

Global Hollow Fiber Membrane Modules for MBR 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 Hollow Fiber Membrane Modules for MBR market size was valued at US\$ 2686 million in 2025 and is forecast to a readjusted size of US\$ 3779 million by 2032 with a CAGR of 5.0% during review period.

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 is a detailed and comprehensive analysis for global Hollow Fiber Membrane Modules for MBR 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 Hollow Fiber Membrane Modules for MBR market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Hollow Fiber Membrane Modules for MBR market size and forecasts by region

and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Hollow Fiber Membrane Modules for MBR market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Hollow Fiber Membrane Modules for MBR market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Hollow Fiber Membrane Modules for MBR

- 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 Hollow Fiber Membrane Modules for MBR 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, 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.

Market Segmentation

Hollow Fiber Membrane Modules for MBR 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

PVDF Hollow Fiber Membrane Module

PES Hollow Fiber Membrane Module

Others

Market segment by Module Structural

Immersed Curtain Type Module

Pressurized Column Type Module

Market segment by Membrane Nominal Pore Size

Microfiltration Grade: 0.1 ? 0.4 ?m

Ultrafiltration Grade: 0.01 ? 0.1 ?m

Market segment by Application

Municipal Sewage Treatment

Industrial Wastewater Treatment

Reclaimed Water Reuse

Others

Major players covered

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

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 Hollow Fiber Membrane Modules for MBR product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hollow Fiber Membrane Modules for MBR, with price, sales quantity, revenue, and global market share of Hollow Fiber Membrane Modules for MBR from 2021 to 2026.

Chapter 3, the Hollow Fiber Membrane Modules for MBR competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hollow Fiber Membrane Modules for MBR 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 Hollow Fiber Membrane Modules for MBR 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 Hollow Fiber Membrane Modules for MBR.

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