

Global Hollow Fiber Membrane Nitrogen and Oxygen Separation 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 Hollow Fiber Membrane Nitrogen and Oxygen Separation System market size was valued at US\$ 271 million in 2025 and is forecast to a readjusted size of US\$ 432 million by 2032 with a CAGR of 7.0% during review period.

Hollow fiber membrane nitrogen and oxygen separation system is a gas separation system based on hollow fiber membrane technology, which is mainly used to achieve effective separation of nitrogen and oxygen. The hollow fiber membrane nitrogen and oxygen separation system is mainly composed of hollow fiber membrane components, pressure vessels, air inlet and outlet systems, pressure control systems and other auxiliary equipment. The hollow fiber membrane component is the core part of the system, which is composed of hundreds of thousands of hollow fiber membrane filaments, each of which is an independent separation unit. The working principle of the system is based on the permeation and molecular screening of gas molecules in the hollow fiber membrane. When the nitrogen and oxygen mixed gas passes through the hollow fiber membrane under pressure, due to the different permeation rates of oxygen and nitrogen molecules in the membrane material, the oxygen with a smaller molecular weight will pass through the membrane pores faster to the other side of the membrane, while the nitrogen with a larger molecular weight will be relatively retained in the membrane. In this way, nitrogen and oxygen gases with different oxygen concentrations can be separated on both sides of the membrane.

With the continuous advancement of science and technology and the demand for industrial upgrading, hollow fiber membranes, as a material with special properties, have been widely used in the field of gas separation. As an important branch, the

market size of hollow fiber membrane nitrogen and oxygen separation system is also expanding. Hollow fiber membrane nitrogen and oxygen separation system has a wide range of applications in many fields, such as petrochemicals, food and beverages, biopharmaceuticals, environmental protection, etc. These fields have high requirements for the purity of nitrogen and oxygen, so hollow fiber membrane nitrogen and oxygen separation systems can meet their needs, thereby promoting the growth of market demand. In addition, with the continuous advancement of science and technology, the technical level of hollow fiber membrane nitrogen and oxygen separation systems is also constantly improving. Some companies have begun to focus on technological innovation and R&D investment, and have launched a series of new products and technologies with independent intellectual property rights. The introduction of these new technologies and new products not only improves the performance and quality of hollow fiber membrane nitrogen and oxygen separation systems, but also further promotes the development of the market and the expansion of application fields. In summary, the hollow fiber membrane nitrogen and oxygen separation system market has broad development prospects and potential.

This report is a detailed and comprehensive analysis for global Hollow Fiber Membrane Nitrogen and Oxygen Separation 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 Hollow Fiber Membrane Nitrogen and Oxygen Separation System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Hollow Fiber Membrane Nitrogen and Oxygen Separation 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 Hollow Fiber Membrane Nitrogen and Oxygen Separation 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 Hollow Fiber Membrane Nitrogen and Oxygen Separation 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 Hollow Fiber Membrane Nitrogen and Oxygen Separation 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 Hollow Fiber Membrane Nitrogen and Oxygen Separation 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 GENERON, PCI Gases, Air Products Membrane Solutions, Advanced Gas Technologies, Holtec Gas Systems, Air Liquide, BAUER, Grasy, Suzhou Xite High Purity Gas Equipment, Beijing Zhongcheng Hangyu Technology Co., Ltd., etc.

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

Market Segmentation

Hollow Fiber Membrane Nitrogen and Oxygen Separation 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

Electric

Diesel

Market segment by Application

Petrochemical

Food and Beverage

Aerospace

Ship

Biopharmaceutical

Industrial Manufacturing Equipment

Other

Major players covered

GENERON

PCI Gases

Air Products Membrane Solutions

Advanced Gas Technologies

Holtec Gas Systems

Air Liquide

BAUER

Grasys

Suzhou Xite High Purity Gas Equipment

Beijing Zhongcheng Hangyu 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 Hollow Fiber Membrane Nitrogen and Oxygen Separation System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hollow Fiber Membrane Nitrogen and Oxygen Separation System, with price, sales quantity, revenue, and global market share of Hollow Fiber Membrane Nitrogen and Oxygen Separation System from 2021 to 2026.

Chapter 3, the Hollow Fiber Membrane Nitrogen and Oxygen Separation System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hollow Fiber Membrane Nitrogen and Oxygen Separation 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 Hollow Fiber Membrane Nitrogen and Oxygen Separation 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 Hollow Fiber Membrane Nitrogen and Oxygen Separation System.

Chapter 14 and 15, to describe Hollow Fiber Membrane Nitrogen and Oxygen Separation System sales channel, distributors, customers, research findings and conclusion.

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