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Global Molecular Sieve Adsorption Unit Market Growth 2026-2032

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Abstracts

The global Molecular Sieve Adsorption Unit market size is predicted to grow from US$ 1996 million in 2025 to US$ 2937 million in 2032; it is expected to grow at a CAGR of 5.7% from 2026 to 2032.

Molecular Sieve Adsorption Unit is an integrated industrial gas purification system built around one or more adsorption vessels filled with molecular sieve adsorbents. The system typically combines adsorption towers, molecular sieve beds, switching valves, piping, regeneration heaters or pressure-reduction systems, cooling and separation components, instrumentation, and automated controls. By exploiting the selective adsorption characteristics of molecular sieves, the unit removes water, carbon dioxide, hydrocarbons, and other trace impurities from process gases and restores adsorption capacity through temperature swing adsorption, pressure swing adsorption, or combined pressure-temperature regeneration. The research scope focuses on industrial packaged or modular adsorption systems used for continuous or cyclic purification of air, natural gas and LNG feed gas, refinery and petrochemical streams, hydrogen and syngas, carbon dioxide, and other industrial process gases. Products are covered across single-tower, twin-tower, and multi-tower configurations, as well as different processing-capacity ranges, with equipment performance primarily determined by feed-gas composition, operating pressure, required outlet purity, cycle design, adsorbent loading, regeneration strategy, and system integration.

Key Findings

Global annual shipments were approximately 1,500 sets in 2025

The global weighted average selling price was approximately US$1.36 million per set in

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2025

Average industry gross margin was approximately 22% in 2025

TSA is the principal technical configuration for deep dehydration and continuous gas purification

Large-capacity multi-tower systems represent the most customized and engineering-intensive product segment

Market Trends

The Molecular Sieve Adsorption Unit market is evolving toward larger processing capacity, deeper purification performance, modular skid construction, lower regeneration energy consumption, and higher automation. Customers are increasingly evaluating equipment not only by initial capital cost but also by outlet moisture stability, adsorbent service life, regeneration gas consumption, switching-valve reliability, pressure drop, and lifecycle operating cost. Twin-tower and multi-tower systems remain central to continuous industrial service, while modularization is shortening site construction and commissioning cycles. Digital control is also becoming more important as manufacturers integrate automated cycle management, temperature and pressure monitoring, alarm logic, remote diagnostics, and condition-based maintenance. For large natural gas, LNG, hydrogen, and CO? projects, the competitive focus is gradually shifting from individual vessel fabrication toward integrated process design, energy optimization, reliability engineering, and long-term operating support.

Market Dynamics

Drivers

Demand is primarily supported by expansion in natural gas processing, LNG pretreatment, industrial gas production, refining and petrochemical processing, hydrogen purification, and CO? treatment. These processes frequently require very low residual moisture or controlled concentrations of carbon dioxide and other impurities before cryogenic separation, compression, liquefaction, transportation, or downstream catalytic processing. Molecular sieve adsorption remains particularly important where conventional separation or drying technologies cannot economically achieve the required purification depth. Growth in large air separation units, gas processing facilities, LNG infrastructure, high-purity hydrogen projects, and carbon-management

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systems therefore continues to create demand for new adsorption packages as well as replacement and revamp opportunities for installed systems.

Restraints

The main constraints are high project-specific engineering requirements, relatively high capital expenditure for large multi-tower systems, regeneration energy consumption, and dependence on reliable switching valves and control systems. Molecular sieve performance can deteriorate because of liquid carryover, heavy hydrocarbons, compressor oil, dust, or other contaminants, increasing replacement costs and reducing cycle efficiency. Large units also require substantial pressure-vessel fabrication capability, code certification, thermal design, and system integration, limiting the number of suppliers capable of executing demanding projects. For customers with moderate purity requirements, competing drying or separation technologies can offer lower initial cost, which may reduce the economic attractiveness of molecular sieve systems in less demanding applications.

Opportunities

Future opportunities are concentrated in high-purity and low-carbon process chains where gas specifications are becoming increasingly stringent. Hydrogen and syngas purification, CO? dehydration before compression, transport or liquefaction, LNG feed-gas pretreatment, and upgrades of aging gas-processing assets offer attractive opportunities for advanced Molecular Sieve Adsorption Units. Manufacturers can also create additional value through lower-energy regeneration designs, improved heat recovery, optimized adsorbent loading, higher-cycle-life valves, compact modular packages, and retrofit solutions that increase existing plant capacity without complete system replacement. The growing installed base also expands recurring demand for adsorbent replacement, valve refurbishment, control-system upgrades, troubleshooting, revamps, and lifecycle services.

Challenges

The industry must balance deeper purification specifications with energy consumption, adsorbent durability, equipment cost, and operating reliability. Feed-gas composition varies significantly between projects, making standardized design difficult and increasing the importance of process simulation, adsorption-cycle optimization, and reference projects. Thermal cycling can impose mechanical stress on vessels, piping, valves, and adsorbent beds, while poor flow distribution may cause premature breakthrough or uneven adsorbent utilization. Suppliers also face long project cycles,

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stringent pressure-vessel and hazardous-area requirements, and customer expectations for extended operating periods between shutdowns. Maintaining engineering expertise while controlling fabrication cost and shortening delivery schedules remains a critical competitive challenge.

Industry Chain Analysis

The upstream industry mainly consists of molecular sieve adsorbents, carbon steel and stainless steel pressure-vessel materials, switching valves, heaters, heat exchangers, coolers, separators, filters, piping components, instruments, analyzers, PLC systems, and structural skid materials. Adsorbent properties such as pore size, adsorption capacity, hydrothermal stability, attrition resistance, and regeneration characteristics directly influence process design and operating performance. Pressure vessels, high-cycle switching valves, and regeneration equipment are also major contributors to equipment cost, particularly in high-pressure and large-capacity installations.

The midstream sector integrates process engineering, adsorption-cycle design, mechanical design, vessel fabrication, skid assembly, piping, instrumentation, control logic, adsorbent loading, factory acceptance testing, and commissioning. Value creation therefore depends heavily on engineering capability rather than simple vessel manufacturing. Downstream customers include air separation plants, natural gas and LNG facilities, refineries, petrochemical complexes, hydrogen and syngas plants, and CO? treatment and liquefaction projects. With an industry average gross margin around the low-20% range, profitability generally varies with project complexity, equipment size, material specification, localization level, engineering content, certification requirements, and the proportion of aftermarket services.

