

Global RO Membrane Module Market Growth 2025-2031

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Abstracts

The global RO Membrane Module market size is predicted to grow from US\$ 1900 million in 2025 to US\$ 2584 million in 2031; it is expected to grow at a CAGR of 5.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

An RO membrane module is a complete unit that integrates RO membranes within a housing or vessel to facilitate water purification. These modules are engineered for system-level deployment in desalination, industrial wastewater treatment, and potable water purification processes.

The RO Membrane Module market is experiencing steady growth as water scarcity and industrial expansion heighten the demand for advanced water treatment solutions. The market is evolving toward modular, energy-efficient, and smart-enabled designs, with high-growth opportunities in emerging economies. Companies focused on performance durability, low energy consumption, and system integration will be best positioned to capture future demand.

Key Trends

Compact and Modular Design Adoption: Rising demand for plug-and-play modules in remote and decentralized treatment systems. **Increased Use in Zero Liquid Discharge (ZLD) Systems:** RO modules are increasingly deployed in industrial settings aiming for water reuse and sustainability. **Smart Monitoring and IoT Integration:** New modules are

being integrated with sensors for real-time monitoring of performance and fouling. Material Innovations: Development of high-permeability, anti-biofouling membranes in module assemblies. Shift to Low-Energy and High-Recovery Designs: Growing focus on energy-efficient modules for large-scale deployments.

Market Drivers

Rising Global Water Stress: Drives investment in desalination and water reuse infrastructure. Growing Industrial Demand: Power, oil & gas, pharmaceuticals, food & beverage industries require high-purity water. Urbanization & Smart Cities: Increased installation of decentralized water treatment modules. Regulatory Push for Wastewater Treatment: Especially in China, India, and the Middle East.

LP Information, Inc. (LPI) ' newest research report, the "RO Membrane Module Industry Forecast" looks at past sales and reviews total world RO Membrane Module sales in 2024, providing a comprehensive analysis by region and market sector of projected RO Membrane Module sales for 2025 through 2031. With RO Membrane Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world RO Membrane Module industry.

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

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

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

Segmentation by Type:

Composite Membrane

Asymmetric Membrane

Segmentation by Application:

Commercial

Industrial

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.

DuPont

Toray

Nitto

SUEZ

Vontron

Koch

LG Chem

Mann+Hummel

Toyobo

Bluestar Membrane

KeenSen Technology

Aowei Technology

Wanhua Chemical

Wave Cyber

AROMEM

Key Questions Addressed in this Report

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

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

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

How do RO Membrane Module market opportunities vary by end market size?

How does RO 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 RO Membrane Module Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for RO Membrane Module by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for RO Membrane Module by Country/Region, 2020, 2024 & 2031
- 2.2 RO Membrane Module Segment by Type
 - 2.2.1 Composite Membrane
 - 2.2.2 Asymmetric Membrane
- 2.3 RO Membrane Module Sales by Type
 - 2.3.1 Global RO Membrane Module Sales Market Share by Type (2020-2025)
 - 2.3.2 Global RO Membrane Module Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global RO Membrane Module Sale Price by Type (2020-2025)
- 2.4 RO Membrane Module Segment by Application
 - 2.4.1 Commercial
 - 2.4.2 Industrial
- 2.5 RO Membrane Module Sales by Application
 - 2.5.1 Global RO Membrane Module Sale Market Share by Application (2020-2025)
 - 2.5.2 Global RO Membrane Module Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global RO Membrane Module Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

- 3.1 Global RO Membrane Module Breakdown Data by Company
 - 3.1.1 Global RO Membrane Module Annual Sales by Company (2020-2025)
 - 3.1.2 Global RO Membrane Module Sales Market Share by Company (2020-2025)
- 3.2 Global RO Membrane Module Annual Revenue by Company (2020-2025)
 - 3.2.1 Global RO Membrane Module Revenue by Company (2020-2025)
 - 3.2.2 Global RO Membrane Module Revenue Market Share by Company (2020-2025)
- 3.3 Global RO Membrane Module Sale Price by Company
- 3.4 Key Manufacturers RO Membrane Module Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers RO Membrane Module Product Location Distribution
 - 3.4.2 Players RO 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) & (2023-2025)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR RO MEMBRANE MODULE BY GEOGRAPHIC REGION

