

Global Gas Separation Membrane Module Market Growth 2026-2032

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Abstracts

The global Gas Separation Membrane Module market size is predicted to grow from US\$ 734 million in 2025 to US\$ 1038 million in 2032; it is expected to grow at a CAGR of 5.2% from 2026 to 2032.

Gas separation membrane modules are devices made up of multiple gas separation membranes designed for industrial gas separation applications. A gas separation membrane module combines individual membrane units (usually in the form of thin films or sheets) in a specific structural arrangement to separate different components of a gas mixture based on the selective permeability of the membranes. Each membrane module typically consists of membrane elements, support structures, and inlet and outlet pipelines, enabling efficient and cost-effective separation of various gas components.

Gas separation membrane modules find widespread use in natural gas treatment, hydrogen purification, air separation, and carbon dioxide capture. In natural gas processing, membrane modules effectively separate harmful gases such as carbon dioxide and hydrogen sulfide, improving the quality of natural gas and reducing environmental pollution. In hydrogen purification, membrane modules efficiently remove impurities like nitrogen and oxygen, enhancing hydrogen purity and supporting the development of clean energy.

Compared to traditional gas separation techniques, such as adsorption and absorption methods, gas separation membrane modules offer numerous advantages. They can achieve gas separation with lower energy consumption and cost, and the compact size of the equipment makes it space-efficient and easier to install and maintain. Furthermore, membrane technologies provide greater stability, making them suitable for

long-term operation.

With increasing environmental regulations and the growing demand for energy efficiency, the market for gas separation membrane modules continues to expand and has become one of the core technologies for gas separation in many industries.

The market for gas separation membrane modules is experiencing rapid growth, driven largely by global concerns about energy efficiency, environmental protection, and clean technologies. As industries increasingly focus on resource optimization and environmental impact reduction, many sectors are shifting from traditional separation technologies to membrane-based systems. Recent advancements in membrane materials and optimization have significantly improved the performance and application scope of gas separation membrane modules.

Currently, gas separation membrane modules are widely used across various industries, including natural gas treatment, chemical processing, hydrogen production and separation, and carbon dioxide capture. The natural gas processing industry is a key sector for membrane module applications, as membrane separation technologies effectively remove impurities such as carbon dioxide and hydrogen sulfide from natural gas, enhancing gas quality and reducing CO₂ emissions, which aligns with environmental and energy efficiency goals.

Moreover, the development of a hydrogen economy has led to growing demand for high-purity hydrogen separation, positioning gas separation membrane modules as an essential technology. Membrane modules offer high efficiency, low energy consumption, and reliability, supporting the sustainable development of the hydrogen industry.

Looking forward, the gas separation membrane module market is expected to continue expanding. First, with ongoing innovation in membrane materials and the emergence of new polymers, the separation efficiency and durability of membrane modules will improve further. The development of membranes with high selectivity, heat resistance, and corrosion resistance will push membrane technologies to meet the demands of even more extreme industrial applications.

Additionally, the promotion of carbon dioxide capture and storage (CCS) technologies will present new growth opportunities for gas separation membrane modules. As the global focus on climate change intensifies, reducing CO₂ emissions has become a key priority for governments worldwide. Gas separation membrane modules offer an efficient solution for CO₂ capture, particularly in power plants and industrial emissions,

providing promising prospects for future applications.

In conclusion, as technology advances and environmental regulations become stricter, gas separation membrane modules will play an increasingly significant role across multiple industries. The future market will benefit from the continued maturation of membrane technology and the exploration of new application areas, offering industries more efficient and cost-effective gas separation solutions.

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

This Insight Report provides a comprehensive analysis of the global Gas Separation Membrane Module 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 Gas Separation Membrane Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Gas Separation Membrane Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gas Separation Membrane Module 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 Gas Separation Membrane Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Gas Separation Membrane Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Hollow Fiber

Spiral Wound

Others

Segmentation by Application:

Hydrocarbons Recovery

Hydrogen Recovery

Natural Gas Treatment

VOCs Emission Control

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.

