

Global Helium Liquefaction Refrigerator 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 Liquefaction Refrigerator market size was valued at US\$ 237 million in 2025 and is forecast to a readjusted size of US\$ 389 million by 2032 with a CAGR of 7.4% during review period.

A helium liquefaction refrigerator is a specialized type of refrigeration system used to cool helium gas to extremely low temperatures, ultimately leading to the liquefaction of helium.

Helium Liquefaction Refrigerator are devices used to cool and compress helium gas into liquid helium and are commonly used in laboratory research, medical devices, industrial applications and aerospace. Liquid helium is becoming increasingly important in superconductor applications with the development of renewable energy and energy storage technologies. Helium liquefaction devices are used to prepare the ultra-low temperature liquid helium required for superconductor magnets to enable impedance-free transmission of electrical currents. This is essential for the development of more efficient energy transmission and storage systems. Helium liquefaction devices are widely used in NMR research. In recent years, the development and widespread use of NMR technology has fuelled the growth in demand for helium liquefaction devices, particularly in the biomedical, chemical and materials science fields. Helium Liquefaction Refrigerator are used in a variety of industrial applications including liquefied natural gas (LNG) production, semiconductor manufacturing, high temperature superconductor research and aerospace technology. These applications require large quantities of liquid helium to achieve ultra-low temperature environments. Overall, the demand for Helium Liquefaction Refrigerator continues to grow in a number of areas, driving technological advances and innovation. With developments in areas such as

superconductivity, MRI technology and high temperature superconductors, the importance of liquid helium will continue to grow, and helium liquefaction unit manufacturers will continue to improve their equipment to meet changing market demands. At the same time, sustainability and energy efficiency will be key factors in future developments.

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

Global Helium Liquefaction Refrigerator market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Helium Liquefaction Refrigerator market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Helium Liquefaction Refrigerator market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (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 Liquefaction Refrigerator

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 Liquefaction Refrigerator 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, Quantum Design, CSIC, TAIYO NIPPON SANSO CORPORATION (Nippon Sanso Holdings Group), Advanced Research Systems, Cryo Industries of America, Cryomech, Chart Industries, Beijing Sinoscience Fullcryo Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Helium Liquefaction Refrigerator 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

Below 40 L/d

40-140 L/d

Above 140 L/d

Market segment by Application

Chemical Industry

Research Institutes

University

Healthcare

Others

Major players covered

Linde Engineering

Air Liquide

Quantum Design

CSIC

TAIYO NIPPON SANSO CORPORATION (Nippon Sanso Holdings Group)

Advanced Research Systems

Cryo Industries of America

Cryomech

Chart Industries

Beijing Sinoscience Fullcryo Technology Co., Ltd.

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 Liquefaction Refrigerator product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Helium Liquefaction Refrigerator 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 Liquefaction Refrigerator 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 Liquefaction Refrigerator.

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

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