Segment Insights

By technology, Temperature Swing Adsorption is the most broadly applicable configuration for deep dehydration and continuous gas purification because thermal regeneration can restore molecular sieve capacity after adsorption of strongly retained water and other impurities. Pressure Swing Adsorption is more closely associated with rapid pressure-driven adsorption and desorption cycles, while combined Pressure-Temperature Swing Adsorption is used where process conditions require greater flexibility between purification depth, regeneration efficiency, and cycle time. The choice of regeneration method therefore depends primarily on impurity loading, required outlet specification, operating pressure, available regeneration gas, and energy integration.

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By adsorber configuration, twin-tower systems are the typical architecture for continuous service because one tower can remain in adsorption while the other undergoes regeneration. Multi-tower systems are more common in high-capacity or high-availability projects where additional operating flexibility, regeneration scheduling, or redundancy is required, while single-tower systems are more suitable for intermittent or less demanding service. By processing capacity, units below 10,000 Nm?/h are more compatible with standardized and compact packages, the 10,000–50,000 Nm?/h range represents a broad engineered-package segment, and systems above 50,000 Nm?/h typically require more project-specific process design, larger vessels, complex regeneration systems, and customized site integration.

Downstream Market Opportunities

Natural gas and LNG remain important downstream opportunities because deep dehydration is critical before cryogenic processing, liquefaction, and other low-temperature operations. Air separation provides a stable industrial demand base, where molecular sieve pretreatment protects cryogenic equipment by removing water, carbon dioxide, and selected contaminants. Refining and petrochemical applications require adsorption units for various process-gas purification duties, while hydrogen and syngas projects create demand for increasingly high-purity gas streams. CO? treatment and liquefaction is also becoming more important as captured carbon dioxide must often be dehydrated before compression, transportation, injection, or liquefaction. These applications favor suppliers capable of meeting strict outlet specifications while reducing regeneration energy and maintaining high operating availability.

Regional Insights

North America represents one of the most mature markets for Molecular Sieve Adsorption Units, supported by extensive natural gas processing infrastructure, LNG development, and a strong base of modular process-equipment manufacturers. Europe is characterized by high engineering standards, specialized adsorption technologies, and demand from industrial gas, hydrogen, refining, and process industries. Asia-Pacific, particularly China, continues to provide substantial opportunities associated with air separation capacity, LNG infrastructure, petrochemical investment, industrial gas expansion, and hydrogen-related projects. The Middle East is an important project-driven market because of large-scale natural gas processing, LNG, refining, and petrochemical developments.

Regional competition also differs by project scale. North American suppliers have strong

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capabilities in standardized and modular gas-processing packages, European suppliers are prominent in highly engineered and technology-intensive systems, while Asian manufacturers increasingly compete through localized fabrication, shorter delivery chains, and expanding process-engineering capability. In large gas and LNG projects, local fabrication requirements, pressure-vessel certification, service accessibility, and project execution experience can be as important as equipment price.

Competitive Landscape Analysis

The Molecular Sieve Adsorption Unit market is characterized by a combination of global process-equipment groups, gas-processing system integrators, and specialized modular-package manufacturers. Competition is relatively fragmented because equipment specifications vary substantially by gas composition, pressure, flow rate, outlet purity, regeneration method, vessel configuration, and customer engineering standards. Large integrated suppliers generally compete through process design capability, international project execution, code compliance, and lifecycle services, while specialized manufacturers often compete through customization, fabrication flexibility, shorter delivery times, and competitive project cost. Key competitive barriers include proven adsorption-cycle design, reliable high-cycle switching systems, pressure-vessel fabrication and certification, thermal integration, process guarantees, factory testing capability, and references in comparable operating conditions. As customers place greater emphasis on lifecycle economics, aftermarket services, adsorbent management, energy optimization, and retrofit capability are becoming increasingly important elements of supplier differentiation.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Molecular Sieve Adsorption Unit 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

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Molecular Sieve Adsorption Unit portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Molecular Sieve Adsorption Unit market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Molecular Sieve Adsorption Unit 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 Molecular Sieve Adsorption Unit.

This report presents a comprehensive overview, market shares, and growth opportunities of Molecular Sieve Adsorption Unit market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Temperature Swing Adsorption (TSA)

Pressure Swing Adsorption (PSA)

Pressure-Temperature Swing Adsorption (PTSA)

Segmentation by Adsorber Configuration:

Single-Tower Type

Twin-Tower Type

Multi-Tower Type

Segmentation by Processing Capacity:

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?10,000 Nm?/h

?10,000–50,000 Nm?/h

?50,000 Nm?/h

Segmentation by Application:

Air Separation

Natural Gas and LNG

Refining and Petrochemicals

Hydrogen and Syngas

CO? Treatment and Liquefaction

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

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- 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.

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QB Johnson Manufacturing

TransTech Fabrication

Opero Energy

BCCK

Pioneer Energy

Cutter USA

SPEC Oil & Gas Technologies

PSB Industries

ALCO Energy Solutions

Propak Systems

Enerflex

Thermo Design Engineering

5Blue Process Equipment

Pietro Fiorentini

FB Group

Veolia Water Technologies & Solutions

Crescent Engineering

Multitex Filtration Engineers

BGR Tech

Praj Industries

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IBHA Process Technologies

Yantai Jereh Oilfield Services Group

Shandong Kerui Petroleum Equipment

Jiangsu Ludy Petrochemical Equipment

Zhejiang Yipu Energy Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Molecular Sieve Adsorption Unit market?

What factors are driving Molecular Sieve Adsorption Unit market growth, globally and by region?

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

How do Molecular Sieve Adsorption Unit market opportunities vary by end market size?

How does Molecular Sieve Adsorption Unit break out by Type, by Application?

