

Global MBR Flat Membrane Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global MBR Flat Membrane Module market size is expected to reach \$ 2326 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

In 2025, global MBR Flat Sheet Membrane Module production reached approximately 264k units, with an average global market price of around US\$5k per unit.

MBR Flat Sheet Membrane Module is a modular membrane separation device used in membrane bioreactor (MBR) systems, consisting of multiple flat sheet membrane panels, support frames, permeate collection pipelines, aeration components, sealing structures, and connection parts. The module is typically submerged directly in biological treatment tanks or membrane tanks, where pressure differences across the membrane drive water molecules through the membrane surface while retaining activated sludge, suspended solids, colloids, bacteria, and macromolecular organic pollutants. This enables the integration of biological treatment and membrane filtration processes. MBR flat sheet membrane modules are mainly manufactured from polymer materials such as PVDF (polyvinylidene fluoride) and PES (polyethersulfone), while advanced products may use ceramic materials to improve chemical resistance, temperature tolerance, and anti-fouling performance. Compared with hollow fiber membrane modules, flat sheet MBR modules provide advantages including higher mechanical strength, lower risk of membrane breakage, stronger tolerance to high sludge concentrations, stable operation, and convenient cleaning and maintenance. They are widely used in municipal wastewater treatment, industrial wastewater treatment, food and beverage processing, pharmaceuticals, chemicals, electronics manufacturing, new energy industries, and industrial water recycling systems. Driven by wastewater resource recovery and industrial sustainability requirements, MBR flat sheet

membrane modules are developing toward higher flux, lower energy consumption, longer service life, intelligent monitoring, and integrated system solutions.

The upstream supply chain of MBR flat sheet membrane modules includes membrane materials, polymer resins, reinforced support materials, membrane frame materials, potting materials, aeration components, and membrane manufacturing equipment suppliers. Materials such as PVDF, PES, and PSF determine filtration accuracy, mechanical properties, chemical resistance, and membrane lifetime, while support materials, sealing adhesives, and structural components influence module stability and long-term operational reliability. Representative suppliers include Arkema, Solvay, BASF, SABIC, Evonik, Toray, Mitsubishi Chemical, and Asahi Kasei. Major midstream manufacturers and water-treatment solution providers include Toray Industries, SUEZ Water Technologies & Solutions, Veolia Water Technologies, Kubota, Mitsubishi Chemical Aqua Solutions, OriginWater, Motimo, and JiuWu Hi-Tech. Downstream applications include municipal wastewater treatment, industrial wastewater management, food and beverage processing, pharmaceuticals, chemicals, power generation, semiconductor manufacturing, new energy industries, and industrial water recycling. Representative users include water utilities, industrial manufacturers, semiconductor companies, battery producers, and environmental engineering companies.

The MBR flat sheet membrane module market is currently experiencing stable development, driven by increasing wastewater treatment demand, stricter industrial discharge standards, and growing water recycling requirements. Compared with hollow fiber MBR membrane modules, flat sheet modules offer advantages including higher mechanical strength, stronger resistance to fiber breakage, better fouling resistance, and stable long-term operation, giving them competitive advantages in industrial wastewater, high-concentration wastewater, and applications requiring high operational reliability. Future market trends include development of advanced membrane materials, reduction of membrane fouling, improvement of membrane flux, lower operating energy consumption, extended module lifetime, and integration with intelligent control systems. Key market drivers include stricter environmental regulations, water scarcity, industrial water-saving requirements, wastewater reuse demand, growth of new energy and manufacturing industries, and industrial sustainability transformation. Challenges include relatively high module costs, significant system investment, demanding maintenance requirements, the need for long-term validation in complex water conditions, and competition from alternative membrane technologies. Overall, MBR flat sheet membrane modules are expected to maintain strong growth potential in industrial wastewater treatment, advanced water reuse, and complex water management

applications.

This report studies the global MBR Flat Membrane Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for MBR Flat Membrane Module 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 MBR Flat Membrane Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global MBR Flat Membrane Module total production and demand, 2021-2032, (K Units)

Global MBR Flat Membrane Module total production value, 2021-2032, (USD Million)

Global MBR Flat Membrane Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global MBR Flat Membrane Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: MBR Flat Membrane Module domestic production, consumption, key domestic manufacturers and share

Global MBR Flat Membrane Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global MBR Flat Membrane Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global MBR Flat Membrane Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global MBR Flat Membrane Module 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, 3M, Synder Filtration, Kovalus Separation Solutions, QUA group, Applied Membranes, Dow, GE, Pall Corporation, Hydranautics, 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 MBR Flat Membrane Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 MBR Flat Membrane Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MBR Flat Membrane Module Market, Segmentation by Type:

Microfiltration Membrane

Nanofiltration Membrane

Others

Global MBR Flat Membrane Module Market, Segmentation by Material:

PVDF

PES

PSF

PAN

Ceramics

Global MBR Flat Membrane Module Market, Segmentation by Membrane Pore Size:

0.01?m-0.05?m

0.05?m-0.1?m

Others

Global MBR Flat Membrane Module Market, Segmentation by Application:

Municipal Wastewater Treatment

Industrial Wastewater Treatment

Others

Companies Profiled:

DuPont

3M

Synder Filtration

Kovalus Separation Solutions

QUA group

Applied Membranes

Dow

GE

Pall Corporation

Hydranautics

Membrane Solutions

Asahi Kasei

Toray

Mitsubishi Chemical

Nitto Denko

Pentair

Veolia

SUEZ

Mann+Hummel

EuroTe

Supratec

Alfa Laval

Canpure

Scinor

MOTIMO

CITIC Envirotech

Origin Water

Vontron

Hinada

Litree

Jiuwu Hi-tech

Peier Film Industry

Ledon Technology

RisingSun Membrane Technology

Shuiqing Membrane Separation Technology

Key Questions Answered:

1. How big is the global MBR Flat Membrane Module market?
2. What is the demand of the global MBR Flat Membrane Module market?
3. What is the year over year growth of the global MBR Flat Membrane Module market?
4. What is the production and production value of the global MBR Flat Membrane Module market?
5. Who are the key producers in the global MBR Flat Membrane Module market?
6. What are the growth factors driving the market demand?

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