

Global Helium Recovery Liquefaction System Market Growth 2026-2032

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Abstracts

The global Helium Recovery Liquefaction System market size is predicted to grow from US\$ 688 million in 2025 to US\$ 1094 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Helium Recovery Liquefaction System Industry Forecast" looks at past sales and reviews total world Helium Recovery Liquefaction System sales in 2025, providing a comprehensive analysis by region and market sector of projected Helium Recovery Liquefaction System sales for 2026 through 2032. With Helium Recovery Liquefaction System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Helium Recovery Liquefaction System industry.

This Insight Report provides a comprehensive analysis of the global Helium Recovery Liquefaction System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Helium Recovery Liquefaction System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Helium Recovery Liquefaction System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Helium Recovery Liquefaction System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Helium Recovery Liquefaction System.

This report presents a comprehensive overview, market shares, and growth opportunities of Helium Recovery Liquefaction System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Cryogenic Distillation

Pressure Swing Adsorption (PSA)

Membrane Separation

Segmentation by System Scale:

Laboratory Grade

Industrial Grade

Segmentation by System Configuration:

Open-Loop Helium Recovery Liquefaction System

Closed-Loop Helium Recovery Liquefaction System

Segmentation by Application:

Medical Imaging

Semiconductor Manufacturing

Scientific Research & Cryogenic Laboratories

Quantum Computing & Superconducting Technology

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Linde Engineering

Air Liquide

Chart Industries

Bluefors

Quantum Technology

Quantum Design

Taiyo Nippon Sanso

UNISOKU

Zhongke Fuhai Technology

CSSC Pengli (Nanjing) Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Helium Recovery Liquefaction System market?

What factors are driving Helium Recovery Liquefaction System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Helium Recovery Liquefaction System market opportunities vary by end market?

size?

How does Helium Recovery Liquefaction System break out by Type, by Application?

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