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Contents

1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Molecular Sieve Adsorption Unit Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Molecular Sieve Adsorption Unit by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Molecular Sieve Adsorption Unit by Country/Region, 2021, 2025 & 2032
2.2 Molecular Sieve Adsorption Unit Segment by Type
  2.2.1 Temperature Swing Adsorption (TSA)
  2.2.2 Pressure Swing Adsorption (PSA)
  2.2.3 Pressure-Temperature Swing Adsorption (PTSA)
  2.2.4 Molecular Sieve Adsorption Unit Sales by Type
    2.2.4.1 Global Molecular Sieve Adsorption Unit Sales Market Share by Type (2021-2026)
    2.2.4.2 Global Molecular Sieve Adsorption Unit Revenue and Market Share by Type (2021-2026)
    2.2.4.3 Global Molecular Sieve Adsorption Unit Sale Price by Type (2021-2026)
2.3 Molecular Sieve Adsorption Unit Segment by Adsorber Configuration
  2.3.1 Single-Tower Type
  2.3.2 Twin-Tower Type
  2.3.3 Multi-Tower Type
  2.3.4 Molecular Sieve Adsorption Unit Sales by Adsorber Configuration
    2.3.4.1 Global Molecular Sieve Adsorption Unit Sales Market Share by Adsorber Configuration (2021-2026)
    2.3.4.2 Global Molecular Sieve Adsorption Unit Revenue and Market Share by

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Adsorber Configuration (2021-2026)
2.3.4.3 Global Molecular Sieve Adsorption Unit Sale Price by Adsorber Configuration (2021-2026)
2.4 Molecular Sieve Adsorption Unit Segment by Processing Capacity
2.4.1 ?10,000 Nm?/h
2.4.2 ?10,000–50,000 Nm?/h
2.4.3 ?50,000 Nm?/h
2.4.4 Molecular Sieve Adsorption Unit Sales by Processing Capacity
2.4.4.1 Global Molecular Sieve Adsorption Unit Sales Market Share by Processing Capacity (2021-2026)
2.4.4.2 Global Molecular Sieve Adsorption Unit Revenue and Market Share by Processing Capacity (2021-2026)
2.4.4.3 Global Molecular Sieve Adsorption Unit Sale Price by Processing Capacity (2021-2026)
2.5 Molecular Sieve Adsorption Unit Segment by Application
2.5.1 Air Separation
2.5.2 Natural Gas and LNG
2.5.3 Refining and Petrochemicals
2.5.4 Hydrogen and Syngas
2.5.5 CO? Treatment and Liquefaction
2.5.6 Other
2.5.7 Molecular Sieve Adsorption Unit Sales by Application
2.5.7.1 Global Molecular Sieve Adsorption Unit Sale Market Share by Application (2021-2026)
2.5.7.2 Global Molecular Sieve Adsorption Unit Revenue and Market Share by Application (2021-2026)
2.5.7.3 Global Molecular Sieve Adsorption Unit Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Molecular Sieve Adsorption Unit Breakdown Data by Company
3.1.1 Global Molecular Sieve Adsorption Unit Annual Sales by Company (2021-2026)
3.1.2 Global Molecular Sieve Adsorption Unit Sales Market Share by Company (2021-2026)
3.2 Global Molecular Sieve Adsorption Unit Annual Revenue by Company (2021-2026)
3.2.1 Global Molecular Sieve Adsorption Unit Revenue by Company (2021-2026)
3.2.2 Global Molecular Sieve Adsorption Unit Revenue Market Share by Company (2021-2026)
3.3 Global Molecular Sieve Adsorption Unit Sale Price by Company

+357 96 030922
info@marketpublishers.com

3.4 Key Manufacturers Molecular Sieve Adsorption Unit Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Molecular Sieve Adsorption Unit Product Location Distribution
3.4.2 Players Molecular Sieve Adsorption Unit Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR MOLECULAR SIEVE ADSORPTION UNIT BY GEOGRAPHIC REGION

4.1 World Historic Molecular Sieve Adsorption Unit Market Size by Geographic Region (2021-2026)
4.1.1 Global Molecular Sieve Adsorption Unit Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Molecular Sieve Adsorption Unit Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Molecular Sieve Adsorption Unit Market Size by Country/Region (2021-2026)
4.2.1 Global Molecular Sieve Adsorption Unit Annual Sales by Country/Region (2021-2026)
4.2.2 Global Molecular Sieve Adsorption Unit Annual Revenue by Country/Region (2021-2026)
4.3 Americas Molecular Sieve Adsorption Unit Sales Growth
4.4 APAC Molecular Sieve Adsorption Unit Sales Growth
4.5 Europe Molecular Sieve Adsorption Unit Sales Growth
4.6 Middle East & Africa Molecular Sieve Adsorption Unit Sales Growth

5 AMERICAS

5.1 Americas Molecular Sieve Adsorption Unit Sales by Country
5.1.1 Americas Molecular Sieve Adsorption Unit Sales by Country (2021-2026)
5.1.2 Americas Molecular Sieve Adsorption Unit Revenue by Country (2021-2026)
5.2 Americas Molecular Sieve Adsorption Unit Sales by Type (2021-2026)
5.3 Americas Molecular Sieve Adsorption Unit Sales by Application (2021-2026)
5.4 United States

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5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Molecular Sieve Adsorption Unit Sales by Region
  6.1.1 APAC Molecular Sieve Adsorption Unit Sales by Region (2021-2026)
  6.1.2 APAC Molecular Sieve Adsorption Unit Revenue by Region (2021-2026)
6.2 APAC Molecular Sieve Adsorption Unit Sales by Type (2021-2026)
6.3 APAC Molecular Sieve Adsorption Unit Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

7 EUROPE

7.1 Europe Molecular Sieve Adsorption Unit by Country
  7.1.1 Europe Molecular Sieve Adsorption Unit Sales by Country (2021-2026)
  7.1.2 Europe Molecular Sieve Adsorption Unit Revenue by Country (2021-2026)
7.2 Europe Molecular Sieve Adsorption Unit Sales by Type (2021-2026)
7.3 Europe Molecular Sieve Adsorption Unit Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Molecular Sieve Adsorption Unit by Country
  8.1.1 Middle East & Africa Molecular Sieve Adsorption Unit Sales by Country (2021-2026)
  8.1.2 Middle East & Africa Molecular Sieve Adsorption Unit Revenue by Country (2021-2026)

