

Global High-pressure Adsorption Dryer Market Growth 2026-2032

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Abstracts

The global High-pressure Adsorption Dryer market size is predicted to grow from US\$ 4706 million in 2025 to US\$ 7557 million in 2032; it is expected to grow at a CAGR of 7.0% from 2026 to 2032.

In 2025, global sales of high-pressure adsorption dryers reached 185,000 units, with an average selling price of US\$26,000. High-pressure adsorption dryers are key post-treatment equipment for high-pressure compressed air and industrial gas systems. They achieve deep dehumidification under high pressure conditions using adsorbents such as alumina or molecular sieves, stably controlling the pressure dew point between -40°C and -70°C. They are widely used in oil and gas, chemical, energy, power, and high-end manufacturing sectors. The main upstream raw materials include alloy steel for pressure vessels, stainless steel, valve components, controllers, adsorbents, and seals. Steel and adsorbents together account for approximately 55% of the material cost, with an average adsorbent consumption of approximately 120–300 kg per unit. The midstream is handled by specialized gas processing equipment manufacturers, who complete system integration and assembly. The global total production capacity is approximately 220,000 units per year. The main downstream suppliers are oil and gas extraction and transportation, chemical plants, industrial gas stations, and semiconductor and new energy materials factories. Downstream consumption is comprised of approximately 45% in oil and gas and chemicals, 25% in energy and electricity, 20% in electronics and high-end manufacturing, and 10% in other industrial sectors. The overall gross profit margin for this product remains between 32% and 38%. Future growth lies in developing towards higher pressure levels, lower energy consumption, and intelligent switching control. Coupled with the upgrading of aging gas systems and the increasing demand for energy security and high industrial reliability, the demand for high-pressure adsorption dryers in high-end industrial gas treatment and

overall system solutions continues to grow, presenting a stable and long-term business opportunity.

United States market for High-pressure Adsorption Dryer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for High-pressure Adsorption Dryer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for High-pressure Adsorption Dryer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key High-pressure Adsorption Dryer players cover Omega Air, Donaldson Company, Inc., Nitroxtec, Berg Kompressoren, Pneumatech, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "High-pressure Adsorption Dryer Industry Forecast" looks at past sales and reviews total world High-pressure Adsorption Dryer sales in 2025, providing a comprehensive analysis by region and market sector of projected High-pressure Adsorption Dryer sales for 2026 through 2032. With High-pressure Adsorption Dryer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High-pressure Adsorption Dryer industry.

This Insight Report provides a comprehensive analysis of the global High-pressure Adsorption Dryer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High-pressure Adsorption Dryer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-pressure Adsorption Dryer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-pressure Adsorption Dryer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High-pressure Adsorption Dryer.

This report presents a comprehensive overview, market shares, and growth opportunities of High-pressure Adsorption Dryer market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Heatless Regeneration

Micro-heat Regeneration

Blow-air Regeneration

Others

Segmentation by Adsorbent Type:

Activated Alumina

Molecular Sieve

Silica Gel

Others

Segmentation by Working Pressure:

Working Pressure: 1.0-4.0 MPa (G)

Working Pressure: 4.0-15.0 MPa (G)

Working Pressure: 15.0-40.0+ MPa (G)

Segmentation by Application:

Oil & Gas

Chemicals

Energy

Electricity

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Omega Air

Donaldson Company, Inc.

Nitroxtec

Berg Kompressoren

Pneumatech

BEKO TECHNOLOGIES

Atlas Copco

LINGYU

Bossmanfilter

Hannemec

RISHENG

SHANLI

SIKALA

HighQ Compressor

OPPAIR

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-pressure Adsorption Dryer market?

What factors are driving High-pressure Adsorption Dryer market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High-pressure Adsorption Dryer market opportunities vary by end market size?

How does High-pressure Adsorption Dryer break out by Type, by Application?

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