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Global Pressure Swing Adsorption (PSA) Nitrogen Generation 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 Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market size was valued at US$ 1087 million in 2025 and is forecast to a readjusted size of US$ 1584 million by 2032 with a CAGR of 5.6% during review period.

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

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sensors, programmable controllers, piping components, as well as auxiliary equipment 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 is a detailed and comprehensive analysis for global Pressure Swing Adsorption (PSA) Nitrogen Generation 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

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selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (K US$/Unit), 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 Pressure Swing Adsorption (PSA) Nitrogen Generation 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 Pressure Swing Adsorption (PSA) Nitrogen Generation 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 Atlas

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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.

Pressure Swing Adsorption (PSA) Nitrogen Generation 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 Segmentation

Market segment by Type

Traditional Dual-Tower

Modular Multi-Tower

Plug-And-Play Integrated Unit

Skid-Mounted

Containerized

Market segment by Nitrogen Purity

Standard Purity (95%–99%)

High Purity (99%–99.9%)

Ultra-high Purity (?99.9%)

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Market segment by Gas Output Capacity

Small-scale Equipment (?50 Nm³/h)

Medium-scale Equipment (50–500 Nm³/h)

Large-scale Equipment (>500 Nm³/h)

Market segment by Application

Food and Beverage Packaging

Electronics and Semiconductor Manufacturing

Chemical and Petroleum

Medical

Coal Mining

Marine

Laboratory Analysis

Others

Major players covered

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

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)

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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)

Chapter Outline

Chapter 1, to describe Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment, with price, sales quantity, revenue, and global market share of Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment from 2021 to 2026.

Chapter 3, the Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Pressure Swing Adsorption (PSA) Nitrogen Generation 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 Pressure Swing Adsorption (PSA) Nitrogen Generation 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 Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment.

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Chapter 14 and 15, to describe Pressure Swing Adsorption (PSA) Nitrogen Generation Equipment sales channel, distributors, customers, research findings and conclusion.

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