

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

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Million)
 - 1.2.1. Biofilter Market, by Region, 2020-2030 (USD Million)
 - 1.2.2. Biofilter Market, by Type, 2020-2030 (USD Million)
 - 1.2.3. Biofilter Market, by Filter Media, 2020-2030 (USD Million)
 - 1.2.4. Biofilter Market, by Application, 2020-2030 (USD Million)
 - 1.2.5. Biofilter Market, by End User, 2020-2030 (USD Million)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL BIOFILTER MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL BIOFILTER MARKET DYNAMICS

- 3.1. Biofilter Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Increasing applications for biofilters
 - 3.1.1.2. Rising pollution and waterborne diseases
 - 3.1.1.3. Increasing initiatives and funding programs by universities for conducting research
 - 3.1.2. Market Challenges
 - 3.1.2.1. High Capital Investment
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Advancements in Technology by Market Players
 - 3.1.3.2. Increase in the demand for Sustainable and Eco-friendly practices

CHAPTER 4. GLOBAL BIOFILTER MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL BIOFILTER MARKET, BY TYPE

- 5.1. Market Snapshot
- 5.2. Global Biofilter Market by Type, Performance - Potential Analysis
- 5.3. Global Biofilter Market Estimates & Forecasts by Type 2020-2030 (USD Million)
- 5.4. Biofilter Market, Sub Segment Analysis
 - 5.4.1. Biological Aerated Biofilter System
 - 5.4.2. Denitrification Biofilter Systems
 - 5.4.3. Activated Carbon Biofilters
 - 5.4.4. Fixed Films
 - 5.4.5. Fluidized Bed Filter

CHAPTER 6. GLOBAL BIOFILTER MARKET, BY FILTER MEDIA

- 6.1. Market Snapshot
- 6.2. Global Biofilter Market by Filter Media, Performance - Potential Analysis
- 6.3. Global Biofilter Market Estimates & Forecasts by Filter Media 2020-2030 (USD)

Million)

6.4. Biofilter Market, Sub Segment Analysis

- 6.4.1. Ceramic Rings
- 6.4.2. Bio Balls
- 6.4.3. Moving Bed Filter Media
- 6.4.4. Others

CHAPTER 7. GLOBAL BIOFILTER MARKET, BY APPLICATION

7.1. Market Snapshot

7.2. Global Biofilter Market by Application, Performance - Potential Analysis

7.3. Global Biofilter Market Estimates & Forecasts by Application 2020-2030 (USD Million)

7.4. Biofilter Market, Sub Segment Analysis

- 7.4.1. VOC Treatment
- 7.4.2. Nitrification
- 7.4.3. Denitrification
- 7.4.4. Odor Abatement
- 7.4.5. Others

CHAPTER 8. GLOBAL BIOFILTER MARKET, BY END USER

8.1. Market Snapshot

8.2. Global Biofilter Market by End User, Performance - Potential Analysis

8.3. Global Biofilter Market Estimates & Forecasts by End User 2020-2030 (USD Million)

8.4. Biofilter Market, Sub Segment Analysis

- 8.4.1. Storm Water Management
- 8.4.2. Water & Wastewater collection
- 8.4.3. Chemical processing
- 8.4.4. Food & Beverage
- 8.4.5. Aquaculture
- 8.4.6. Biopharma industry
- 8.4.7. Others

CHAPTER 9. GLOBAL BIOFILTER MARKET, REGIONAL ANALYSIS

9.1. Top Leading Countries

9.2. Top Emerging Countries

9.3. Biofilter Market, Regional Market Snapshot

9.4. North America Biofilter Market

9.4.1. U.S. Biofilter Market

9.4.1.1. Type breakdown estimates & forecasts, 2020-2030

9.4.1.2. Filter Media breakdown estimates & forecasts, 2020-2030

9.4.1.3. Application breakdown estimates & forecasts, 2020-2030

9.4.1.4. End User breakdown estimates & forecasts, 2020-2030

9.4.2. Canada Biofilter Market

9.5. Europe Biofilter Market Snapshot

9.5.1. U.K. Biofilter Market

9.5.2. Germany Biofilter Market

9.5.3. France Biofilter Market

9.5.4. Spain Biofilter Market

9.5.5. Italy Biofilter Market

9.5.6. Rest of Europe Biofilter Market

9.6. Asia-Pacific Biofilter Market Snapshot

9.6.1. China Biofilter Market

9.6.2. India Biofilter Market

9.6.3. Japan Biofilter Market

9.6.4. Australia Biofilter Market

9.6.5. South Korea Biofilter Market

9.6.6. Rest of Asia Pacific Biofilter Market

9.7. Latin America Biofilter Market Snapshot

9.7.1. Brazil Biofilter Market

9.7.2. Mexico Biofilter Market

9.8. Middle East & Africa Biofilter Market

9.8.1. Saudi Arabia Biofilter Market

9.8.2. South Africa Biofilter Market

9.8.3. Rest of Middle East & Africa Biofilter Market

CHAPTER 10. COMPETITIVE INTELLIGENCE

10.1. Key Company SWOT Analysis

10.1.1. Company

10.1.2. Company

10.1.3. Company

10.2. Top Market Strategies

10.3. Company Profiles

10.3.1. Aquael

- 10.3.1.1. Key Information
- 10.3.1.2. Overview
- 10.3.1.3. Financial (Subject to Data Availability)
- 10.3.1.4. Product Summary
- 10.3.1.5. Recent Developments
- 10.3.2. Aquaneering, Inc.
- 10.3.3. AZOO BIO CORPORATION
- 10.3.4. EHEIM GmbH & Co. KG
- 10.3.5. Pentair Aquatic Eco-systems, Inc
- 10.3.6. CMI Europe Environment SA
- 10.3.7. OdaTech
- 10.3.8. Bohn Biofilter Corporation
- 10.3.9. Pure Air Solutions
- 10.3.10. Waterloo Biofilter Systems Inc.

