

**PFAS Filtration Market by Technology (Water Treatment Systems, Water Treatment Chemicals), Place of Treatment (In-Situ, Ex-Situ), Remediation Technology, Environmental Medium, Contaminant Type, and Region - Global Forecast to 2029**

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**Report description:**

The PFAS filtration market is projected to reach USD 2.8 billion by 2029, at a CAGR of 7.1% from USD 2.0 billion in 2024. The industrial expansion across various sectors in the US, including manufacturing, semiconductor, and chemical processing, has led to an increased utilization of PFAS-containing substances. For instance, in the manufacturing sector, PFAS compounds are commonly found in products like non-stick coatings, food packaging, and firefighting foams. According to the U.S. Environmental Protection Agency (EPA), the manufacturing industry is one of the primary sources of PFAS contamination, contributing to water pollution through wastewater discharge. Recent data from the EPA indicates that over 1,500 facilities across the United States are known or suspected of using PFAS in their operations, resulting in significant environmental impact.

The semiconductor industry extensively employs PFAS-containing chemicals in various manufacturing processes, such as etching and cleaning agents. Similarly, the chemical processing industry relies on PFAS compounds for their unique properties, using them in applications like lubricants, surfactants, and stain repellents. According to recent data from the EPA and industry reports, the manufacturing sector in the US accounts for a significant portion of PFAS emissions into the environment, with estimates suggesting that thousands of facilities across the country use PFAS-containing substances in their operations. Moreover, the semiconductor industry, which plays a crucial role in technology manufacturing, relies on PFAS chemicals for various processes. The chemical processing industry contributes to PFAS contamination through its use of these substances in manufacturing processes and product formulations. As these industries expand, there is a growing need to address the environmental impact of PFAS contamination. Regulatory standards set by agencies such as the EPA and state-level environmental authorities necessitate stringent measures to mitigate PFAS pollution. Consequently, there is an increasing demand for PFAS filtration systems within these industries to comply with regulatory requirements and ensure environmental sustainability. PFAS treatment becomes imperative to prevent the release of these persistent and harmful contaminants into the environment, safeguarding water

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resources and public health.

"Based on Technology type, water treatment systems segment is expected to be the fastest growing market during the forecast period, in terms of value."

Water treatment systems for PFAS filtration utilize several advanced technologies to effectively remove these persistent chemicals from water sources. Reverse Osmosis (RO) employs semipermeable membranes to physically block PFAS molecules based on their size and charge, ensuring high removal efficiency. Similarly, High-Pressure Membrane Filtration methods like nanofiltration and ultrafiltration operate on the principle of excluding contaminants through membranes, targeting PFAS effectively. Advanced Oxidation Processes (AOPs), such as ozone or hydrogen peroxide treatments, degrade PFAS molecules into less harmful components through oxidation reactions, though these processes can be complex and costly. Electrochemical Oxidation/Reduction techniques apply electric currents to water, breaking down PFAS molecules into less toxic substances, showcasing potential as a promising yet evolving method. Each of these technologies offers distinct advantages depending on factors like water quality, scale of treatment, and regulatory requirements, highlighting the need for tailored solutions in combating PFAS contamination effectively.

"Based on remediation technology, activated carbon has the largest market share during the forecast period, in terms of value."

Activated carbon is pivotal in PFAS filtration due to its exceptional ability to adsorb these persistent chemicals from water. PFAS molecules, known for their hydrophobic nature, are attracted to the porous surface of activated carbon, where they adhere through physical forces such as Van der Waals interactions. This adsorption process effectively traps PFAS contaminants within the carbon structure, removing them from the water stream. Activated carbon filtration systems are widely used across various scales, from municipal treatment plants to household filters, offering reliable removal of PFAS like PFOA and PFOS. Moreover, the regenerative nature of activated carbon allows for prolonged use and cost-effectiveness, making it a preferred choice in combating PFAS contamination in drinking water and industrial processes alike.

"Based on region, Asia Pacific is the fastest growing market for PFAS filtration in 2023, in terms of value."

The Asia-Pacific region is experiencing rapid growth in PFAS filtration primarily due to several factors. Firstly, industrialization and urbanization across countries in this region have led to increased chemical usage and manufacturing activities, which in turn contribute to higher levels of PFAS contamination in water sources. As awareness of environmental and health risks associated with PFAS grows, there is a greater demand for effective water treatment solutions. Additionally, regulatory frameworks in countries like China, India, and Australia are becoming more stringent regarding water quality standards, necessitating the adoption of advanced filtration technologies like activated carbon and membrane processes for PFAS removal. The region's economic growth has also enabled investment in water infrastructure, including modern filtration technologies, to meet these regulatory requirements and address public health concerns.

In the process of determining and verifying the market size for several segments and subsegments identified through secondary research, extensive primary interviews were conducted. A breakdown of the profiles of the primary interviewees are as follows:

- By Company Type: Tier 1 - 35%, Tier 2 - 45%, and Tier 3 - 20%

- By Designation: C-Level - 35%, Director Level - 25%, and Others - 40%

- By Region: North America - 40%, Europe - 30%, Asia Pacific - 20%, Middle East & Africa-5%, and Latin America-5%

The key players in this market are Veolia (France), AECOM (US), WSP (Canada), Clean Earth (US), Wood (UK), Xylem (US), Jacobs (US), TRC Companies, Inc. (US), Battelle Memorial Institute (US), Cyclopure, Inc. (US).

#### Research Coverage

This report segments the PFAS filtration market based on technology, remediation technology, place of treatment, service type, environmental medium, contaminant type, end-use industry, and region, and provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products and services, key strategies, new product launches, expansions, and mergers and acquisitions associated with the PFAS filtration market.

