

Global Helium Recovery Liquefaction System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Helium Recovery Liquefaction System market size is expected to reach \$ 1126 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

A Helium Recovery Liquefaction System is a cryogenic engineering system designed to collect, purify, compress, and reliquefy helium gas for reuse. It is mainly used in helium-intensive applications such as MRI, NMR, quantum computing, cryogenic laboratories, semiconductor manufacturing, superconducting magnets, and research accelerators. The system typically consists of helium collection units, buffer gas tanks, compressors, purifiers, cryocoolers, liquefaction cold boxes, liquid helium storage tanks, and control systems. By converting helium boil-off gas or process exhaust gas back into reusable liquid helium or high-purity helium gas, the system helps reduce helium purchasing costs, mitigate supply disruption risks, and improve the operational stability of critical cryogenic equipment. In 2025, global Helium Recovery Liquefaction System production reached approximately 2158 Units, with an average global market price of around 326 k USD/Unit. The production capacity for Helium Recovery Liquefaction System in 2025 was approximately 2500 Units. The typical gross profit margin for Helium Recovery Liquefaction System between 20% and 40%.

The Helium Recovery Liquefaction System market is driven by global helium supply constraints, liquid helium price volatility, the expansion of semiconductor and quantum computing industries, and the need for cost reduction in research institutes and medical imaging centers. Since helium is mainly produced as a by-product of natural gas processing, its supply is highly concentrated and vulnerable to geopolitical risks, LNG project disruptions, and logistics constraints; recent supply disruptions linked to Qatar highlighted the fragility of the global helium supply chain and triggered sharp price

increases. Against this backdrop, hospitals with MRI systems, NMR laboratories, cryogenic research centers, semiconductor fabs, and superconducting equipment users are increasingly investing in closed-loop helium recovery and on-site reliquefaction solutions. Going forward, the market is expected to grow steadily, supported by high-end scientific research, healthcare, semiconductor manufacturing, and quantum technology applications, while high upfront investment, complex cryogenic engineering, and demanding maintenance requirements may continue to limit adoption among smaller users.

This report studies the global Helium Recovery Liquefaction System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Helium Recovery Liquefaction System total production and demand, 2021-2032, (Units)

Global Helium Recovery Liquefaction System total production value, 2021-2032, (USD Million)

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

Global Helium Recovery Liquefaction System consumption by region & country, CAGR, 2021-2032 & (Units)

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

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

Global Helium Recovery Liquefaction System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Helium Recovery Liquefaction System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Helium Recovery Liquefaction System 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 Liquefaction System 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 Liquefaction System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Helium Recovery Liquefaction System Market, Segmentation by Type:

Cryogenic Distillation

Pressure Swing Adsorption (PSA)

Membrane Separation

Global Helium Recovery Liquefaction System Market, Segmentation by System Scale:

Laboratory Grade

Industrial Grade

Global Helium Recovery Liquefaction System Market, Segmentation by System Configuration:

Open-Loop Helium Recovery Liquefaction System

Closed-Loop Helium Recovery Liquefaction System

Global Helium Recovery Liquefaction System 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 Liquefaction System market?
2. What is the demand of the global Helium Recovery Liquefaction System market?
3. What is the year over year growth of the global Helium Recovery Liquefaction System market?
4. What is the production and production value of the global Helium Recovery Liquefaction System market?
5. Who are the key producers in the global Helium Recovery Liquefaction System market?
6. What are the growth factors driving the market demand?

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