Air Products

Air Liquide

UBE

Grasys

Evonik

Fujifilm

Generon IGS

Honeywell

MTR

Borsig

Parker Hannifin

Tianbang

SSS

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gas Separation Membrane Module market?

What factors are driving Gas Separation Membrane Module market growth, globally and by region?

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

How do Gas Separation Membrane Module market opportunities vary by end market size?

How does Gas Separation Membrane Module break out by Type, by Application?

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 Gas Separation Membrane Module Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Gas Separation Membrane Module by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Gas Separation Membrane Module by Country/Region, 2021, 2025 & 2032
- 2.2 Gas Separation Membrane Module Segment by Type
 - 2.2.1 Hollow Fiber
 - 2.2.2 Spiral Wound
 - 2.2.3 Others
 - 2.2.4 Gas Separation Membrane Module Sales by Type
 - 2.2.4.1 Global Gas Separation Membrane Module Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Gas Separation Membrane Module Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Gas Separation Membrane Module Sale Price by Type (2021-2026)
- 2.3 Gas Separation Membrane Module Segment by Application
 - 2.3.1 Hydrocarbons Recovery
 - 2.3.2 Hydrogen Recovery
 - 2.3.3 Natural Gas Treatment
 - 2.3.4 VOCs Emission Control
 - 2.3.5 Others
 - 2.3.6 Gas Separation Membrane Module Sales by Application
 - 2.3.6.1 Global Gas Separation Membrane Module Sale Market Share by Application

(2021-2026)

2.3.6.2 Global Gas Separation Membrane Module Revenue and Market Share by Application (2021-2026)

2.3.6.3 Global Gas Separation Membrane Module Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Gas Separation Membrane Module Breakdown Data by Company

3.1.1 Global Gas Separation Membrane Module Annual Sales by Company (2021-2026)

3.1.2 Global Gas Separation Membrane Module Sales Market Share by Company (2021-2026)

3.2 Global Gas Separation Membrane Module Annual Revenue by Company (2021-2026)

3.2.1 Global Gas Separation Membrane Module Revenue by Company (2021-2026)

3.2.2 Global Gas Separation Membrane Module Revenue Market Share by Company (2021-2026)

3.3 Global Gas Separation Membrane Module Sale Price by Company

3.4 Key Manufacturers Gas Separation Membrane Module Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Gas Separation Membrane Module Product Location Distribution

3.4.2 Players Gas Separation Membrane Module 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 GAS SEPARATION MEMBRANE MODULE BY GEOGRAPHIC REGION

4.1 World Historic Gas Separation Membrane Module Market Size by Geographic Region (2021-2026)

4.1.1 Global Gas Separation Membrane Module Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Gas Separation Membrane Module Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Gas Separation Membrane Module Market Size by Country/Region (2021-2026)

4.2.1 Global Gas Separation Membrane Module Annual Sales by Country/Region (2021-2026)

4.2.2 Global Gas Separation Membrane Module Annual Revenue by Country/Region (2021-2026)

4.3 Americas Gas Separation Membrane Module Sales Growth

4.4 APAC Gas Separation Membrane Module Sales Growth

4.5 Europe Gas Separation Membrane Module Sales Growth

4.6 Middle East & Africa Gas Separation Membrane Module Sales Growth

5 AMERICAS

5.1 Americas Gas Separation Membrane Module Sales by Country

5.1.1 Americas Gas Separation Membrane Module Sales by Country (2021-2026)

5.1.2 Americas Gas Separation Membrane Module Revenue by Country (2021-2026)

5.2 Americas Gas Separation Membrane Module Sales by Type (2021-2026)

5.3 Americas Gas Separation Membrane Module Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Gas Separation Membrane Module Sales by Region

6.1.1 APAC Gas Separation Membrane Module Sales by Region (2021-2026)

6.1.2 APAC Gas Separation Membrane Module Revenue by Region (2021-2026)

6.2 APAC Gas Separation Membrane Module Sales by Type (2021-2026)

6.3 APAC Gas Separation Membrane Module 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 Gas Separation Membrane Module by Country