- 4.1 World Historic RO Membrane Module Market Size by Geographic Region (2020-2025)
 - 4.1.1 Global RO Membrane Module Annual Sales by Geographic Region (2020-2025)
 - 4.1.2 Global RO Membrane Module Annual Revenue by Geographic Region (2020-2025)
- 4.2 World Historic RO Membrane Module Market Size by Country/Region (2020-2025)
 - 4.2.1 Global RO Membrane Module Annual Sales by Country/Region (2020-2025)
 - 4.2.2 Global RO Membrane Module Annual Revenue by Country/Region (2020-2025)
- 4.3 Americas RO Membrane Module Sales Growth
- 4.4 APAC RO Membrane Module Sales Growth
- 4.5 Europe RO Membrane Module Sales Growth
- 4.6 Middle East & Africa RO Membrane Module Sales Growth

5 AMERICAS

- 5.1 Americas RO Membrane Module Sales by Country
 - 5.1.1 Americas RO Membrane Module Sales by Country (2020-2025)
 - 5.1.2 Americas RO Membrane Module Revenue by Country (2020-2025)
- 5.2 Americas RO Membrane Module Sales by Type (2020-2025)

5.3 Americas RO Membrane Module Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC RO Membrane Module Sales by Region

6.1.1 APAC RO Membrane Module Sales by Region (2020-2025)

6.1.2 APAC RO Membrane Module Revenue by Region (2020-2025)

6.2 APAC RO Membrane Module Sales by Type (2020-2025)

6.3 APAC RO Membrane Module Sales by Application (2020-2025)

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 RO Membrane Module by Country

7.1.1 Europe RO Membrane Module Sales by Country (2020-2025)

7.1.2 Europe RO Membrane Module Revenue by Country (2020-2025)

7.2 Europe RO Membrane Module Sales by Type (2020-2025)

7.3 Europe RO Membrane Module Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa RO Membrane Module by Country

8.1.1 Middle East & Africa RO Membrane Module Sales by Country (2020-2025)

8.1.2 Middle East & Africa RO Membrane Module Revenue by Country (2020-2025)

- 8.2 Middle East & Africa RO Membrane Module Sales by Type (2020-2025)
- 8.3 Middle East & Africa RO Membrane Module Sales by Application (2020-2025)
- 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 RO Membrane Module
- 10.3 Manufacturing Process Analysis of RO Membrane Module
- 10.4 Industry Chain Structure of RO Membrane Module

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 RO Membrane Module Distributors
- 11.3 RO Membrane Module Customer

12 WORLD FORECAST REVIEW FOR RO MEMBRANE MODULE BY GEOGRAPHIC REGION

- 12.1 Global RO Membrane Module Market Size Forecast by Region
 - 12.1.1 Global RO Membrane Module Forecast by Region (2026-2031)
 - 12.1.2 Global RO Membrane Module Annual Revenue Forecast by Region (2026-2031)
- 12.2 Americas Forecast by Country (2026-2031)
- 12.3 APAC Forecast by Region (2026-2031)
- 12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global RO Membrane Module Forecast by Type (2026-2031)

