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Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G919D8207673EN.html
Date: September 2026
Pages: 143
Price: US$ 4,480.00 (Single User License)
ID: G919D8207673EN

Abstracts

The global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market size is expected to reach $ 1584 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

Pressure Swing Adsorption (PSA) nitrogen generation equipment is an on-site gas generation system that utilizes compressed air as the feedstock and carbon molecular sieve (CMS) as the core adsorbent material. By exploiting the differences in adsorption kinetics between oxygen and nitrogen on the CMS, the system preferentially adsorbs oxygen, moisture, and some carbon dioxide under pressure, allowing nitrogen to pass through as the product gas. Through the alternating operation of two or more adsorption towers—involving pressurized adsorption, pressure equalization, and depressurization/regeneration—the system continuously produces nitrogen. It primarily consists of an air pretreatment unit, adsorption towers, CMS, a pneumatic valve assembly, a nitrogen buffer tank, an oxygen analyzer, a PLC control system, and associated piping and instrumentation. Key applications include food and beverage packaging and preservation, electronics and semiconductor manufacturing, chemical and petrochemical inerting, pharmaceuticals and healthcare, metal heat treatment, laser cutting and welding, lithium batteries and new energy, oil and gas extraction and pipeline purging, tire nitrogen inflation, coal mine fire prevention, marine operations, and laboratory analysis.

The upstream segment of the industry chain primarily encompasses carbon molecular sieves, aluminum alloy or steel adsorption towers and pressure vessels, pneumatic and solenoid valves, filtration and drying equipment, oxygen analyzers, pressure and flow sensors, programmable controllers, piping components, as well as auxiliary equipment

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such as air compressors, air storage tanks, and nitrogen boosters. Notably, the adsorption selectivity, service life, and packing process of the carbon molecular sieves are critical factors determining nitrogen purity, recovery rates, and specific energy consumption. The midstream segment focuses on adsorption process design, optimization of tower structures and flow fields, carbon molecular sieve packing, pressure equalization and regeneration control, purity regulation, energy-saving algorithms, module parallelization, and the integration of complete units and systems. The downstream segment spans a wide range of sectors, including food and beverage, electronics and semiconductors, chemicals and petrochemicals, oil and gas, pharmaceuticals, metal heat treatment, laser cutting, new energy, shipbuilding, and laboratories. In terms of profitability, the industry's gross profit margin typically ranges from 25% to 40%. Geographically, the Asia-Pacific market is driven by demand from the electronics, chemical, food, and manufacturing sectors in China, Japan, South Korea, India, and Southeast Asia; the European market is supported by demand in food and beverage, chemicals, pharmaceuticals, laser processing, and industrial energy conservation; and the North American market features mature demand in oil and gas, food, metal processing, electronics, and the adoption of on-site gas generation to replace gas cylinders and liquid nitrogen. Future development will prioritize energy efficiency, reducing compressed air consumption through the optimization of carbon molecular sieves, adsorption cycles, and variable flow control. Additionally, modular and scalable designs will see increased adoption, allowing users to incrementally expand production capacity in line with actual gas consumption growth. Overall, this industry represents a market for industrial equipment characterized by mature technology and broad application scope, with a continuous trend toward higher efficiency and system integration. Future growth will be driven by the expansion of manufacturing in the Asia-Pacific region, rising demand for high-purity nitrogen, the shift from purchasing industrial gases to on-site generation, and the increasing penetration of modular, intelligent equipment.

Report Scope

This report studies the global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment 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

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characteristics of Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment total production and demand, 2021-2032, (Units)

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment total production value, 2021-2032, (USD Million)

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment domestic production, consumption, key domestic manufacturers and share

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and

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key developments. Key companies covered as a part of this study include Atlas Copco, Parker Hannifin, Generon, Air Products, OXYMAT, Pneumatech, INMATEC GaseTechnologie, On Site Gas Systems, Holtec Gas Systems, South-Tek Systems, 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 Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K US$/Unit) by manufacturer, 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 Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Market Segmentation

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment Market, Segmentation by Type:

Traditional Dual-Tower

Modular Multi-Tower

Plug-And-Play Integrated Unit

Skid-Mounted

Containerized

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment Market, Segmentation by Nitrogen Purity:

Standard Purity (95%–99%)

High Purity (99%–99.9%)

Ultra-high Purity (?99.9%)

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment Market, Segmentation by Gas Output Capacity:

Small-scale Equipment (?50 Nm^3/h)

Medium-scale Equipment (50–500 Nm^3/h)

Large-scale Equipment (>500 Nm^3/h)

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Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment Market, Segmentation by Application:

Food and Beverage Packaging

Electronics and Semiconductor Manufacturing

Chemical and Petroleum

Medical

Coal Mining

Marine

Laboratory Analysis

Others

Companies Profiled:

Atlas Copco

Parker Hannifin

Generon

Air Products

OXYMAT

Pneumatech

INMATEC GaseTechnologie

On Site Gas Systems

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Holtec Gas Systems

South-Tek Systems

Noxerior

Peak Scientific

Claind

Nippon Sanso Matheson

PERIC Hydrogen Technologies

Suzhou Since Gas Technology

Shanghai Rich Gas Technology

Shanghai LifenGas

MINNUO Group

Key Questions Answered

1. How big is the global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market?
2. What is the demand of the global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market?
3. What is the year over year growth of the global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market?
4. What is the total value of the global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market?
5. Who are the Major Players in the global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market?
6. What are the growth factors driving the market demand?

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