

Global PSA Nitrogen Purification Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global PSA Nitrogen Purification market size was valued at US\$ 321 million in 2025 and is forecast to a readjusted size of US\$ 456 million by 2032 with a CAGR of 5.1% during review period.

PSA Nitrogen Purification (pressure swing adsorption nitrogen purification) is a process that uses gas separation technology to separate and purify nitrogen through the difference in the adsorption capacity of adsorbents for gas molecules under different pressures. The core principle is: under high pressure conditions, the adsorbent (such as carbon molecular sieve) has a much stronger adsorption capacity for impurity gases such as oxygen and carbon dioxide than nitrogen; when the pressure is reduced, the adsorbed impurity gas is rapidly desorbed, while nitrogen is enriched due to weak adsorption. Through periodic pressure changes (adsorption and desorption cycles), high-purity nitrogen (usually 95%~99.999% purity) can be continuously produced. The industry's gross profit margin is approximately 25~35%.

Key market drivers primarily include the following factors:

Increased demand for a stable nitrogen supply across downstream industrial applications serves as the core driver for growth in the PSA nitrogen purification market.

PSA nitrogen purification systems primarily utilize Pressure Swing Adsorption (PSA) technology to separate oxygen, moisture, and various impurities from compressed air, thereby generating nitrogen of consistent purity. Furthermore, these systems can be configured with downstream purification, deoxygenation, drying, and filtration modules to meet specific downstream requirements. Industries such as electronics

manufacturing, lithium-ion battery production, food packaging, chemical inerting, metal heat treatment, laser cutting, laboratory operations, and pharmaceutical packaging all require a continuous, stable, and controllable nitrogen-rich environment. Linde notes that PSA nitrogen generation units are applicable across a wide range of industrial scenarios, while Atlas Copco has similarly deployed on-site nitrogen generation solutions in sectors such as food packaging and electronics manufacturing.

The adoption of on-site nitrogen generation as a substitute for purchased liquid nitrogen and bottled nitrogen empowers enterprises to enhance their autonomy regarding gas supply.

Traditional nitrogen supply methods including liquid nitrogen, bottled nitrogen, and tanker deliveries are highly susceptible to disruptions related to transportation, storage, price volatility, and supply stability. This is particularly critical in continuous production environments, where supply interruptions or fluctuations in nitrogen purity can directly compromise product quality and disrupt production schedules. PSA nitrogen purification systems enable users to generate nitrogen on-site and on-demand, thereby reducing reliance on external suppliers while allowing for the precise adjustment of nitrogen purity, pressure, and flow rates to align with specific process requirements. Parker highlights that on-site nitrogen generators minimize dependence on bulk liquid nitrogen, cryogenic dewars, and high-pressure gas cylinders; similarly, Atlas Copco emphasizes that on-site nitrogen generation empowers users to secure a continuous, localized nitrogen supply tailored to their exact purity specifications. Energy Efficiency, Cost Reduction, Automation, and High-Purity Upgrades Enhance Equipment Value

PSA nitrogen purification equipment is evolving from simple nitrogen generation units into comprehensive system solutions that integrate compressed air treatment, adsorption separation, purification and deoxygenation, online monitoring, and intelligent control. For the electronics, new energy, precision manufacturing, and chemical industries, nitrogen serves not merely as a protective gas but also as a critical medium that influences oxygen levels, moisture content, oxidation reactions, and process stability. Consequently, users are placing greater emphasis on purity stability, dew point control, automatic switching, online analysis, and remote operation and maintenance capabilities. Atlas Copco's PSA nitrogen generation equipment offers a wide range of purity levels, while Linde has also deployed on-site nitrogen generation solutions to meet the demand for ultra-high-purity nitrogen supply in electronics manufacturing; these developments demonstrate that the market is currently upgrading from standard industrial nitrogen supply toward high-purity, stable, and intelligent gas supply systems.

This report is a detailed and comprehensive analysis for global PSA Nitrogen Purification market. Both quantitative and qualitative analyses are presented by company, 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 PSA Nitrogen Purification market size and forecasts, in consumption value (\$ Million), 2021-2032

Global PSA Nitrogen Purification market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global PSA Nitrogen Purification market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global PSA Nitrogen Purification market shares of main players, in revenue (\$ Million), 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 PSA Nitrogen Purification

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 PSA Nitrogen Purification market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Linde (IE), Haohua Technology (CN), Air Products (US), Lummus Technology (US), Parker Hannifin (US), Peak Scientific (GB), Ally Hi-Tech (CN), Isolcell (IT), Zhengda Air Separation Equipment (CN), Bauer Compressors (DE), etc.

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

Market segmentation

PSA Nitrogen Purification 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single Tower System

Multi-tower System

Market segment by Product Category

Standard Purity PSA Nitrogen Generation

High Purity PSA Nitrogen Generation

Market segment by Technology

Integrated PSA Nitrogen Purification Equipment

Skid-mounted PSA Nitrogen Purification System

Others

Market segment by Application

Petrochemical Industry

Metal Smelting

Medical

Other

Market segment by players, this report covers

Linde (IE)

Haohua Technology (CN)

Air Products (US)

Lummus Technology (US)

Parker Hannifin (US)

Peak Scientific (GB)

Ally Hi-Tech (CN)

Isolcell (IT)

Zhengda Air Separation Equipment (CN)

Bauer Compressors (DE)

Ruiqi Air Separation Equipment (CN)

Sepmem (CN)

NSHD?JP?

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe PSA Nitrogen Purification product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of PSA Nitrogen Purification, with revenue, gross margin, and global market share of PSA Nitrogen Purification from 2021 to 2026.

Chapter 3, the PSA Nitrogen Purification competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and PSA Nitrogen Purification market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of PSA Nitrogen Purification.

Chapter 13, to describe PSA Nitrogen Purification research findings and conclusion.

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