

Global High-pressure Adsorption Dryer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High-pressure Adsorption Dryer market size was valued at US\$ 4950 million in 2025 and is forecast to a readjusted size of US\$ 7766 million by 2032 with a CAGR of 6.6% during review period.

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.

This report is a detailed and comprehensive analysis for global High-pressure Adsorption Dryer market. Both quantitative and qualitative analyses are presented by manufacturers, 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 High-pressure Adsorption Dryer market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-pressure Adsorption Dryer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-pressure Adsorption Dryer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-pressure Adsorption Dryer market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 High-pressure Adsorption Dryer

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 High-pressure Adsorption Dryer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Omega Air, Donaldson Company, Inc., Nitroxtec, Berg Kompressoren, Pneumatech, BEKO TECHNOLOGIES, Atlas Copco, LINGYU, Bossmanfilter, Hannemec, etc.

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

Market Segmentation

High-pressure Adsorption Dryer market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Heatless Regeneration

Micro-heat Regeneration

Blow-air Regeneration

Others

Market segment by Adsorbent Type

Activated Alumina

Molecular Sieve

Silica Gel

Others

Market segment 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)

Market segment by Application

Oil & Gas

Chemicals

Energy

Electricity

Others

Major players covered

Omega Air

Donaldson Company, Inc.

Nitroxtec

Berg Kompressoren

Pneumatech

BEKO TECHNOLOGIES

Atlas Copco

LINGYU

Bossmanfilter

Hannemec

RISHENG

SHANLI

SIKALA

HighQ Compressor

OPPAIR

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe High-pressure Adsorption Dryer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-pressure Adsorption Dryer, with

Global High-pressure Adsorption Dryer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to...

price, sales quantity, revenue, and global market share of High-pressure Adsorption Dryer from 2021 to 2026.

Chapter 3, the High-pressure Adsorption Dryer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-pressure Adsorption Dryer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and High-pressure Adsorption Dryer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High-pressure Adsorption Dryer.

Chapter 14 and 15, to describe High-pressure Adsorption Dryer sales channel, distributors, customers, research findings and conclusion.

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