

Membrane Aerated Biofilm Reactor Market- Global Industry Size, Share, Trends, Opportunity, and Forecast. 2018-2028F Segmented By Application (Municipal and Industrial), By Treatment Capacity (1 m³/d – 50 m³/d, 50 m³/d – 150 m³/d, 150 m³/d – 500 m³/d and Above 500 m³/d), By Type (Modules, Containerized and Concrete Plants), By Region

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Abstracts

Global Membrane Aerated Biofilm Reactor market is anticipated to grow robustly in the forecast period 2024-2028. Over the past several years, industrialization and population density have increased global demand for clean and fresh water. The market is expected to grow with a high CAGR in the forecast period. The activated sludge process and membrane technologies including microfiltration or ultrafiltration, are combined to create the membrane bioreactor (MBR), which is a method for treating wastewater, biologically. Today, it is often employed in the treatment of industrial and municipal wastes. There are two different MBR configurations: the first is known as a submerged membrane bioreactor (SMBR), and the second is termed as a side stream membrane bioreactor. The membrane is positioned within the biological reactor in the first configuration, immersed in the wastewater, whereas in the second configuration, the membrane is positioned outside the reactor as an extra step, following biological treatment.

Rising Demand of Freshwater and Concern of Less Carbon Emission Driving the Market in The Future

The main factor driving the global market for membrane-aerated biofilm reactors is the concern about freshwater shortages. Governments and regulatory agencies are

implementing strict regulations regarding wastewater treatment. Additionally, several governments are offering tax breaks and other incentives to encourage the use of wastewater treatment systems, in both the residential and commercial sectors. Therefore, one of the ways to prevent water pollution is to implement strict rules that encourage water conservation and the reuse of treated wastewater.

The global membrane-aerated biofilm reactor market is anticipated to experience growth over the forecast period due to increased energy efficiency, improved treatment capacity, and reduced carbon emissions from such reactors. Membrane-aerated biofilm reactors boost treatment capacity by more than 50% while consuming less energy overall. It is thus an environmentally beneficial option.

The self-respiring, spirally coiled membrane envelope at the center of Fluence's MABR passively introduces oxygen into the wastewater so that beneficial bacteria can flourish. Due to these factors, the market is likely to continue expanding in the future with a high CAGR.

Rising Government Concern and Funding Towards MABR

Membrane-aerated biofilm reactors, which have higher energy efficiency and more treatment capacity than aerobic wastewater treatment, provide more advanced water filtration. The membrane-aerated biofilm reactor technology is, therefore, receiving more significant funding through companies.

For instance, GE officially announced its innovative ZeeLung* Membrane Aerated Biofilm Reactor (MABR) technology, which is four times more energy efficient than current aeration systems and accounts for 35 percent of the energy budget of a typical municipal government in the United States.

Regulatory and governmental authorities have mandated the development of wastewater treatment systems. However, companies that require significant financial inputs are hesitant to use these systems. Thus, the global market for membrane-aerated biofilm reactors is significantly restricted by this aspect, also including the lack of infrastructure and consumer awareness.

Market Segmentation

The Global Membrane Aerated Biofilm Reactor market is segmented based on Application, Treatment Capacity and Type. Based on Application, the market is

segmented into municipal and industrial. Based on Treatment Capacity, the market is segmented into 1 m³/d – 50 m³/d, 50 m³/d – 150 m³/d, 150 m³/d – 500 m³/d and Above 500 m³/d. Based on type, the market is segmented into modules, containerized and concrete plants.

Market player

Major players operating in the Global Membrane Aerated Biofilm Reactor market include Suez SA, Fluence Corporation, Oxymem Limited, GENERAL ELECTRIC, Linde Engineering India Pvt. Ltd. (LEI), Verde Environmental Group.

Report Scope:

In this report, Global Membrane Aerated Biofilm Reactor Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Membrane Aerated Biofilm Reactor Market, By Application:

Municipal

Industrial

Membrane Aerated Biofilm Reactor Market, By Treatment Capacity:

1 m³/d – 50 m³/d

50 m³/d – 150 m³/d

150 m³/d – 500 m³/d

Above 500 m³/d

Membrane Aerated Biofilm Reactor Market, By Type:

Modules

Containerized

Concrete Plants

Membrane Aerated Biofilm Reactor Market, By Region:

North America

United States

Mexico

Canada

Asia-Pacific

India

Japan

South Korea

Australia

Singapore

Malayasia

China

Europe

Germany

United Kingdom

France

Italy

Spain

Poland

Denmark

South America

Brazil

Argentina

Colombia

Peru

Chile

Middle East

Saudi Arabia

South Africa

UAE

Iraq

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Membrane Aerated Biofilm Reactor Market.

Available Customizations:

Global Membrane Aerated Biofilm Reactor Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The

following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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