

Global Membrane Separation Nitrogen Production Equipment 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 Membrane Separation Nitrogen Production Equipment market size was valued at US\$ 1466 million in 2025 and is forecast to a readjusted size of US\$ 2265 million by 2032 with a CAGR of 6.4% during review period.

A membrane nitrogen generator is an on-site gas generation system that uses compressed air as feed and hollow-fiber polymer membranes as the core separation medium to continuously produce nitrogen at ambient temperature. A typical system includes air pretreatment, fine filtration, oil and moisture removal, membrane modules, pressure and flow control, purity monitoring, control units, and when needed storage or downstream conditioning modules. In physical form, it is commonly delivered as a cabinet-mounted, skid-mounted, containerized, or mobile integrated package for factories, ships, oil and gas facilities, and other industrial sites. Its operating principle relies on the different permeation rates of gases through semi-permeable membranes: oxygen, water vapor, and some fast-permeating components pass through the membrane wall more readily, while nitrogen is retained and enriched in the fiber lumen for continuous delivery. This equipment is best suited to applications that require moderate to relatively high nitrogen purity together with compact footprint, rapid start-up, low maintenance, and attractive on-site supply economics, such as food packaging, plastic molding, chemical inerting, tank blanketing, fire prevention, marine inerting, and selected supporting processes in electronics manufacturing. Today, the product is mainly designed and supplied by industrial gas equipment manufacturers, compressed air system companies, membrane technology firms, and specialized system integrators serving marine, oil and gas, food, and general manufacturing industries.

From the perspective of market development opportunities and main driving factors, the growth logic of membrane nitrogen generators is not merely an increase in nitrogen demand, but a broader shift in industrial gas supply from delivered cylinders and bulk liquid nitrogen toward distributed, on-site, low-maintenance generation. Applications such as food packaging, chemical inerting, plastic molding, auxiliary processes in electronics manufacturing, marine inerting, and storage safety all require stable nitrogen supply, lower dependence on external logistics, and improved operational safety. In these scenarios, membrane systems offer clear advantages, including compact footprint, fast start-up, modular configuration, relatively simple maintenance, and favorable economics in moderate-purity duty. Public market evidence also shows that the overall industrial nitrogen generator market is expanding, while the membrane segment is growing slightly faster than the total market. When combined with shipping safety requirements, clean-fuel vessel retrofits, plant automation, and compressed-air system upgrades, these factors create the core momentum for continued expansion of this niche over the coming years.

From the perspective of market challenges, risks, and restraints, membrane nitrogen generators are not the optimal solution for every nitrogen application. Their main technical boundary is that ultra-high-purity nitrogen requirements are usually better served by PSA or cryogenic systems, which means membrane technology is better suited to moderate-purity, continuous on-site applications and installations with limited space rather than universal replacement of all nitrogen production routes. Another practical constraint is the sensitivity of membrane systems to feed-air quality: insufficient oil, water, and particulate removal can directly shorten membrane life and weaken separation stability. In addition, customers typically compare membrane systems not only against PSA, but also against liquid nitrogen and cylinders on a total-cost-of-ownership basis, including purity requirement, energy consumption, backup supply, and downtime risk, which often extends the purchasing cycle. In marine, oil and gas, and explosion-protection environments, certification requirements, integration capability, cybersecurity, and industry-specific compliance are also raising barriers to entry. As a result, the market is likely to keep growing while becoming more concentrated in the hands of suppliers with stronger membrane know-how, system engineering capability, process validation, and service networks.

From the perspective of downstream demand trends, the most important future pattern is not explosive growth in one single sector, but the parallel expansion of multiple moderate-purity nitrogen applications. Food and beverage will remain a steady demand source, especially in modified atmosphere packaging and freshness preservation; chemicals, petrochemicals, and storage operations will continue to rely on nitrogen for

inerting, purging, blanketing, and explosion prevention; and the marine sector is becoming one of the most distinctive growth arenas for membrane systems because of fuel transition and onboard safety requirements. At the same time, a growing number of manufacturing users are integrating membrane nitrogen generators with compressor stations, oxygen analyzers, monitoring software, and remote service platforms, moving toward smarter, more modular, and more deployable system architectures. Overall, future demand for membrane nitrogen generators is expected to be shaped by on-site use, modularization, low maintenance, safety orientation, and integration with compressed-air infrastructure, rather than by a simple pursuit of the highest possible nitrogen purity. This is also why membrane technology is more likely to coexist with PSA in a long-term technical division of labor than to fully replace it

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

Global Membrane Separation Nitrogen Production Equipment 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 Membrane Separation Nitrogen Production Equipment 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 Membrane Separation Nitrogen Production Equipment 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:

Global Membrane Separation Nitrogen Production Equipment Market 2026 by Manufacturers, Regions, Type and Appli...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Membrane Separation Nitrogen Production Equipment

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 Membrane Separation Nitrogen Production Equipment 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 Holtec Gas Systems, GENERON, PEAK SCIENTIFIC, NiGen, Parker, Atlas Copco, Air Products, On Site Gas Systems, OXYMAT, Grasys, etc.

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

Market Segmentation

Membrane Separation Nitrogen Production Equipment 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

1700 W Power Class

2000 W Power Class

2400 W Power Class

Other Power Ratings

Market segment by Nitrogen Purity Class

Standard-Purity Membrane Nitrogen Generator

Medium-Purity Membrane Nitrogen Generator

High-Purity Membrane Nitrogen Generator

Market segment by System Packaging Form

Cabinet-Type Membrane Nitrogen Generator

Skid-Mounted Membrane Nitrogen Generator

Containerized Membrane Nitrogen Generator

Custom-Engineered Membrane Nitrogen System

Market segment by Application

Food and Drink

Electronics and Semiconductors

Pharmaceuticals and Biomedicine

War Industry

Others

Major players covered

Holtec Gas Systems

GENERON

PEAK SCIENTIFIC

NiGen

Parker

Atlas Copco

Air Products

On Site Gas Systems

OXYMAT

Grasys

NOVAIR

AirSep

Kaken Geneqs

Kashiwa Tech

UBE

SMC

Terra Universal

Ingersoll Rand

F-DGSi

ErreDue

VICI DBS

cmc Instruments

Claind

HAIYU GAS EQUIPMENT

GASPU

WSX GAS

CanGas

Hefeng Gas

SPX Gas

MVS Engineering

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 Membrane Separation Nitrogen Production Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Membrane Separation Nitrogen Production Equipment, with price, sales quantity, revenue, and global market share of

Membrane Separation Nitrogen Production Equipment from 2021 to 2026.

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

Chapter 4, the Membrane Separation Nitrogen Production Equipment 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 Membrane Separation Nitrogen Production Equipment 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 Membrane Separation Nitrogen Production Equipment.

Chapter 14 and 15, to describe Membrane Separation Nitrogen Production Equipment sales channel, distributors, customers, research findings and conclusion.

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