12.7 Global RO Membrane Module Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 DuPont

13.1.1 DuPont Company Information

13.1.2 DuPont RO Membrane Module Product Portfolios and Specifications

13.1.3 DuPont RO Membrane Module Sales, Revenue, Price and Gross Margin
(2020-2025)

13.1.4 DuPont Main Business Overview

13.1.5 DuPont Latest Developments

13.2 Toray

13.2.1 Toray Company Information

13.2.2 Toray RO Membrane Module Product Portfolios and Specifications

13.2.3 Toray RO Membrane Module Sales, Revenue, Price and Gross Margin
(2020-2025)

13.2.4 Toray Main Business Overview

13.2.5 Toray Latest Developments

13.3 Nitto

13.3.1 Nitto Company Information

13.3.2 Nitto RO Membrane Module Product Portfolios and Specifications

13.3.3 Nitto RO Membrane Module Sales, Revenue, Price and Gross Margin
(2020-2025)

13.3.4 Nitto Main Business Overview

13.3.5 Nitto Latest Developments

13.4 SUEZ

13.4.1 SUEZ Company Information

13.4.2 SUEZ RO Membrane Module Product Portfolios and Specifications

13.4.3 SUEZ RO Membrane Module Sales, Revenue, Price and Gross Margin
(2020-2025)

13.4.4 SUEZ Main Business Overview

13.4.5 SUEZ Latest Developments

13.5 Vontron

13.5.1 Vontron Company Information

13.5.2 Vontron RO Membrane Module Product Portfolios and Specifications

13.5.3 Vontron RO Membrane Module Sales, Revenue, Price and Gross Margin
(2020-2025)

- 13.5.4 Vontron Main Business Overview
- 13.5.5 Vontron Latest Developments
- 13.6 Koch
 - 13.6.1 Koch Company Information
 - 13.6.2 Koch RO Membrane Module Product Portfolios and Specifications
 - 13.6.3 Koch RO Membrane Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 Koch Main Business Overview
 - 13.6.5 Koch Latest Developments
- 13.7 LG Chem
 - 13.7.1 LG Chem Company Information
 - 13.7.2 LG Chem RO Membrane Module Product Portfolios and Specifications
 - 13.7.3 LG Chem RO Membrane Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 LG Chem Main Business Overview
 - 13.7.5 LG Chem Latest Developments
- 13.8 Mann+Hummel
 - 13.8.1 Mann+Hummel Company Information
 - 13.8.2 Mann+Hummel RO Membrane Module Product Portfolios and Specifications
 - 13.8.3 Mann+Hummel RO Membrane Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Mann+Hummel Main Business Overview
 - 13.8.5 Mann+Hummel Latest Developments
- 13.9 Toyobo
 - 13.9.1 Toyobo Company Information
 - 13.9.2 Toyobo RO Membrane Module Product Portfolios and Specifications
 - 13.9.3 Toyobo RO Membrane Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 Toyobo Main Business Overview
 - 13.9.5 Toyobo Latest Developments
- 13.10 Bluestar Membrane
 - 13.10.1 Bluestar Membrane Company Information
 - 13.10.2 Bluestar Membrane RO Membrane Module Product Portfolios and Specifications
 - 13.10.3 Bluestar Membrane RO Membrane Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.10.4 Bluestar Membrane Main Business Overview
 - 13.10.5 Bluestar Membrane Latest Developments
- 13.11 KeenSen Technology

- 13.11.1 KeenSen Technology Company Information
- 13.11.2 KeenSen Technology RO Membrane Module Product Portfolios and Specifications
- 13.11.3 KeenSen Technology RO Membrane Module Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.11.4 KeenSen Technology Main Business Overview
- 13.11.5 KeenSen Technology Latest Developments
- 13.12 Aowei Technology
 - 13.12.1 Aowei Technology Company Information
 - 13.12.2 Aowei Technology RO Membrane Module Product Portfolios and Specifications
 - 13.12.3 Aowei Technology RO Membrane Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.12.4 Aowei Technology Main Business Overview
 - 13.12.5 Aowei Technology Latest Developments
- 13.13 Wanhua Chemical
 - 13.13.1 Wanhua Chemical Company Information
 - 13.13.2 Wanhua Chemical RO Membrane Module Product Portfolios and Specifications
 - 13.13.3 Wanhua Chemical RO Membrane Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.13.4 Wanhua Chemical Main Business Overview
 - 13.13.5 Wanhua Chemical Latest Developments
- 13.14 Wave Cyber
 - 13.14.1 Wave Cyber Company Information
 - 13.14.2 Wave Cyber RO Membrane Module Product Portfolios and Specifications
 - 13.14.3 Wave Cyber RO Membrane Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.14.4 Wave Cyber Main Business Overview
 - 13.14.5 Wave Cyber Latest Developments
- 13.15 AROMEM
 - 13.15.1 AROMEM Company Information
 - 13.15.2 AROMEM RO Membrane Module Product Portfolios and Specifications
 - 13.15.3 AROMEM RO Membrane Module Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.15.4 AROMEM Main Business Overview
 - 13.15.5 AROMEM Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. RO Membrane Module Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. RO Membrane Module Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Composite Membrane