7.1.1 Europe Gas Separation Membrane Module Sales by Country (2021-2026)

7.1.2 Europe Gas Separation Membrane Module Revenue by Country (2021-2026)

7.2 Europe Gas Separation Membrane Module Sales by Type (2021-2026)

7.3 Europe Gas Separation Membrane Module 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 Gas Separation Membrane Module by Country

8.1.1 Middle East & Africa Gas Separation Membrane Module Sales by Country (2021-2026)

8.1.2 Middle East & Africa Gas Separation Membrane Module Revenue by Country (2021-2026)

8.2 Middle East & Africa Gas Separation Membrane Module Sales by Type (2021-2026)

8.3 Middle East & Africa Gas Separation Membrane Module 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 Gas Separation Membrane Module

10.3 Manufacturing Process Analysis of Gas Separation Membrane Module

10.4 Industry Chain Structure of Gas Separation Membrane Module

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Gas Separation Membrane Module Distributors

11.3 Gas Separation Membrane Module Customer

12 WORLD FORECAST REVIEW FOR GAS SEPARATION MEMBRANE MODULE BY GEOGRAPHIC REGION

12.1 Global Gas Separation Membrane Module Market Size Forecast by Region

12.1.1 Global Gas Separation Membrane Module Forecast by Region (2027-2032)

12.1.2 Global Gas Separation Membrane Module Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Gas Separation Membrane Module Forecast by Type (2027-2032)

