

# Global Plate-Type RO Membrane Element Market Growth 2026-2032

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## Abstracts

The global Plate-Type RO Membrane Element market size is predicted to grow from US\$ 4030 million in 2025 to US\$ 6221 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 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.

United States market for Plate-Type RO Membrane Element is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Plate-Type RO Membrane Element is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Plate-Type RO Membrane Element is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Plate-Type RO Membrane Element players cover DuPont, Alfa Laval, MANN+HUMMEL, WTA UNISOL, Membranium, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

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

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

### **Segmentation by Type:**

?98%

?90%

### **Segmentation by Design Structure:**

Standard Flat Sheet Membrane Element

Enhanced Flat Sheet Membrane Element

### **Segmentation by Operating Mode:**

Low-Pressure Membrane Elements

High-Pressure Membrane Elements

### **Segmentation by Application:**

Food & Beverages

Pharma & Biotech

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.

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 Addressed in this Report**

What is the 10-year outlook for the global Plate-Type RO Membrane Element market?

What factors are driving Plate-Type RO Membrane Element market growth, globally and by region?

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

How do Plate-Type RO Membrane Element market opportunities vary by end market size?

How does Plate-Type RO Membrane Element break out by Type, by Application?

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