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 2030

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Report description:

The PFAS filtration market is projected to reach USD 2.99 billion by 2030 from USD 2.13 billion in 2025, at a CAGR of 7.0% during the forecast period. PFAS filtration is a rapidly expanding segment within the water treatment industry, driven by growing concerns over the health risks and environmental persistence of per- and polyfluoroalkyl substances (PFASs), often called "forever chemicals." These compounds, found in numerous consumer and industrial products, are highly resistant to breakdown and have been linked to cancer, hormonal disruption, and other serious health issues. The market is witnessing accelerated growth due to increasingly strict environmental regulations, particularly in North America and Europe, where authorities are setting lower permissible limits for PFAS in drinking water. As a result, advanced technologies such as granular activated carbon (GAC), ion exchange resins, reverse osmosis (RO), and nanofiltration are being rapidly deployed across municipal and industrial sectors. In addition to regulatory pressure, rising public awareness, media attention, and significant government funding-such as the US EPA's investment in PFAS cleanup-are fueling market demand. Moreover, the increasing need for long-term, sustainable water treatment solutions amid population growth and urbanization further supports expansion. With growing investment, innovation, and policy support, PFAS filtration is positioned as a vital and fast-growing solution in the global effort to ensure access to clean, safe water.

"Ion exchange resin to be second fastest-growing segment in PFAS filtration market during forecast period"
Ion exchange resins have become an increasingly important technology in the removal of PFAS from contaminated water sources, offering high efficiency, selectivity, and reliability in treatment systems. These synthetic resins are made from highly porous, crosslinked polymers with functional groups capable of exchanging ions with PFAS compounds in water. Unlike traditional methods

such as granular activated carbon (GAC), ion exchange resins can target long-chain and short-chain PFAS molecules, including more mobile and difficult-to-remove substances like PFBA and PFBS, making them a more comprehensive solution. The mechanism behind ion exchange involves the attraction between the functional groups on the resin and the negatively charged PFAS anions present in the water. As the contaminated water passes through the resin bed, PFAS molecules are removed by displacing less harmful ions bound to the resin. This process allows for rapid and selective PFAS removal, often with higher throughput and reduced contact time compared to other technologies. Additionally, ion exchange resins typically maintain performance longer before saturation, reducing the frequency of media replacement and overall operational costs. Ion exchange systems are widely used in both municipal and industrial settings. In municipal water treatment, they are ideal for ensuring compliance with increasingly stringent PFAS regulations, while in industrial applications-such as chemical manufacturing, electronics, and wastewater treatment-they offer tailored solutions for process-specific contaminants. The ability of ion exchange to handle variable water chemistries and remove PFAS at exceptionally low concentrations makes it particularly suitable for achieving emerging regulatory standards, such as the US EPA's proposed limits of just a few parts per trillion (ppt). One of the advantages of ion exchange resins is their compact system design, which allows for easy integration into existing treatment setups. However, like all technologies, they do have limitations. Spent resins require proper handling and disposal or regeneration, and while some can be reused, not all regeneration methods are effective for PFAS-laden resins due to the strong chemical bonds PFAS form.

Additionally, pretreatment may be necessary to remove competing organic or inorganic materials that could interfere with the resin's effectiveness. Despite these challenges, the high efficiency and adaptability of ion exchange resins make them one of the most promising and fastest-growing technologies in the PFAS filtration market. As regulatory pressure increases and the need for long-term PFAS solutions grows, ion exchange will play a key role in the future of clean water treatment.

"Commercial to be second fastest-growing segment in PFAS filtration market during forecast period"

The commercial sector represents a significant and growing end-use industry in the PFAS filtration market, driven by increased regulatory oversight, rising consumer expectations, and the need to ensure safety in high-traffic environments. Commercial establishments such as office buildings, shopping centers, hospitals, hotels, schools, and airports often rely on large volumes of water for various operations-from drinking and food preparation to cleaning and sanitation. As awareness around PFAS contamination intensifies, these facilities are under pressure to provide clean and safe water for regulatory compliance and to protect public health. Many commercial facilities are located in urban or industrial areas where PFAS contamination in water supplies is more likely due to runoff, industrial discharge, or legacy pollution from firefighting foams and manufacturing processes. To address these concerns, businesses increasingly invest in advanced PFAS filtration technologies such as reverse osmosis (RO), ion exchange resins, and granular activated carbon (GAC) systems. These technologies offer scalable and effective solutions that can be integrated into existing infrastructure without major disruptions. Beyond regulatory drivers, corporate sustainability goals and green building certifications are also encouraging commercial users to implement high-performance water treatment systems. Retailers, healthcare providers, and hospitality brands are now prioritizing clean water as a key component of environmental responsibility and customer trust. As a result, the commercial sector is emerging as a vital contributor to the growth of the PFAS filtration market.