12.7 Global Gas Separation Membrane Module Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Air Products

13.1.1 Air Products Company Information

13.1.2 Air Products Gas Separation Membrane Module Product Portfolios and Specifications

13.1.3 Air Products Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Air Products Main Business Overview

13.1.5 Air Products Latest Developments

13.2 Air Liquide

13.2.1 Air Liquide Company Information

13.2.2 Air Liquide Gas Separation Membrane Module Product Portfolios and Specifications

13.2.3 Air Liquide Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Air Liquide Main Business Overview

13.2.5 Air Liquide Latest Developments

13.3 UBE

13.3.1 UBE Company Information

13.3.2 UBE Gas Separation Membrane Module Product Portfolios and Specifications

13.3.3 UBE Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 UBE Main Business Overview

13.3.5 UBE Latest Developments

13.4 Grasys

13.4.1 Grasys Company Information

13.4.2 Grasys Gas Separation Membrane Module Product Portfolios and Specifications

13.4.3 Grasys Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Grasys Main Business Overview

13.4.5 Grasys Latest Developments

13.5 Evonik

13.5.1 Evonik Company Information

13.5.2 Evonik Gas Separation Membrane Module Product Portfolios and Specifications

13.5.3 Evonik Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Evonik Main Business Overview

13.5.5 Evonik Latest Developments

13.6 Fujifilm

13.6.1 Fujifilm Company Information

13.6.2 Fujifilm Gas Separation Membrane Module Product Portfolios and Specifications

13.6.3 Fujifilm Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Fujifilm Main Business Overview

13.6.5 Fujifilm Latest Developments

13.7 Generon IGS

13.7.1 Generon IGS Company Information

13.7.2 Generon IGS Gas Separation Membrane Module Product Portfolios and Specifications

13.7.3 Generon IGS Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Generon IGS Main Business Overview

13.7.5 Generon IGS Latest Developments

13.8 Honeywell

13.8.1 Honeywell Company Information

13.8.2 Honeywell Gas Separation Membrane Module Product Portfolios and Specifications

13.8.3 Honeywell Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Honeywell Main Business Overview

13.8.5 Honeywell Latest Developments

13.9 MTR

13.9.1 MTR Company Information

13.9.2 MTR Gas Separation Membrane Module Product Portfolios and Specifications

13.9.3 MTR Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 MTR Main Business Overview

13.9.5 MTR Latest Developments

13.10 Borsig

13.10.1 Borsig Company Information

13.10.2 Borsig Gas Separation Membrane Module Product Portfolios and Specifications

13.10.3 Borsig Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Borsig Main Business Overview

13.10.5 Borsig Latest Developments

13.11 Parker Hannifin

13.11.1 Parker Hannifin Company Information

13.11.2 Parker Hannifin Gas Separation Membrane Module Product Portfolios and Specifications

13.11.3 Parker Hannifin Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Parker Hannifin Main Business Overview

13.11.5 Parker Hannifin Latest Developments

13.12 Tianbang

13.12.1 Tianbang Company Information

13.12.2 Tianbang Gas Separation Membrane Module Product Portfolios and Specifications

13.12.3 Tianbang Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Tianbang Main Business Overview

13.12.5 Tianbang Latest Developments

13.13 SSS

13.13.1 SSS Company Information

13.13.2 SSS Gas Separation Membrane Module Product Portfolios and Specifications

13.13.3 SSS Gas Separation Membrane Module Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 SSS Main Business Overview

13.13.5 SSS Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Gas Separation Membrane Module Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Gas Separation Membrane Module Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Hollow Fiber

Table 4. Major Players of Spiral Wound

Table 5. Major Players of Others

Table 6. Global Gas Separation Membrane Module Sales by Type (2021-2026) & (Units)

Table 7. Global Gas Separation Membrane Module Sales Market Share by Type (2021-2026)

Table 8. Global Gas Separation Membrane Module Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Gas Separation Membrane Module Revenue Market Share by Type (2021-2026)

Table 10. Global Gas Separation Membrane Module Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Global Gas Separation Membrane Module Sale by Application (2021-2026) & (Units)

Table 12. Global Gas Separation Membrane Module Sale Market Share by Application (2021-2026)

Table 13. Global Gas Separation Membrane Module Revenue by Application (2021-2026) & (\$ million)

Table 14. Global Gas Separation Membrane Module Revenue Market Share by Application (2021-2026)

Table 15. Global Gas Separation Membrane Module Sale Price by Application (2021-2026) & (US\$/Unit)

Table 16. Global Gas Separation Membrane Module Sales by Company (2021-2026) & (Units)

Table 17. Global Gas Separation Membrane Module Sales Market Share by Company (2021-2026)

Table 18. Global Gas Separation Membrane Module Revenue by Company (2021-2026) & (\$ millions)

Table 19. Global Gas Separation Membrane Module Revenue Market Share by Company (2021-2026)

Table 20. Global Gas Separation Membrane Module Sale Price by Company (2021-2026) & (US\$/Unit)

Table 21. Key Manufacturers Gas Separation Membrane Module Producing Area Distribution and Sales Area

Table 22. Players Gas Separation Membrane Module Products Offered

Table 23. Gas Separation Membrane Module Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Gas Separation Membrane Module Sales by Geographic Region (2021-2026) & (Units)

Table 27. Global Gas Separation Membrane Module Sales Market Share Geographic Region (2021-2026)

Table 28. Global Gas Separation Membrane Module Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 29. Global Gas Separation Membrane Module Revenue Market Share by Geographic Region (2021-2026)

Table 30. Global Gas Separation Membrane Module Sales by Country/Region (2021-2026) & (Units)

Table 31. Global Gas Separation Membrane Module Sales Market Share by Country/Region (2021-2026)

Table 32. Global Gas Separation Membrane Module Revenue by Country/Region (2021-2026) & (\$ millions)

Table 33. Global Gas Separation Membrane Module Revenue Market Share by Country/Region (2021-2026)

Table 34. Americas Gas Separation Membrane Module Sales by Country (2021-2026) & (Units)

Table 35. Americas Gas Separation Membrane Module Sales Market Share by Country (2021-2026)

Table 36. Americas Gas Separation Membrane Module Revenue by Country (2021-2026) & (\$ millions)

Table 37. Americas Gas Separation Membrane Module Sales by Type (2021-2026) & (Units)

Table 38. Americas Gas Separation Membrane Module Sales by Application (2021-2026) & (Units)

Table 39. APAC Gas Separation Membrane Module Sales by Region (2021-2026) & (Units)

