

Global Plate-Type RO Membrane Element Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Plate-Type RO Membrane Element market size is expected to reach \$ 6405 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Sheet-type reverse osmosis membrane elements use a flat, sheet-like composite membrane (usually a polyamide composite membrane) as the core filtration medium. These elements are formed by cutting, stacking, and combining them with structural components such as a separator and a central tube. Under applied pressure, they achieve highly efficient separation of dissolved salts, heavy metals, organic matter, and microorganisms from water. These membrane elements feature high desalination rates, compact structures, and wide applicability, making them core filtration components in municipal water supply, industrial pure water production, seawater desalination, wastewater reuse, and household water purification systems.

The sheet-type reverse osmosis (RO) membrane element industry chain starts with upstream raw materials and key components, mainly including polymer membrane materials (mainly polyamide), non-woven support materials, separators, central tubes, adhesives and chemical additives; the midstream is the membrane element manufacturing and packaging stage, which involves membrane making, lamination, cutting, winding (sheet/spiral winding), curing and performance testing to form RO membrane elements of different specifications for industrial, municipal and civil use; the downstream is used in municipal water supply and seawater desalination, industrial pure water and wastewater reuse, power and chemical industry, food and beverage and household water purification equipment, and is accompanied by replacement, operation and maintenance and technology upgrade needs. In terms of profitability, RO membrane elements belong to a manufacturing industry that emphasizes both technology and scale. The overall gross profit margin of the industry is typically between 30% and 45%. Leading companies with advantages in core membrane material

formulations, large-scale production lines, and brand channels can approach the upper limit, while small and medium-sized manufacturers have lower gross profit margins due to price competition. Regarding capacity utilization, influenced by the cycle of water treatment projects and replacement demand, the industry's normal capacity utilization rate is approximately 70%–85%. During periods of concentrated construction of municipal and industrial projects, it can increase to over 85%, while fluctuations in the residential market can lead to temporary declines.

In 2024, the global production of sheet-type reverse osmosis membrane elements reached 4.95 million, with an average selling price of US\$833 per unit.

This report studies the global Plate-Type RO Membrane Element production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Plate-Type RO Membrane Element and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Plate-Type RO Membrane Element that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Plate-Type RO Membrane Element total production and demand, 2021-2032, (Units)

Global Plate-Type RO Membrane Element total production value, 2021-2032, (USD Million)

Global Plate-Type RO Membrane Element production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Plate-Type RO Membrane Element consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Plate-Type RO Membrane Element domestic production, consumption, key domestic manufacturers and share

Global Plate-Type RO Membrane Element production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Plate-Type RO Membrane Element production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Plate-Type RO Membrane Element production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Plate-Type RO Membrane Element market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DuPont, Alfa Laval, MANN+HUMMEL, WTA UNISOL, Membranium, HID Membrane, Hangzhou E-MEM Environmental Technology, Shanghai WECOME Environmental & Technology, Veolia

Water Technologies, Toray Industries, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Plate-Type RO Membrane Element market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Plate-Type RO Membrane Element Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Plate-Type RO Membrane Element Market, Segmentation by Type:

?98%

?90%

Global Plate-Type RO Membrane Element Market, Segmentation by Design Structure:

Standard Flat Sheet Membrane Element

Enhanced Flat Sheet Membrane Element

Global Plate-Type RO Membrane Element Market, Segmentation by Operating Mode:

Low-Pressure Membrane Elements

High-Pressure Membrane Elements

Global Plate-Type RO Membrane Element Market, Segmentation by Application:

Food & Beverages

Pharma & Biotech

Others

Companies Profiled:

DuPont

Alfa Laval

MANN+HUMMEL

WTA UNISOL

Membranium

HID Membrane

Hangzhou E-MEM Environmental Technology

Shanghai WECOME Environmental & Technology

Veolia Water Technologies

Toray Industries

Koch Membrane Systems

Filtrie Membrane

Sterlitech

LG Chem

Toyobo

Key Questions Answered:

1. How big is the global Plate-Type RO Membrane Element market?
2. What is the demand of the global Plate-Type RO Membrane Element market?
3. What is the year over year growth of the global Plate-Type RO Membrane Element market?
4. What is the production and production value of the global Plate-Type RO Membrane Element market?
5. Who are the key producers in the global Plate-Type RO Membrane Element market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Plate-Type RO Membrane Element Introduction
- 1.2 World Plate-Type RO Membrane Element Supply & Forecast
 - 1.2.1 World Plate-Type RO Membrane Element Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Plate-Type RO Membrane Element Production (2021-2032)
 - 1.2.3 World Plate-Type RO Membrane Element Pricing Trends (2021-2032)
- 1.3 World Plate-Type RO Membrane Element Production by Region (Based on Production Site)
 - 1.3.1 World Plate-Type RO Membrane Element Production Value by Region (2021-2032)
 - 1.3.2 World Plate-Type RO Membrane Element Production by Region (2021-2032)
 - 1.3.3 World Plate-Type RO Membrane Element Average Price by Region (2021-2032)
 - 1.3.4 North America Plate-Type RO Membrane Element Production (2021-2032)
 - 1.3.5 Europe Plate-Type RO Membrane Element Production (2021-2032)
 - 1.3.6 China Plate-Type RO Membrane Element Production (2021-2032)
 - 1.3.7 Japan Plate-Type RO Membrane Element Production (2021-2032)
 - 1.3.8 India Plate-Type RO Membrane Element Production (2021-2032)
 - 1.3.9 Southeast Asia Plate-Type RO Membrane Element Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Plate-Type RO Membrane Element Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Plate-Type RO Membrane Element Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Plate-Type RO Membrane Element Demand (2021-2032)
- 2.2 World Plate-Type RO Membrane Element Consumption by Region
 - 2.2.1 World Plate-Type RO Membrane Element Consumption by Region (2021-2026)
 - 2.2.2 World Plate-Type RO Membrane Element Consumption Forecast by Region (2027-2032)
- 2.3 United States Plate-Type RO Membrane Element Consumption (2021-2032)
- 2.4 China Plate-Type RO Membrane Element Consumption (2021-2032)
- 2.5 Europe Plate-Type RO Membrane Element Consumption (2021-2032)
- 2.6 Japan Plate-Type RO Membrane Element Consumption (2021-2032)
- 2.7 South Korea Plate-Type RO Membrane Element Consumption (2021-2032)

2.8 ASEAN Plate-Type RO Membrane Element Consumption (2021-2032)

2.9 India Plate-Type RO Membrane Element Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Plate-Type RO Membrane Element Production Value by Manufacturer (2021-2026)

3.2 World Plate-Type RO Membrane Element Production by Manufacturer (2021-2026)

3.3 World Plate-Type RO Membrane Element Average Price by Manufacturer (2021-2026)

3.4 Plate-Type RO Membrane Element Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Plate-Type RO Membrane Element Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Plate-Type RO Membrane Element in 2025

3.5.3 Global Concentration Ratios (CR8) for Plate-Type RO Membrane Element in 2025

3.6 Plate-Type RO Membrane Element Market: Overall Company Footprint Analysis

3.6.1 Plate-Type RO Membrane Element Market: Region Footprint

3.6.2 Plate-Type RO Membrane Element Market: Company Product Type Footprint

3.6.3 Plate-Type RO Membrane Element Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Plate-Type RO Membrane Element Production Value Comparison

4.1.1 United States VS China: Plate-Type RO Membrane Element Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Plate-Type RO Membrane Element Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Plate-Type RO Membrane Element Production Comparison

4.2.1 United States VS China: Plate-Type RO Membrane Element Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Plate-Type RO Membrane Element Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Plate-Type RO Membrane Element Consumption Comparison

4.3.1 United States VS China: Plate-Type RO Membrane Element Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Plate-Type RO Membrane Element Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Plate-Type RO Membrane Element Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Plate-Type RO Membrane Element Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Plate-Type RO Membrane Element Production Value (2021-2026)

4.4.3 United States Based Manufacturers Plate-Type RO Membrane Element Production (2021-2026)

4.5 China Based Plate-Type RO Membrane Element Manufacturers and Market Share

4.5.1 China Based Plate-Type RO Membrane Element Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Plate-Type RO Membrane Element Production Value (2021-2026)

4.5.3 China Based Manufacturers Plate-Type RO Membrane Element Production (2021-2026)

4.6 Rest of World Based Plate-Type RO Membrane Element Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Plate-Type RO Membrane Element Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Plate-Type RO Membrane Element Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Plate-Type RO Membrane Element Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Plate-Type RO Membrane Element Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 ?98%

