

# Membrane Separation Market Poised for High Growth, Projected to Reach USD 95.24 Billion by 2034 at a 12.2% CAGR

The growing demand for clean water worldwide is a prominent factor driving the membrane separation market.

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The application of membrane separation stretches manifold industries involving food processing, water treatment, and energy production.”

*Polaris Market Research*

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With a CAGR of 12.2%, the global membrane separation market is expected to reach a value of over USD 95.24 billion by 2034 from an estimated USD 30.24 billion in 2024.

Membrane separation is a process used to separate particles and molecules from a liquid or gas mixture.

Membranes are segregated utilizing pressure distinction covering the membrane. Elevated pressure is petitioned on one side of the membrane, coercing the compact molecules through the pores and obstructing bigger molecules. The particular kind of membrane separation process relies on the magnitude of the segregated molecules, the craved segregation productivity, and alternate elements such as temperature, pH levels, and concentration.

In the absence of the pressure, membrane separation would not function. The pressure variation covering the membrane decides which materials can perforate versus which are obstructed. Strict wastewater emission directives are projected to impact the membrane separation market growth favorably.

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- 3M
- Applied Membranes Inc.
- Dow
- Veolia
- UBE Corporation
- SPX FLOW
- ProMinent
- PCI Membranes
- Nitto Denko Corporation
- Merck KGaA
- Evonik
- Mitsubishi Heavy Industries, Ltd.
- Air Products and Chemicals, Inc
- Evoqua Water Technologies LLC



are some of the leading players in the membrane separation market. Significant market contenders are funding massively in research and development to augment their offerings which will assist the market to grow even more. Market contenders are also scheming an assortment of strategic ventures to augment their global footprint with crucial market advancements involving inventive instigations, international associations, elevated funding, and mergers and acquisitions amidst firms. Some of the latest developments in the market are:

- In May 2024, Air Products, the worldwide contender in the production of gas separation and salvation membranes, declared the instigation of the contemporary PRISM GreenSep liquefied natural gas (LNG) membrane separator for bio-LNG production.
- In April 2024, Mitsubishi Heavy Industries, Ltd., a Japan-set transnational engineering, electrical equipment, and electronics corporation, partnered with NGK INSULATORS, LTD. to advance a hydrogen refining system dependent on membrane separation technology.

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**Augmentation of Food and Beverages:** The market is driven by the augmentation of food and beverages and healthcare sectors. Membrane technologies are utilized to focus and refine constituents such as juices and dairy commodities in the food and beverage sector. Technologies that improve product standards and longevity, together with the requirement for undiluted water in pharmaceutical and medical gadgets, are driving the demand for the market.

Surge in Clean Water Demand: The demand for clean water surges acutely for manufacturing procedures as industries swell. Membrane separation technologies offer productive cure solutions to encounter the growing requirement. Additionally, the provocation of handling waste water surges with industrial development. This, in turn, is having a favorable impact on membrane separation market sales.

Growing Urbanization: The growing urbanization globally is expected to fuel the market in the near future. World Bank data declares that 4.4 billion population resides in cities and the enumeration is anticipated to double by 2050. Urban dwellings are growingly concentrated on green water handling practices involving water utilization.

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North America: North America accounted for the largest membrane separation market share. The region's robust growth is primarily due to notable funding in the water framework and strict regulatory directives that encourage the acquisition of progressive separation technologies.

Asia Pacific: Asia Pacific is anticipated to witness significant growth from 2025 to 2034. This can be attributed to speedy urbanization and industrialization in nations such as China and India.

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How much is the membrane separation market worth?

The market size was valued at USD 30.24 billion in 2024 and is projected to grow to USD 95.24 billion by 2034.

What is the growth rate of the membrane separation market?

The global market is projected to register a CAGR of 12.2% during the forecast period.

Which region held the largest market share?

North America accounted for the largest share of the global market in 2024.

Which segment by technology is expected to register a significant CAGR in the market during the forecast period?

The ultrafiltration technology segment is projected for significant growth in the global market during 2025–2034.

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