Table 40. APAC Gas Separation Membrane Module Sales Market Share by Region (2021-2026)

Table 41. APAC Gas Separation Membrane Module Revenue by Region (2021-2026) & (\$ millions)

Table 42. APAC Gas Separation Membrane Module Sales by Type (2021-2026) & (Units)

Table 43. APAC Gas Separation Membrane Module Sales by Application (2021-2026) & (Units)

Table 44. Europe Gas Separation Membrane Module Sales by Country (2021-2026) & (Units)

Table 45. Europe Gas Separation Membrane Module Revenue by Country (2021-2026) & (\$ millions)

Table 46. Europe Gas Separation Membrane Module Sales by Type (2021-2026) & (Units)

Table 47. Europe Gas Separation Membrane Module Sales by Application (2021-2026) & (Units)

Table 48. Middle East & Africa Gas Separation Membrane Module Sales by Country (2021-2026) & (Units)

Table 49. Middle East & Africa Gas Separation Membrane Module Revenue Market Share by Country (2021-2026)

Table 50. Middle East & Africa Gas Separation Membrane Module Sales by Type (2021-2026) & (Units)

Table 51. Middle East & Africa Gas Separation Membrane Module Sales by Application (2021-2026) & (Units)

Table 52. Key Market Drivers & Growth Opportunities of Gas Separation Membrane Module

Table 53. Key Market Challenges & Risks of Gas Separation Membrane Module

Table 54. Key Industry Trends of Gas Separation Membrane Module

Table 55. Gas Separation Membrane Module Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Gas Separation Membrane Module Distributors List

Table 58. Gas Separation Membrane Module Customer List

Table 59. Global Gas Separation Membrane Module Sales Forecast by Region (2027-2032) & (Units)

Table 60. Global Gas Separation Membrane Module Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 61. Americas Gas Separation Membrane Module Sales Forecast by Country (2027-2032) & (Units)

Table 62. Americas Gas Separation Membrane Module Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 63. APAC Gas Separation Membrane Module Sales Forecast by Region

(2027-2032) & (Units)

Table 64. APAC Gas Separation Membrane Module Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 65. Europe Gas Separation Membrane Module Sales Forecast by Country (2027-2032) & (Units)

Table 66. Europe Gas Separation Membrane Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 67. Middle East & Africa Gas Separation Membrane Module Sales Forecast by Country (2027-2032) & (Units)

Table 68. Middle East & Africa Gas Separation Membrane Module Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 69. Global Gas Separation Membrane Module Sales Forecast by Type (2027-2032) & (Units)

Table 70. Global Gas Separation Membrane Module Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 71. Global Gas Separation Membrane Module Sales Forecast by Application (2027-2032) & (Units)

Table 72. Global Gas Separation Membrane Module Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 73. Air Products Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 74. Air Products Gas Separation Membrane Module Product Portfolios and Specifications

Table 75. Air Products Gas Separation Membrane Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 76. Air Products Main Business

Table 77. Air Products Latest Developments

Table 78. Air Liquide Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 79. Air Liquide Gas Separation Membrane Module Product Portfolios and Specifications

Table 80. Air Liquide Gas Separation Membrane Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 81. Air Liquide Main Business

Table 82. Air Liquide Latest Developments

Table 83. UBE Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 84. UBE Gas Separation Membrane Module Product Portfolios and Specifications

Table 85. UBE Gas Separation Membrane Module Sales (Units), Revenue (\$ Million),

Price (US\$/Unit) and Gross Margin (2021-2026)

Table 86. UBE Main Business

Table 87. UBE Latest Developments

Table 88. Grasys Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 89. Grasys Gas Separation Membrane Module Product Portfolios and Specifications

Table 90. Grasys Gas Separation Membrane Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 91. Grasys Main Business

Table 92. Grasys Latest Developments

Table 93. Evonik Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 94. Evonik Gas Separation Membrane Module Product Portfolios and Specifications

Table 95. Evonik Gas Separation Membrane Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 96. Evonik Main Business

Table 97. Evonik Latest Developments

Table 98. Fujifilm Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 99. Fujifilm Gas Separation Membrane Module Product Portfolios and Specifications

