

# Global Gifford-McMahon Refrigeration Liquid Nitrogen Generator Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Gifford-McMahon Refrigeration Liquid Nitrogen Generator market size was valued at US\$ 24.9 million in 2024 and is forecast to a readjusted size of USD 35.4 million by 2031 with a CAGR of 5.2% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

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.

This report is a detailed and comprehensive analysis for global Gifford-McMahon Refrigeration Liquid Nitrogen Generator 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 Gifford-McMahon Refrigeration Liquid Nitrogen Generator market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Gifford-McMahon Refrigeration Liquid Nitrogen Generator market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Gifford-McMahon Refrigeration Liquid Nitrogen Generator market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Gifford-McMahon Refrigeration Liquid Nitrogen Generator market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

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 Gifford-McMahon Refrigeration Liquid Nitrogen Generator
- 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 Gifford-McMahon Refrigeration Liquid Nitrogen Generator 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 Peak Scientific, Ulvac Cryogenics, Noblegen, F-DGSI, MMR Technologies, Imtek Cryogenics, etc.

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

### Market Segmentation

Gifford-McMahon Refrigeration Liquid Nitrogen Generator market is split by Type and by Application. For the period 2020-2031, 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

Small

Large

#### Market segment by Application

Medical

Research

Others

Major players covered

Peak Scientific

Ulvac Cryogenics

Noblegen

F-DGSI

MMR Technologies

Imtek Cryogenics

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 Gifford-McMahon Refrigeration Liquid Nitrogen Generator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gifford-McMahon Refrigeration Liquid Nitrogen Generator, with price, sales quantity, revenue, and global market share of Gifford-McMahon Refrigeration Liquid Nitrogen Generator from 2020 to 2025.

Chapter 3, the Gifford-McMahon Refrigeration Liquid Nitrogen Generator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Gifford-McMahon Refrigeration Liquid Nitrogen Generator breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Gifford-McMahon Refrigeration Liquid Nitrogen Generator market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Gifford-McMahon Refrigeration Liquid Nitrogen Generator.

Chapter 14 and 15, to describe Gifford-McMahon Refrigeration Liquid Nitrogen Generator sales channel, distributors, customers, research findings and conclusion.

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