

Global Hydrogen Recovery and Purification Equipment Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hydrogen Recovery and Purification Equipment market size is expected to reach \$ 909 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

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 studies the global Hydrogen Recovery and Purification Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogen Recovery and Purification Equipment 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 Hydrogen Recovery and Purification Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydrogen Recovery and Purification Equipment total production and demand, 2021-2032, (Units)

Global Hydrogen Recovery and Purification Equipment total production value, 2021-2032, (USD Million)

Global Hydrogen Recovery and Purification Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Hydrogen Recovery and Purification Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Hydrogen Recovery and Purification Equipment domestic production, consumption, key domestic manufacturers and share

Global Hydrogen Recovery and Purification Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Hydrogen Recovery and Purification Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Hydrogen Recovery and Purification Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Hydrogen Recovery and Purification

Equipment 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hydrogen Recovery and Purification Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Hydrogen Recovery and Purification Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogen Recovery and Purification Equipment Market, Segmentation by Type:

Cryogenic Hydrogen

Pressure Swing Adsorption (PSA)

Membrane Separation

Global Hydrogen Recovery and Purification Equipment Market, Segmentation by Processing Capacity:

Large Industrial Grade

Medium Regional Grade

Small Laboratory Grade

Global Hydrogen Recovery and Purification Equipment Market, Segmentation by Equipment Form:

Stationary Type

Mobile Type

Global Hydrogen Recovery and Purification Equipment Market, Segmentation by Application:

Hydrogen Storage and Transportation

Mobility and Refueling

Aerospace

Industrial Gas and Chemical Industry

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Hydrogen Recovery and Purification Equipment market?
2. What is the demand of the global Hydrogen Recovery and Purification Equipment market?
3. What is the year over year growth of the global Hydrogen Recovery and Purification Equipment market?
4. What is the production and production value of the global Hydrogen Recovery and Purification Equipment market?
5. Who are the key producers in the global Hydrogen Recovery and Purification Equipment market?

6. What are the growth factors driving the market demand?

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