

Global Gifford-McMahon Refrigeration Liquid Nitrogen Generator Market Growth 2026-2032

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Abstracts

The global Gifford-McMahon Refrigeration Liquid Nitrogen Generator market size is predicted to grow from US\$ 24.79 million in 2025 to US\$ 35.91 million in 2032; it is expected to grow at a CAGR of 5.5% from 2026 to 2032.

A Gifford-McMahon (GM) Refrigeration Liquid Nitrogen Generator is a system that utilizes the Gifford-McMahon cryocooler technology to produce liquid nitrogen by cooling nitrogen gas to cryogenic temperatures. The GM refrigeration system is a type of regenerative cryocooler that operates using a two-phase gas compression and expansion process, which makes it highly effective for cryogenic cooling applications.

The Gifford-McMahon (GM) Refrigeration Liquid Nitrogen Generator market is driven by the need for on-site liquid nitrogen production across industries like healthcare, research and food processing. Gifford-McMahon refrigeration systems, known for their efficiency in cryogenic cooling, are widely used in the production of liquid nitrogen.

Expanding medical and healthcare sectors: Increasing use of liquid nitrogen in medical applications like cryotherapy, tissue preservation, and stem cell storage is driving demand for GM-based nitrogen generators.

Cost-effectiveness of on-site production: On-site liquid nitrogen generation offers significant cost savings compared to purchasing and transporting liquid nitrogen from external suppliers. GM refrigeration systems provide a reliable and efficient solution for generating nitrogen locally.

The market for Gifford-McMahon Refrigeration Liquid Nitrogen Generators is expected to grow steadily, driven by rising demand in healthcare, electronics, and research

applications. Technological advancements will continue to enhance system performance, while increasing focus on cost savings and sustainability will encourage adoption of GM-based systems in industries looking for efficient cryogenic solutions. However, competition from alternative cryocoolers and environmental concerns will need to be managed to sustain long-term growth.

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

This Insight Report provides a comprehensive analysis of the global Gifford-McMahon Refrigeration Liquid Nitrogen Generator 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 Gifford-McMahon Refrigeration Liquid Nitrogen Generator portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Gifford-McMahon Refrigeration Liquid Nitrogen Generator market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gifford-McMahon Refrigeration Liquid Nitrogen Generator 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 Gifford-McMahon Refrigeration Liquid Nitrogen Generator.

This report presents a comprehensive overview, market shares, and growth opportunities of Gifford-McMahon Refrigeration Liquid Nitrogen Generator market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Small

Large

Segmentation by Application:

Medical

Research

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.

Peak Scientific

Ulvac Cryogenics

Noblegen

F-DGSI

MMR Technologies

Imtek Cryogenics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gifford-McMahon Refrigeration Liquid Nitrogen Generator market?

What factors are driving Gifford-McMahon Refrigeration Liquid Nitrogen Generator market growth, globally and by region?

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

How do Gifford-McMahon Refrigeration Liquid Nitrogen Generator market opportunities vary by end market size?

How does Gifford-McMahon Refrigeration Liquid Nitrogen Generator break out by Type, by Application?

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