

Asia Pacific Pressure Swing Adsorption Market Size study, By Type (Double Stage PSA, Rapid PSA) By Application (Medical Oxygen, Oil Refineries, Production Of Ammonia, High Purity Methane Gas, Other) and Country Forecasts 2022-2032

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Abstracts

Asia Pacific Pressure Swing Adsorption Market is valued approximately USD 1142.95 million in 2023 and is anticipated to grow with a healthy growth rate of more than 7.42% over the forecast period 2024-2032. Pressure Swing Adsorption (PSA) is a gas separation and purification technology that utilizes the selective adsorption of gases onto a solid adsorbent material. The process involves high-pressure adsorption, where the targeted gases are captured by the adsorbent, followed by low-pressure desorption to release them. PSA is commonly applied in industrial settings for purifying hydrogen and oxygen, generating nitrogen, and removing impurities from natural gas and biogas streams. Furthermore, rising emphasis on clean energy technologies are gaining attention towards Asia Pacific Pressure Swing Adsorption Market. Pressure swing adsorption systems play a vital role in clean energy integration by facilitating the purification and storage of gases such as hydrogen, which can be generated from renewable electricity through water electrolysis. The ability to produce and store renewable hydrogen using PSA technology supports the scalability and reliability of renewable energy systems,

The Asia Pacific Pressure Swing Adsorption Market is driven by growing rate of industrialization and rising demand of advance medical technologies across the region. Industrialization fuel the adoption of on-site gas generation solutions using PSA technology to meet the growing demand for gases while optimizing supply chain efficiency. By producing gases on-site, industries can eliminate transportation costs,

reduce dependency on external gas suppliers, and ensure a reliable and continuous gas supply tailored to their specific process requirements. In addition, PSA technology provides a reliable and cost-effective solution for producing ultra-pure gases essential for laboratory applications such as chromatography, mass spectrometry, and cell culture. However, high expense related to pressure swing adsorption and complexity associated to design of systems is going to impede the overall demand for the market during the forecast period 2024-2032.

The key Countries considered for the Asia Pacific Pressure Swing Adsorption market study includes China, India, Japan, South Korea, Australia and Rest of Asia Pacific. In 2023, China was the largest regional market in terms of revenue owing to factors such as expansion of semiconductor manufacturing facilities across the region. The expansion of semiconductor manufacturing facilities often involves the adoption of advanced technologies and equipment to improve production efficiency, yield, and quality. PSA systems play a crucial role in providing high-performance gas purification solutions that meet the stringent requirements of modern semiconductor processes. China's semiconductor fabrication upgrades their facilities with state-of-the-art equipment and processes, there is a corresponding need for advanced PSA technology to support these advancements. Furthermore, the market in India, on the other hand, is expected to develop at the fastest rate over the forecast period 2024-2032.

Major market player included in this report are:

Shanghai Hanxing Energy Technology Co.,Ltd

Sumitomo Seika Chemicals Company, Ltd

Asahi Kasei Corporation

Daesung Group

Mitsubishi Chemical Corporation

Company 6

Company 7

Company 8

Company 9

Company 10

The detailed segments and sub-segment of the market are explained below:

By Type

Double Stage PSA

Rapid PSA

By Application

Medical Oxygen

Oil Refineries

Production Of Ammonia

High Purity Methane Gas

Other

By Region:

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and country level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

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