

Global Hydrogen Recovery and Purification Equipment 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 Hydrogen Recovery and Purification Equipment market size was valued at US\$ 610 million in 2025 and is forecast to a readjusted size of US\$ 909 million by 2032 with a CAGR of 5.6% during review period.

Hydrogen Recovery and Purification Equipment refers to integrated systems used to separate, purify, and recover hydrogen from hydrogen-containing mixed gases, industrial off-gases, process recycle streams, or by-product gas streams. These systems typically use technologies such as pressure swing adsorption, membrane separation, palladium membrane separation, cryogenic separation, or catalytic deoxygenation to remove impurities including nitrogen, carbon monoxide, carbon dioxide, methane, moisture, oxygen, and sulfur compounds, producing hydrogen that meets the requirements of process reuse, fuel cells, chemical synthesis, or high-purity gas applications. The equipment is widely used in refining, petrochemicals, coal chemicals, chlor-alkali, electronic specialty gases, metallurgy, ammonia and methanol production, and new energy industries. In 2025, global Hydrogen Recovery and Purification Equipment production reached approximately 2611 Units, with an average global market price of around 227 k USD/Unit. The production capacity for Hydrogen Recovery and Purification Equipment in 2025 was approximately 2800 Units. The typical gross profit margin for Hydrogen Recovery and Purification Equipment between 20% and 40%.

The Hydrogen Recovery and Purification Equipment market is driven by industrial energy efficiency, hydrogen resource recycling, low-carbon production, and growing demand for high-purity hydrogen. In refining and chemical industries, companies

recover hydrogen from off-gases and by-product streams to reduce fresh hydrogen production costs and improve process efficiency. In electronics, fuel cells, and new energy applications, stricter requirements for hydrogen purity and stable gas supply are supporting the upgrade of purification systems. With the development of industrial decarbonization, the hydrogen economy, and green chemical production, hydrogen recovery and purification equipment is moving toward modular design, automation, higher purity, and lower energy consumption. Future competition will focus on separation efficiency, hydrogen recovery rate, purity stability, operating cost, and system integration capability.

This report is a detailed and comprehensive analysis for global Hydrogen Recovery and Purification Equipment 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 Hydrogen Recovery and Purification Equipment market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Hydrogen Recovery and Purification Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Hydrogen Recovery and Purification Equipment market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Hydrogen Recovery and Purification Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Hydrogen Recovery and Purification Equipment

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 Hydrogen Recovery and Purification Equipment 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 Linde Engineering, Air Liquide, Chart Industries, Air Products, GenH2 Discover Hydrogen, Plug Power, Kawasaki Heavy Industries, Iwatani, Hylsum Industries, Sumitomo Seika Chemicals, etc.

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

Market Segmentation

Hydrogen Recovery and Purification Equipment 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

Cryogenic Hydrogen

Pressure Swing Adsorption (PSA)

Membrane Separation

Market segment by Processing Capacity

Large Industrial Grade

Medium Regional Grade

Small Laboratory Grade

Market segment by Equipment Form

Stationary Type

Mobile Type

Market segment by Application

Hydrogen Storage and Transportation

Mobility and Refueling

Aerospace

Industrial Gas and Chemical Industry

Others

Major players covered

Linde Engineering

Air Liquide

Chart Industries

Air Products

GenH2 Discover Hydrogen

Plug Power

Kawasaki Heavy Industries

Iwatani

Hylium Industries

Sumitomo Seika Chemicals

Zhongke Fuhai Technology

Jiangsu Guofu Hydrogen Energy Equipment

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 Hydrogen Recovery and Purification Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydrogen Recovery and Purification Equipment, with price, sales quantity, revenue, and global market share of Hydrogen Recovery and Purification Equipment from 2021 to 2026.

Chapter 3, the Hydrogen Recovery and Purification Equipment competitive

situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrogen Recovery and Purification Equipment 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 Hydrogen Recovery and Purification Equipment 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 Hydrogen Recovery and Purification Equipment.

Chapter 14 and 15, to describe Hydrogen Recovery and Purification Equipment sales channel, distributors, customers, research findings and conclusion.

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