5.2.2 ?90%

5.3 Market Segment by Type

5.3.1 World Plate-Type RO Membrane Element Production by Type (2021-2032)

5.3.2 World Plate-Type RO Membrane Element Production Value by Type
(2021-2032)

5.3.3 World Plate-Type RO Membrane Element Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DESIGN STRUCTURE

6.1 World Plate-Type RO Membrane Element Market Size Overview by Design
Structure: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Design Structure

6.2.1 Standard Flat Sheet Membrane Element

6.2.2 Enhanced Flat Sheet Membrane Element

6.3 Market Segment by Design Structure

6.3.1 World Plate-Type RO Membrane Element Production by Design Structure
(2021-2032)

6.3.2 World Plate-Type RO Membrane Element Production Value by Design Structure
(2021-2032)

6.3.3 World Plate-Type RO Membrane Element Average Price by Design Structure
(2021-2032)

7 MARKET ANALYSIS BY OPERATING MODE

7.1 World Plate-Type RO Membrane Element Market Size Overview by Operating
Mode: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Operating Mode

7.2.1 Low-Pressure Membrane Elements

7.2.2 High-Pressure Membrane Elements

7.3 Market Segment by Operating Mode

7.3.1 World Plate-Type RO Membrane Element Production by Operating Mode
(2021-2032)

7.3.2 World Plate-Type RO Membrane Element Production Value by Operating Mode
(2021-2032)

7.3.3 World Plate-Type RO Membrane Element Average Price by Operating Mode
(2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Plate-Type RO Membrane Element Market Size Overview by Application:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Food & Beverages

8.2.2 Pharma & Biotech

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Plate-Type RO Membrane Element Production by Application (2021-2032)

8.3.2 World Plate-Type RO Membrane Element Production Value by Application
(2021-2032)

8.3.3 World Plate-Type RO Membrane Element Average Price by Application
(2021-2032)

9 COMPANY PROFILES

9.1 DuPont

9.1.1 DuPont Details

9.1.2 DuPont Major Business

9.1.3 DuPont Plate-Type RO Membrane Element Product and Services

9.1.4 DuPont Plate-Type RO Membrane Element Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.1.5 DuPont Recent Developments/Updates

9.1.6 DuPont Competitive Strengths & Weaknesses

9.2 Alfa Laval

9.2.1 Alfa Laval Details

9.2.2 Alfa Laval Major Business

9.2.3 Alfa Laval Plate-Type RO Membrane Element Product and Services

9.2.4 Alfa Laval Plate-Type RO Membrane Element Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.2.5 Alfa Laval Recent Developments/Updates

