

Global Pressure Swing Adsorption (PSA) Separation Technology Market 2025 by Company, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G2DBBBC08BACEN.html>

Date: September 2025

Pages: 149

Price: US\$ 3,480.00 (Single User License)

ID: G2DBBBC08BACEN

Abstracts

According to our (Global Info Research) latest study, the global Pressure Swing Adsorption (PSA) Separation Technology market size was valued at US\$ 3222 million in 2024 and is forecast to a readjusted size of USD 4712 million by 2031 with a CAGR of 5.6% during review period.

Pressure swing adsorption (PSA) is a technique used to separate some gas species from a mixture of gases (typically air) under pressure according to the species' molecular characteristics and affinity for an adsorbent material. It operates at near-ambient temperature and significantly differs from the cryogenic distillation commonly used to separate gases. Selective adsorbent materials (e.g., zeolites, (aka molecular sieves), activated carbon, etc.) are used as trapping material, preferentially adsorbing the target gas species at high pressure. The process then swings to low pressure to desorb the adsorbed gas.

When producing nitrogen, it is important to know and understand the purity level you want to achieve. Some applications require low purity levels (between 90 and 99%), such as tire inflation and fire prevention, while others, such as applications in the food and beverage industry or plastic molding, require high levels (from 97 to 99.999%). In these cases PSA technology is the ideal and easiest way to go. The burgeoning hydrogen economy, particularly for applications like fuel cells and refineries, is a major catalyst. The rising adoption of PSA technology in various industries, including semiconductor manufacturing, the production of synthetic ammonia and methanol, and powder metallurgy, contributes significantly to market expansion. Furthermore, stringent environmental regulations promoting cleaner production methods are driving the adoption of energy-efficient PSA systems for gas separation and purification.

Technological advancements leading to improved adsorption materials and enhanced system designs further enhance market prospects.

This report is a detailed and comprehensive analysis for global Pressure Swing Adsorption (PSA) Separation Technology 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 Pressure Swing Adsorption (PSA) Separation Technology market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Pressure Swing Adsorption (PSA) Separation Technology market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Pressure Swing Adsorption (PSA) Separation Technology market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Pressure Swing Adsorption (PSA) Separation Technology market shares of main players, in revenue (\$ Million), 2020-2025

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) Separation Technology

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) Separation Technology 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, Air Products, Honeywell (UOP), Air Liquide, Siemens, Hanxing Energy, Zeochem, Xebec

Adsorption Inc., Samson Technologies, Peak Scientific, etc.

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

Market segmentation

Pressure Swing Adsorption (PSA) Separation Technology market is split by Type and by Application. For the period 2020-2031, 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

Nitrogen

Oxygen

Hydrogen

Others

Market segment by Application

Petroleum and Chemical Industry

Metal Smelting

Medical

Food and Beverage

Industrial Manufacturing

Others

Market segment by players, this report covers

Linde

Air Products

Honeywell (UOP)

Air Liquide

Siemens

Hanxing Energy

Zeochem

Xebec Adsorption Inc.

Samson Technologies

Peak Scientific

Universal Industrial Gases, Inc

BOGE

CALORIC

Isolcell

Bauer Compressors

Lummus Technology

Ivys (Xebec)

Parker Hannifin

SUMITOMO SEIKA

Ally Hi-Tech

Sepmem

Peking University Pioneer Technology

Zhengda Air Separation Equipment

Rich Gas Technology

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 Pressure Swing Adsorption (PSA) Separation Technology product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Pressure Swing Adsorption (PSA) Separation Technology, with revenue, gross margin, and global market share of Pressure Swing Adsorption (PSA) Separation Technology from 2020 to 2025.

Chapter 3, the Pressure Swing Adsorption (PSA) Separation Technology 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 2020 to 2031

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 2020 to 2025. and Pressure Swing Adsorption (PSA) Separation Technology market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of Pressure Swing Adsorption (PSA) Separation Technology.

Chapter 13, to describe Pressure Swing Adsorption (PSA) Separation Technology research findings and conclusion.

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