Key benefits of buying this report

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This research report focuses on various levels of analysis, including industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view of the competitive landscape, emerging and high-growth segments of the PFAS filtration market, high-growth regions, and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

-□Analysis of key drivers (Increasing regulatory scrutiny and tightening of environmental regulations regarding PFAS contamination, Growing public awareness of the health risks associated with PFAS exposure, The expansion of manufacturing, chemical processing and semiconductor industry), restraints (Expensive and complex remediation process,), opportunities (US PFAS treatment firms have significant potential to expand globally into markets grappling with increasing PFAS contamination, Significant government funding and support for PFAS research, development, and remediation efforts) and challenges (Proper management of treatment residuals generated during PFAS treatment, Addressing emerging PFAS compounds and understanding their potential risks and treatment requirements presents ongoing challenges for the industry.).

-□Market Penetration: Comprehensive information on the PFAS filtration market offered by top players in the global PFAS filtration market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the PFAS filtration market.

-□Market Development: Comprehensive information about lucrative emerging markets □ the report analyzes the markets for PFAS filtration market across regions.

-□Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global PFAS filtration market

-□Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the PFAS filtration market

## **Table of Contents:**

1□INTRODUCTION□	31
1.1□STUDY OBJECTIVES□	31
1.2□MARKET DEFINITION□	31
1.3□INCLUSIONS & EXCLUSIONS□	32
TABLE 1□PFAS FILTRATION MARKET: INCLUSIONS & EXCLUSIONS□	32
1.4□STUDY SCOPE□	32
1.4.1□MARKETS COVERED□	32
1.4.2□REGIONS COVERED□	33
1.4.3□YEARS CONSIDERED□	33
1.5□CURRENCY CONSIDERED□	34
1.6□UNIT CONSIDERED□	34
1.7□STAKEHOLDERS□	34
2□RESEARCH METHODOLOGY□	35
2.1□RESEARCH DATA□	35
FIGURE 1□PFAS FILTRATION MARKET: RESEARCH DESIGN□	35
2.1.1□SECONDARY DATA□	36
2.1.1.1□Key data from secondary sources□	36
2.1.2□PRIMARY DATA□	36
2.1.2.1□Key data from primary sources□	37
2.1.2.2□Breakdown of interviews with experts□	37
2.1.2.3□Key industry insights□	38
2.2□MARKET SIZE ESTIMATION□	39
2.2.1□TOP-DOWN APPROACH□	39

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FIGURE 2	TOP-DOWN APPROACH	39
2.2.2	BOTTOM-UP APPROACH	40
FIGURE 3	BOTTOM-UP APPROACH	40
2.3	DATA TRIANGULATION	41
FIGURE 4	PFAS FILTRATION MARKET: DATA TRIANGULATION	41
2.4	RESEARCH ASSUMPTIONS	42
2.5	RESEARCH LIMITATIONS	42
2.6	FORECAST ESTIMATION	42
2.6.1	SUPPLY-SIDE APPROACH	43
2.6.2	DEMAND-SIDE APPROACH	43
2.7	RECESSION IMPACT	43
3	EXECUTIVE SUMMARY	44
FIGURE 5	WATER TREATMENT SYSTEMS TO BE LARGER TECHNOLOGY TYPE BETWEEN 2024 AND 2029	44
FIGURE 6	ACTIVATED CARBON TO LEAD PFAS FILTRATION MARKET BETWEEN 2024 AND 2029	45
FIGURE 7	PFOA & PFOS CONTAMINANT TYPE TO LEAD PFAS FILTRATION MARKET BETWEEN 2024 AND 2029	45
FIGURE 8	GROUNDWATER ENVIRONMENTAL MEDIUM TYPE TO LEAD PFAS FILTRATION MARKET BETWEEN 2024 AND 2029	46
FIGURE 9	EX-SITU TO LEAD PFAS FILTRATION MARKET BETWEEN 2024 AND 2029	46
FIGURE 10	OFF-SITE TO LEAD PFAS FILTRATION MARKET BETWEEN 2024 AND 2029	47
FIGURE 11	MUNICIPAL TO LEAD PFAS FILTRATION MARKET BETWEEN 2024 AND 2029	47
FIGURE 12	NORTH AMERICA TO LEAD PFAS FILTRATION MARKET, 2024-2029	48
4	PREMIUM INSIGHTS	49
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN PFAS FILTRATION MARKET	49
FIGURE 13	EMERGING ECONOMIES TO WITNESS HIGHER DEMAND FOR PFAS FILTRATION PRODUCTS DURING FORECAST PERIOD	49
4.2	PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE	49
FIGURE 14	WATER TREATMENT SYSTEMS TO BE FASTER-GROWING MARKET DURING FORECAST PERIOD	49
4.3	PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY	50
FIGURE 15	RO MEMBRANE & NANOFILTRATION TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD	50
4.4	PFAS FILTRATION MARKET, BY PLACE OF TREATMENT	50
FIGURE 16	PFAS MULTIPLE COMPOUNDS TO GROW AT HIGHER CAGR DURING FORECAST PERIOD	50
4.5	PFAS FILTRATION MARKET, BY SERVICE TYPE	51
FIGURE 17	ON-SITE SERVICE TYPE TO GROW AT HIGHER CAGR DURING FORECAST PERIOD	51
4.6	PFAS FILTRATION MARKET, BY ENVIRONMENTAL MEDIUM	51
FIGURE 18	SOIL REMEDIATION TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD	51
4.7	PFAS FILTRATION MARKET, BY CONTAMINANT TYPE	52
FIGURE 19	EX-SITU TREATMENT TO GROW AT HIGHER CAGR DURING FORECAST PERIOD	52
4.8	PFAS FILTRATION MARKET, BY END-USE INDUSTRY	52
FIGURE 20	INDUSTRIAL SEGMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD	52
4.9	PFAS FILTRATION MARKET, BY COUNTRY	53
FIGURE 21	MARKET IN AUSTRALIA TO REGISTER HIGHEST CAGR FROM 2024 TO 2029	53
5	MARKET OVERVIEW	54
5.1	INTRODUCTION	54
5.2	MARKET DYNAMICS	54
FIGURE 22	DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN PFAS FILTRATION MARKET	54
5.2.1	DRIVERS	55
5.2.1.1	Increasing regulatory scrutiny and tightening of environmental regulations regarding PFAS contamination	55
5.2.1.2	Growing public awareness of health risks associated with PFAS exposure	56
5.2.1.3	Expansion of manufacturing, chemical processing, and semiconductor industries	56