+357 96 030922
info@marketpublishers.com

8.2 Middle East & Africa Molecular Sieve Adsorption Unit Sales by Type (2021-2026)
8.3 Middle East & Africa Molecular Sieve Adsorption Unit Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Molecular Sieve Adsorption Unit
10.3 Manufacturing Process Analysis of Molecular Sieve Adsorption Unit
10.4 Industry Chain Structure of Molecular Sieve Adsorption Unit

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Molecular Sieve Adsorption Unit Distributors
11.3 Molecular Sieve Adsorption Unit Customer

12 WORLD FORECAST REVIEW FOR MOLECULAR SIEVE ADSORPTION UNIT BY GEOGRAPHIC REGION

12.1 Global Molecular Sieve Adsorption Unit Market Size Forecast by Region
  12.1.1 Global Molecular Sieve Adsorption Unit Forecast by Region (2027-2032)
  12.1.2 Global Molecular Sieve Adsorption Unit Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)

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12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Molecular Sieve Adsorption Unit Forecast by Type (2027-2032)
12.7 Global Molecular Sieve Adsorption Unit Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 QB Johnson Manufacturing
13.1.1 QB Johnson Manufacturing Company Information
13.1.2 QB Johnson Manufacturing Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.1.3 QB Johnson Manufacturing Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 QB Johnson Manufacturing Main Business Overview
13.1.5 QB Johnson Manufacturing Latest Developments
13.2 TransTech Fabrication
13.2.1 TransTech Fabrication Company Information
13.2.2 TransTech Fabrication Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.2.3 TransTech Fabrication Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 TransTech Fabrication Main Business Overview
13.2.5 TransTech Fabrication Latest Developments
13.3 Opero Energy
13.3.1 Opero Energy Company Information
13.3.2 Opero Energy Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.3.3 Opero Energy Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Opero Energy Main Business Overview
13.3.5 Opero Energy Latest Developments
13.4 BCCK
13.4.1 BCCK Company Information
13.4.2 BCCK Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.4.3 BCCK Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 BCCK Main Business Overview
13.4.5 BCCK Latest Developments
13.5 Pioneer Energy

+357 96 030922
info@marketpublishers.com

13.5.1 Pioneer Energy Company Information
13.5.2 Pioneer Energy Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.5.3 Pioneer Energy Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Pioneer Energy Main Business Overview
13.5.5 Pioneer Energy Latest Developments
13.6 Cutter USA
13.6.1 Cutter USA Company Information
13.6.2 Cutter USA Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.6.3 Cutter USA Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Cutter USA Main Business Overview
13.6.5 Cutter USA Latest Developments
13.7 SPEC Oil & Gas Technologies
13.7.1 SPEC Oil & Gas Technologies Company Information
13.7.2 SPEC Oil & Gas Technologies Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.7.3 SPEC Oil & Gas Technologies Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 SPEC Oil & Gas Technologies Main Business Overview
13.7.5 SPEC Oil & Gas Technologies Latest Developments
13.8 PSB Industries
13.8.1 PSB Industries Company Information
13.8.2 PSB Industries Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.8.3 PSB Industries Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 PSB Industries Main Business Overview
13.8.5 PSB Industries Latest Developments
13.9 ALCO Energy Solutions
13.9.1 ALCO Energy Solutions Company Information
13.9.2 ALCO Energy Solutions Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.9.3 ALCO Energy Solutions Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 ALCO Energy Solutions Main Business Overview
13.9.5 ALCO Energy Solutions Latest Developments

+357 96 030922
info@marketpublishers.com

13.10 Propak Systems
13.10.1 Propak Systems Company Information
13.10.2 Propak Systems Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.10.3 Propak Systems Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Propak Systems Main Business Overview
13.10.5 Propak Systems Latest Developments
13.11 Enerflex
13.11.1 Enerflex Company Information
13.11.2 Enerflex Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.11.3 Enerflex Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 Enerflex Main Business Overview
13.11.5 Enerflex Latest Developments
13.12 Thermo Design Engineering
13.12.1 Thermo Design Engineering Company Information
13.12.2 Thermo Design Engineering Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.12.3 Thermo Design Engineering Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Thermo Design Engineering Main Business Overview
13.12.5 Thermo Design Engineering Latest Developments
13.13 5Blue Process Equipment
13.13.1 5Blue Process Equipment Company Information
13.13.2 5Blue Process Equipment Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.13.3 5Blue Process Equipment Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.13.4 5Blue Process Equipment Main Business Overview
13.13.5 5Blue Process Equipment Latest Developments
13.14 Pietro Fiorentini
13.14.1 Pietro Fiorentini Company Information
13.14.2 Pietro Fiorentini Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.14.3 Pietro Fiorentini Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.14.4 Pietro Fiorentini Main Business Overview
13.14.5 Pietro Fiorentini Latest Developments

+357 96 030922
info@marketpublishers.com

13.15 FB Group
13.15.1 FB Group Company Information
13.15.2 FB Group Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.15.3 FB Group Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.15.4 FB Group Main Business Overview
13.15.5 FB Group Latest Developments
13.16 Veolia Water Technologies & Solutions
13.16.1 Veolia Water Technologies & Solutions Company Information
13.16.2 Veolia Water Technologies & Solutions Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.16.3 Veolia Water Technologies & Solutions Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.16.4 Veolia Water Technologies & Solutions Main Business Overview
13.16.5 Veolia Water Technologies & Solutions Latest Developments
13.17 Crescent Engineering
13.17.1 Crescent Engineering Company Information
13.17.2 Crescent Engineering Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.17.3 Crescent Engineering Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.17.4 Crescent Engineering Main Business Overview
13.17.5 Crescent Engineering Latest Developments
13.18 Multitex Filtration Engineers
13.18.1 Multitex Filtration Engineers Company Information
13.18.2 Multitex Filtration Engineers Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.18.3 Multitex Filtration Engineers Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.18.4 Multitex Filtration Engineers Main Business Overview
13.18.5 Multitex Filtration Engineers Latest Developments
13.19 BGR Tech
13.19.1 BGR Tech Company Information
13.19.2 BGR Tech Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.19.3 BGR Tech Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.19.4 BGR Tech Main Business Overview

