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Global Submerged Hollow Fiber Membrane Module Market Growth 2026-2032

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Abstracts

The global Submerged Hollow Fiber Membrane Module market size is predicted to grow from US$ 2781 million in 2025 to US$ 3602 million in 2032; it is expected to grow at a CAGR of 3.8% from 2026 to 2032.

A Submerged Hollow Fiber Membrane Module is a specialized water treatment component designed for solid-liquid separation, characterized by its core structure of hollow fiber membranes fully immersed in the feed liquid (e.g., municipal sewage, industrial wastewater, or activated sludge mixed liquor in membrane bioreactors/MBRs) rather than operating in a pressure-driven housing. Its key components include a dense bundle of hollow fiber membranes (typically made of anti-fouling polymers like PVDF or PES, with pore sizes ranging from 0.01–0.1 ?m for microfiltration/UF, outer diameters of 50–200 ?m, and inner diameters of 20–100 ?m), a rigid support frame (to fix the membrane bundle and maintain its shape in the liquid), a permeate collection pipe (connected to the lumen of the hollow fibers to gather filtered water), and a bottom-mounted aeration system (supplying fine air bubbles to create upward turbulence). During operation, a slight negative pressure (5–30 kPa) is applied to the inner cavity of the hollow fibers, driving water molecules and small substances in the submerged feed liquid to permeate through the membrane pores into the fiber lumen, where they are collected as clean permeate. Meanwhile, suspended solids, colloids, bacteria, and macromolecular pollutants are intercepted on the outer surface of the membrane fibers or within the pores; the aeration system not only scours the membrane surface to reduce fouling but also provides oxygen for microbial activity in MBR applications.

In 2024, global Submerged Hollow Fiber Membrane Module production reached approximately 4,622 K units, with an average global market price of around US$ 593 per unit. The single-line production capacity of Submerged Hollow Fiber Membrane

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Module is 296 to 231 K units per year, the average gross profit margin was 32%.

The supply chain of Submerged Hollow Fiber Membrane Modules features a clear upstream-midstream-downstream flow driven by material supply, manufacturing integration, and application demand. Upstream encompasses suppliers of core raw materials and production equipment: polymer manufacturers provide PVDF (the dominant material for its high durability and anti-fouling properties) and PES resins, while auxiliary material vendors supply encapsulants (e.g., polyurethane, epoxy with varying hardness for multi-layer potting), support frame materials (ABS resin), aeration system components (fine-bubble aerators), and solvents for membrane spinning. Equipment manufacturers deliver precision spinning machines, automated encapsulation systems, and quality testing instruments. Midstream manufacturers integrate these inputs through processes like membrane filament bundling, multi-layer potting, frame assembly, and aeration system integration, with customization capabilities to tailor membrane pore sizes (typically 0.01–0.1 ?m) and module dimensions for specific water quality conditions. Strict quality control ensures adaptability to high sludge concentrations and negative pressure operation (-5 to -80 kPa). Downstream, finished modules are supplied to water treatment equipment integrators, who embed them into MBR systems, ultrafiltration units, or ropretreatment systems, then distribute them to end-users spanning municipal sewage treatment plants (for effluent upgrading and reuse), industrial sectors (textile, petrochemical, and food processing for wastewater recycling), drinking water plants (treating surface water), and seawater desalination projects.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Submerged Hollow Fiber Membrane Module Industry Forecast” looks at past sales and reviews total world Submerged Hollow Fiber Membrane Module sales in 2025, providing a comprehensive analysis by region and market sector of projected Submerged Hollow Fiber Membrane Module sales for 2026 through 2032. With Submerged Hollow Fiber Membrane Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Submerged Hollow Fiber Membrane Module industry.

This Insight Report provides a comprehensive analysis of the global Submerged Hollow Fiber Membrane Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and

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M&A activity. This report also analyzes the strategies of leading global companies with a focus on Submerged Hollow Fiber Membrane Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Submerged Hollow Fiber Membrane Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Submerged Hollow Fiber Membrane Module and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Submerged Hollow Fiber Membrane Module.

This report presents a comprehensive overview, market shares, and growth opportunities of Submerged Hollow Fiber Membrane Module market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Polyvinylidene Fluoride (PVDF) Modules

Polyethersulfone (PES) Modules

Others

Segmentation by Application:

Municipal Water Treatment

Industrial Wastewater Recycling

Food Processing

Biopharmaceutical

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Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

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Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Veolia

Supratec Membrane GmbH

Nitto (Hydranautics)

Originwater

Imemflo

Toray Membrane

Sumitomo Electric Industries, Ltd.

Qua Group LLC

Unicore membrane science and technology

PCI Membranes

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Submerged Hollow Fiber Membrane Module market?

What factors are driving Submerged Hollow Fiber Membrane Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Submerged Hollow Fiber Membrane Module market opportunities vary by end market size?

How does Submerged Hollow Fiber Membrane Module break out by Type, by Application?

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