

Global Liquid Nitrogen Vacuum Traps 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 Liquid Nitrogen Vacuum Traps market size was valued at US\$ 57.6 million in 2024 and is forecast to a readjusted size of USD 79.6 million by 2031 with a CAGR of 4.6% during review period.

A liquid nitrogen vacuum trap is a device that utilizes the low-temperature properties of liquid nitrogen to capture and condense gases or vapors in vacuum systems. It is commonly employed in high and ultra-high vacuum systems to remove water vapor, oil vapor, or other volatile substances, thereby improving the vacuum level and system stability. The trap consists of an inner container filled with liquid nitrogen, which lowers the surface temperature to -196°C, enabling gas condensation. Liquid nitrogen vacuum traps are widely used in semiconductor manufacturing, chemical experiments, freeze-drying processes, and biological sample preparation, effectively preventing contamination and enhancing the accuracy of experiments or production processes.

This report is a detailed and comprehensive analysis for global Liquid Nitrogen Vacuum Traps 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 Liquid Nitrogen Vacuum Traps market size and forecasts, in consumption value

(\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

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

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

Global Liquid Nitrogen Vacuum Traps market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Liquid Nitrogen Vacuum Traps
- 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 Liquid Nitrogen Vacuum Traps 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 Pfeiffer Vacuum, Solberg Manufacturing, Daihan Scientific, Oxford Instruments, Htc Vacuum, Marshall Scientific, Ideal Vacuum, etc.

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

Market Segmentation

Liquid Nitrogen Vacuum Traps 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

Stainless Steel Cold Trap

Glass Cold Trap

Others

Market segment by Application

Industrial

Laboratory

Major players covered

Pfeiffer Vacuum

Solberg Manufacturing

Daihan Scientific

Oxford Instruments

Htc Vacuum

Marshall Scientific

Ideal Vacuum

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 Liquid Nitrogen Vacuum Traps product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Liquid Nitrogen Vacuum Traps, with price, sales quantity, revenue, and global market share of Liquid Nitrogen Vacuum Traps from 2020 to 2025.

Chapter 3, the Liquid Nitrogen Vacuum Traps competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Liquid Nitrogen Vacuum Traps 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 Liquid Nitrogen Vacuum Traps 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 Liquid Nitrogen Vacuum Traps.

Chapter 14 and 15, to describe Liquid Nitrogen Vacuum Traps sales channel, distributors, customers, research findings and conclusion.

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