+357 96 030922
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13.19.5 BGR Tech Latest Developments
13.20 Praj Industries
13.20.1 Praj Industries Company Information
13.20.2 Praj Industries Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.20.3 Praj Industries Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.20.4 Praj Industries Main Business Overview
13.20.5 Praj Industries Latest Developments
13.21 IBHA Process Technologies
13.21.1 IBHA Process Technologies Company Information
13.21.2 IBHA Process Technologies Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.21.3 IBHA Process Technologies Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.21.4 IBHA Process Technologies Main Business Overview
13.21.5 IBHA Process Technologies Latest Developments
13.22 Yantai Jereh Oilfield Services Group
13.22.1 Yantai Jereh Oilfield Services Group Company Information
13.22.2 Yantai Jereh Oilfield Services Group Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.22.3 Yantai Jereh Oilfield Services Group Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.22.4 Yantai Jereh Oilfield Services Group Main Business Overview
13.22.5 Yantai Jereh Oilfield Services Group Latest Developments
13.23 Shandong Kerui Petroleum Equipment
13.23.1 Shandong Kerui Petroleum Equipment Company Information
13.23.2 Shandong Kerui Petroleum Equipment Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.23.3 Shandong Kerui Petroleum Equipment Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.23.4 Shandong Kerui Petroleum Equipment Main Business Overview
13.23.5 Shandong Kerui Petroleum Equipment Latest Developments
13.24 Jiangsu Ludy Petrochemical Equipment
13.24.1 Jiangsu Ludy Petrochemical Equipment Company Information
13.24.2 Jiangsu Ludy Petrochemical Equipment Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.24.3 Jiangsu Ludy Petrochemical Equipment Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)

+357 96 030922
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13.24.4 Jiangsu Ludy Petrochemical Equipment Main Business Overview
13.24.5 Jiangsu Ludy Petrochemical Equipment Latest Developments
13.25 Zhejiang Yipu Energy Technology
13.25.1 Zhejiang Yipu Energy Technology Company Information
13.25.2 Zhejiang Yipu Energy Technology Molecular Sieve Adsorption Unit Product Portfolios and Specifications
13.25.3 Zhejiang Yipu Energy Technology Molecular Sieve Adsorption Unit Sales, Revenue, Price and Gross Margin (2021-2026)
13.25.4 Zhejiang Yipu Energy Technology Main Business Overview
13.25.5 Zhejiang Yipu Energy Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
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List Of Tables

LIST OF TABLES

Table 1. Molecular Sieve Adsorption Unit Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Molecular Sieve Adsorption Unit Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Temperature Swing Adsorption (TSA)
Table 4. Major Players of Pressure Swing Adsorption (PSA)
Table 5. Major Players of Pressure-Temperature Swing Adsorption (PTSA)
Table 6. Global Molecular Sieve Adsorption Unit Sales by Type (2021-2026) & (Units)
Table 7. Global Molecular Sieve Adsorption Unit Sales Market Share by Type (2021-2026)
Table 8. Global Molecular Sieve Adsorption Unit Revenue by Type (2021-2026) & ($ million)
Table 9. Global Molecular Sieve Adsorption Unit Revenue Market Share by Type (2021-2026)
Table 10. Global Molecular Sieve Adsorption Unit Sale Price by Type (2021-2026) & (US$/Unit)
Table 11. Major Players of Single-Tower Type
Table 12. Major Players of Twin-Tower Type
Table 13. Major Players of Multi-Tower Type
Table 14. Global Molecular Sieve Adsorption Unit Sales by Adsorber Configuration (2021-2026) & (Units)
Table 15. Global Molecular Sieve Adsorption Unit Sales Market Share by Adsorber Configuration (2021-2026)
Table 16. Global Molecular Sieve Adsorption Unit Revenue by Adsorber Configuration (2021-2026) & ($ million)
Table 17. Global Molecular Sieve Adsorption Unit Revenue Market Share by Adsorber Configuration (2021-2026)
Table 18. Global Molecular Sieve Adsorption Unit Sale Price by Adsorber Configuration (2021-2026) & (US$/Unit)
Table 19. Major Players of ?10,000 Nm?/h
Table 20. Major Players of ?10,000–50,000 Nm?/h
Table 21. Major Players of ?50,000 Nm?/h
Table 22. Global Molecular Sieve Adsorption Unit Sales by Processing Capacity (2021-2026) & (Units)
Table 23. Global Molecular Sieve Adsorption Unit Sales Market Share by Processing

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Capacity (2021-2026)
Table 24. Global Molecular Sieve Adsorption Unit Revenue by Processing Capacity (2021-2026) & ($ million)
Table 25. Global Molecular Sieve Adsorption Unit Revenue Market Share by Processing Capacity (2021-2026)
Table 26. Global Molecular Sieve Adsorption Unit Sale Price by Processing Capacity (2021-2026) & (US$/Unit)
Table 27. Global Molecular Sieve Adsorption Unit Sale by Application (2021-2026) & (Units)
Table 28. Global Molecular Sieve Adsorption Unit Sale Market Share by Application (2021-2026)
Table 29. Global Molecular Sieve Adsorption Unit Revenue by Application (2021-2026) & ($ million)
Table 30. Global Molecular Sieve Adsorption Unit Revenue Market Share by Application (2021-2026)
Table 31. Global Molecular Sieve Adsorption Unit Sale Price by Application (2021-2026) & (US$/Unit)
Table 32. Global Molecular Sieve Adsorption Unit Sales by Company (2021-2026) & (Units)
Table 33. Global Molecular Sieve Adsorption Unit Sales Market Share by Company (2021-2026)
Table 34. Global Molecular Sieve Adsorption Unit Revenue by Company (2021-2026) & ($ millions)
Table 35. Global Molecular Sieve Adsorption Unit Revenue Market Share by Company (2021-2026)
Table 36. Global Molecular Sieve Adsorption Unit Sale Price by Company (2021-2026) & (US$/Unit)
Table 37. Key Manufacturers Molecular Sieve Adsorption Unit Producing Area Distribution and Sales Area
Table 38. Players Molecular Sieve Adsorption Unit Products Offered
Table 39. Molecular Sieve Adsorption Unit Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 40. New Products and Potential Entrants
Table 41. Market M&A Activity & Strategy
Table 42. Global Molecular Sieve Adsorption Unit Sales by Geographic Region (2021-2026) & (Units)
Table 43. Global Molecular Sieve Adsorption Unit Sales Market Share Geographic Region (2021-2026)
Table 44. Global Molecular Sieve Adsorption Unit Revenue by Geographic Region