Table 4. Major Players of Asymmetric Membrane

Table 5. Global RO Membrane Module Sales by Type (2020-2025) & (K Sqm)

Table 6. Global RO Membrane Module Sales Market Share by Type (2020-2025)

Table 7. Global RO Membrane Module Revenue by Type (2020-2025) & (\$ million)

Table 8. Global RO Membrane Module Revenue Market Share by Type (2020-2025)

Table 9. Global RO Membrane Module Sale Price by Type (2020-2025) & (US\$/Sq m)

Table 10. Global RO Membrane Module Sale by Application (2020-2025) & (K Sqm)

Table 11. Global RO Membrane Module Sale Market Share by Application (2020-2025)

Table 12. Global RO Membrane Module Revenue by Application (2020-2025) & (\$ million)

Table 13. Global RO Membrane Module Revenue Market Share by Application (2020-2025)

Table 14. Global RO Membrane Module Sale Price by Application (2020-2025) & (US\$/Sq m)

Table 15. Global RO Membrane Module Sales by Company (2020-2025) & (K Sqm)

Table 16. Global RO Membrane Module Sales Market Share by Company (2020-2025)

Table 17. Global RO Membrane Module Revenue by Company (2020-2025) & (\$ millions)

Table 18. Global RO Membrane Module Revenue Market Share by Company (2020-2025)

Table 19. Global RO Membrane Module Sale Price by Company (2020-2025) & (US\$/Sq m)

Table 20. Key Manufacturers RO Membrane Module Producing Area Distribution and Sales Area

Table 21. Players RO Membrane Module Products Offered

Table 22. RO Membrane Module Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global RO Membrane Module Sales by Geographic Region (2020-2025) & (K

Sqm)

Table 26. Global RO Membrane Module Sales Market Share Geographic Region (2020-2025)

Table 27. Global RO Membrane Module Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 28. Global RO Membrane Module Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global RO Membrane Module Sales by Country/Region (2020-2025) & (K Sqm)

Table 30. Global RO Membrane Module Sales Market Share by Country/Region (2020-2025)

Table 31. Global RO Membrane Module Revenue by Country/Region (2020-2025) & (\$ millions)

Table 32. Global RO Membrane Module Revenue Market Share by Country/Region (2020-2025)

Table 33. Americas RO Membrane Module Sales by Country (2020-2025) & (K Sqm)

Table 34. Americas RO Membrane Module Sales Market Share by Country (2020-2025)

Table 35. Americas RO Membrane Module Revenue by Country (2020-2025) & (\$ millions)

Table 36. Americas RO Membrane Module Sales by Type (2020-2025) & (K Sqm)

Table 37. Americas RO Membrane Module Sales by Application (2020-2025) & (K Sqm)

Table 38. APAC RO Membrane Module Sales by Region (2020-2025) & (K Sqm)

Table 39. APAC RO Membrane Module Sales Market Share by Region (2020-2025)

Table 40. APAC RO Membrane Module Revenue by Region (2020-2025) & (\$ millions)

Table 41. APAC RO Membrane Module Sales by Type (2020-2025) & (K Sqm)

Table 42. APAC RO Membrane Module Sales by Application (2020-2025) & (K Sqm)