Table 100. Fujifilm Gas Separation Membrane Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 101. Fujifilm Main Business

Table 102. Fujifilm Latest Developments

Table 103. Generon IGS Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 104. Generon IGS Gas Separation Membrane Module Product Portfolios and Specifications

Table 105. Generon IGS Gas Separation Membrane Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 106. Generon IGS Main Business

Table 107. Generon IGS Latest Developments

Table 108. Honeywell Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 109. Honeywell Gas Separation Membrane Module Product Portfolios and Specifications

Table 110. Honeywell Gas Separation Membrane Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 111. Honeywell Main Business

Table 112. Honeywell Latest Developments

Table 113. MTR Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 114. MTR Gas Separation Membrane Module Product Portfolios and Specifications

Table 115. MTR Gas Separation Membrane Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 116. MTR Main Business

Table 117. MTR Latest Developments

Table 118. Borsig Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 119. Borsig Gas Separation Membrane Module Product Portfolios and Specifications

Table 120. Borsig Gas Separation Membrane Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 121. Borsig Main Business

Table 122. Borsig Latest Developments

Table 123. Parker Hannifin Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 124. Parker Hannifin Gas Separation Membrane Module Product Portfolios and Specifications

Table 125. Parker Hannifin Gas Separation Membrane Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 126. Parker Hannifin Main Business

Table 127. Parker Hannifin Latest Developments

Table 128. Tianbang Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 129. Tianbang Gas Separation Membrane Module Product Portfolios and Specifications

Table 130. Tianbang Gas Separation Membrane Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 131. Tianbang Main Business

Table 132. Tianbang Latest Developments

Table 133. SSS Basic Information, Gas Separation Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 134. SSS Gas Separation Membrane Module Product Portfolios and

Specifications

Table 135. SSS Gas Separation Membrane Module Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 136. SSS Main Business

Table 137. SSS Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Gas Separation Membrane Module
- Figure 2. Gas Separation Membrane Module Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Gas Separation Membrane Module Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Gas Separation Membrane Module Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Gas Separation Membrane Module Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Gas Separation Membrane Module Sales Market Share by Country/Region (2025)
- Figure 10. Gas Separation Membrane Module Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Hollow Fiber
- Figure 12. Product Picture of Spiral Wound
- Figure 13. Product Picture of Others
- Figure 14. Global Gas Separation Membrane Module Sales Market Share by Type in 2026
- Figure 15. Global Gas Separation Membrane Module Revenue Market Share by Type (2021-2026)
- Figure 16. Gas Separation Membrane Module Consumed in Hydrocarbons Recovery
- Figure 17. Global Gas Separation Membrane Module Market: Hydrocarbons Recovery (2021-2026) & (Units)
- Figure 18. Gas Separation Membrane Module Consumed in Hydrogen Recovery
- Figure 19. Global Gas Separation Membrane Module Market: Hydrogen Recovery (2021-2026) & (Units)
- Figure 20. Gas Separation Membrane Module Consumed in Natural Gas Treatment
- Figure 21. Global Gas Separation Membrane Module Market: Natural Gas Treatment (2021-2026) & (Units)
- Figure 22. Gas Separation Membrane Module Consumed in VOCs Emission Control
- Figure 23. Global Gas Separation Membrane Module Market: VOCs Emission Control (2021-2026) & (Units)
- Figure 24. Gas Separation Membrane Module Consumed in Others

Figure 25. Global Gas Separation Membrane Module Market: Others (2021-2026) & (Units)

Figure 26. Global Gas Separation Membrane Module Sale Market Share by Application (2025)

Figure 27. Global Gas Separation Membrane Module Revenue Market Share by Application in 2026

Figure 28. Gas Separation Membrane Module Sales by Company in 2026 (Units)

Figure 29. Global Gas Separation Membrane Module Sales Market Share by Company in 2026

Figure 30. Gas Separation Membrane Module Revenue by Company in 2026 (\$ millions)

Figure 31. Global Gas Separation Membrane Module Revenue Market Share by Company in 2026