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(2021-2026) & ($ millions)
Table 45. Global Molecular Sieve Adsorption Unit Revenue Market Share by Geographic Region (2021-2026)
Table 46. Global Molecular Sieve Adsorption Unit Sales by Country/Region (2021-2026) & (Units)
Table 47. Global Molecular Sieve Adsorption Unit Sales Market Share by Country/Region (2021-2026)
Table 48. Global Molecular Sieve Adsorption Unit Revenue by Country/Region (2021-2026) & ($ millions)
Table 49. Global Molecular Sieve Adsorption Unit Revenue Market Share by Country/Region (2021-2026)
Table 50. Americas Molecular Sieve Adsorption Unit Sales by Country (2021-2026) & (Units)
Table 51. Americas Molecular Sieve Adsorption Unit Sales Market Share by Country (2021-2026)
Table 52. Americas Molecular Sieve Adsorption Unit Revenue by Country (2021-2026) & ($ millions)
Table 53. Americas Molecular Sieve Adsorption Unit Sales by Type (2021-2026) & (Units)
Table 54. Americas Molecular Sieve Adsorption Unit Sales by Application (2021-2026) & (Units)
Table 55. APAC Molecular Sieve Adsorption Unit Sales by Region (2021-2026) & (Units)
Table 56. APAC Molecular Sieve Adsorption Unit Sales Market Share by Region (2021-2026)
Table 57. APAC Molecular Sieve Adsorption Unit Revenue by Region (2021-2026) & ($ millions)
Table 58. APAC Molecular Sieve Adsorption Unit Sales by Type (2021-2026) & (Units)
Table 59. APAC Molecular Sieve Adsorption Unit Sales by Application (2021-2026) & (Units)
Table 60. Europe Molecular Sieve Adsorption Unit Sales by Country (2021-2026) & (Units)
Table 61. Europe Molecular Sieve Adsorption Unit Revenue by Country (2021-2026) & ($ millions)
Table 62. Europe Molecular Sieve Adsorption Unit Sales by Type (2021-2026) & (Units)
Table 63. Europe Molecular Sieve Adsorption Unit Sales by Application (2021-2026) & (Units)
Table 64. Middle East & Africa Molecular Sieve Adsorption Unit Sales by Country (2021-2026) & (Units)

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Table 65. Middle East & Africa Molecular Sieve Adsorption Unit Revenue Market Share by Country (2021-2026)
Table 66. Middle East & Africa Molecular Sieve Adsorption Unit Sales by Type (2021-2026) & (Units)
Table 67. Middle East & Africa Molecular Sieve Adsorption Unit Sales by Application (2021-2026) & (Units)
Table 68. Key Market Drivers & Growth Opportunities of Molecular Sieve Adsorption Unit
Table 69. Key Market Challenges & Risks of Molecular Sieve Adsorption Unit
Table 70. Key Industry Trends of Molecular Sieve Adsorption Unit
Table 71. Molecular Sieve Adsorption Unit Raw Material
Table 72. Key Suppliers of Raw Materials
Table 73. Molecular Sieve Adsorption Unit Distributors List
Table 74. Molecular Sieve Adsorption Unit Customer List
Table 75. Global Molecular Sieve Adsorption Unit Sales Forecast by Region (2027-2032) & (Units)
Table 76. Global Molecular Sieve Adsorption Unit Revenue Forecast by Region (2027-2032) & ($ millions)
Table 77. Americas Molecular Sieve Adsorption Unit Sales Forecast by Country (2027-2032) & (Units)
Table 78. Americas Molecular Sieve Adsorption Unit Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 79. APAC Molecular Sieve Adsorption Unit Sales Forecast by Region (2027-2032) & (Units)
Table 80. APAC Molecular Sieve Adsorption Unit Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 81. Europe Molecular Sieve Adsorption Unit Sales Forecast by Country (2027-2032) & (Units)
Table 82. Europe Molecular Sieve Adsorption Unit Revenue Forecast by Country (2027-2032) & ($ millions)
Table 83. Middle East & Africa Molecular Sieve Adsorption Unit Sales Forecast by Country (2027-2032) & (Units)
Table 84. Middle East & Africa Molecular Sieve Adsorption Unit Revenue Forecast by Country (2027-2032) & ($ millions)
Table 85. Global Molecular Sieve Adsorption Unit Sales Forecast by Type (2027-2032) & (Units)
Table 86. Global Molecular Sieve Adsorption Unit Revenue Forecast by Type (2027-2032) & ($ millions)
Table 87. Global Molecular Sieve Adsorption Unit Sales Forecast by Application

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(2027-2032) & (Units)
Table 88. Global Molecular Sieve Adsorption Unit Revenue Forecast by Application (2027-2032) & ($ millions)
Table 89. QB Johnson Manufacturing Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 90. QB Johnson Manufacturing Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 91. QB Johnson Manufacturing Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 92. QB Johnson Manufacturing Main Business
Table 93. QB Johnson Manufacturing Latest Developments
Table 94. TransTech Fabrication Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 95. TransTech Fabrication Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 96. TransTech Fabrication Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 97. TransTech Fabrication Main Business
Table 98. TransTech Fabrication Latest Developments
Table 99. Opero Energy Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 100. Opero Energy Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 101. Opero Energy Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 102. Opero Energy Main Business
Table 103. Opero Energy Latest Developments
Table 104. BCCK Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 105. BCCK Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 106. BCCK Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 107. BCCK Main Business
Table 108. BCCK Latest Developments
Table 109. Pioneer Energy Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 110. Pioneer Energy Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 111. Pioneer Energy Molecular Sieve Adsorption Unit Sales (Units), Revenue ($

