

Europe Membrane Separation Systems Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Technology (Reverse Osmosis, Microfiltration, Ultrafiltration, Nanofiltration, Ion Exchange, and Others), Application (Environmental, Food and Beverages, Healthcare, and Others), and Material [Polyethersulfone (PES), Polysulfone (PSF), Polypropylene (PP), Polyvinylidene Fluoride (PVDF), Polyacrylonitrile (PAN), and Others]

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Abstracts

The Europe membrane separation systems market is expected to grow from US\$ 6,449.78 million in 2022 to US\$ 10,697.39 million by 2028. It is estimated to record a CAGR of 8.8% from 2022 to 2028.

Extensive Use in Wastewater Treatment Fuels Europe Membrane Separation Systems Market Growth

The demand for clean, safe, and potable water is surging due to rapidly increasing population and industrialization. Water contamination by heavy metals, cyanides, and dyes is increasing. Membrane processes such as microfiltration (MF), ultrafiltration (UF), nanofiltration (NF), and reverse osmosis (RO) are widely used for the filtration of brackish and seawater. Graphene oxide membranes (GMs) are promising in water treatment applications, such as desalination and wastewater treatment. GMs are reported to provide a wide range of pure water flux due to their hydrophilic properties, flexibility, and high mechanical strength, whereas UF and NF membranes are used for waste stream purification obtained from washing filtration beds from swimming pool

water systems. The facts mentioned above determine the rising use of membrane separation systems for wastewater treatment, which is bolstering the market growth in the region.

Europe Membrane Separation Systems Market Overview

The Europe membrane separation systems market is segmented into the UK, Germany, France, Italy, Spain, and the Rest of Europe. Germany held the largest market share in 2022. Wastewater from industries is highly variable; it differs with different processing operations. Advancements in membrane technology have shown many advantages for wastewater treatment. Membrane filtration is used to separate dissolved substances and fine particles from solutions. Most commercial membranes are usually made of organic polymers (polysulfones and polyamides) and inorganic materials (ceramic membranes based on oxides of zirconium, titanium, silicon, and aluminum). Also, the presence of local market players offering wastewater treatment systems is likely to favor the market growth. Germany-based ENVICON has over 30 years of experience in manufacturing and developing efficient, durable diffusers for wastewater treatment. The company offers sophisticated membrane mixtures and ceramic diffusers used for the waste and potable water sectors. The increasing demand for safe and clean drinking water is expected to drive the growth of the market by 2028. Owing to the increasing water contamination, water purifiers with RO, UF, or MF are used for residential purposes. This factor drives the market growth. Additionally, government initiatives for water conservation are expected to drive the growth of the membrane separation systems market in the coming years. Water contamination and pollution have been rising over the years due to the dumping of industrial waste in water bodies. The European Union has imposed rigorous regulations to ensure safe and clean water and keep the water bodies clean, which is likely to drive the growth of the market in the coming years.

Europe Membrane Separation Systems Market Revenue and Forecast to 2028 (US\$ Million)

Europe Membrane Separation Systems Market Segmentation

The Europe membrane separation systems market is segmented based on technology, application, material, and country.

Based on technology, the Europe membrane separation systems market is segmented into reverse osmosis, microfiltration, ultrafiltration, nanofiltration, ion exchange, and

others. The reverse osmosis segment held the largest market share in 2022.

Based on application, the Europe membrane separation systems market is segmented into environmental, food and beverages, healthcare, and others. The environmental segment held the largest market share in 2022.

Based on material, the Europe membrane separation systems market is segmented into polyethersulfone (PES), polysulfone (PSF), polypropylene (PP), polyvinylidene Fluoride (PVDF), polyacrylonitrile (PAN), and others. The others segment held the largest market share in 2022.

Based on country, the Europe membrane separation systems market has been categorized into the UK, Germany, France, Italy, Spain, and the Rest of Europe. The Rest of Europe dominated the market share in 2022.

3M, Alfa Laval AB, DuPont de Nemours Inc, GEA Group AG, Hydranautics, Koch Separation Systems Inc, MANN+HUMMEL International GmbH & Co KG, Pentair Plc, ProMinent GmbH, and Veolia Water Technologies SASU are the leading companies operating in the Europe membrane separation systems market.

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