9.2.6 Alfa Laval Competitive Strengths & Weaknesses

9.3 MANN+HUMMEL

9.3.1 MANN+HUMMEL Details

9.3.2 MANN+HUMMEL Major Business

9.3.3 MANN+HUMMEL Plate-Type RO Membrane Element Product and Services

9.3.4 MANN+HUMMEL Plate-Type RO Membrane Element Production, Price, Value,
Gross Margin and Market Share (2021-2026)

9.3.5 MANN+HUMMEL Recent Developments/Updates

- 9.3.6 MANN+HUMMEL Competitive Strengths & Weaknesses
- 9.4 WTA UNISOL
 - 9.4.1 WTA UNISOL Details
 - 9.4.2 WTA UNISOL Major Business
 - 9.4.3 WTA UNISOL Plate-Type RO Membrane Element Product and Services
 - 9.4.4 WTA UNISOL Plate-Type RO Membrane Element Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 WTA UNISOL Recent Developments/Updates
 - 9.4.6 WTA UNISOL Competitive Strengths & Weaknesses
- 9.5 Membranium
 - 9.5.1 Membranium Details
 - 9.5.2 Membranium Major Business
 - 9.5.3 Membranium Plate-Type RO Membrane Element Product and Services
 - 9.5.4 Membranium Plate-Type RO Membrane Element Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Membranium Recent Developments/Updates
 - 9.5.6 Membranium Competitive Strengths & Weaknesses
- 9.6 HID Membrane
 - 9.6.1 HID Membrane Details
 - 9.6.2 HID Membrane Major Business
 - 9.6.3 HID Membrane Plate-Type RO Membrane Element Product and Services
 - 9.6.4 HID Membrane Plate-Type RO Membrane Element Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 HID Membrane Recent Developments/Updates
 - 9.6.6 HID Membrane Competitive Strengths & Weaknesses
- 9.7 Hangzhou E-MEM Environmental Technology
 - 9.7.1 Hangzhou E-MEM Environmental Technology Details
 - 9.7.2 Hangzhou E-MEM Environmental Technology Major Business
 - 9.7.3 Hangzhou E-MEM Environmental Technology Plate-Type RO Membrane Element Product and Services
 - 9.7.4 Hangzhou E-MEM Environmental Technology Plate-Type RO Membrane Element Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Hangzhou E-MEM Environmental Technology Recent Developments/Updates
 - 9.7.6 Hangzhou E-MEM Environmental Technology Competitive Strengths & Weaknesses
- 9.8 Shanghai WECOME Environmental & Technology
 - 9.8.1 Shanghai WECOME Environmental & Technology Details
 - 9.8.2 Shanghai WECOME Environmental & Technology Major Business
 - 9.8.3 Shanghai WECOME Environmental & Technology Plate-Type RO Membrane

Element Product and Services

9.8.4 Shanghai WECOME Environmental & Technology Plate-Type RO Membrane Element Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Shanghai WECOME Environmental & Technology Recent Developments/Updates

9.8.6 Shanghai WECOME Environmental & Technology Competitive Strengths & Weaknesses

9.9 Veolia Water Technologies

9.9.1 Veolia Water Technologies Details

9.9.2 Veolia Water Technologies Major Business

9.9.3 Veolia Water Technologies Plate-Type RO Membrane Element Product and Services

9.9.4 Veolia Water Technologies Plate-Type RO Membrane Element Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Veolia Water Technologies Recent Developments/Updates

9.9.6 Veolia Water Technologies Competitive Strengths & Weaknesses

9.10 Toray Industries

9.10.1 Toray Industries Details

9.10.2 Toray Industries Major Business

9.10.3 Toray Industries Plate-Type RO Membrane Element Product and Services

9.10.4 Toray Industries Plate-Type RO Membrane Element Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Toray Industries Recent Developments/Updates

9.10.6 Toray Industries Competitive Strengths & Weaknesses

9.11 Koch Membrane Systems

9.11.1 Koch Membrane Systems Details

9.11.2 Koch Membrane Systems Major Business

9.11.3 Koch Membrane Systems Plate-Type RO Membrane Element Product and Services

9.11.4 Koch Membrane Systems Plate-Type RO Membrane Element Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Koch Membrane Systems Recent Developments/Updates

9.11.6 Koch Membrane Systems Competitive Strengths & Weaknesses

9.12 Filtrie Membrane

9.12.1 Filtrie Membrane Details

9.12.2 Filtrie Membrane Major Business

9.12.3 Filtrie Membrane Plate-Type RO Membrane Element Product and Services

9.12.4 Filtrie Membrane Plate-Type RO Membrane Element Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.12.5 Filtration Membrane Recent Developments/Updates
- 9.12.6 Filtration Membrane Competitive Strengths & Weaknesses
- 9.13 Sterlitech
 - 9.13.1 Sterlitech Details
 - 9.13.2 Sterlitech Major Business
 - 9.13.3 Sterlitech Plate-Type RO Membrane Element Product and Services
 - 9.13.4 Sterlitech Plate-Type RO Membrane Element Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Sterlitech Recent Developments/Updates
 - 9.13.6 Sterlitech Competitive Strengths & Weaknesses
- 9.14 LG Chem
 - 9.14.1 LG Chem Details
 - 9.14.2 LG Chem Major Business
 - 9.14.3 LG Chem Plate-Type RO Membrane Element Product and Services
 - 9.14.4 LG Chem Plate-Type RO Membrane Element Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 LG Chem Recent Developments/Updates
 - 9.14.6 LG Chem Competitive Strengths & Weaknesses
- 9.15 Toyobo
 - 9.15.1 Toyobo Details
 - 9.15.2 Toyobo Major Business
 - 9.15.3 Toyobo Plate-Type RO Membrane Element Product and Services
 - 9.15.4 Toyobo Plate-Type RO Membrane Element Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Toyobo Recent Developments/Updates
 - 9.15.6 Toyobo Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Plate-Type RO Membrane Element Industry Chain
- 10.2 Plate-Type RO Membrane Element Upstream Analysis
 - 10.2.1 Plate-Type RO Membrane Element Core Raw Materials
 - 10.2.2 Main Manufacturers of Plate-Type RO Membrane Element Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Plate-Type RO Membrane Element Production Mode
- 10.6 Plate-Type RO Membrane Element Procurement Model
- 10.7 Plate-Type RO Membrane Element Industry Sales Model and Sales Channels
 - 10.7.1 Plate-Type RO Membrane Element Sales Model

