

Global Helium Recovery and Purification Device Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Helium Recovery and Purification Device market size is expected to reach \$ 1110 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

A Helium Recovery and Purification Device is a specialized system used to collect, compress, purify, and recycle helium gas, reducing helium losses during industrial production, laboratory testing, or cryogenic applications. The system typically consists of recovery pipelines, buffer tanks, compressors, filters, dehydration and oil-removal units, adsorption purification modules, membrane separation or cryogenic purification units, gas analyzers, and automatic control systems. It removes impurities such as air, nitrogen, oxygen, moisture, oil vapor, and other contaminants, allowing recovered helium to be reused at industrial-grade or high-purity standards. It is widely used in semiconductor manufacturing, optical fiber production, MRI/NMR systems, cryogenic refrigeration, research laboratories, aerospace, leak detection, and balloon or airship filling. In 2025, global Helium Recovery and Purification Device production reached approximately 2158 Units, with an average global market price of around 326 k USD/Unit. The production capacity for Helium Recovery and Purification Device in 2025 was approximately 2500 Units. The typical gross profit margin for Helium Recovery and Purification Device between 20% and 40%.

The Helium Recovery and Purification Device market is mainly driven by the scarcity of global helium resources, helium price volatility, rising demand for high-purity helium, and increasing requirements for energy saving and emission reduction. As helium is widely used in high-end applications such as semiconductors, medical imaging, cryogenic research, aerospace, and leak detection, end users are placing greater emphasis on helium recovery and reuse. In particular, semiconductor wafer

manufacturing, optical fiber drawing, MRI/NMR cryogenic systems, and large-scale research facilities consume significant amounts of helium, making recovery and purification systems important for reducing long-term operating costs. In the future, the market is expected to grow steadily, supported by high-purity gas supply security, green manufacturing initiatives, and the automation of laboratory cryogenic systems, although high initial investment, strong customization requirements, and demanding maintenance remain key barriers to adoption.

This report studies the global Helium Recovery and Purification Device production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Helium Recovery and Purification Device total production and demand, 2021-2032, (Units)

Global Helium Recovery and Purification Device total production value, 2021-2032, (USD Million)

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

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

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

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

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

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

This report profiles key players in the global Helium Recovery and Purification Device 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, Bluefors, Quantum Technology, Quantum Design, Taiyo Nippon Sanso, UNISOKU, Zhongke Fuhai Technology, CSSC Pengli (Nanjing) Technology, 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 Helium Recovery and Purification Device 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 Helium Recovery and Purification Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Helium Recovery and Purification Device Market, Segmentation by Type:

Cryogenic Distillation

Pressure Swing Adsorption (PSA)

Membrane Separation

Global Helium Recovery and Purification Device Market, Segmentation by Processing Capacity:

Laboratory Grade

Industrial Grade

Global Helium Recovery and Purification Device Market, Segmentation by Equipment Form:

Stationary Type

Mobile Type

Global Helium Recovery and Purification Device Market, Segmentation by Application:

Medical Imaging

Semiconductor Manufacturing

Scientific Research & Cryogenic Laboratories

Quantum Computing & Superconducting Technology

Others

Companies Profiled:

Linde Engineering

Air Liquide

Chart Industries

Bluefors

Quantum Technology

Quantum Design

Taiyo Nippon Sanso

UNISOKU

Zhongke Fuhai Technology

CSSC Pengli (Nanjing) Technology

Key Questions Answered:

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

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