Table 43. Europe RO Membrane Module Sales by Country (2020-2025) & (K Sqm)

Table 44. Europe RO Membrane Module Revenue by Country (2020-2025) & (\$ millions)

Table 45. Europe RO Membrane Module Sales by Type (2020-2025) & (K Sqm)

Table 46. Europe RO Membrane Module Sales by Application (2020-2025) & (K Sqm)

Table 47. Middle East & Africa RO Membrane Module Sales by Country (2020-2025) & (K Sqm)

Table 48. Middle East & Africa RO Membrane Module Revenue Market Share by Country (2020-2025)

Table 49. Middle East & Africa RO Membrane Module Sales by Type (2020-2025) & (K Sqm)

Table 50. Middle East & Africa RO Membrane Module Sales by Application (2020-2025) & (K Sqm)

Table 51. Key Market Drivers & Growth Opportunities of RO Membrane Module
Table 52. Key Market Challenges & Risks of RO Membrane Module
Table 53. Key Industry Trends of RO Membrane Module
Table 54. RO Membrane Module Raw Material
Table 55. Key Suppliers of Raw Materials
Table 56. RO Membrane Module Distributors List
Table 57. RO Membrane Module Customer List
Table 58. Global RO Membrane Module Sales Forecast by Region (2026-2031) & (K Sqm)
Table 59. Global RO Membrane Module Revenue Forecast by Region (2026-2031) & (\$ millions)
Table 60. Americas RO Membrane Module Sales Forecast by Country (2026-2031) & (K Sqm)
Table 61. Americas RO Membrane Module Annual Revenue Forecast by Country (2026-2031) & (\$ millions)
Table 62. APAC RO Membrane Module Sales Forecast by Region (2026-2031) & (K Sqm)
Table 63. APAC RO Membrane Module Annual Revenue Forecast by Region (2026-2031) & (\$ millions)
Table 64. Europe RO Membrane Module Sales Forecast by Country (2026-2031) & (K Sqm)
Table 65. Europe RO Membrane Module Revenue Forecast by Country (2026-2031) & (\$ millions)
Table 66. Middle East & Africa RO Membrane Module Sales Forecast by Country (2026-2031) & (K Sqm)
Table 67. Middle East & Africa RO Membrane Module Revenue Forecast by Country (2026-2031) & (\$ millions)
Table 68. Global RO Membrane Module Sales Forecast by Type (2026-2031) & (K Sqm)
Table 69. Global RO Membrane Module Revenue Forecast by Type (2026-2031) & (\$ millions)
Table 70. Global RO Membrane Module Sales Forecast by Application (2026-2031) & (K Sqm)
Table 71. Global RO Membrane Module Revenue Forecast by Application (2026-2031) & (\$ millions)
Table 72. DuPont Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors
Table 73. DuPont RO Membrane Module Product Portfolios and Specifications
Table 74. DuPont RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price

(US\$/Sq m) and Gross Margin (2020-2025)

Table 75. DuPont Main Business

Table 76. DuPont Latest Developments

Table 77. Toray Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 78. Toray RO Membrane Module Product Portfolios and Specifications

Table 79. Toray RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 80. Toray Main Business

Table 81. Toray Latest Developments

Table 82. Nitto Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 83. Nitto RO Membrane Module Product Portfolios and Specifications

Table 84. Nitto RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 85. Nitto Main Business

Table 86. Nitto Latest Developments

Table 87. SUEZ Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 88. SUEZ RO Membrane Module Product Portfolios and Specifications

Table 89. SUEZ RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 90. SUEZ Main Business

Table 91. SUEZ Latest Developments

Table 92. Vontron Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 93. Vontron RO Membrane Module Product Portfolios and Specifications

Table 94. Vontron RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 95. Vontron Main Business

Table 96. Vontron Latest Developments

Table 97. Koch Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 98. Koch RO Membrane Module Product Portfolios and Specifications

Table 99. Koch RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 100. Koch Main Business