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Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 112. Pioneer Energy Main Business
Table 113. Pioneer Energy Latest Developments
Table 114. Cutter USA Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 115. Cutter USA Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 116. Cutter USA Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 117. Cutter USA Main Business
Table 118. Cutter USA Latest Developments
Table 119. SPEC Oil & Gas Technologies Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 120. SPEC Oil & Gas Technologies Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 121. SPEC Oil & Gas Technologies Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 122. SPEC Oil & Gas Technologies Main Business
Table 123. SPEC Oil & Gas Technologies Latest Developments
Table 124. PSB Industries Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 125. PSB Industries Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 126. PSB Industries Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 127. PSB Industries Main Business
Table 128. PSB Industries Latest Developments
Table 129. ALCO Energy Solutions Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 130. ALCO Energy Solutions Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 131. ALCO Energy Solutions Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 132. ALCO Energy Solutions Main Business
Table 133. ALCO Energy Solutions Latest Developments
Table 134. Propak Systems Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 135. Propak Systems Molecular Sieve Adsorption Unit Product Portfolios and Specifications

+357 96 030922
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Table 136. Propak Systems Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 137. Propak Systems Main Business
Table 138. Propak Systems Latest Developments
Table 139. Enerflex Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 140. Enerflex Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 141. Enerflex Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 142. Enerflex Main Business
Table 143. Enerflex Latest Developments
Table 144. Thermo Design Engineering Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 145. Thermo Design Engineering Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 146. Thermo Design Engineering Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 147. Thermo Design Engineering Main Business
Table 148. Thermo Design Engineering Latest Developments
Table 149. 5Blue Process Equipment Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 150. 5Blue Process Equipment Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 151. 5Blue Process Equipment Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 152. 5Blue Process Equipment Main Business
Table 153. 5Blue Process Equipment Latest Developments
Table 154. Pietro Fiorentini Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 155. Pietro Fiorentini Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 156. Pietro Fiorentini Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 157. Pietro Fiorentini Main Business
Table 158. Pietro Fiorentini Latest Developments
Table 159. FB Group Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 160. FB Group Molecular Sieve Adsorption Unit Product Portfolios and

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Specifications
Table 161. FB Group Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 162. FB Group Main Business
Table 163. FB Group Latest Developments
Table 164. Veolia Water Technologies & Solutions Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 165. Veolia Water Technologies & Solutions Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 166. Veolia Water Technologies & Solutions Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 167. Veolia Water Technologies & Solutions Main Business
Table 168. Veolia Water Technologies & Solutions Latest Developments
Table 169. Crescent Engineering Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 170. Crescent Engineering Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 171. Crescent Engineering Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 172. Crescent Engineering Main Business
Table 173. Crescent Engineering Latest Developments
Table 174. Multitex Filtration Engineers Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 175. Multitex Filtration Engineers Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 176. Multitex Filtration Engineers Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 177. Multitex Filtration Engineers Main Business
Table 178. Multitex Filtration Engineers Latest Developments
Table 179. BGR Tech Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 180. BGR Tech Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 181. BGR Tech Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 182. BGR Tech Main Business
Table 183. BGR Tech Latest Developments
Table 184. Praj Industries Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors

+357 96 030922
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Table 185. Praj Industries Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 186. Praj Industries Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 187. Praj Industries Main Business
Table 188. Praj Industries Latest Developments
Table 189. IBHA Process Technologies Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 190. IBHA Process Technologies Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 191. IBHA Process Technologies Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 192. IBHA Process Technologies Main Business
Table 193. IBHA Process Technologies Latest Developments
Table 194. Yantai Jereh Oilfield Services Group Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 195. Yantai Jereh Oilfield Services Group Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 196. Yantai Jereh Oilfield Services Group Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 197. Yantai Jereh Oilfield Services Group Main Business
Table 198. Yantai Jereh Oilfield Services Group Latest Developments
Table 199. Shandong Kerui Petroleum Equipment Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 200. Shandong Kerui Petroleum Equipment Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 201. Shandong Kerui Petroleum Equipment Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 202. Shandong Kerui Petroleum Equipment Main Business
Table 203. Shandong Kerui Petroleum Equipment Latest Developments
Table 204. Jiangsu Ludy Petrochemical Equipment Basic Information, Molecular Sieve Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 205. Jiangsu Ludy Petrochemical Equipment Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 206. Jiangsu Ludy Petrochemical Equipment Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 207. Jiangsu Ludy Petrochemical Equipment Main Business
Table 208. Jiangsu Ludy Petrochemical Equipment Latest Developments
Table 209. Zhejiang Yipu Energy Technology Basic Information, Molecular Sieve

+357 96 030922
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Adsorption Unit Manufacturing Base, Sales Area and Its Competitors
Table 210. Zhejiang Yipu Energy Technology Molecular Sieve Adsorption Unit Product Portfolios and Specifications
Table 211. Zhejiang Yipu Energy Technology Molecular Sieve Adsorption Unit Sales (Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 212. Zhejiang Yipu Energy Technology Main Business
Table 213. Zhejiang Yipu Energy Technology Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Molecular Sieve Adsorption Unit
Figure 2. Molecular Sieve Adsorption Unit Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Molecular Sieve Adsorption Unit Sales Growth Rate 2021-2032 (Units)
Figure 7. Global Molecular Sieve Adsorption Unit Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Molecular Sieve Adsorption Unit Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Molecular Sieve Adsorption Unit Sales Market Share by Country/Region (2025)
Figure 10. Molecular Sieve Adsorption Unit Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Temperature Swing Adsorption (TSA)
Figure 12. Product Picture of Pressure Swing Adsorption (PSA)
Figure 13. Product Picture of Pressure-Temperature Swing Adsorption (PTSA)
Figure 14. Global Molecular Sieve Adsorption Unit Sales Market Share by Type in 2026
Figure 15. Global Molecular Sieve Adsorption Unit Revenue Market Share by Type (2021-2026)
Figure 16. Product Picture of Single-Tower Type
Figure 17. Product Picture of Twin-Tower Type
Figure 18. Product Picture of Multi-Tower Type
Figure 19. Global Molecular Sieve Adsorption Unit Sales Market Share by Adsorber Configuration in 2026
Figure 20. Global Molecular Sieve Adsorption Unit Revenue Market Share by Adsorber Configuration (2021-2026)
Figure 21. Product Picture of ?10,000 Nm?/h
Figure 22. Product Picture of ?10,000–50,000 Nm?/h
Figure 23. Product Picture of ?50,000 Nm?/h
Figure 24. Global Molecular Sieve Adsorption Unit Sales Market Share by Processing Capacity in 2026
Figure 25. Global Molecular Sieve Adsorption Unit Revenue Market Share by Processing Capacity (2021-2026)
Figure 26. Molecular Sieve Adsorption Unit Consumed in Air Separation

