

# Global Plate-Type RO Membrane Element Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Plate-Type RO Membrane Element market size was valued at US\$ 4239 million in 2025 and is forecast to a readjusted size of US\$ 6405 million by 2032 with a CAGR of 6.1% during review period.

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 is a detailed and comprehensive analysis for global Plate-Type RO Membrane Element market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Plate-Type RO Membrane Element market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Plate-Type RO Membrane Element market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Plate-Type RO Membrane Element market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Plate-Type RO Membrane Element market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

## The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Plate-Type RO Membrane Element

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Plate-Type RO Membrane Element market based on the following parameters - company overview, sales quantity, revenue, 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.

## Market Segmentation

Plate-Type RO Membrane Element market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

?98%

?90%

## Market segment by Design Structure

Standard Flat Sheet Membrane Element

Enhanced Flat Sheet Membrane Element

## Market segment by Operating Mode

Low-Pressure Membrane Elements

High-Pressure Membrane Elements

## Market segment by Application

Food & Beverages

Pharma & Biotech

Others

## Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Plate-Type RO Membrane Element product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Plate-Type RO Membrane Element, with price, sales quantity, revenue, and global market share of Plate-Type RO Membrane Element from 2021 to 2026.

Chapter 3, the Plate-Type RO Membrane Element competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Plate-Type RO Membrane Element breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Plate-Type RO Membrane Element market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Plate-Type RO Membrane Element.

Chapter 14 and 15, to describe Plate-Type RO Membrane Element sales channel, distributors, customers, research findings and conclusion.

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