Table 101. Koch Latest Developments

Table 102. LG Chem Basic Information, RO Membrane Module Manufacturing Base,

Sales Area and Its Competitors

Table 103. LG Chem RO Membrane Module Product Portfolios and Specifications

Table 104. LG Chem RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 105. LG Chem Main Business

Table 106. LG Chem Latest Developments

Table 107. Mann+Hummel Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 108. Mann+Hummel RO Membrane Module Product Portfolios and Specifications

Table 109. Mann+Hummel RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 110. Mann+Hummel Main Business

Table 111. Mann+Hummel Latest Developments

Table 112. Toyobo Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 113. Toyobo RO Membrane Module Product Portfolios and Specifications

Table 114. Toyobo RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 115. Toyobo Main Business

Table 116. Toyobo Latest Developments

Table 117. Bluestar Membrane Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 118. Bluestar Membrane RO Membrane Module Product Portfolios and Specifications

Table 119. Bluestar Membrane RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 120. Bluestar Membrane Main Business

Table 121. Bluestar Membrane Latest Developments

Table 122. KeenSen Technology Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 123. KeenSen Technology RO Membrane Module Product Portfolios and Specifications

Table 124. KeenSen Technology RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 125. KeenSen Technology Main Business

Table 126. KeenSen Technology Latest Developments

Table 127. Aowei Technology Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 128. Aowei Technology RO Membrane Module Product Portfolios and

Specifications

Table 129. Aowei Technology RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 130. Aowei Technology Main Business

Table 131. Aowei Technology Latest Developments

Table 132. Wanhua Chemical Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 133. Wanhua Chemical RO Membrane Module Product Portfolios and Specifications

Table 134. Wanhua Chemical RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 135. Wanhua Chemical Main Business

Table 136. Wanhua Chemical Latest Developments

Table 137. Wave Cyber Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 138. Wave Cyber RO Membrane Module Product Portfolios and Specifications

Table 139. Wave Cyber RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 140. Wave Cyber Main Business

Table 141. Wave Cyber Latest Developments

Table 142. AROMEM Basic Information, RO Membrane Module Manufacturing Base, Sales Area and Its Competitors

Table 143. AROMEM RO Membrane Module Product Portfolios and Specifications

Table 144. AROMEM RO Membrane Module Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2020-2025)

Table 145. AROMEM Main Business

Table 146. AROMEM Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of RO Membrane Module
- Figure 2. RO Membrane Module Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global RO Membrane Module Sales Growth Rate 2020-2031 (K Sqm)
- Figure 7. Global RO Membrane Module Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. RO Membrane Module Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. RO Membrane Module Sales Market Share by Country/Region (2024)
- Figure 10. RO Membrane Module Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Composite Membrane
- Figure 12. Product Picture of Asymmetric Membrane
- Figure 13. Global RO Membrane Module Sales Market Share by Type in 2025
- Figure 14. Global RO Membrane Module Revenue Market Share by Type (2020-2025)
- Figure 15. RO Membrane Module Consumed in Commercial
- Figure 16. Global RO Membrane Module Market: Commercial (2020-2025) & (K Sqm)
- Figure 17. RO Membrane Module Consumed in Industrial
- Figure 18. Global RO Membrane Module Market: Industrial (2020-2025) & (K Sqm)
- Figure 19. Global RO Membrane Module Sale Market Share by Application (2024)
- Figure 20. Global RO Membrane Module Revenue Market Share by Application in 2025
- Figure 21. RO Membrane Module Sales by Company in 2025 (K Sqm)
- Figure 22. Global RO Membrane Module Sales Market Share by Company in 2025
- Figure 23. RO Membrane Module Revenue by Company in 2025 (\$ millions)
- Figure 24. Global RO Membrane Module Revenue Market Share by Company in 2025
- Figure 25. Global RO Membrane Module Sales Market Share by Geographic Region (2020-2025)
- Figure 26. Global RO Membrane Module Revenue Market Share by Geographic Region in 2025
- Figure 27. Americas RO Membrane Module Sales 2020-2025 (K Sqm)
- Figure 28. Americas RO Membrane Module Revenue 2020-2025 (\$ millions)
- Figure 29. APAC RO Membrane Module Sales 2020-2025 (K Sqm)
- Figure 30. APAC RO Membrane Module Revenue 2020-2025 (\$ millions)
- Figure 31. Europe RO Membrane Module Sales 2020-2025 (K Sqm)