5.2.2	RESTRAINTS	57
5.2.2.1	Expensive and complex filtration process	57
5.2.2.2	Limited availability of trained professionals	57
5.2.3	OPPORTUNITIES	58
5.2.3.1	Significant potential to expand globally	58
5.2.3.2	Significant government funding and support for PFAS research, development, and filtration efforts	58
5.2.4	CHALLENGES	59
5.2.4.1	Proper management of treatment residuals generated during PFAS treatment	59
5.2.4.2	Addressing emerging PFAS compounds and understanding their potential risks and treatment requirements	60
5.3	VALUE CHAIN ANALYSIS	60
FIGURE 23	VALUE CHAIN ANALYSIS	60
5.3.1	RAW MATERIAL SUPPLIERS	61
5.3.2	R&D COMPANIES AND ORGANIZATIONS	61
5.3.3	WATER TREATMENT CHEMICALS/SYSTEM SUPPLIERS	61
5.3.4	WATER TREATMENT SERVICE PROVIDERS	61
5.3.5	END USERS	61
5.4	PORTER'S FIVE FORCES ANALYSIS	62
FIGURE 24	PFAS FILTRATION MARKET: PORTER'S FIVE FORCES ANALYSIS	62
5.4.1	THREAT OF NEW ENTRANTS	62
5.4.2	THREAT OF SUBSTITUTES	63
5.4.3	BARGAINING POWER OF SUPPLIERS	63
5.4.4	BARGAINING POWER OF BUYERS	63
5.4.5	INTENSITY OF COMPETITIVE RIVALRY	63
TABLE 2	PFAS FILTRATION MARKET: PORTER'S FIVE FORCES ANALYSIS	63
5.5	PATENT ANALYSIS	64
5.5.1	METHODOLOGY	64
5.5.2	DOCUMENT TYPES	64
FIGURE 25	GRANTED PATENTS	64
5.5.3	PUBLICATION TRENDS IN LAST 10 YEARS	65
5.5.4	INSIGHTS	65
5.5.5	JURISDICTION ANALYSIS	65
5.5.6	TOP 10 PATENT OWNERS IN LAST 10 YEARS	66
5.6	ECOSYSTEM/MARKET MAP	67
FIGURE 26	PFAS FILTRATION MARKET ECOSYSTEM	67
TABLE 3	PFAS FILTRATION: ECOSYSTEM	68
5.7	TRADE ANALYSIS	68
5.7.1	IMPORT SCENARIO OF MACHINERY AND APPARATUS FOR FILTERING OR PURIFYING WATER	68
FIGURE 27	IMPORT OF MACHINERY AND APPARATUS FOR FILTERING OR PURIFYING WATER, BY KEY COUNTRY, 2019-2023	69
5.7.2	EXPORT SCENARIO OF MACHINERY AND APPARATUS FOR FILTERING OR PURIFYING WATER	69
FIGURE 28	EXPORT OF MACHINERY AND APPARATUS FOR FILTERING OR PURIFYING WATER, BY KEY COUNTRY, 2019-2023	70
5.8	MACROECONOMIC OVERVIEW AND KEY TRENDS	70
5.8.1	GDP TRENDS AND FORECASTS	70
TABLE 4	PROJECTED REAL GDP GROWTH (ANNUAL PERCENTAGE CHANGE) OF KEY COUNTRIES, 2023-2029	71
5.9	TECHNOLOGY ANALYSIS	72
5.9.1	COATED SAND	72
5.9.2	FOAM FRACTIONATION	72
5.9.3	MODIFIED CLAY TECHNOLOGY	72