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Figure 27. Global Molecular Sieve Adsorption Unit Market: Air Separation (2021-2026) & (Units)
Figure 28. Molecular Sieve Adsorption Unit Consumed in Natural Gas and LNG
Figure 29. Global Molecular Sieve Adsorption Unit Market: Natural Gas and LNG (2021-2026) & (Units)
Figure 30. Molecular Sieve Adsorption Unit Consumed in Refining and Petrochemicals
Figure 31. Global Molecular Sieve Adsorption Unit Market: Refining and Petrochemicals (2021-2026) & (Units)
Figure 32. Molecular Sieve Adsorption Unit Consumed in Hydrogen and Syngas
Figure 33. Global Molecular Sieve Adsorption Unit Market: Hydrogen and Syngas (2021-2026) & (Units)
Figure 34. Molecular Sieve Adsorption Unit Consumed in CO? Treatment and Liquefaction
Figure 35. Global Molecular Sieve Adsorption Unit Market: CO? Treatment and Liquefaction (2021-2026) & (Units)
Figure 36. Molecular Sieve Adsorption Unit Consumed in Other
Figure 37. Global Molecular Sieve Adsorption Unit Market: Other (2021-2026) & (Units)
Figure 38. Global Molecular Sieve Adsorption Unit Sale Market Share by Application (2025)
Figure 39. Global Molecular Sieve Adsorption Unit Revenue Market Share by Application in 2025
Figure 40. Molecular Sieve Adsorption Unit Sales by Company in 2025 (Units)
Figure 41. Global Molecular Sieve Adsorption Unit Sales Market Share by Company in 2025
Figure 42. Molecular Sieve Adsorption Unit Revenue by Company in 2025 ($ millions)
Figure 43. Global Molecular Sieve Adsorption Unit Revenue Market Share by Company in 2025
Figure 44. Global Molecular Sieve Adsorption Unit Sales Market Share by Geographic Region (2021-2026)
Figure 45. Global Molecular Sieve Adsorption Unit Revenue Market Share by Geographic Region in 2025
Figure 46. Americas Molecular Sieve Adsorption Unit Sales 2021-2026 (Units)
Figure 47. Americas Molecular Sieve Adsorption Unit Revenue 2021-2026 ($ millions)
Figure 48. APAC Molecular Sieve Adsorption Unit Sales 2021-2026 (Units)
Figure 49. APAC Molecular Sieve Adsorption Unit Revenue 2021-2026 ($ millions)
Figure 50. Europe Molecular Sieve Adsorption Unit Sales 2021-2026 (Units)
Figure 51. Europe Molecular Sieve Adsorption Unit Revenue 2021-2026 ($ millions)
Figure 52. Middle East & Africa Molecular Sieve Adsorption Unit Sales 2021-2026 (Units)

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Figure 53. Middle East & Africa Molecular Sieve Adsorption Unit Revenue 2021-2026 ($ millions)
Figure 54. Americas Molecular Sieve Adsorption Unit Sales Market Share by Country in 2025
Figure 55. Americas Molecular Sieve Adsorption Unit Revenue Market Share by Country (2021-2026)
Figure 56. Americas Molecular Sieve Adsorption Unit Sales Market Share by Type (2021-2026)
Figure 57. Americas Molecular Sieve Adsorption Unit Sales Market Share by Application (2021-2026)
Figure 58. United States Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 59. Canada Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 60. Mexico Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 61. Brazil Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 62. APAC Molecular Sieve Adsorption Unit Sales Market Share by Region in 2025
Figure 63. APAC Molecular Sieve Adsorption Unit Revenue Market Share by Region (2021-2026)
Figure 64. APAC Molecular Sieve Adsorption Unit Sales Market Share by Type (2021-2026)
Figure 65. APAC Molecular Sieve Adsorption Unit Sales Market Share by Application (2021-2026)
Figure 66. China Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 67. Japan Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 68. South Korea Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 69. Southeast Asia Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 70. India Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 71. Australia Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 72. China Taiwan Molecular Sieve Adsorption Unit Revenue Growth 2021-2026

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($ millions)
Figure 73. Europe Molecular Sieve Adsorption Unit Sales Market Share by Country in 2025
Figure 74. Europe Molecular Sieve Adsorption Unit Revenue Market Share by Country (2021-2026)
Figure 75. Europe Molecular Sieve Adsorption Unit Sales Market Share by Type (2021-2026)
Figure 76. Europe Molecular Sieve Adsorption Unit Sales Market Share by Application (2021-2026)
Figure 77. Germany Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 78. France Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 79. UK Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 80. Italy Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 81. Russia Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 82. Middle East & Africa Molecular Sieve Adsorption Unit Sales Market Share by Country (2021-2026)
Figure 83. Middle East & Africa Molecular Sieve Adsorption Unit Sales Market Share by Type (2021-2026)
Figure 84. Middle East & Africa Molecular Sieve Adsorption Unit Sales Market Share by Application (2021-2026)
Figure 85. Egypt Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 86. South Africa Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 87. Israel Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 88. Turkey Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 89. GCC Countries Molecular Sieve Adsorption Unit Revenue Growth 2021-2026 ($ millions)
Figure 90. Manufacturing Cost Structure Analysis of Molecular Sieve Adsorption Unit in 2026
Figure 91. Manufacturing Process Analysis of Molecular Sieve Adsorption Unit
Figure 92. Industry Chain Structure of Molecular Sieve Adsorption Unit
Figure 93. Channels of Distribution

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Figure 94. Global Molecular Sieve Adsorption Unit Sales Market Forecast by Region (2027-2032)
Figure 95. Global Molecular Sieve Adsorption Unit Revenue Market Share Forecast by Region (2027-2032)
Figure 96. Global Molecular Sieve Adsorption Unit Sales Market Share Forecast by Type (2027-2032)
Figure 97. Global Molecular Sieve Adsorption Unit Revenue Market Share Forecast by Type (2027-2032)
Figure 98. Global Molecular Sieve Adsorption Unit Sales Market Share Forecast by Application (2027-2032)
Figure 99. Global Molecular Sieve Adsorption Unit Revenue Market Share Forecast by Application (2027-2032)

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