

Global Helium Recovery Liquefaction System 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 Helium Recovery Liquefaction System market size was valued at US\$ 724 million in 2025 and is forecast to a readjusted size of US\$ 1126 million by 2032 with a CAGR of 6.1% during review period.

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

Global Helium Recovery Liquefaction System 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 Helium Recovery Liquefaction System 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 Helium Recovery Liquefaction System 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 Helium Recovery Liquefaction System

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 Helium Recovery Liquefaction System 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, 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.

Market Segmentation

Helium Recovery Liquefaction System 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 Distillation

Pressure Swing Adsorption (PSA)

Membrane Separation

Market segment by System Scale

Laboratory Grade

Industrial Grade

Market segment by System Configuration

Open-Loop Helium Recovery Liquefaction System

Closed-Loop Helium Recovery Liquefaction System

Market segment by Application

Medical Imaging

Semiconductor Manufacturing

Scientific Research & Cryogenic Laboratories

Quantum Computing & Superconducting Technology

Others

Major players covered

Linde Engineering

Air Liquide

Chart Industries

Bluefors

Quantum Technology

Quantum Design

Taiyo Nippon Sanso

UNISOKU

Zhongke Fuhai Technology

CSSC Pengli (Nanjing) Technology

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 Helium Recovery Liquefaction System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Helium Recovery Liquefaction System, with price, sales quantity, revenue, and global market share of Helium Recovery Liquefaction System from 2021 to 2026.

Chapter 3, the Helium Recovery Liquefaction System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Helium Recovery Liquefaction System 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 Helium Recovery Liquefaction System 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 Helium Recovery Liquefaction System.

Chapter 14 and 15, to describe Helium Recovery Liquefaction System sales channel, distributors, customers, research findings and conclusion.

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