

# **Recycling Water Filtration Market by Product Type (Sand, Multimedia, Activated Carbon, Membrane Filters), Membrane Type (Reverse Osmosis, Ultrafiltration, Microfiltration, Nanofiltration), Maximum Flow Rate, End User and Region - Global Forecast to 2028**

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## **Abstracts**

The recycling water filtration market is estimated to grow from USD 2.7 billion in 2023 to USD 3.8 billion by 2028; it is expected to record a CAGR of 7.5% during the forecast period. The recycling water filtration market is witnessing rapid growth due to the need for sustainable water management, stringent environmental regulations governing wastewater treatment, and the ongoing advancements in water treatment technologies are driving rising demand for recycling water filtration.

“Activated carbon filters are the second-fastest growing segment of the recycling water filtration market, by product type.”

Based on the product, the recycling water filtration market has been split into four types: sand filters, multimedia filters, activated carbon filters, and membrane filters. The activated carbon filters segment is the second-fastest segment in the recycling water filtration market due to their remarkable effectiveness in addressing a spectrum of water contaminants. The cost-effectiveness and sustainability of activated carbon filtration, the versatility of activated carbon filters in various industrial applications and the technology that offers an efficient and economical solution for improving the overall quality of recycled water are increasing the demand for activated carbon filters. Activated carbon filters emerge as a crucial component in the recycling water filtration landscape, providing tangible benefits in terms of water purity, environmental impact, and cost

efficiency.

“30-50 cubic meters/hour segment is expected to be the largest segment based on maximum flow rate.”

Based on the maximum flow rate, the recycling water filtration market has been segmented into up to 30 cubic meters per hour, 30-50 cubic meters per hour and above 50 cubic meters per hour. These filters ensure a consistent supply of clean water for high-yield crop cultivation, reducing dependence on external sources account for the greatest portion of the recycling water filtration market. With this adaptable flow rate, these filters bridge the gap between smaller on-site applications and large-scale industrial needs, empowering a diverse range of industries to embrace sustainable water recycling and take significant steps toward environmental stewardship.

“Middle East & Africa is expected to emerge as the second-fastest growing region in the recycling water filtration market.”

By region, the recycling water filtration market has been segmented into Asia Pacific, North America, South America, Europe, and Middle East & Africa. In the region, the recycling water filtration market is growing in the Middle East & Africa as a result of the growing importance of water recycling in addressing water scarcity, policy and regulation enforcement for the wastewater and recycled water sector, and the increased investments and new technologies are creating opportunities for advanced filtration technologies to ensure the quality of desalinated water. In South Africa, water availability and treatment methods are likely to impact the recycling water filtration market in the rest of the Middle East; increased investments, expansion and proposed projects contribute to the increased implementation of recycling water filtration technology in the Middle East & Africa region.

“Farms are expected to be the fastest growing segment based on the end user.”

Farms are expected to be the fastest segment in the recycling water filtration market between 2023–2029 due to the use of untreated water having a negative impact on the crop yield and quality. As the demand for agriculture increases, coupled with consumer preferences for green and healthy food, there is a growing emphasis on stricter standards for water quality in agricultural production. The adoption of advanced filtration technologies enhances water efficiency, reduces dependency on traditional water sources, and promotes environmental sustainability in farming practices further contributing to the increasing demand.

### Breakdown of primaries:

In-depth interviews have been conducted with various key industry participants, subject-matter experts, c-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information, as well as to assess future market prospects. The distribution of primary interviews is as follows:

By Company Type: Tier 1- 45%, Tier 2- 30%, and Tier 3- 25%

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

By Region: North America- 27%, Europe- 20%, Asia Pacific- 33%, The Middle East & Africa- 12%, and South America- 8%

Note: Others include product engineers, product specialists, and engineering leads.

Note: The tiers of the companies are defined on the basis of their total revenues as of 2021. Tier 1: > USD 1 billion, Tier 2: from USD 500 million to USD 1 billion, and Tier 3: The recycling water filtration market is dominated by a few major players that have a wide regional presence. The leading players in the recycling water filtration market are Veolia (France), TORAY INDUSTRIES, INC. (Japan), Xylem (US), DuPont (US), and KUBOTA Corporation (Japan).

### Research coverage:

The report defines, describes, and forecasts the recycling water filtration market by component, type, services, voltage, application, and region. It also offers a detailed qualitative and quantitative analysis of the market. The report provides a comprehensive review of the major market drivers, restraints, opportunities, and challenges. It also covers various important aspects of the market. These include an analysis of the competitive landscape, market dynamics, market estimates, in terms of value, and future trends in the recycling water filtration market.

### Key benefits of buying the report

The pressing need for sustainable water management and stringent environmental regulations governing wastewater treatment is likely to drive the

demand. Factors such as the lack of effective pricing strategies to ensure financial viability and sustainability and high-tech complexities in water treatment hinder the growth of recycling water filtration. Ongoing advancements in water treatment technologies are creating opportunities in this market. The discrepancy between monitoring location and installation site and social and political pressure to ensure affordability and accessibility of water are major challenges faced by countries in this market.

**Product development/ innovation:** Technological innovations in the field of nanotechnology, photocatalytic water purification technology, automated variable filtration technology, and digitalization are driving product development in the market.

**Market development:** The global scenario of recycling water filtration has developed due to a rising focus on adopting sustainable wastewater management practices, and a growing emphasis on wastewater reuse sustainable water management solutions.

**Market diversification:** Toray Industries, Inc., announced the upcoming launch of the TBW-HR series of ultralow-pressure reverse osmosis (RO) membrane elements in March 2022. These new products significantly enhance the rejection of silica, boron, and other neutral molecules from untreated water by controlling RO membrane micropore sizes and structures. The TBW-HR series surpasses existing ultralow-pressure RO membrane elements in impurity rejection, offering the potential advantage of purifying higher-quality and higher-purity water.

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, and service offerings of leading players like Veolia (France), TORAY INDUSTRIES, INC. (Japan), Xylem (US), DuPont (US), and KUBOTA Corporation (Japan), among others in the recycling water filtration market.

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