"Europe to second-largest market for PFAS filtration during forecast period"

The PFAS filtration market in Europe is experiencing steady growth, driven by heightened environmental awareness, evolving regulatory frameworks, and a strong commitment to public health and sustainability. European countries are increasingly recognizing the risks associated with PFAS (Per- and Polyfluoroalkyl Substances) contamination, leading to more stringent water quality standards and proactive remediation efforts across the region.

The European Union (EU) has significantly regulated PFAS use and exposure. Under the EU Chemicals Strategy for Sustainability

and the REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) regulation, several PFAS compounds are restricted or reviewed for potential bans. In 2023, five EU member states-Germany, the Netherlands, Norway, Denmark, and Sweden-submitted a proposal to restrict the entire class of PFAS chemicals, which could become one of the world's most comprehensive bans. These regulatory efforts are compelling industries and municipalities to adopt advanced PFAS filtration technologies to meet compliance standards and reduce environmental impact. A strong public sector and well-developed water infrastructure support Europe's market. Municipal utilities and industrial sectors such as manufacturing, textiles, and food processing are investing in technologies like granular activated carbon (GAC), ion exchange, and reverse osmosis to remove PFAS from water sources. In addition, ongoing research and innovation in environmental engineering, supported by EU funding programs like Horizon Europe, further accelerate the development of efficient and sustainable filtration solutions.
Countries like Germany, the Netherlands, and the Nordic nations are leading the region in PFAS mitigation, while Southern and Eastern Europe are gradually expanding their capabilities in response to increasing awareness and EU-level guidance. Public pressure and media coverage around PFAS-related health risks are also fueling demand for clean water technologies across the continent. Overall, Europe represents a dynamic and policy-driven PFAS filtration market. With continued regulatory tightening, growing environmental responsibility, and technological advancement, the region is expected to play a pivotal role in shaping global PFAS remediation strategies in the years ahead.
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Extensive primary interviews were conducted to determine and verify the market size for several segments and sub-segments, and the information was gathered through secondary research.
The break-up of primary interviews is given below:
?□By Department: Tier 1: 40%, Tier 2: 25%, and Tier 3: 35%
?□By Designation: C Level: 35%, Director Level: 30%, and Executives: 35%
?□By Region: North America: 25%, Europe: 45%, Asia Pacific: 20%, South America: 5%, Middle East & Africa 5%
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), Calgon Carbon Corporation (US), Regenesis (US), Mineral Technologies, Inc. (US), CDM Smith, Inc. (US), and Pentair (UK) are the key players in the PFAS Filtration market.
The study includes an in-depth competitive analysis of these key players in the authentication and brand protection market, with their company profiles, recent developments, and key market strategies.
Research Coverage
The market study covers the PFAS Filtration market across various segments. It aims to estimate the market size and the growth potential of this market across different segments based on contaminant type, environmental medium, remediation technology, service type, technology type, end-use industry, and region. The study also includes an in-depth competitive analysis of key players in the market, their company profiles, key observations related to their products and business offerings, recent developments, and key growth strategies they adopted to improve their position in the PFAS filtration market.
Key Benefits of Buying Report
The report is expected to help the market leaders/new entrants in this market share the closest approximations of the revenue numbers of the overall PFAS filtration market and its segments and sub-segments. This report is projected to help stakeholders understand the market's competitive landscape, gain insights to improve the position of their businesses, and plan suitable go-to-market strategies. The report also aims to help stakeholders understand the pulse of the market and provides them with information on the key market drivers, restraints, challenges, and opportunities.
The report provides insights into the following points:
? Analysis of key drivers (Increasing regulatory scrutiny and tightening environmental regulations, growing public awareness of health risks associated with PFAS exposures), restraints (Expensive and complex filtration process, Limited availability of trained professionals), opportunities (significant potential to expand globally), and challenges (proper management of treatment residuals generated during PFAS treatment)

? Market Development: Comprehensive information about lucrative markets ? the report analyses the PFAS filtration market across

varied regions
? Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the PFAS filtration market
? Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players like 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), Calgon Carbon Corporation (US), Regenesis (US), Mineral Technologies, Inc. (US), CDM Smith, Inc. (US), and Pentair (UK) are the top manufacturers covered in the PFAS filtration market.

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