5.9.4	ZEOLITE & CLAY MINERALS	73
5.10	TARIFF & REGULATORY LANDSCAPE	73
5.10.1	REGULATIONS	73
5.10.1.1	North America	73
5.10.1.2	Europe	74
5.10.1.3	Asia Pacific	75
5.10.1.4	Middle East & Africa and South America	75
5.11	TRENDS/DISRUPTIONS IMPACTING CUSTOMER'S BUSINESS	76
FIGURE 29	TRENDS/DISRUPTIONS IMPACTING CUSTOMER'S BUSINESS IN PFAS FILTRATION MARKET	76
5.12	KEY CONFERENCES & EVENTS IN 2024-2025	77
TABLE 5	PFAS FILTRATION MARKET: KEY CONFERENCES & EVENTS, 2024-2025	77
5.13	KEY STAKEHOLDERS & BUYING CRITERIA	78
FIGURE 30	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 END-USE INDUSTRIES	78
5.13.1	KEY STAKEHOLDERS IN BUYING PROCESS	78
TABLE 6	INFLUENCE OF INSTITUTIONAL BUYERS ON BUYING PROCESS FOR TOP 3 END-USE INDUSTRIES	78
5.13.2	BUYING CRITERIA	79
5.13.2.1	Quality	79
5.13.2.2	Service	79
FIGURE 31	SUPPLIER SELECTION CRITERION	79
TABLE 7	KEY BUYING CRITERIA FOR TOP 3 END-USE INDUSTRIES	80
5.14	CASE STUDY ANALYSIS	80
5.14.1	VEOLIA	80
5.14.2	EVOQUA WATER TECHNOLOGIES	81
5.14.3	CALGON CARBON CORPORATION	81
5.15	INVESTMENT AND FUNDING SCENARIO	82
FIGURE 32	INVESTMENT AND FUNDING SCENARIO	82
5.16	FUNDING, BY USE-CASE/APPLICATION	83
FIGURE 33	FUNDING, BY USE-CASE APPLICATION	83
6	PFAS FILTRATION MARKET, BY CONTAMINANT TYPE	84
6.1	INTRODUCTION	85
FIGURE 34	PFOA & PFOS SEGMENT TO DRIVE PFAS FILTRATION MARKET BETWEEN 2024 AND 2029	85
TABLE 8	PFAS FILTRATION MARKET, BY CONTAMINANT TYPE, 2021-2023 (USD MILLION)	85
TABLE 9	PFAS FILTRATION MARKET, BY CONTAMINANT TYPE, 2024-2029 (USD MILLION)	85
6.2	PFOA & PFOS	86
6.2.1	SIGNIFICANT PUBLIC HEALTH RISKS ASSOCIATED WITH PRESENCE IN ENVIRONMENT TO DRIVE MARKET	86
6.3	MULTIPLE PFAS COMPOUNDS	87
6.3.1	STRINGENT REGULATORY RESPONSE TO DRIVE MARKET	87
TABLE 10	US STATE GUIDELINE VALUES FOR PFBS	88
7	PFAS FILTRATION MARKET, BY END-USE INDUSTRY	89
7.1	INTRODUCTION	90
FIGURE 35	MUNICIPAL SEGMENT TO DRIVE PFAS FILTRATION MARKET BETWEEN 2024 AND 2029	90
TABLE 11	PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	90
TABLE 12	PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	90
TABLE 13	PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (KILOTON)	91
TABLE 14	PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (KILOTON)	91
7.2	INDUSTRIAL	91
7.2.1	OIL & GAS	91

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7.2.1.1	Stringent environmental regulations to drive market	91
7.2.2	PHARMACEUTICAL	92
7.2.2.1	Growing awareness of health and environmental impacts of PFAS contamination to drive demand	92
7.2.3	CHEMICAL MANUFACTURING	92
7.2.3.1	Expanding chemical manufacturing sector to drive market	92
7.2.4	MINING AND MINERAL PROCESSING	93
7.2.4.1	Growing mining industry, coupled with stringent regulations regarding discharge, to drive market	93
7.2.5	OTHER INDUSTRIAL SEGMENTS	94
7.3	COMMERCIAL	94
7.3.1	ACTIVATED CARBON AND ION EXCHANGE ARE EFFECTIVE METHODS FOR PFAS FILTRATION IN COMMERCIAL SEGMENT	94
7.4	MUNICIPAL	95
7.4.1	DRINKING WATER TREATMENT	95
7.4.1.1	Stringent environmental regulations related to drinking water to drive market	95
7.4.2	WASTEWATER TREATMENT	96
7.4.2.1	Growing public concern to drive market	96
8	PFAS FILTRATION MARKET, BY ENVIRONMENTAL MEDIUM	97
8.1	INTRODUCTION	98
FIGURE 36	GROUNDWATER SEGMENT TO LEAD PFAS FILTRATION MARKET BETWEEN 2024 AND 2029	98
TABLE 15	PFAS FILTRATION MARKET, BY ENVIRONMENTAL MEDIUM, 2021-2023 (USD MILLION)	98
TABLE 16	PFAS FILTRATION MARKET, BY ENVIRONMENTAL MEDIUM, 2024-2029 (USD MILLION)	98
8.2	GROUNDWATER REMEDIATION	99
8.2.1	STRINGENT FEDERAL AND STATE REGULATIONS TO DRIVE MARKET	99
8.3	SOIL REMEDIATION	99
8.3.1	EFFECTIVE ELIMINATION OR NEUTRALIZATION OF PFAS CONTAMINATES TO DRIVE MARKET	99
8.4	SURFACE WATER AND SEDIMENT REMEDIATION	100
8.4.1	INCREASING AWARENESS OF PFAS CONTAMINATION TO BOOST MARKET	100
9	PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY	101
9.1	INTRODUCTION	102
FIGURE 37	ACTIVATED CARBON SEGMENT TO DRIVE PFAS FILTRATION MARKET BETWEEN 2024 AND 2029	102
TABLE 17	PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2021-2023 (USD MILLION)	102
TABLE 18	PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2024-2029 (USD MILLION)	103
TABLE 19	PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2021-2023 (KILOTON)	103
TABLE 20	PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2024-2029 (KILOTON)	103
9.2	MEMBRANES	104
9.2.1	ADOPTION OF MEMBRANE TECHNOLOGIES DRIVEN BY STRINGENT ENVIRONMENTAL REGULATIONS	104
9.2.2	RO MEMBRANES	104
9.3	CHEMICALS	104
9.3.1	COST-EFFECTIVE FOR LARGE-SCALE REMEDIATION	104
9.3.2	ACTIVATED CARBON ADSORPTION	105
9.3.3	CHEMICAL OXIDATION	105
9.3.4	ION EXCHANGE RESIN	106
9.3.5	BIOREMEDIATION	106
9.3.6	OTHER REMEDIATION TECHNOLOGIES	107
10	PFAS FILTRATION MARKET, BY SERVICE TYPE	108
10.1	INTRODUCTION	109
FIGURE 38	OFF-SITE SEGMENT TO DRIVE PFAS FILTRATION MARKET BETWEEN 2024 AND 2029	109
TABLE 21	PFAS FILTRATION MARKET, BY SERVICE TYPE, 2021-2023 (USD MILLION)	109

