

Global Hollow Fiber Membrane Modules for MBR Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hollow Fiber Membrane Modules for MBR market size is expected to reach \$ 3779 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Hollow Fiber Membrane Modules for MBR (Membrane Bioreactor) are core filtration components assembled by bundling thousands of porous hollow fiber filaments, potting both ends with polymer adhesive inside a pressure-resistant shell or support frame, and integrating water collection ports, aeration interfaces and sealing structures. Typically fabricated from materials such as polyvinylidene fluoride (PVDF), polyethersulfone (PES) or polysulfone (PS), the modules perform solid-liquid separation in membrane bioreactor systems: micron or submicron pores on the fiber wall intercept activated sludge, suspended solids and microorganisms while allowing purified water to permeate through. Replacing traditional secondary sedimentation tanks in wastewater treatment processes, they feature superior effluent quality, compact footprint and high sludge load tolerance, and are widely deployed in sewage purification and water reuse scenarios.

In 2025, global Hollow Fiber Membrane Modules for MBR production reached approximately 4,563 K units, with an average global market price of around US\$ 572 per unit. The production capacity of Hollow Fiber Membrane Modules for MBR is approximately 5,775 K units per year, the average gross profit margin was 28-31%.

The supply chain of MBR hollow fiber membrane modules begins with upstream suppliers providing raw materials including high-performance polymer resins (PVDF, PES, PS), engineering plastics and stainless steel for module housings, epoxy or polyurethane potting adhesives, aeration pipes, water collection components and sealing parts, as well as specialized production equipment such as hollow fiber spinning

lines and post-treatment systems. Midstream manufacturers conduct membrane spinning, pore-forming modification, module potting, performance testing and finished product assembly, with some players also offering integrated MBR system design services. Downstream, the modules are delivered to environmental engineering firms, MBR system integrators and water treatment operators, and are ultimately applied in municipal wastewater plants, industrial effluent stations, water reuse projects and landfill leachate facilities, with an active aftermarket for module replacement and maintenance in operating projects.

Raw materials represent the dominant cost component of MBR hollow fiber membrane modules, accounting for 55% to 65% of total production cost, with high-performance polymer resins for membrane filaments and corrosion-resistant housing materials as the primary cost drivers, while specialty modification additives and potting adhesives also make up a notable share. Manufacturing expenses, including equipment depreciation, energy consumption, spinning solvents and consumables for membrane post-treatment, account for 15% to 20% of total cost. Labor, quality inspection and R&D investment for formula optimization and anti-fouling technology account for 12% to 18%, and the remaining 5% to 10% covers logistics, sales, quality certification and after-sales service costs; high-end anti-fouling and industrial-specific modules have a significantly higher R&D and additive cost ratio, while standard municipal-grade modules carry a higher raw material cost proportion.

This report studies the global Hollow Fiber Membrane Modules for MBR production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Hollow Fiber Membrane Modules for MBR total production and demand, 2021-2032, (K Units)

Global Hollow Fiber Membrane Modules for MBR total production value, 2021-2032, (USD Million)

Global Hollow Fiber Membrane Modules for MBR production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production

site)

Global Hollow Fiber Membrane Modules for MBR consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Hollow Fiber Membrane Modules for MBR domestic production, consumption, key domestic manufacturers and share

Global Hollow Fiber Membrane Modules for MBR production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Hollow Fiber Membrane Modules for MBR production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Hollow Fiber Membrane Modules for MBR production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Hollow Fiber Membrane Modules for MBR 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, Repligen Corporation, Nitto (Hydranautics), Cytiva, Sartorius AG, Veolia, Supratec Membrane GmbH, HNAC Technology (Canpure), Originwater, Scinor Membrane, 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 Hollow Fiber Membrane Modules for MBR 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 Hollow Fiber Membrane Modules for MBR Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hollow Fiber Membrane Modules for MBR Market, Segmentation by Type:

PVDF Hollow Fiber Membrane Module

PES Hollow Fiber Membrane Module

Others

Global Hollow Fiber Membrane Modules for MBR Market, Segmentation by Module Structural:

Immersed Curtain Type Module

Pressurized Column Type Module

Global Hollow Fiber Membrane Modules for MBR Market, Segmentation by Membrane Nominal Pore Size:

Microfiltration Grade: 0.1 ? 0.4 ?m

Ultrafiltration Grade: 0.01 ? 0.1 ?m

Global Hollow Fiber Membrane Modules for MBR Market, Segmentation by Application:

Municipal Sewage Treatment

Industrial Wastewater Treatment

Reclaimed Water Reuse

Others

Companies Profiled:

Dupont

Repligen Corporation

Nitto (Hydranautics)

Cytiva

Sartorius AG

Veolia

Supratec Membrane GmbH

HNAC Technology (Canpure)

Originwater

Scinor Membrane

Ningbo Shuiyi Membrane Technology Development

Zhejiang Dongda Environment Engineering

Blufox

Tanal

Toray Membrane

Kovalus Separation Solutions

Mitsubishi Chemical

Zhejiang Cpcell Membrane Technology

Membrane Solutions

Hangzhou Kaihong Membrane Technology Co.,Ltd

OXYMO TECHNOLOGY

Nanjing Junxin Environmental Technology Co., Ltd.

Shanghai Sperta Environmental Technology Co., Ltd.

Hongtek Filtration Co., Ltd.

Apricus

Shandong Jinhuimo

MegaVision

imemflo

Key Questions Answered:

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

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