

Global Heat Exchanger for Hydrogen Station Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Heat Exchanger for Hydrogen Station market size was valued at USD 19 million in 2023 and is forecast to a readjusted size of USD 2361.2 million by 2030 with a CAGR of 98.6% during review period.

In order for FCVs to achieve the cruising range of conventional gasoline vehicles, 'hydrogen storage tank' in the limited space is filled with a sufficient amount of hydrogen. In order to complete the hydrogen filling of the FCV within 3 minutes, the supply pressure at the time of hydrogen filling must be 82MPa.

During hydrogen filling, the temperature of the FCV's hydrogen storage tank rises. In order to prevent accidents such as damage to the tank, the upper limit of the hydrogen temperature in the tank is 85°, so heat exchanger is needed in hydrogen station.

The key manufacturers of heat exchanger for Heat Exchanger for Hydrogen Station in the world are Alfa Laval, Kelvin, Sumitomo Precision products, WELCON, ORION Machinery, Kobe Steel, VPE THERMAL, Lanzhou LS Heavy and Advanced Cooling Technologies, among which the top five manufacturers hold more than 60% of the market share, and the largest manufacturer is Alfa Laval. The production of heat exchangers for heat exchanger for hydrogen station in the world is mainly distributed in the United States, Europe, China, Japan and other regions, among which the top three regions account for nearly 80% of the market share. At present, Japan is the largest production region, accounting for about 40% of the market share, followed by China and Europe. In terms of products, Plate Heat Exchanger and Tube Heat Exchanger are expected to achieve a high growth rate. At present, plate heat exchangers account for

95% of the market share. In terms of application, 70MPa hydrogen station is the first major application field, with a market share of more than 90%, followed by 35MPa hydrogen station.

The Global Info Research report includes an overview of the development of the Heat Exchanger for Hydrogen Station industry chain, the market status of 35MPa Hydrogen Station (Plate Heat Exchanger, Tube Heat Exchanger), 70MPa Hydrogen Station (Plate Heat Exchanger, Tube Heat Exchanger), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Heat Exchanger for Hydrogen Station.

Regionally, the report analyzes the Heat Exchanger for Hydrogen Station markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Heat Exchanger for Hydrogen Station market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Heat Exchanger for Hydrogen Station market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Heat Exchanger for Hydrogen Station industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Plate Heat Exchanger, Tube Heat Exchanger).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Heat Exchanger for Hydrogen Station market.

Regional Analysis: The report involves examining the Heat Exchanger for Hydrogen Station market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Heat Exchanger for Hydrogen Station market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Heat Exchanger for Hydrogen Station:

Company Analysis: Report covers individual Heat Exchanger for Hydrogen Station manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Heat Exchanger for Hydrogen Station. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (35MPa Hydrogen Station, 70MPa Hydrogen Station).

Technology Analysis: Report covers specific technologies relevant to Heat Exchanger for Hydrogen Station. It assesses the current state, advancements, and potential future developments in Heat Exchanger for Hydrogen Station areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Heat Exchanger for Hydrogen Station market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Heat Exchanger for Hydrogen Station market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Plate Heat Exchanger

Tube Heat Exchanger

Market segment by Application

35MPa Hydrogen Station

70MPa Hydrogen Station

Major players covered

Alfa Laval

Kelvion

Sumitomo Precision products

WELCON

ORION Machinery

Kobe Steel

VPE THERMAL

Lanzhou LS Heavy

Advanced Cooling Technologies

Sterling Thermal Technology

Hangzhou Shenshi

Mydax

SureHydrogen

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 Middle East & Africa)

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

Chapter 1, to describe Heat Exchanger for Hydrogen Station product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Heat Exchanger for Hydrogen Station, with price, sales, revenue and global market share of Heat Exchanger for Hydrogen Station from 2019 to 2024.

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

Chapter 4, the Heat Exchanger for Hydrogen Station breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Heat Exchanger for Hydrogen Station market forecast, by regions, type and

application, with sales and revenue, from 2025 to 2030.

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 Heat Exchanger for Hydrogen Station.

Chapter 14 and 15, to describe Heat Exchanger for Hydrogen Station sales channel, distributors, customers, research findings and conclusion.

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