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TABLE 22	PFAS FILTRATION MARKET, BY SERVICE TYPE, 2024-2029 (USD MILLION)	109
10.2	ON-SITE	110
10.2.1	IMMEDIACY AND CONVENIENCE TO DRIVE DEMAND	110
10.3	OFF-SITE	110
10.3.1	SUITABILITY FOR MUNICIPAL & INDUSTRIAL END-USE INDUSTRIES TO DRIVE MARKET	110
11	PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE	111
11.1	INTRODUCTION	112
FIGURE 39	WATER TREATMENT SYSTEMS SEGMENT TO LEAD PFAS FILTRATION MARKET BETWEEN 2024 AND 2029	112
TABLE 23	PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE, 2021-2023 (USD MILLION)	112
TABLE 24	PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE, 2024-2029 (USD MILLION)	112
11.2	WATER TREATMENT SYSTEMS	113
11.2.1	ACTIVATED CARBON FILTERS SUITABLE FOR LARGE-SCALE WATER TREATMENT APPLICATIONS	113
11.3	WATER TREATMENT CHEMICALS	114
11.3.1	TECHNOLOGICAL ADVANCEMENTS IN WATER TREATMENT CHEMICALS TO DRIVE MARKET	114
12	PFAS FILTRATION MARKET, BY REGION	115
12.1	INTRODUCTION	116
TABLE 25	PFAS FILTRATION MARKET, BY REGION, 2021-2023 (USD MILLION)	116
TABLE 26	PFAS FILTRATION MARKET, BY REGION, 2024-2029 (USD MILLION)	117
TABLE 27	PFAS FILTRATION MARKET, BY REGION, 2021-2023 (KILOTON)	117
TABLE 28	PFAS FILTRATION MARKET, BY REGION, 2024-2029 (KILOTON)	117
12.2	NORTH AMERICA	118
12.2.1	RECESSION IMPACT	118
FIGURE 40	NORTH AMERICA: PFAS FILTRATION MARKET SNAPSHOT	119
TABLE 29	NORTH AMERICA: PFAS FILTRATION MARKET, BY COUNTRY, 2021-2023 (USD MILLION)	119
TABLE 30	NORTH AMERICA: PFAS FILTRATION MARKET, BY COUNTRY, 2024-2029 (USD MILLION)	120
TABLE 31	NORTH AMERICA: PFAS FILTRATION MARKET, BY COUNTRY, 2021-2023 (KILOTON)	120
TABLE 32	NORTH AMERICA: PFAS FILTRATION MARKET, BY COUNTRY, 2024-2029 (KILOTON)	120
TABLE 33	NORTH AMERICA: PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE, 2021-2023 (USD MILLION)	120
TABLE 34	NORTH AMERICA: PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE, 2024-2029 (USD MILLION)	121
TABLE 35	NORTH AMERICA: PFAS FILTRATION MARKET, BY CONTAMINANT TYPE, 2021-2023 (USD MILLION)	121
TABLE 36	NORTH AMERICA: PFAS FILTRATION MARKET, BY CONTAMINANT TYPE, 2024-2029 (USD MILLION)	121
TABLE 37	NORTH AMERICA: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2021-2023 (USD MILLION)	121
TABLE 38	NORTH AMERICA: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2024-2029 (USD MILLION)	122
TABLE 39	NORTH AMERICA: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2021-2023 (KILOTON)	122
TABLE 40	NORTH AMERICA: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2024-2029 (KILOTON)	122
TABLE 41	NORTH AMERICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	123
TABLE 42	NORTH AMERICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	123
TABLE 43	NORTH AMERICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY TYPE, 2021-2023 (KILOTON)	123
TABLE 44	NORTH AMERICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY TYPE, 2024-2029 (KILOTON)	124
12.2.2	US	124
12.2.2.1	Stringent regulations on PFAS contamination to drive market	124
TABLE 45	US: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	124
TABLE 46	US: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	125
12.2.3	CANADA	125
12.2.3.1	Rising government initiatives for PFAS removal to drive market	125
TABLE 47	CANADA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	125
TABLE 48	CANADA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	126

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12.2.4 MEXICO 126

12.2.4.1 Increasing demand across industries to drive market 126

TABLE 49 MEXICO: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION) 126

TABLE 50 MEXICO: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION) 126

12.3 EUROPE 127

12.3.1 RECESSION IMPACT 127

FIGURE 41 EUROPE: PFAS FILTRATION MARKET SNAPSHOT 128

TABLE 51 EUROPE: PFAS FILTRATION MARKET, BY COUNTRY, 2021-2023 (USD MILLION) 128

TABLE 52 EUROPE: PFAS FILTRATION MARKET, BY COUNTRY, 2024-2029 (USD MILLION) 129

TABLE 53 EUROPE: PFAS FILTRATION MARKET, BY COUNTRY, 2021-2023 (KILOTON) 129

TABLE 54 EUROPE: PFAS FILTRATION MARKET, BY COUNTRY, 2024-2029 (KILOTON) 129

TABLE 55 EUROPE: PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE, 2021-2023 (USD MILLION) 129

TABLE 56 EUROPE: PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE, 2024-2029 (USD MILLION) 130

TABLE 57 EUROPE: PFAS FILTRATION MARKET, BY CONTAMINANT TYPE, 2021-2023 (USD MILLION) 130

TABLE 58 EUROPE: PFAS FILTRATION MARKET, BY CONTAMINANT TYPE, 2024-2029 (USD MILLION) 130

TABLE 59 EUROPE: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2021-2023 (USD MILLION) 130

TABLE 60 EUROPE: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2024-2029 (USD MILLION) 131

TABLE 61 EUROPE: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2021-2023 (KILOTON) 131

TABLE 62 EUROPE: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2024-2029 (KILOTON) 132

