

Global Medical PSA Oxygen Generator Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GAD1670E807DEN.html>

Date: June 2026

Pages: 152

Price: US\$ 4,480.00 (Single User License)

ID: GAD1670E807DEN

Abstracts

The global Medical PSA Oxygen Generator market size is expected to reach \$ 872 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

Medical PSA oxygen generator is an on-site medical oxygen production system that uses ambient air as feedstock and separates nitrogen through pressure swing adsorption using molecular sieves. A complete system typically includes an air compressor, air treatment unit, PSA adsorber vessels, oxygen buffer tank, booster, control system, oxygen purity monitoring, alarms, and optional cylinder-filling station. The typical medical oxygen concentration is 93%±3%, serving hospital pipeline supply, wards, ICUs, operating rooms, primary healthcare facilities, and emergency oxygen supply.

The upstream supply chain includes oil-free or low-oil air compressors, refrigerated or desiccant dryers, filters, zeolite molecular sieves, adsorber pressure vessels, pneumatic or solenoid valves, oxygen buffer tanks, oxygen analyzers, dew-point meters, pressure sensors, PLC/HMI controls, medical gas alarm systems, boosters, cylinder-filling manifolds, piping and valves, medical gas outlets, and skid or container structures. Midstream players are medical gas equipment manufacturers and system integrators. Their competitiveness depends on oxygen purity stability, continuous-duty reliability, molecular sieve life, compressor energy efficiency, redundancy design, medical compliance, installation capability, and after-sales service. Downstream customers include general hospitals, specialty hospitals, primary healthcare facilities, remote hospitals, mobile hospitals, long-term care institutions, and public health projects.

In 2025, global medical PSA oxygen generator production reached approximately 80 k

units, with an average global market price is \$8,000 per unit.

Medical PSA oxygen generators are on-site oxygen generation systems designed for centralized oxygen supply in hospitals, clinics, and other healthcare facilities. Their core principle is to use pressure swing adsorption and molecular sieve technology to separate oxygen from ambient air and supply it either to the medical gas pipeline or to cylinder-filling systems. According to WHO technical specifications, these systems typically produce medical oxygen at 93%±3% purity, and WHO also positions oxygen generator plants as facility-based oxygen sources that can either feed hospital piping systems directly or be used for high-pressure cylinder filling.

The market value of this category is not simply the ability to generate oxygen, but its role in improving supply autonomy, continuity of care, and oxygen-supply resilience for healthcare providers. Compared with dependence on delivered cylinders or liquid oxygen, Medical PSA Oxygen Generators are better suited to supporting continuous on-site oxygen availability and can be integrated with cylinder filling, central pipeline systems, and monitoring infrastructure. Public supplier materials from companies such as Novair and OXYMAT also position these systems for hospitals, clinics, remote medical sites, and mobile healthcare environments, emphasizing stable oxygen supply, tailored configuration, and compatibility with healthcare infrastructure.

From a development perspective, medical PSA oxygen generators are evolving from conventional hospital oxygen equipment into more integrated solutions built around modular expansion, remote monitoring, integrated cylinder filling, and rapid deployment. Recent WHO technical documents explicitly include PSA, modular PSA, VSA, and VPSA within the broader medical oxygen infrastructure framework, while leading suppliers increasingly emphasize modular architecture, online monitoring, phased expansion, and higher-purity product routes. This indicates that future market competition will be defined less by the standalone generator itself and more by how well suppliers balance system reliability, scalability, digital operations, and lifecycle cost.

This report studies the global Medical PSA Oxygen Generator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Medical PSA Oxygen Generator and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Medical PSA Oxygen Generator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Medical PSA Oxygen Generator total production and demand, 2021-2032, (K Units)

Global Medical PSA Oxygen Generator total production value, 2021-2032, (USD Million)

Global Medical PSA Oxygen Generator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Medical PSA Oxygen Generator consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Medical PSA Oxygen Generator domestic production, consumption, key domestic manufacturers and share

Global Medical PSA Oxygen Generator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Medical PSA Oxygen Generator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Medical PSA Oxygen Generator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Medical PSA Oxygen Generator market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CAIRE, NOVAIR, OXYMAT, Oxywise, PCI Gases, NOXERIOR, SYSADVANCE, Atlas Copco, MVS Engineering, Longfian Scitech, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Medical PSA Oxygen Generator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Medical PSA Oxygen Generator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Medical PSA Oxygen Generator Market, Segmentation by Type:

Plant-room Medical PSA Oxygen System

Skid-mounted Medical PSA Oxygen System

Others

Global Medical PSA Oxygen Generator Market, Segmentation by Oxygen Production Capacity:

Small Medical PSA Oxygen Generator($\leq 10 \text{ Nm}^3/\text{h}$)

Medium Medical PSA Oxygen Generator(10–50 Nm^3/h)

Large Medical PSA Oxygen Generator(>50 Nm^3/h)

Global Medical PSA Oxygen Generator Market, Segmentation by Channel:

Direct Sale

Indirect Sale

Global Medical PSA Oxygen Generator Market, Segmentation by Application:

Hospital

Clinic

Others

Companies Profiled:

CAIRE

NOVAIR

OXYMAT

Oxywise

PCI Gases

NOXERIOR

SYSADVANCE

Atlas Copco

MVS Engineering

Longfian Scitech

CAN GAS Systems

Chengdu Lianbang Medical Technology

Hangzhou Medoxygen Technology

WEGO

OXUS Co., Ltd.

JuvAir

Key Questions Answered:

1. How big is the global Medical PSA Oxygen Generator market?
2. What is the demand of the global Medical PSA Oxygen Generator market?
3. What is the year over year growth of the global Medical PSA Oxygen Generator market?
4. What is the production and production value of the global Medical PSA Oxygen Generator market?
5. Who are the key producers in the global Medical PSA Oxygen Generator market?
6. What are the growth factors driving the market demand?

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