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Global Column Hollow Fiber Membrane Module Market Growth 2026-2032

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Abstracts

The global Column Hollow Fiber Membrane Module market size is predicted to grow from US$ 4896 million in 2025 to US$ 6386 million in 2032; it is expected to grow at a CAGR of 3.9% from 2026 to 2032.

A Column Hollow Fiber Membrane Module refers to a specialized, cylindrical-shaped membrane separation unit designed for water purification, wastewater treatment, and industrial fluid separation processes. Its core structure consists of a rigid columnar housing (typically made of corrosion-resistant materials like UPVC, stainless steel, or glass fiber-reinforced plastic) that encloses a dense bundle of hollow fiber membranes—thin, porous, tube-like structures (with outer diameters usually ranging from 50 to 200 ?m and inner diameters from 20 to 100 ?m) fabricated from high-performance polymers such as PVDF, PES.

In 2024, global Column Hollow Fiber Membrane Module production reached approximately 7,665 K units, with an average global market price of around US$ 629 per unit. The single-line production capacity of Column Hollow Fiber Membrane Module is 318,605 units per year, the average gross profit margin was 31%.

Upstream, the supply chain of Column Hollow Fiber Membrane Modules starts with suppliers of core raw materials and production equipment: polymer resin manufacturers (e.g., Solvay supplying high-purity PVDF resins) provide base materials like PVDF, PES, and PAN for hollow fiber membrane spinning; chemical suppliers offer curing agents (e.g., polyamide amine resins) and modified epoxy resins critical for sealing membrane bundles ; material vendors supply corrosion-resistant columnar housing materials (UPVC, stainless steel, ABS) ; and equipment manufacturers provide spinning machines for membrane fiber production and encapsulation equipment for module

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assembly. These upstream inputs are then delivered to midstream module manufacturers, which integrate them through processes like membrane spinning, bundle arrangement, epoxy potting of ends, and column housing assembly to produce finished columnar modules (e.g., UF modules, MBR modules). Downstream, these modules flow to two key groups: first, water treatment equipment integrators that embed them into complete systems (UF, RO, MBR systems) for end-users; second, direct end-users including municipal sewage treatment plants, industrial enterprises (textile, semiconductor for ultra-pure water), and seawater desalination projects, while also supporting extended downstream services such as membrane cleaning and replacement to maintain system operation.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Column Hollow Fiber Membrane Module Industry Forecast” looks at past sales and reviews total world Column Hollow Fiber Membrane Module sales in 2025, providing a comprehensive analysis by region and market sector of projected Column Hollow Fiber Membrane Module sales for 2026 through 2032. With Column 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 Column Hollow Fiber Membrane Module industry.

This Insight Report provides a comprehensive analysis of the global Column Hollow Fiber Membrane Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Column 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 Column Hollow Fiber Membrane Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Column 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 Column Hollow Fiber Membrane Module.

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

Market Segmentation

Segmentation by Type:

PVDF

PTFE

PES

Others

Segmentation by Application:

Water and Wastewater Treatment

Food and Beverage

Biotechnology

Medical

Other

This report also splits the market by region:

Americas

United States

Canada

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- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey

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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.

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

DIC

Parker

Toray Membrane

Kovalus Separation Solutions

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Asahi Kasei Corporation

Zhejiang Cpcell Membrane Technology

Key Questions Addressed in this Report

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

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

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

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

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

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