- Figure 32. Europe RO Membrane Module Revenue 2020-2025 (\$ millions)
- Figure 33. Middle East & Africa RO Membrane Module Sales 2020-2025 (K Sqm)
- Figure 34. Middle East & Africa RO Membrane Module Revenue 2020-2025 (\$ millions)
- Figure 35. Americas RO Membrane Module Sales Market Share by Country in 2025
- Figure 36. Americas RO Membrane Module Revenue Market Share by Country (2020-2025)
- Figure 37. Americas RO Membrane Module Sales Market Share by Type (2020-2025)
- Figure 38. Americas RO Membrane Module Sales Market Share by Application (2020-2025)
- Figure 39. United States RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 40. Canada RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 41. Mexico RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 42. Brazil RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 43. APAC RO Membrane Module Sales Market Share by Region in 2025
- Figure 44. APAC RO Membrane Module Revenue Market Share by Region (2020-2025)
- Figure 45. APAC RO Membrane Module Sales Market Share by Type (2020-2025)
- Figure 46. APAC RO Membrane Module Sales Market Share by Application (2020-2025)
- Figure 47. China RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 48. Japan RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 49. South Korea RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 50. Southeast Asia RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 51. India RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 52. Australia RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 53. China Taiwan RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 54. Europe RO Membrane Module Sales Market Share by Country in 2025
- Figure 55. Europe RO Membrane Module Revenue Market Share by Country (2020-2025)
- Figure 56. Europe RO Membrane Module Sales Market Share by Type (2020-2025)
- Figure 57. Europe RO Membrane Module Sales Market Share by Application (2020-2025)
- Figure 58. Germany RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 59. France RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 60. UK RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 61. Italy RO Membrane Module Revenue Growth 2020-2025 (\$ millions)
- Figure 62. Russia RO Membrane Module Revenue Growth 2020-2025 (\$ millions)

Figure 63. Middle East & Africa RO Membrane Module Sales Market Share by Country (2020-2025)

Figure 64. Middle East & Africa RO Membrane Module Sales Market Share by Type (2020-2025)

Figure 65. Middle East & Africa RO Membrane Module Sales Market Share by Application (2020-2025)

Figure 66. Egypt RO Membrane Module Revenue Growth 2020-2025 (\$ millions)

Figure 67. South Africa RO Membrane Module Revenue Growth 2020-2025 (\$ millions)

Figure 68. Israel RO Membrane Module Revenue Growth 2020-2025 (\$ millions)

Figure 69. Turkey RO Membrane Module Revenue Growth 2020-2025 (\$ millions)

Figure 70. GCC Countries RO Membrane Module Revenue Growth 2020-2025 (\$ millions)

Figure 71. Manufacturing Cost Structure Analysis of RO Membrane Module in 2025

Figure 72. Manufacturing Process Analysis of RO Membrane Module

Figure 73. Industry Chain Structure of RO Membrane Module

Figure 74. Channels of Distribution

Figure 75. Global RO Membrane Module Sales Market Forecast by Region (2026-2031)

Figure 76. Global RO Membrane Module Revenue Market Share Forecast by Region (2026-2031)

Figure 77. Global RO Membrane Module Sales Market Share Forecast by Type (2026-2031)

Figure 78. Global RO Membrane Module Revenue Market Share Forecast by Type (2026-2031)

Figure 79. Global RO Membrane Module Sales Market Share Forecast by Application (2026-2031)

Figure 80. Global RO Membrane Module Revenue Market Share Forecast by Application (2026-2031)

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