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Membrane Separation Technologies: United Kingdom

March 2019



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About This Report

Scope

This report forecasts to 2023 membrane demand in nominal US dollars at the manufacturer level in the UK. Total demand is segmented by product in terms of:

- microfiltration
- reverse osmosis
- ultrafiltration
- other membranes such as nanofiltration, electro dialysis, and pervaporation

Total demand is also segmented by market as follows:

- food and beverage processing
- wastewater treatment
- pharmaceutical and medical
- water treatment
- other markets such as chemical processing, commercial and consumer water treatment, and electronics processing

To illustrate historical trends, total demand is provided in annual series from 2008 to 2018; the various segments are reported at five-year intervals for 2008, 2013, and 2018.

This report covers the market for membranes, which are permeable surfaces with pore sizes of less than 10 micrometers (μm). Only the membrane elements themselves are included in the scope of this report; membrane filtration units and other related equipment are excluded. Conventional particle filtration (i.e., filters with pore sizes greater than 10 μm) are also excluded.

Demand encompasses the sale of a membrane element from the manufacturer to distributors or end users. Additional markups due to the inclusion of the membrane in a larger system or from related services are excluded.

For any given historical year, US dollar amounts are obtained from values expressed in the applicable local currency. These local currency values are converted to US dollars at the average annual exchange rate for that year. For forecast years, the US dollar amounts assume the same annual exchange rate as that prevailing in 2018.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Membrane Separation Technologies: United Kingdom (FB35047) is based on [Global Membrane Separation Technologies](#), a comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental and non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 6 | HS Codes Related to Membranes

HS Code	Definition
8421	Centrifuges, including centrifugal dyers; filtering or purifying machinery and apparatus, for liquids or gases; parts thereof

Source: United Nations Statistics Division

Table 7 | NACE Codes Related to Membranes

NACE Code	Definition
2229	Manufacture of other plastic products
2344	Manufacture of other technical ceramic products
2893	Manufacture of machinery for food, beverage and tobacco processing
2899	Manufacturing of other special-purpose machinery, NEC

Source: European Commission

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

About This Report

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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Resources

The Freedonia Group

Global Membrane Separation Technologies

Freedonia Industry Studies

Consumer Water Treatment Systems in the US

Food Safety Products in the US

Global Activated Carbon

Global Aquaculture: Feed, Equipment, & Chemicals

Global Consumer Water Treatment Systems

Global Nonwovens

Global Pumps Market

Global Water Disinfection Equipment Market

Global Water Filtration Equipment Markets

Pipe: Products & Markets

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Beverages: United States

Bottled Water: United States

Food Retail: United States

Global Demographics

Global Housing

Global Pharmaceutical Packaging

Potable Water Pipe: United States

Water Filtration Equipment: United Kingdom

Water Treatment Chemicals: Canada

Water: United States

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Trade Publications

Beverage Industry

Filtration + Separation

Filtration News

Food Processing

Process Industry Informer

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Association of Water Technologies

British Water

European Membrane Society

European Water Association

Eurostat

International Desalination Association

International Monetary Fund

Organisation for Economic Co-operation and Development

United Kingdom Water Treatment Association

United Nations Comtrade

Water Quality Association

Water UK

World Association of Membrane Societies

World Bank