10.7.2 Plate-Type RO Membrane Element Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Plate-Type RO Membrane Element Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Plate-Type RO Membrane Element Production Value by Region (2021-2026) & (USD Million)

Table 3. World Plate-Type RO Membrane Element Production Value by Region (2027-2032) & (USD Million)

Table 4. World Plate-Type RO Membrane Element Production Value Market Share by Region (2021-2026)

Table 5. World Plate-Type RO Membrane Element Production Value Market Share by Region (2027-2032)

Table 6. World Plate-Type RO Membrane Element Production by Region (2021-2026) & (Units)

Table 7. World Plate-Type RO Membrane Element Production by Region (2027-2032) & (Units)

Table 8. World Plate-Type RO Membrane Element Production Market Share by Region (2021-2026)

Table 9. World Plate-Type RO Membrane Element Production Market Share by Region (2027-2032)

Table 10. World Plate-Type RO Membrane Element Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Plate-Type RO Membrane Element Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Plate-Type RO Membrane Element Major Market Trends

Table 13. World Plate-Type RO Membrane Element Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Plate-Type RO Membrane Element Consumption by Region (2021-2026) & (Units)

Table 15. World Plate-Type RO Membrane Element Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Plate-Type RO Membrane Element Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Plate-Type RO Membrane Element Producers in 2025

Table 18. World Plate-Type RO Membrane Element Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Plate-Type RO Membrane Element Producers in 2025

Table 20. World Plate-Type RO Membrane Element Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Plate-Type RO Membrane Element Company Evaluation Quadrant

Table 22. World Plate-Type RO Membrane Element Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Plate-Type RO Membrane Element Production Site of Key Manufacturer

Table 24. Plate-Type RO Membrane Element Market: Company Product Type Footprint

Table 25. Plate-Type RO Membrane Element Market: Company Product Application Footprint

Table 26. Plate-Type RO Membrane Element Competitive Factors

Table 27. Plate-Type RO Membrane Element New Entrant and Capacity Expansion Plans

Table 28. Plate-Type RO Membrane Element Mergers & Acquisitions Activity

Table 29. United States VS China Plate-Type RO Membrane Element Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Plate-Type RO Membrane Element Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Plate-Type RO Membrane Element Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Plate-Type RO Membrane Element Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Plate-Type RO Membrane Element Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Plate-Type RO Membrane Element Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Plate-Type RO Membrane Element Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Plate-Type RO Membrane Element Production Market Share (2021-2026)

Table 37. China Based Plate-Type RO Membrane Element Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Plate-Type RO Membrane Element Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Plate-Type RO Membrane Element Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Plate-Type RO Membrane Element Production,

(2021-2026) & (Units)

Table 41. China Based Manufacturers Plate-Type RO Membrane Element Production Market Share (2021-2026)

Table 42. Rest of World Based Plate-Type RO Membrane Element Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Plate-Type RO Membrane Element Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Plate-Type RO Membrane Element Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Plate-Type RO Membrane Element Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Plate-Type RO Membrane Element Production Market Share (2021-2026)

Table 47. World Plate-Type RO Membrane Element Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Plate-Type RO Membrane Element Production by Type (2021-2026) & (Units)

Table 49. World Plate-Type RO Membrane Element Production by Type (2027-2032) & (Units)

Table 50. World Plate-Type RO Membrane Element Production Value by Type (2021-2026) & (USD Million)

Table 51. World Plate-Type RO Membrane Element Production Value by Type (2027-2032) & (USD Million)

Table 52. World Plate-Type RO Membrane Element Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Plate-Type RO Membrane Element Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Plate-Type RO Membrane Element Production Value by Design Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World Plate-Type RO Membrane Element Production by Design Structure (2021-2026) & (Units)