TABLE 63 EUROPE: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION) 132

TABLE 64 EUROPE: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION) 132

TABLE 65 EUROPE: PFAS FILTRATION MARKET, BY END-USE INDUSTRY TYPE, 2021-2023 (KILOTON) 133

TABLE 66 EUROPE: PFAS FILTRATION MARKET, BY END-USE INDUSTRY TYPE, 2024-2029 (KILOTON) 133

12.3.2 GERMANY 133

12.3.2.1 Rising demand from end-use industries to fuel market growth 133

TABLE 67 GERMANY: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION) 134

TABLE 68 GERMANY: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION) 134

12.3.3 FRANCE 134

12.3.3.1 Growing focus on adherence to EU drinking water regulations to drive demand 134

TABLE 69 FRANCE: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION) 135

TABLE 70 FRANCE: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION) 135

12.3.4 UK 135

12.3.4.1 Universities and government are funding PFAS removal projects 135

TABLE 71 UK: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION) 136

TABLE 72 UK: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION) 136

12.3.5 REST OF EUROPE 136

TABLE 73 REST OF EUROPE: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION) 136

TABLE 74 REST OF EUROPE: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION) 137

12.4 ASIA PACIFIC 137

12.4.1 RECESSION IMPACT 137

TABLE 75 ASIA PACIFIC: PFAS FILTRATION MARKET, BY COUNTRY, 2021-2023 (USD MILLION) 137

TABLE 76 ASIA PACIFIC: PFAS FILTRATION MARKET, BY COUNTRY, 2024-2029 (USD MILLION) 138

TABLE 77 ASIA PACIFIC: PFAS FILTRATION MARKET, BY COUNTRY, 2021-2023 (KILOTON) 138

TABLE 78 ASIA PACIFIC: PFAS FILTRATION MARKET, BY COUNTRY, 2024-2029 (KILOTON) 138

TABLE 79 ASIA PACIFIC: PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE, 2021-2023 (USD MILLION) 138

TABLE 80 ASIA PACIFIC: PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE, 2024-2029 (USD MILLION) 139

TABLE 81 ASIA PACIFIC: PFAS FILTRATION MARKET, BY CONTAMINANT TYPE, 2021-2023 (USD MILLION) 139

TABLE 82	ASIA PACIFIC: PFAS FILTRATION MARKET, BY CONTAMINANT TYPE, 2024-2029 (USD MILLION)	139
TABLE 83	ASIA PACIFIC: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2021-2023 (USD MILLION)	139
TABLE 84	ASIA PACIFIC: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2024-2029 (USD MILLION)	140
TABLE 85	ASIA PACIFIC: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2021-2023 (KILOTON)	140
TABLE 86	ASIA PACIFIC: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2024-2029 (KILOTON)	141
TABLE 87	ASIA PACIFIC: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	141
TABLE 88	ASIA PACIFIC: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	141
TABLE 89	ASIA PACIFIC: PFAS FILTRATION MARKET, BY END-USE INDUSTRY TYPE, 2021-2023 (KILOTON)	142
TABLE 90	ASIA PACIFIC: PFAS FILTRATION MARKET, BY END-USE INDUSTRY TYPE, 2024-2029 (KILOTON)	142
12.4.2	CHINA	142
12.4.2.1	Stringent water treatment policies to drive demand	142
TABLE 91	CHINA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	143
TABLE 92	CHINA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	143
12.4.3	JAPAN	143
12.4.3.1	Growing pharmaceutical industry to drive market	143
TABLE 93	JAPAN: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	143
TABLE 94	JAPAN: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	144
12.4.4	AUSTRALIA	144
12.4.4.1	Stringent government regulations to drive market	144
TABLE 95	AUSTRALIA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	145
TABLE 96	AUSTRALIA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	145
12.4.5	REST OF ASIA PACIFIC	145
TABLE 97	REST OF ASIA PACIFIC: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	145
TABLE 98	REST OF ASIA PACIFIC: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	146
12.5	MIDDLE EAST & AFRICA	146
12.5.1	RECESSION IMPACT	146
TABLE 99	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY COUNTRY, 2021-2023 (USD MILLION)	146
TABLE 100	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY COUNTRY, 2024-2029 (USD MILLION)	147
TABLE 101	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY COUNTRY, 2021-2023 (KILOTON)	147
TABLE 102	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY COUNTRY, 2024-2029 (KILOTON)	147
TABLE 103	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2021-2023 (USD MILLION)	148
TABLE 104	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2024-2029 (USD MILLION)	148
TABLE 105	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2021-2023 (KILOTON)	148
TABLE 106	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2024-2029 (KILOTON)	149
TABLE 107	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE, 2021-2023 (USD MILLION)	149
TABLE 108	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE, 2024-2029 (USD MILLION)	149
TABLE 109	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY CONTAMINANT TYPE, 2021-2023 (USD MILLION)	149
TABLE 110	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY CONTAMINANT TYPE, 2024-2029 (USD MILLION)	150
TABLE 111	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	150
TABLE 112	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	150
TABLE 113	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY TYPE, 2021-2023 (KILOTON)	150
TABLE 114	MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY TYPE, 2024-2029 (KILOTON)	151
12.5.2	GCC COUNTRIES	151
TABLE 115	GCC COUNTRIES: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	151
TABLE 116	GCC COUNTRIES: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	151
12.5.2.1	Saudi Arabia	151
12.5.2.1.1	Government focus on water and wastewater treatment to drive market	151