CHAPTER 11. RESEARCH PROCESS

- 11.1. Research Process
 - 11.1.1. Data Mining
 - 11.1.2. Analysis
 - 11.1.3. Market Estimation
 - 11.1.4. Validation
 - 11.1.5. Publishing
- 11.2. Research Attributes
- 11.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Biofilter Market, report scope

TABLE 2. Global Biofilter Market estimates & forecasts by Region 2020-2030 (USD Million)

TABLE 3. Global Biofilter Market estimates & forecasts by Type 2020-2030 (USD Million)

TABLE 4. Global Biofilter Market estimates & forecasts by Filter Media 2020-2030 (USD Million)

TABLE 5. Global Biofilter Market estimates & forecasts by Application 2020-2030 (USD Million)

TABLE 6. Global Biofilter Market estimates & forecasts by End User 2020-2030 (USD Million)

TABLE 7. Global Biofilter Market by segment, estimates & forecasts, 2020-2030 (USD Million)

TABLE 8. Global Biofilter Market by region, estimates & forecasts, 2020-2030 (USD Million)

TABLE 9. Global Biofilter Market by segment, estimates & forecasts, 2020-2030 (USD Million)

TABLE 10. Global Biofilter Market by region, estimates & forecasts, 2020-2030 (USD Million)

TABLE 11. Global Biofilter Market by segment, estimates & forecasts, 2020-2030 (USD Million)

TABLE 12. Global Biofilter Market by region, estimates & forecasts, 2020-2030 (USD Million)

TABLE 13. Global Biofilter Market by segment, estimates & forecasts, 2020-2030 (USD Million)

TABLE 14. Global Biofilter Market by region, estimates & forecasts, 2020-2030 (USD Million)

TABLE 15. Global Biofilter Market by segment, estimates & forecasts, 2020-2030 (USD Million)

TABLE 16. Global Biofilter Market by region, estimates & forecasts, 2020-2030 (USD Million)

TABLE 17. U.S. Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 18. U.S. Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 19. U.S. Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

Million)

TABLE 20. Canada Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 21. Canada Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 22. Canada Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 23. UK Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 24. UK Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 25. UK Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 26. Germany Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 27. Germany Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 28. Germany Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 29. France Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 30. France Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 31. France Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 32. Italy Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 33. Italy Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 34. Italy Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 35. Spain Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 36. Spain Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 37. Spain Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 38. RoE Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 39. RoE Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 40. RoE Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 41. China Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 42. China Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 43. China Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 44. India Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 45. India Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 46. India Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 47. Japan Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 48. Japan Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 49. Japan Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 50. South Korea Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 51. South Korea Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 52. South Korea Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 53. Australia Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 54. Australia Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 55. Australia Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 56. RoAPAC Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 57. RoAPAC Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 58. RoAPAC Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 59. Brazil Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 60. Brazil Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 61. Brazil Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 62. Mexico Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 63. Mexico Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 64. Mexico Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 65. RoLA Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 66. RoLA Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

Million)

TABLE 67. RoLA Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 68. Saudi Arabia Biofilter Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 69. South Africa Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 70. RoMEA Biofilter Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 71. List of secondary sources, used in the study of global Biofilter Market

TABLE 72. List of primary sources, used in the study of global Biofilter Market

TABLE 73. Years considered for the study

TABLE 74. Exchange rates considered

List of tables and figures are dummy in nature, final lists may vary in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Biofilter Market, research methodology
 - FIG 2. Global Biofilter Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Biofilter Market, key trends 2022
 - FIG 5. Global Biofilter Market, growth prospects 2023-2030
 - FIG 6. Global Biofilter Market, porters 5 force model
 - FIG 7. Global Biofilter Market, pest analysis
 - FIG 8. Global Biofilter Market, value chain analysis
 - FIG 9. Global Biofilter Market by segment, 2020 & 2030 (USD Million)
 - FIG 10. Global Biofilter Market by segment, 2020 & 2030 (USD Million)
 - FIG 11. Global Biofilter Market by segment, 2020 & 2030 (USD Million)
 - FIG 12. Global Biofilter Market by segment, 2020 & 2030 (USD Million)
 - FIG 13. Global Biofilter Market by segment, 2020 & 2030 (USD Million)
 - FIG 14. Global Biofilter Market, regional snapshot 2020 & 2030
 - FIG 15. North America Biofilter Market 2020 & 2030 (USD Million)
 - FIG 16. Europe Biofilter Market 2020 & 2030 (USD Million)
 - FIG 17. Asia pacific Biofilter Market 2020 & 2030 (USD Million)
 - FIG 18. Latin America Biofilter Market 2020 & 2030 (USD Million)
 - FIG 19. Middle East & Africa Biofilter Market 2020 & 2030 (USD Million)
- List of tables and figures are dummy in nature, final lists may vary in the final deliverable

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