Table 56. World Plate-Type RO Membrane Element Production by Design Structure (2027-2032) & (Units)

Table 57. World Plate-Type RO Membrane Element Production Value by Design Structure (2021-2026) & (USD Million)

Table 58. World Plate-Type RO Membrane Element Production Value by Design Structure (2027-2032) & (USD Million)

Table 59. World Plate-Type RO Membrane Element Average Price by Design Structure (2021-2026) & (US\$/Unit)

Table 60. World Plate-Type RO Membrane Element Average Price by Design Structure (2027-2032) & (US\$/Unit)

Table 61. World Plate-Type RO Membrane Element Production Value by Operating Mode, (USD Million), 2021 & 2025 & 2032

Table 62. World Plate-Type RO Membrane Element Production by Operating Mode (2021-2026) & (Units)

Table 63. World Plate-Type RO Membrane Element Production by Operating Mode (2027-2032) & (Units)

Table 64. World Plate-Type RO Membrane Element Production Value by Operating Mode (2021-2026) & (USD Million)

Table 65. World Plate-Type RO Membrane Element Production Value by Operating Mode (2027-2032) & (USD Million)

Table 66. World Plate-Type RO Membrane Element Average Price by Operating Mode (2021-2026) & (US\$/Unit)

Table 67. World Plate-Type RO Membrane Element Average Price by Operating Mode (2027-2032) & (US\$/Unit)

Table 68. World Plate-Type RO Membrane Element Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Plate-Type RO Membrane Element Production by Application (2021-2026) & (Units)

Table 70. World Plate-Type RO Membrane Element Production by Application (2027-2032) & (Units)

Table 71. World Plate-Type RO Membrane Element Production Value by Application (2021-2026) & (USD Million)

Table 72. World Plate-Type RO Membrane Element Production Value by Application (2027-2032) & (USD Million)

Table 73. World Plate-Type RO Membrane Element Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Plate-Type RO Membrane Element Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. DuPont Basic Information, Manufacturing Base and Competitors

Table 76. DuPont Major Business

Table 77. DuPont Plate-Type RO Membrane Element Product and Services

Table 78. DuPont Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. DuPont Recent Developments/Updates

Table 80. DuPont Competitive Strengths & Weaknesses

Table 81. Alfa Laval Basic Information, Manufacturing Base and Competitors

Table 82. Alfa Laval Major Business

Table 83. Alfa Laval Plate-Type RO Membrane Element Product and Services

Table 84. Alfa Laval Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Alfa Laval Recent Developments/Updates

Table 86. Alfa Laval Competitive Strengths & Weaknesses

Table 87. MANN+HUMMEL Basic Information, Manufacturing Base and Competitors

Table 88. MANN+HUMMEL Major Business

Table 89. MANN+HUMMEL Plate-Type RO Membrane Element Product and Services

Table 90. MANN+HUMMEL Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. MANN+HUMMEL Recent Developments/Updates

Table 92. MANN+HUMMEL Competitive Strengths & Weaknesses

Table 93. WTA UNISOL Basic Information, Manufacturing Base and Competitors

Table 94. WTA UNISOL Major Business

Table 95. WTA UNISOL Plate-Type RO Membrane Element Product and Services

Table 96. WTA UNISOL Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. WTA UNISOL Recent Developments/Updates

Table 98. WTA UNISOL Competitive Strengths & Weaknesses

Table 99. Membranium Basic Information, Manufacturing Base and Competitors

Table 100. Membranium Major Business

Table 101. Membranium Plate-Type RO Membrane Element Product and Services

Table 102. Membranium Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Membranium Recent Developments/Updates

Table 104. Membranium Competitive Strengths & Weaknesses

Table 105. HID Membrane Basic Information, Manufacturing Base and Competitors

Table 106. HID Membrane Major Business

Table 107. HID Membrane Plate-Type RO Membrane Element Product and Services

Table 108. HID Membrane Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. HID Membrane Recent Developments/Updates

