

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

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Abstracts

The global MABR Membrane Module market size is expected to reach \$ 46.77 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

In 2025, global MABR Membrane Module production reached approximately 8.6k units, with an average global market price of around US\$3k per unit.

A Membrane Aerated Biofilm Reactor (MABR) module is the core component of an MABR wastewater treatment system, typically composed of gas-permeable hollow fiber membranes or composite polymer membranes. The module delivers oxygen directly through the membrane wall to a biofilm growing on the membrane surface, while wastewater flows on the outside of the membrane. Microorganisms in the biofilm degrade organic pollutants and nitrogen compounds, enabling simultaneous nitrification and denitrification within the same reactor. Compared with conventional aeration processes, MABR modules use membrane-based oxygen transfer without bubbles, offering higher oxygen utilization efficiency, lower energy consumption, reduced sludge production, and a smaller footprint.

The MABR module industry chain begins upstream with suppliers of membrane materials, polymer resins, membrane fiber manufacturing equipment, stainless-steel frames, air delivery systems, and control electronics. Key materials include advanced polymers such as PVDF, PTFE, and PDMS used in gas-permeable membranes. The midstream segment consists of MABR module manufacturers and wastewater treatment system integrators responsible for membrane fabrication, module assembly, and plant engineering. Downstream applications mainly include municipal wastewater treatment plants, industrial wastewater facilities, rural sewage treatment systems, and

decentralized treatment units. Representative upstream material suppliers include DuPont, Arkema, Solvay, and 3M, while midstream technology providers include Fluence, SUEZ, DuPont Water Solutions, and Aquatec Maxcon. Downstream users include municipal water utilities, industrial parks, and environmental engineering contractors. The ecosystem integrates membrane material manufacturing, treatment equipment production, and environmental infrastructure deployment.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global MABR 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 Fluence Corporation, Veolia, DuPont OxyMem, SUEZ, Aquatec Maxcon, Green Source Environmental Protection Technology, Hydroking Tech, LEDON-TECH, Jiangsu Julan Nano, Oxymo, 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 MABR 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 MABR Membrane Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MABR Membrane Module Market, Segmentation by Type:

PVDF

PTFE

PDMS

Others

Global MABR Membrane Module Market, Segmentation by Membrane Structure:

Hollow Fiber Membrane

Flat Sheet Membrane

Spiral Wound Membrane

Others

Global MABR Membrane Module Market, Segmentation by Application:

Rivers

Lakes

Reservoirs

Municipal Wastewater

Industrial Wastewater

Others

Companies Profiled:

Fluence Corporation

Veolia

DuPont OxyMem

SUEZ

Aquatec Maxcon

Green Source Environmental Protection Technology

Hydroking Tech

LEDON-TECH

Jiangsu Julan Nano

Oxymo

Mainamo

Monon Membrane

Key Questions Answered:

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

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