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12.5.3	UAE	152
12.5.3.1	Strong oil & gas sector to drive market	152
12.5.4	REST OF GCC COUNTRIES	153
12.5.5	SOUTH AFRICA	153
12.5.5.1	Growth in mining industry to drive market	153
TABLE 117	SOUTH AFRICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	153
TABLE 118	SOUTH AFRICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	153
12.5.6	REST OF MIDDLE EAST & AFRICA	154
TABLE 119	REST OF MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	154
TABLE 120	REST OF MIDDLE EAST & AFRICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	154
12.6	SOUTH AMERICA	154
12.6.1	RECESSION IMPACT	155
TABLE 121	SOUTH AMERICA: PFAS FILTRATION MARKET, BY COUNTRY, 2021-2023 (USD MILLION)	155
TABLE 122	SOUTH AMERICA: PFAS FILTRATION MARKET, BY COUNTRY, 2024-2029 (USD MILLION)	155
TABLE 123	SOUTH AMERICA: PFAS FILTRATION MARKET, BY COUNTRY, 2021-2023 (KILOTON)	155
TABLE 124	SOUTH AMERICA: PFAS FILTRATION MARKET, BY COUNTRY, 2024-2029 (KILOTON)	156
TABLE 125	SOUTH AMERICA: PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE, 2021-2023 (USD MILLION)	156
TABLE 126	SOUTH AMERICA: PFAS FILTRATION MARKET, BY TECHNOLOGY TYPE, 2024-2029 (USD MILLION)	156
TABLE 127	SOUTH AMERICA: PFAS FILTRATION MARKET, BY CONTAMINANT TYPE, 2021-2023 (USD MILLION)	156
TABLE 128	SOUTH AMERICA: PFAS FILTRATION MARKET, BY CONTAMINANT TYPE, 2024-2029 (USD MILLION)	157
TABLE 129	SOUTH AMERICA: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2021-2023 (USD MILLION)	157
TABLE 130	SOUTH AMERICA: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2024-2029 (USD MILLION)	157
TABLE 131	SOUTH AMERICA: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2021-2023 (KILOTON)	158
TABLE 132	SOUTH AMERICA: PFAS FILTRATION MARKET, BY REMEDIATION TECHNOLOGY, 2024-2029 (KILOTON)	158
TABLE 133	SOUTH AMERICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY TYPE, 2021-2023 (KILOTON)	158
TABLE 134	SOUTH AMERICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY TYPE, 2024-2029 (KILOTON)	159
TABLE 135	SOUTH AMERICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	159
TABLE 136	SOUTH AMERICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	159
12.6.2	BRAZIL	159
12.6.2.1	Government support and regulations to drive market	159
TABLE 137	BRAZIL: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	160
TABLE 138	BRAZIL: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	160
12.6.3	ARGENTINA	160
12.6.3.1	Stringent environmental regulations to drive market	160
TABLE 139	ARGENTINA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	161
TABLE 140	ARGENTINA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	161
12.6.4	REST OF SOUTH AMERICA	161
TABLE 141	REST OF SOUTH AMERICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2021-2023 (USD MILLION)	162
TABLE 142	REST OF SOUTH AMERICA: PFAS FILTRATION MARKET, BY END-USE INDUSTRY, 2024-2029 (USD MILLION)	162
13	COMPETITIVE LANDSCAPE	163
13.1	KEY PLAYER STRATEGIES/RIGHT TO WIN	163
TABLE 143	COMPANIES ADOPTED PRODUCT LAUNCHES AND ACQUISITIONS AS KEY GROWTH STRATEGIES BETWEEN 2019 AND 2023	163
13.2	REVENUE ANALYSIS	164
FIGURE 42	REVENUE ANALYSIS	164
13.3	MARKET SHARE ANALYSIS	164
FIGURE 43	MARKET SHARE OF KEY PLAYERS, 2023	165

TABLE 144	PFAS FILTRATION MARKET: DEGREE OF COMPETITION	165
13.4	COMPANY EVALUATION MATRIX, 2023	167
13.4.1	STARS	167
13.4.2	EMERGING LEADERS	167
13.4.3	PERVASIVE PLAYERS	167
13.4.4	PARTICIPANTS	167
FIGURE 44	PFAS FILTRATION MARKET: COMPANY EVALUATION MATRIX, 2023	168
13.4.5	COMPANY FOOTPRINT	169
TABLE 145	COMPANY END-USE INDUSTRY FOOTPRINT	169
TABLE 146	COMPANY REGION FOOTPRINT	170
TABLE 147	COMPANY OVERALL FOOTPRINT	171
13.5	START-UPS/SMES EVALUATION MATRIX, 2023	172
13.5.1	PROGRESSIVE COMPANIES	172
13.5.2	RESPONSIVE COMPANIES	172
13.5.3	DYNAMIC COMPANIES	172
13.5.4	STARTING BLOCKS	172
FIGURE 45	PFAS FILTRATION MARKET: START-UPS/SMES MATRIX, 2023	173
13.5.5	COMPETITIVE BENCHMARKING	174
TABLE 148	PFAS FILTRATION MARKET: COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES	174
TABLE 149	DETAILED LIST OF COMPANIES	175
13.6	COMPANY VALUATION AND FINANCIAL MATRIX	176
FIGURE 46	COMPANY VALUATION	176
FIGURE 47	FINANCIAL METRICS	176
13.7	BRAND/PRODUCT COMPARISON	177
FIGURE 48	BRAND/PRODUCT COMPARISON	177
13.8	COMPETITIVE SCENARIO AND TRENDS	178
13.8.1	PRODUCT LAUNCHES	178
TABLE 150	PFAS FILTRATION MARKET: PRODUCT LAUNCHES, JANUARY 2019-DECEMBER 2023	178
13.8.2	DEALS	179
TABLE 151	PFAS FILTRATION MARKET: DEALS, JANUARY 2019-DECEMBER 2023	179
14	COMPANY PROFILES	181
(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) *		
14.1	MAJOR PLAYERS	181
14.1.1	VEOLIA	181
TABLE 152	VEOLIA: COMPANY OVERVIEW	181
FIGURE 49	VEOLIA: COMPANY SNAPSHOT	182
TABLE 153	VEOLIA: PRODUCTS/SOLUTIONS/SERVICES OFFERED	182
TABLE 154	VEOLIA: DEALS	183
14.1.2	AECOM	185
TABLE 155	AECOM: COMPANY OVERVIEW	185
FIGURE 50	AECOM: COMPANY SNAPSHOT	185
TABLE 156	AECOM: PRODUCTS/SOLUTIONS/SERVICES OFFERED	186
TABLE 157	AECOM: PRODUCT LAUNCHES	186
TABLE 158	AECOM: DEALS	186
14.1.3	WSP	188
TABLE 159	WSP CORPORATION: COMPANY OVERVIEW	188

