

# **Global Biofilter Market Size study & Forecast, By Type (Biological Aerated Biofilter System, Denitrification Biofilter Systems, Activated Carbon Biofilters, Fixed Films, Fluidized Bed Filter), By Filter Media (Ceramic Rings, Bio Balls, Moving Bed Filter Media, Others), By Application (VOC Treatment, Nitrification, Denitrification, Odor Abatement, Others), By End-user (Storm Water Management, Water & Wastewater collection, Chemical processing, Food & Beverage, Aquaculture, Biopharma industry, Others) and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Biofilter Market is valued at approximately USD 2,088.8 million in 2022 and is anticipated to grow with a healthy growth rate of more than 9.14% over the forecast period 2023-2030. A biofilter is a water or air filtration system that breaks down impurities and pollutants using microorganisms. The microorganisms in the biofilter are typically bacteria or fungi that can metabolise and remove organic chemicals from the air or water, such as nitrogenous compounds or volatile organic compounds (VOCs). In industrial settings, such as wastewater treatment facilities, biofilters are frequently employed to filter contaminants out of the air and water before they are released into the environment. The increasing initiatives and funding programs by universities to accelerate research in the biofiltration market, the increasing applications for biofiltration and an increasing need for biofilters to control rising water pollution and waterborne diseases are expected to support market growth.

Additionally, the growing demand for clean water is acting as a catalyzer in expanding the Biofilter market. According to the United Nations, in 2022, The need for clean water for human consumption, irrigating crops, and industrial use is expected to rise when the world population approaches 8.5 billion in 2030 and 9.7 billion in 2050. Effective and efficient water treatment technologies are more important than ever due to rising demand. The use of biofilters is an appealing way to meet the rising demand for clean water. To break down organic molecules, nitrogenous compounds, and other contaminants in water, they employ naturally occurring microbes. Moreover, as consumers become more environmentally conscious, there is a growing demand for sustainable and eco-friendly products and the constant development of novel technologies to support biofiltration systems by the market presents various lucrative opportunities over the forecasting years. However, the initial cost of installing a biofilter system might be substantial, which may put off some potential customers or prevent its use in smaller enterprises, which in turn stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Biofilter Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 due to the presence of large corporations, substantial government support, and a rise in research efforts in the region. In comparison to other regions, North America was the first to use the biofiltration process, making it the largest producer of biofilters. The idea of self-cleaning aquariums that utilize biofiltration is still fueling industry expansion. Due to the growing use of biofilters in agriculture and wastewater treatment, Asia-Pacific is anticipated to have considerable growth throughout the forecast period. Additionally, the region is seeing an increase in government initiatives to support environmentally friendly waste management techniques, which is anticipated to encourage the use of biofilters there.

Major market player included in this report are:

Aquael

Aquaneering, Inc.

AZOO BIO CORPORATION

EHEIM GmBh & Co. KG

Pentair Aquatic Eco-systems, Inc

CMI Europe Environment SA

OdaTech

Bohn Biofilter Corporation

Pure Air Solutions

Waterloo Biofilter Systems Inc.

### Recent Developments in the Market:

In July 2021, the Finnish environmental technology company BMH Technology announced a collaboration with the Spanish water and waste management company Sacyr to develop a new biofilter system for the treatment of biogas emissions from waste treatment plants.

### Global Biofilter Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, Filter Media, Application, End User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

#### By Type:

Biological Aerated Biofilter System

Denitrification Biofilter Systems

Activated Carbon Biofilters

Fixed Films

Fluidized Bed Filter

#### By Filter Media:

Ceramic Rings

Bio Balls

Moving Bed Filter Media  
Others

By Application:  
VOC Treatment  
Nitrification  
Denitrification  
Odor Abatement  
Others

By End User:  
Storm Water Management  
Water & Wastewater collection  
Chemical processing  
Food & Beverage  
Aquaculture  
Biopharma industry  
Others

North America  
U.S.  
Canada

Europe  
UK  
Germany  
France  
Spain  
Italy  
ROE

Asia Pacific  
China  
India  
Japan  
Australia  
South Korea  
RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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