

Global PSA Nitrogen Purification Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PSA Nitrogen Purification market size is expected to reach \$ 456 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

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 studies the global PSA Nitrogen Purification demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for PSA Nitrogen Purification, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of PSA Nitrogen Purification that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PSA Nitrogen Purification total market, 2021-2032, (USD Million)

Global PSA Nitrogen Purification total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: PSA Nitrogen Purification total market, key domestic companies, and share, (USD Million)

Global PSA Nitrogen Purification revenue by player, revenue and market share 2021-2026, (USD Million)

Global PSA Nitrogen Purification total market by Type, CAGR, 2021-2032, (USD Million)

Global PSA Nitrogen Purification total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world PSA Nitrogen Purification market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and

2027-2032 as the forecast year.

Global PSA Nitrogen Purification Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PSA Nitrogen Purification Market, Segmentation by Type:

Single Tower System

Multi-tower System

Global PSA Nitrogen Purification Market, Segmentation by Product Category:

Standard Purity PSA Nitrogen Generation

High Purity PSA Nitrogen Generation

Global PSA Nitrogen Purification Market, Segmentation by Technology:

Integrated PSA Nitrogen Purification Equipment

Skid-mounted PSA Nitrogen Purification System

Others

Global PSA Nitrogen Purification Market, Segmentation by Application:

Petrochemical Industry

Metal Smelting

Medical

Other

Companies Profiled:

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?

Key Questions Answered

1. How big is the global PSA Nitrogen Purification market?
2. What is the demand of the global PSA Nitrogen Purification market?
3. What is the year over year growth of the global PSA Nitrogen Purification market?
4. What is the total value of the global PSA Nitrogen Purification market?
5. Who are the Major Players in the global PSA Nitrogen Purification market?
6. What are the growth factors driving the market demand?

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