FIGURE 51	WSP: COMPANY SNAPSHOT	189
TABLE 160	WSP: PRODUCTS/SOLUTIONS/SERVICES OFFERED	189
TABLE 161	WSP: DEALS	190
14.1.4	XYLEM	192
TABLE 162	XYLEM: COMPANY OVERVIEW	192
FIGURE 52	XYLEM: COMPANY SNAPSHOT	192
TABLE 163	XYLEM: PRODUCTS/SOLUTIONS/SERVICES OFFERED	193
TABLE 164	XYLEM: DEALS	193
14.1.5	JACOBS	195
TABLE 165	JACOBS: COMPANY OVERVIEW	195
FIGURE 53	JACOBS: COMPANY SNAPSHOT	195
TABLE 166	JACOBS: PRODUCTS/SOLUTIONS/SERVICES OFFERED	196
TABLE 167	JACOBS: DEALS	196
14.1.6	CLEAN EARTH	198
TABLE 168	CLEAN EARTH: COMPANY OVERVIEW	198
TABLE 169	CLEAN EARTH: PRODUCTS/SOLUTIONS/SERVICES OFFERED	198
TABLE 170	CLEAN EARTH: PRODUCT LAUNCHES	199
TABLE 171	CLEAN EARTH: DEALS	200
14.1.7	JOHN WOOD GROUP PLC	201
TABLE 172	JOHN WOOD GROUP PLC: COMPANY OVERVIEW	201
FIGURE 54	JOHN WOOD GROUP PLC: COMPANY SNAPSHOT	201
TABLE 173	JOHN WOOD GROUP PLC: PRODUCTS/SOLUTIONS/SERVICES OFFERED	202
14.1.8	TRC COMPANIES, INC.	203
TABLE 174	TRC COMPANIES, INC.: COMPANY OVERVIEW	203
TABLE 175	TRC COMPANIES, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED	203
14.1.9	BATTELLE MEMORIAL INSTITUTE	205
TABLE 176	BATTELLE MEMORIAL INSTITUTE: COMPANY OVERVIEW	205
TABLE 177	BATTELLE MEMORIAL INSTITUTE: PRODUCTS/SOLUTIONS/SERVICES OFFERED	205
TABLE 178	BATTELLE MEMORIAL INSTITUTE: PRODUCT LAUNCHES	206
TABLE 179	BATTELLE MEMORIAL INSTITUTE: DEALS	206
14.1.10	CYCLOPURE	208
TABLE 180	CYCLOPURE: COMPANY OVERVIEW	208
TABLE 181	CYCLOPURE: PRODUCTS/SOLUTIONS/SERVICES OFFERED	208
TABLE 182	CYCLOPURE: DEALS	209
14.2	OTHER PLAYERS	210
14.2.1	CALGON CARBON CORPORATION	210
TABLE 183	CALGON CARBON CORPORATION: COMPANY OVERVIEW	210
14.2.2	REGENESIS	210
TABLE 184	REGENESIS: COMPANY OVERVIEW	210
14.2.3	MINERAL TECHNOLOGIES, INC.	211
TABLE 185	MINERAL TECHNOLOGIES, INC.: COMPANY OVERVIEW	211
14.2.4	CDM SMITH, INC.	211
TABLE 186	CDM SMITH, INC. COMPANY OVERVIEW	211
14.2.5	PENTAIR	212
TABLE 187	PENTAIR: COMPANY OVERVIEW	212
14.2.6	AQUASANA INC.	212
TABLE 188	AQUASANA INC.: COMPANY OVERVIEW	212

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14.2.7 NEWTERRA CORPORATION 213

TABLE 189 NEWTERRA CORPORATION: COMPANY OVERVIEW 213

14.2.8 LANXESS 213

TABLE 190 LANXESS.: COMPANY OVERVIEW 213

14.2.9 EUROWATER 214

TABLE 191 EUROWATER: COMPANY OVERVIEW 214

14.2.10 AQUA-AEROBIC SYSTEMS, INC. 214

TABLE 192 AQUA-AEROBIC SYSTEMS, INC.: COMPANY OVERVIEW 214

14.2.11 HYDROVIV 215

TABLE 193 HYDROVIV: COMPANY OVERVIEW 215

14.2.12 SALTWORKS TECHNOLOGIES, INC. 215

TABLE 194 SALTWORKS TECHNOLOGIES, INC.: COMPANY OVERVIEW 215

14.2.13 ACLARITY, INC. 216

TABLE 195 ACLARITY, INC.: COMPANY OVERVIEW 216

14.2.14 AQUAGGA, INC. 216

TABLE 196 AQUAGGA, INC.: COMPANY OVERVIEW 216

14.2.15 ONVECTOR LLC. 217

TABLE 197 ONVECTOR LLC.: COMPANY OVERVIEW 217

\*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

15 APPENDIX 218

15.1 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL 221

15.2 CUSTOMIZATION OPTIONS 223

15.3 RELATED REPORTS 223

15.4 AUTHOR DETAILS 224

**PFAS Filtration Market by Technology (Water Treatment Systems, Water Treatment Chemicals), Place of Treatment (In-Situ, Ex-Situ), Remediation Technology, Environmental Medium, Contaminant Type, and Region - Global Forecast to 2029**

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