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Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment Market Growth 2026-2032

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Abstracts

The global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market size is predicted to grow from US$ 1033 million in 2025 to US$ 1536 million in 2032; it is expected to grow at a CAGR of 5.9% from 2026 to 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 such as air compressors, air storage tanks, and nitrogen boosters. Notably, the

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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.

United States market for Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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Global key Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment players cover Atlas Copco, Parker Hannifin, Generon, Air Products, OXYMAT, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment Industry Forecast” looks at past sales and reviews total world Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment sales in 2025, providing a comprehensive analysis by region and market sector of projected Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment sales for 2026 through 2032. With Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment industry.

This Insight Report provides a comprehensive analysis of the global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment.

This report presents a comprehensive overview, market shares, and growth opportunities of Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market by product type, application, key manufacturers and key regions and countries.

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Market Segmentation

Segmentation by Type:

Traditional Dual-Tower

Modular Multi-Tower

Plug-And-Play Integrated Unit

Skid-Mounted

Containerized

Segmentation by Nitrogen Purity:

Standard Purity (95%–99%)

High Purity (99%–99.9%)

Ultra-high Purity (?99.9%)

Segmentation by Gas Output Capacity:

Small-scale Equipment (?50 Nm³/h)

Medium-scale Equipment (50–500 Nm³/h)

Large-scale Equipment (>500 Nm³/h)

Segmentation by Application:

Food and Beverage Packaging

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Electronics and Semiconductor Manufacturing

Chemical and Petroleum

Medical

Coal Mining

Marine

Laboratory Analysis

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Atlas Copco

Parker Hannifin

Generon

Air Products

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OXYMAT

Pneumatech

INMATEC GaseTechnologie

On Site Gas Systems

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 Addressed in this Report

What is the 10-year outlook for the global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market?

What factors are driving Pressure Swing Adsorption (PSA) Nitrogen Generation

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Equipment market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market opportunities vary by end market size?

How does Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment break out by Type, by Application?

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