Table 110. HID Membrane Competitive Strengths & Weaknesses

- Table 111. Hangzhou E-MEM Environmental Technology Basic Information, Manufacturing Base and Competitors
- Table 112. Hangzhou E-MEM Environmental Technology Major Business
- Table 113. Hangzhou E-MEM Environmental Technology Plate-Type RO Membrane Element Product and Services
- Table 114. Hangzhou E-MEM Environmental Technology Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Hangzhou E-MEM Environmental Technology Recent Developments/Updates
- Table 116. Hangzhou E-MEM Environmental Technology Competitive Strengths & Weaknesses
- Table 117. Shanghai WECOME Environmental & Technology Basic Information, Manufacturing Base and Competitors
- Table 118. Shanghai WECOME Environmental & Technology Major Business
- Table 119. Shanghai WECOME Environmental & Technology Plate-Type RO Membrane Element Product and Services
- Table 120. Shanghai WECOME Environmental & Technology Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Shanghai WECOME Environmental & Technology Recent Developments/Updates
- Table 122. Shanghai WECOME Environmental & Technology Competitive Strengths & Weaknesses
- Table 123. Veolia Water Technologies Basic Information, Manufacturing Base and Competitors
- Table 124. Veolia Water Technologies Major Business
- Table 125. Veolia Water Technologies Plate-Type RO Membrane Element Product and Services
- Table 126. Veolia Water Technologies Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Veolia Water Technologies Recent Developments/Updates
- Table 128. Veolia Water Technologies Competitive Strengths & Weaknesses
- Table 129. Toray Industries Basic Information, Manufacturing Base and Competitors
- Table 130. Toray Industries Major Business
- Table 131. Toray Industries Plate-Type RO Membrane Element Product and Services
- Table 132. Toray Industries Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 133. Toray Industries Recent Developments/Updates

Table 134. Toray Industries Competitive Strengths & Weaknesses

Table 135. Koch Membrane Systems Basic Information, Manufacturing Base and Competitors

Table 136. Koch Membrane Systems Major Business

Table 137. Koch Membrane Systems Plate-Type RO Membrane Element Product and Services

Table 138. Koch Membrane Systems Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Koch Membrane Systems Recent Developments/Updates

Table 140. Koch Membrane Systems Competitive Strengths & Weaknesses

Table 141. Filtrie Membrane Basic Information, Manufacturing Base and Competitors

Table 142. Filtrie Membrane Major Business

Table 143. Filtrie Membrane Plate-Type RO Membrane Element Product and Services

Table 144. Filtrie Membrane Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Filtrie Membrane Recent Developments/Updates

Table 146. Filtrie Membrane Competitive Strengths & Weaknesses

Table 147. Sterlitech Basic Information, Manufacturing Base and Competitors

Table 148. Sterlitech Major Business

Table 149. Sterlitech Plate-Type RO Membrane Element Product and Services

Table 150. Sterlitech Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Sterlitech Recent Developments/Updates

Table 152. Sterlitech Competitive Strengths & Weaknesses

Table 153. LG Chem Basic Information, Manufacturing Base and Competitors

Table 154. LG Chem Major Business

Table 155. LG Chem Plate-Type RO Membrane Element Product and Services

Table 156. LG Chem Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. LG Chem Recent Developments/Updates

Table 158. LG Chem Competitive Strengths & Weaknesses

Table 159. Toyobo Basic Information, Manufacturing Base and Competitors

Table 160. Toyobo Major Business

Table 161. Toyobo Plate-Type RO Membrane Element Product and Services

Table 162. Toyobo Plate-Type RO Membrane Element Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Toyobo Recent Developments/Updates

Table 164. Toyobo Competitive Strengths & Weaknesses

Table 165. Global Key Players of Plate-Type RO Membrane Element Upstream (Raw Materials)

Table 166. Global Plate-Type RO Membrane Element Typical Customers

Table 167. Plate-Type RO Membrane Element Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Plate-Type RO Membrane Element Picture

Figure 2. World Plate-Type RO Membrane Element Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Plate-Type RO Membrane Element Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Plate-Type RO Membrane Element Production (2021-2032) & (Units)

Figure 5. World Plate-Type RO Membrane Element Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Plate-Type RO Membrane Element Production Value Market Share by Region (2021-2032)

Figure 7. World Plate-Type RO Membrane Element Production Market Share by Region (2021-2032)

Figure 8. North America Plate-Type RO Membrane Element Production (2021-2032) & (Units)

Figure 9. Europe Plate-Type RO Membrane Element Production (2021-2032) & (Units)

Figure 10. China Plate-Type RO Membrane Element Production (2021-2032) & (Units)

