

Plate and Frame Heat Exchanger Market to Expand, Forecasted to Reach USD 10.13 Billion by 2032

Rising industrial demand, energy efficiency needs, and technological advancements are driving growth in the Plate and Frame Heat Exchanger Market.

AUSTIN, TX, UNITED STATES, February 21, 2025 /EINPresswire.com/ -- The SNS Insider report indicates that the [Plate and Frame Heat Exchanger Market](#) Size was esteemed at USD 5.90 billion in 2023 and is supposed to arrive at USD 10.13 billion by 2032 with a growing CAGR of 6.19% over the forecast period 2024-2032.

The increasing emphasis on energy conservation and the adoption of sustainable heat exchange technologies across industrial sectors are driving significant growth in the Plate and Frame Heat Exchanger Market. With industries striving to optimize thermal management and reduce carbon footprints, these heat exchangers are witnessing high demand across various applications, including HVAC, power generation, chemical processing, and food & beverages.

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Key Players:

- Alfa Laval (Gasketed Plate Heat Exchangers, Braze Plate Heat Exchangers, Welded Plate Heat Exchangers)
- Danfoss (Micro Plate Heat Exchangers, Braze Plate Heat Exchangers)
- Kelvion Holding GmbH (Gasketed Plate Heat Exchangers, Fully Welded Plate Heat Exchangers)
- SPX Flow (Gasketed Plate Heat Exchangers, Braze Plate Heat Exchangers)
- XYLEM (Heat Exchanger Plates, Braze Plate Heat Exchangers)
- API Heat Transfer (Plate & Frame Heat Exchangers, Evaporators, Condensers)
- Guntner (UK) LTD. (Compact Plate Heat Exchangers, Customized Heat Exchangers)
- Boyd Corporation (Liquid Cold Plates, Thermal Management Solutions)

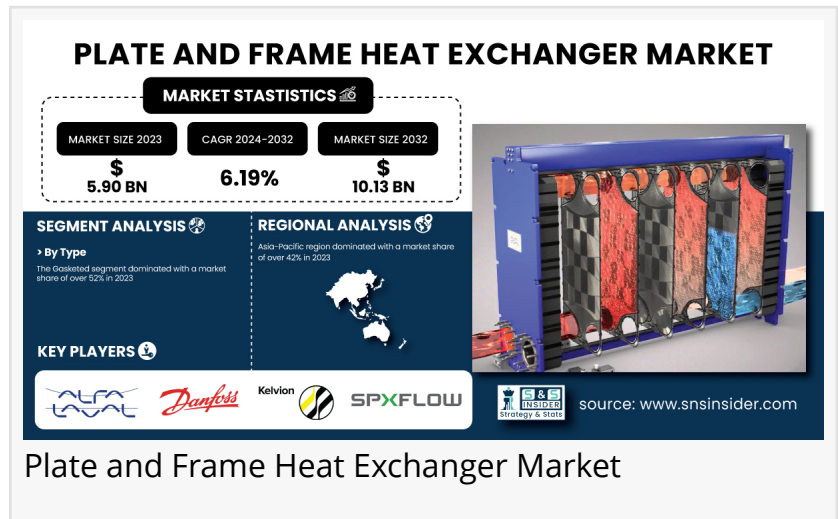


Plate and Frame Heat Exchanger Market

- Johnson Controls (Gasketed Plate Heat Exchangers, Energy-Efficient Solutions)
- Wabtec Corporation (Industrial Heat Exchangers, Plate-Fin Heat Exchangers)
- SWEP (Brazed Plate Heat Exchangers, High-Efficiency Heat Exchangers)
- Tranter (Gasketed Plate Heat Exchangers, Welded Plate Heat Exchangers)
- Hisaka Works Ltd. (Gasketed Plate Heat Exchangers, Free-Flow Plate Heat Exchangers)
- Dover Corporation (Brazed Plate Heat Exchangers, Industrial Heat Transfer Solutions)
- Chart Industries (Plate-Fin Heat Exchangers, Welded Plate Heat Exchangers)
- Mueller Industries (Brazed Plate Heat Exchangers, Industrial Cooling Solutions)
- Kaori Heat Treatment Co. Ltd. (Compact Brazed Plate Heat Exchangers, High-Pressure Heat Exchangers)
- Sondex (Gasketed Plate Heat Exchangers, Semi-Welded Plate Heat Exchangers)
- Funke Wärmeaustauscher Apparatebau GmbH (Gasketed Plate Heat Exchangers, Fully Welded Heat Exchangers)
- Brazetek (Brazed Plate Heat Exchangers, Residential & Commercial Heat Exchangers)

Gasketed Segment Leads by Type, While HVAC & Refrigeration Drives Application Growth in the Plate and Frame Heat Exchanger Market

By Type: The Gasketed segment dominated with a market share of over 52% in 2023, driven by its efficiency, flexibility, and ease of maintenance. They are highly preferred for high-temperature high-pressure applications that ensure secure sealing. Their modular design facilitates quick swapping out and cleaning, leading to less downtime for industrial applications. Moreover, an increasing need for energy-efficient solutions across sectors, including chemicals, power, and food & beverages, has also contributed to their rising adoption.

By Application: The HVAC & Refrigeration segment dominated with a market share of over 32% in 2023, primarily due to increasing demand for efficient heating and cooling systems. The growing population in cities, along with infrastructure and commercial construction development, has raised the demand for advanced HVAC solutions. In addition, regulations regarding energy efficiency and environmental sustainability have created a need for high-performance heat exchangers in refrigeration applications. The Market is also fostered by highly reliant HVAC and refrigeration systems in industries like food storage, pharmaceuticals, and data centers.

Asia-Pacific Leads the Plate and Frame Heat Exchanger Market Amid Rapid Industrialization and Energy Efficiency Initiatives

Asia-Pacific dominated with a market share of over 42% in 2023, driven by rapid industrialization and expanding infrastructure development. The anticipated need for energy efficiency in the region coupled with stringent regulations is expected to support the growth of heat exchangers in several industries including chemical processing, HVAC, food & beverages, and power generation. New players such as China, India, and Japan have emerged as significant players who are increasing their investments in industrial manufacturing and renewable energy projects. Furthermore, growing urbanization and technological improvement in heat exchange systems

have enhanced their efficiency and performance, being the pillar of the supremacy of the region.

North America is experiencing rapid growth in the Plate and Frame Heat Exchanger Market, driven by advancements in heat exchange technology and increasing demand for energy-efficient solutions. The burgeoning trend is mainly propelled by the region being a global hub for chemical processing, power generation, and HVAC applications. Advancements in heat transfer systems that are cost-effective and sustainable from market players to lower operational costs and carbon emissions are fostering growth in the industry. Government regulations fostering energy efficiency and environmental sustainability, and other factors are also driving growth in the market. Increasing use of renewable energy sources and industrial automation are also fuelling demand for high-end heat exchangers.

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Recent Developments

- In January 2024: Alfa Laval launched the TS45, touted as the world's most modern gasket plate heat exchanger. This model incorporates innovative features such as the OmegaPort design, which increases thermal efficiency by expanding the thermal surface area, and FlexFlow technology, which optimizes thermal performance by reducing fouling. The TS45 is designed to enhance operational efficiency while promoting sustainability by minimizing energy consumption and reducing carbon emissions across various applications.

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