

# Global Pressure Swing Adsorption (PSA) Technology Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Pressure Swing Adsorption (PSA) Technology market size will reach 1,503.01 Million USD in 2025 and is projected to reach 2,377.42 Million USD by 2032, with a CAGR of 6.77% (2025-2032). Notably, the China Pressure Swing Adsorption (PSA) Technology market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Pressure Swing Adsorption (PSA) technology is a separation process that uses selective adsorption to purify gases. It relies on the principle that different gases have different affinities for adsorbent materials under varying pressure conditions. During PSA, a gas mixture is passed through a column containing an adsorbent material, which selectively adsorbs certain gases based on pressure. When the pressure is reduced, the adsorbed gases are released, allowing for the separation of the desired gas. This process is repeated in cycles to continuously produce high-purity gas. PSA is commonly used in applications such as oxygen generation, nitrogen production, and hydrogen purification.

The major global suppliers of Pressure Swing Adsorption (PSA) Technology include Linde, Haohua Chemical Science & Technology, UOP (Honeywell), Air Products, PKU PIONEER, Air Liquide, Lummus Technology, Ivys (Xebec), Hanxing Energy, Parker Hannifin, SUMITOMO SEIKA, Peak Scientific, Ally Hi-Tech, BOGE, CALORIC, Isolcell,

Zhengda Air Separation Equipment, Bauer Compressors, Rich Gas Technology, Sepmem, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Pressure Swing Adsorption (PSA) Technology. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major suppliers, as well as the market status and trends of different product types and applications in the global Pressure Swing Adsorption (PSA) Technology market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Pressure Swing Adsorption (PSA) Technology market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Pressure Swing Adsorption (PSA) Technology industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Suppliers of Pressure Swing Adsorption (PSA) Technology Include:

Linde

Haohua Chemical Science & Technology

UOP (Honeywell)

Air Products

PKU PIONEER

Air Liquide

Lummus Technology

Ivys (Xebec)

Hanxing Energy

Parker Hannifin

SUMITOMO SEIKA

Peak Scientific

Ally Hi-Tech

BOGE

CALORIC

Isolcell

Zhengda Air Separation Equipment

Bauer Compressors

Rich Gas Technology

Sepmem

Pressure Swing Adsorption (PSA) Technology Product Segment Include:

Hydrogen Purification System

Nitrogen/Oxygen Generator

Others

Pressure Swing Adsorption (PSA) Technology Product Application Include:

Petrochemical Industry

Metal Smelting

Medical

Others

## **Chapter Scope**

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