Figure 11. Japan Plate-Type RO Membrane Element Production (2021-2032) & (Units)

Figure 12. India Plate-Type RO Membrane Element Production (2021-2032) & (Units)

Figure 13. Southeast Asia Plate-Type RO Membrane Element Production (2021-2032) & (Units)

Figure 14. Plate-Type RO Membrane Element Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Plate-Type RO Membrane Element Consumption (2021-2032) & (Units)

Figure 17. World Plate-Type RO Membrane Element Consumption Market Share by Region (2021-2032)

Figure 18. United States Plate-Type RO Membrane Element Consumption (2021-2032) & (Units)

Figure 19. China Plate-Type RO Membrane Element Consumption (2021-2032) & (Units)

Figure 20. Europe Plate-Type RO Membrane Element Consumption (2021-2032) & (Units)

Figure 21. Japan Plate-Type RO Membrane Element Consumption (2021-2032) & (Units)

Figure 22. South Korea Plate-Type RO Membrane Element Consumption (2021-2032)

& (Units)

Figure 23. ASEAN Plate-Type RO Membrane Element Consumption (2021-2032) & (Units)

Figure 24. India Plate-Type RO Membrane Element Consumption (2021-2032) & (Units)

Figure 25. Producer Shipments of Plate-Type RO Membrane Element by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Plate-Type RO Membrane Element Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Plate-Type RO Membrane Element Markets in 2025

Figure 28. United States VS China: Plate-Type RO Membrane Element Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Plate-Type RO Membrane Element Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Plate-Type RO Membrane Element Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Plate-Type RO Membrane Element Production Market Share 2025

Figure 32. China Based Manufacturers Plate-Type RO Membrane Element Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Plate-Type RO Membrane Element Production Market Share 2025

Figure 34. World Plate-Type RO Membrane Element Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Plate-Type RO Membrane Element Production Value Market Share by Type in 2025

Figure 36. ?98%

Figure 37. ?90%

Figure 38. World Plate-Type RO Membrane Element Production Market Share by Type (2021-2032)

Figure 39. World Plate-Type RO Membrane Element Production Value Market Share by Type (2021-2032)

Figure 40. World Plate-Type RO Membrane Element Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Plate-Type RO Membrane Element Production Value by Design Structure, (USD Million), 2021 & 2025 & 2032

Figure 42. World Plate-Type RO Membrane Element Production Value Market Share by Design Structure in 2025

Figure 43. Standard Flat Sheet Membrane Element

Figure 44. Enhanced Flat Sheet Membrane Element

Figure 45. World Plate-Type RO Membrane Element Production Market Share by Design Structure (2021-2032)

Figure 46. World Plate-Type RO Membrane Element Production Value Market Share by Design Structure (2021-2032)

Figure 47. World Plate-Type RO Membrane Element Average Price by Design Structure (2021-2032) & (US\$/Unit)

Figure 48. World Plate-Type RO Membrane Element Production Value by Operating Mode, (USD Million), 2021 & 2025 & 2032

Figure 49. World Plate-Type RO Membrane Element Production Value Market Share by Operating Mode in 2025

Figure 50. Low-Pressure Membrane Elements

Figure 51. High-Pressure Membrane Elements

Figure 52. World Plate-Type RO Membrane Element Production Market Share by Operating Mode (2021-2032)

Figure 53. World Plate-Type RO Membrane Element Production Value Market Share by Operating Mode (2021-2032)

Figure 54. World Plate-Type RO Membrane Element Average Price by Operating Mode (2021-2032) & (US\$/Unit)

Figure 55. World Plate-Type RO Membrane Element Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Plate-Type RO Membrane Element Production Value Market Share by Application in 2025

Figure 57. Food & Beverages

Figure 58. Pharma & Biotech

Figure 59. Others

Figure 60. World Plate-Type RO Membrane Element Production Market Share by Application (2021-2032)

Figure 61. World Plate-Type RO Membrane Element Production Value Market Share by Application (2021-2032)

Figure 62. World Plate-Type RO Membrane Element Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. Plate-Type RO Membrane Element Industry Chain

Figure 64. Plate-Type RO Membrane Element Procurement Model

Figure 65. Plate-Type RO Membrane Element Sales Model

Figure 66. Plate-Type RO Membrane Element Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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