Figure 32. Global Gas Separation Membrane Module Sales Market Share by Geographic Region (2021-2026)

Figure 33. Global Gas Separation Membrane Module Revenue Market Share by Geographic Region in 2026

Figure 34. Americas Gas Separation Membrane Module Sales 2021-2026 (Units)

Figure 35. Americas Gas Separation Membrane Module Revenue 2021-2026 (\$ millions)

Figure 36. APAC Gas Separation Membrane Module Sales 2021-2026 (Units)

Figure 37. APAC Gas Separation Membrane Module Revenue 2021-2026 (\$ millions)

Figure 38. Europe Gas Separation Membrane Module Sales 2021-2026 (Units)

Figure 39. Europe Gas Separation Membrane Module Revenue 2021-2026 (\$ millions)

Figure 40. Middle East & Africa Gas Separation Membrane Module Sales 2021-2026 (Units)

Figure 41. Middle East & Africa Gas Separation Membrane Module Revenue 2021-2026 (\$ millions)

Figure 42. Americas Gas Separation Membrane Module Sales Market Share by Country in 2026

Figure 43. Americas Gas Separation Membrane Module Revenue Market Share by Country (2021-2026)

Figure 44. Americas Gas Separation Membrane Module Sales Market Share by Type (2021-2026)

Figure 45. Americas Gas Separation Membrane Module Sales Market Share by Application (2021-2026)

Figure 46. United States Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 47. Canada Gas Separation Membrane Module Revenue Growth 2021-2026 (\$

millions)

Figure 48. Mexico Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 49. Brazil Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 50. APAC Gas Separation Membrane Module Sales Market Share by Region in 2026

Figure 51. APAC Gas Separation Membrane Module Revenue Market Share by Region (2021-2026)

Figure 52. APAC Gas Separation Membrane Module Sales Market Share by Type (2021-2026)

Figure 53. APAC Gas Separation Membrane Module Sales Market Share by Application (2021-2026)

Figure 54. China Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 55. Japan Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 56. South Korea Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 57. Southeast Asia Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 58. India Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 59. Australia Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 60. China Taiwan Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 61. Europe Gas Separation Membrane Module Sales Market Share by Country in 2026

Figure 62. Europe Gas Separation Membrane Module Revenue Market Share by Country (2021-2026)

Figure 63. Europe Gas Separation Membrane Module Sales Market Share by Type (2021-2026)

Figure 64. Europe Gas Separation Membrane Module Sales Market Share by Application (2021-2026)

Figure 65. Germany Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 66. France Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 67. UK Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 68. Italy Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 69. Russia Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 70. Middle East & Africa Gas Separation Membrane Module Sales Market Share by Country (2021-2026)

Figure 71. Middle East & Africa Gas Separation Membrane Module Sales Market Share by Type (2021-2026)

Figure 72. Middle East & Africa Gas Separation Membrane Module Sales Market Share by Application (2021-2026)

Figure 73. Egypt Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 74. South Africa Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 75. Israel Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 76. Turkey Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 77. GCC Countries Gas Separation Membrane Module Revenue Growth 2021-2026 (\$ millions)

Figure 78. Manufacturing Cost Structure Analysis of Gas Separation Membrane Module in 2026

Figure 79. Manufacturing Process Analysis of Gas Separation Membrane Module

Figure 80. Industry Chain Structure of Gas Separation Membrane Module

Figure 81. Channels of Distribution

Figure 82. Global Gas Separation Membrane Module Sales Market Forecast by Region (2027-2032)

Figure 83. Global Gas Separation Membrane Module Revenue Market Share Forecast by Region (2027-2032)

Figure 84. Global Gas Separation Membrane Module Sales Market Share Forecast by Type (2027-2032)

Figure 85. Global Gas Separation Membrane Module Revenue Market Share Forecast by Type (2027-2032)

Figure 86. Global Gas Separation Membrane Module Sales Market Share Forecast by Application (2027-2032)

Figure 87. Global Gas Separation Membrane Module Revenue Market Share Forecast by Application (2027-2032)

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