

Membrane Technology Market is estimated to be US\$ 48.7 billion by 2029 With a CAGR of 7.0% over the forecast period

[Membrane Technology Market](#) accounted for US\$ 25.0 billion in 2019 and is estimated to be US\$ 48.7 billion by 2029 and is anticipated to register a CAGR of 7.0% .Membrane technology is a mechanical separation process that involves the separation of liquid or gaseous stream by using permeable membranes. It is superior to conventional separation process as it doesn't require heat for separation and consumes less energy. It provides better separation of components either by retention or permeation. Membrane technology has wide applications in pharmaceutical, biopharmaceutical, life sciences and food industry. These applications involve separation and analysis of genetic components, cell culturing, separation of viruses and drug screening. Due to increasing popularity of this technique, it is anticipated to register a healthy CAGR during forecast period. According to the reports, Biwater Inc. has continued to demonstrate growth as an essential business and leading membrane technology provider, notwithstanding the initial impact of the COVID-19 pandemic. Over the past twelve months Biwater have successfully been executing 11 projects with a total installed capacity over 285,000 m3/day.

The report "Global Membrane Technology Market, By Technology (Ultrafiltration, Chromatography, Microfiltration, Nanofiltration, Reverse Osmosis, and Electrodialysis) and By Region (North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa) - Trends, Analysis and Forecast till 2029".

Key Highlights:

- In July 2020, SUEZ announced that it has signed an agreement to purchase the Reverse Osmosis (RO) membrane portfolio from specialty chemical company LANXESS. The membrane will become part of the company' Water Technologies & Solutions product portfolio and further enhances the business' ability to help customers address water treatment challenges.
- In August 2020, Suez Water Technologies announced that the Region of Waterloo (Canada) has selected SUEZ's ZeeLung technology to equip what will be the largest Membrane Aerated Biofilm Reactor (MABR) system in the world at the Hespeler Wastewater Treatment Plant, in Ontario. The innovative technology will support the regional government's objectives to deliver better water quality while improving nutrient removal, reducing energy and maximizing the treatment capacity and performance from existing assets.

Analyst View:

The pharmaceutical industry demonstrates the use of membrane technology in separation, purification, concentration processes which are expected to be a favorable factor for market over the forecast period. Attributed to growing production levels and R&D investments is a major factor. There are several other applications of membrane technology, such as lab-scale DNA and protein separation, analysis, drug screening, cell culture and examination, and virus removal, which are likely to fuel the market growth. Moreover, the membrane filter technology offers a wide range of products, including microarray products, multi-well filters, syringe membranes filters, and bottle top filters. According to the report, there is a new membrane developed at the

Helmholtz-Zentrum Geesthacht (HZG) separates small dye particles or drug substances not only by size but also by their electrical charge. This additional function enables organic molecules with lateral dimensions of one to two nanometres to be such high-efficiently separated for the first time. HZG's polymer researcher Zhenzhen Zhang has now presented her results in the journal *Advanced Materials*.

Increasing deployment of membrane materials in food & beverage industry on account of being adaptive during temperature change along with inducing low energy consumption is expected to remain the favorable factor for the market in the near future. Wastewater treatment is expected to be the potential application on account of deployment of membrane technology for reducing effluent levels. According to the report Scientists at the Department of Energy's (DOE) Argonne National Laboratory have developed a light-activated coating for filtration membranes — the kind used in water treatment facilities, at semiconductor manufacturing sites and within the food and beverage industry. As well as Coretech has applications in petrochemicals, healthcare, and the water treatment industry. New product development along with strategic tie-ups with buyers is expected to remain a critical success factor for the market in the near future.

Key Market Insights from the report:

The global membrane technology market accounted for US\$ 25.0 billion in 2019 and is estimated to be US\$ 48.7 billion by 2029 and is anticipated to register a CAGR of 7.0%. The market report has been segmented on the basis of technology, and region.

- By technology, microfiltration represents a major segment, owing to its applications in water treatment, turbidity removal, disinfection, and sterilization of beverages.
- By region, North America is expected to dominate the global market in light of flourishing pharmaceutical and biotechnology industries in the U.S. With the presence of strong regulatory FDA in the U.S., the membrane technology market is expected to grow. The aforementioned application of membrane technology in numerous industries, the governments and industrialists are majorly investing in membrane technology, thus helping membrane technology flourish and grow. Increasing expenditure on membrane technology in numerous associations, societies, and organizations is expected to provide new market opportunities for manufacturers in the near future.

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Competitive Landscape:

The prominent player operating in the global membrane technology market includes Sartorius, Merck Millipore, Amazon Filters, 3M Company, GE Healthcare life sciences, Advantec MFS, Koch Membrane System, Pall Corporation, 3M Healthcare, and Novasep.

The market provides detailed information regarding the industrial base, productivity, strengths, manufacturers, and recent trends which will help companies enlarge the businesses and promote financial growth. Furthermore, the report exhibits dynamic factors including segments, sub-segments, regional marketplaces, competition, dominant key players, and market forecasts. In addition, the market includes recent collaborations, mergers, acquisitions, and partnerships along with regulatory frameworks across different regions impacting the market trajectory. Recent technological advances and innovations influencing the global market are included in the report.

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