximately 30%, assembly, testing, and quality inspection for approximately 15%, and transportation and installation costs for approximately 10%. Based on parameters, heat exchangers can be categorized into three types: low-pressure brazed plate heat exchangers (for chilled water systems), medium-pressure detachable plate heat exchangers (suitable for hybrid

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liquid-cooled and water-cooled systems), and high-pressure semi-welded plate heat exchangers (suitable for high-density cabinet liquid-cooled circulation). On the demand side, the downstream demand list includes ultra-large cloud data centers, high-performance computing centers (HPC), artificial intelligence training clusters, financial and government data centers, edge data nodes, and industrial internet data centers. These scenarios have extremely high requirements for heat exchange efficiency, volume, and energy consumption control. The downstream customer list includes ultra-large cloud vendors, internet companies, data center construction and operation and maintenance providers, liquid cooling solution providers, and communication infrastructure construction companies. The business opportunities are mainly driven by three factors: First, policy-driven factors, with global carbon neutrality and energy conservation and emission reduction policies promoting the adoption of high-efficiency cooling technologies in data centers, giving plate heat exchangers, as a core component of the cooling cycle, a structural replacement opportunity; second, technological innovation-driven factors, with brazing and semi-welding technologies improving heat exchange efficiency, and cryogenic liquid cooling and microchannel technology broadening the application scope of heat exchangers; and third, upgrading consumer and industry demands, with the rapid increase in the heat load of AI computing power, GPU clusters, and high-density servers requiring a shift in cooling systems from air cooling to liquid cooling, thereby driving the continuous increase in the penetration rate of plate heat exchangers in newly built and renovated data centers, and in the future, it will become one of the core standard components in high-efficiency and energy-saving cooling systems.

The data center plate heat exchanger market is being driven by three forces: computing power upgrades, energy conservation and emission reduction, and liquid cooling penetration. On the one hand, the rapid increase in high heat flux density loads such as cloud computing, artificial intelligence, and high-performance computing makes it difficult for traditional air-cooled systems to balance energy efficiency and reliability. This has prompted more and more newly built and renovated data centers to adopt composite cooling architectures that integrate water cooling, liquid cooling, and even cooling towers. Plate heat exchangers play a core role in isolating heat and cold sources, efficiently transferring energy, and ensuring system security. On the other hand, increasingly stringent regulations on data center energy efficiency and carbon emissions in various countries are pushing operators and internet companies to shift from simply 'piling up equipment' to refined energy management. High-efficiency, low-temperature-difference, and compact plate heat exchangers have become an important tool for improving the PUE performance of the entire cooling system. In the industry chain, traditional industrial heat exchanger manufacturers are entering the data center

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market, while liquid cooling solution providers and data center general contractors are deeply embedding plate heat exchangers into their complete solutions through cooperation or self-development. Competition is gradually shifting from the price of individual equipment to a comprehensive comparison of system performance, engineering support capabilities, and delivery cycle. As rack power gradually increases, the proportion of liquid cooling continues to rise, and modular and prefabricated data centers develop rapidly, dedicated data center plate heat exchangers that meet the needs of high reliability, high corrosion resistance, high heat exchange efficiency, and easy maintenance will continue to gain incremental space in new projects and renovations of old data centers. The products will also iterate towards higher integration, more intelligent monitoring, and better suitability for liquid cooling scenarios.

This report is a detailed and comprehensive analysis for global Plate Heat Exchanger for Data Center 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 Plate Heat Exchanger for Data Center market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Plate Heat Exchanger for Data Center market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Plate Heat Exchanger for Data Center market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Plate Heat Exchanger for Data Center market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Plate Heat Exchanger for Data Center

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 Plate Heat Exchanger for Data Center 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 Alfa Laval (SE), Armstrong (CA), Danfoss (DK), Hofmann (DE), Tranter (US), Nexson Group (FR), Belimo (CH), KAORI (TW), Hoval (LI), Kelvion (DE), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Plate Heat Exchanger for Data Center 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

Gasketed Plate Heat Exchanger

Welded Plate Heat Exchanger

Others

Market segment by Number of Pressure

?150 psi

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150-250 psi

250-400 psi

?400 psi

Market segment by Flow Form

Single-Pass Plate Heat Exchanger

Multi-Pass Plate Heat Exchanger

Market segment by Application

Air-Cooled Server

Liquid-Cooled Server

Major players covered

Alfa Laval (SE)

Armstrong (CA)

Danfoss (DK)

Hofmann (DE)

Tranter (US)

Nexson Group (FR)

Belimo (CH)

KAORI (TW)

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Hoval (LI)

Kelvion (DE)

Heatex (SE)

Paul Mueller (US)

Recuperator (IT)

Unitedmetal (US)

Davhex (IT)

Zhejiang Sanhua Intelligent Controls (CN)

Zhejiang Extek Technology (CN)

Wuxi Fangsheng Heat Exchanger (CN)

Shanghai Accessen (CN)

SWEP Technology (Suzhou) (CN)

Shanghai TOSUN Technology (CN)

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

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Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Plate Heat Exchanger for Data Center product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Plate Heat Exchanger for Data Center, with price, sales quantity, revenue, and global market share of Plate Heat Exchanger for Data Center from 2021 to 2026.

Chapter 3, the Plate Heat Exchanger for Data Center competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Plate Heat Exchanger for Data Center 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 Plate Heat Exchanger for Data Center 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 Plate Heat Exchanger for Data Center.

Chapter 14 and 15, to describe Plate Heat Exchanger for Data Center sales channel, distributors, customers, research findings and conclusion.

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3 COMPETITIVE ENVIRONMENT: PLATE HEAT EXCHANGER FOR DATA CENTER BY MANUFACTURER

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