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Global Tubular Membrane Module (Inside Out) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tubular Membrane Module (Inside Out) market size is expected to reach $ 697 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

An tubular membrane module (inside out) is a type of membrane separation equipment that utilizes tubular membranes as the core filtration unit and operates via a flow pattern where permeation occurs from the inside of the membrane tube to the outside. These modules are typically assembled from multiple hollow tubular membrane elements connected in parallel or series. Feed liquid enters the interior of the membrane tubes; driven by pressure, water molecules or target small molecules permeate through the membrane layer to the outside, while suspended solids, macromolecular organics, colloids, microorganisms, and other rejected substances remain in the concentrate within the tubes, thereby achieving solid-liquid separation, concentration, and purification. In 2025, the global sales volume of tubular membrane modules (inside out) reached 205,000 units, with a production capacity of approximately 350,000 units; the average selling price was $2,350 per unit, and the average gross profit margin ranged from 30% to 40%.

The core structure of an tubular membrane module (inside out) typically comprises a tubular support layer, a filtration membrane layer, a housing, inlet/outlet ports, and sealing components. Compared to outside-in tubular membrane modules, the inside-out configuration is characterized by the feed liquid flowing through the interior of the membrane tubes, causing contaminants to accumulate initially on the inner surface. This facilitates the mitigation of membrane fouling through high-speed cross-flow, hydraulic flushing, or chemical cleaning, making it particularly suitable for complex water treatment scenarios involving high turbidity, high suspended solids content, high

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viscosity, or oily wastewater.

Technological development for tubular membrane modules (inside out) focuses primarily on enhancing membrane flux, mitigating fouling, extending service life, and improving adaptability to complex operating conditions. Current market technologies center on organic and ceramic tubular membranes; organic membranes—such as PVDF and PES—are widely used in industrial wastewater treatment due to their cost-effectiveness, whereas ceramic membranes—made of materials like alumina and zirconia—are increasingly penetrating high-value industrial separation sectors thanks to their resistance to high temperatures, acids, and alkalis, as well as their ability to withstand repeated cleaning. Future technological trends include the development of high-performance ceramic membrane materials, composite membrane structural design, module modularization, high-flux operation, and intelligent online monitoring. Furthermore, driven by the growth of the new energy industry, the development of novel, highly selective membrane technologies for the recovery of resources such as lithium, nickel, and cobalt will emerge as a key area of ??research and development.

Report Scope

This report studies the global Tubular Membrane Module (Inside Out) production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Tubular Membrane Module (Inside Out) total production and demand, 2021-2032, (K Units)

Global Tubular Membrane Module (Inside Out) total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Tubular Membrane Module (Inside Out) domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Tubular Membrane Module (Inside Out) 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 Protex, Duraflow, Jiuwu Hi-Tech, Microdyn-Nadir, KAHO, Ai YuQi, Origin Water, Atech Innovations, TAMI Industries, Kovalus Separation Solutions, 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 Tubular Membrane Module (Inside Out) 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 Tubular Membrane Module (Inside Out) Market, By Region:

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United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tubular Membrane Module (Inside Out) Market, Segmentation by Type:

Inorganic Membrane

Organic Membrane

Global Tubular Membrane Module (Inside Out) Market, Segmentation by Membrane Separation Precision:

0.001–0.1 ?m

0.1–10 ?m

1–10 nm

Global Tubular Membrane Module (Inside Out) Market, Segmentation by Structure:

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Single Tube Module

Multi-Tube Module

Global Tubular Membrane Module (Inside Out) Market, Segmentation by Application:

Electronics, Semi and Plating Industrial

Chemical Industrial

Energy

Others

Companies Profiled:

Protex

Duraflow

Jiuwu Hi-Tech

Microdyn-Nadir

KAHO

Ai YuQi

Origin Water

Atech Innovations

TAMI Industries

Kovalus Separation Solutions

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Key Questions Answered:

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

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