

North America Decentralized Containerized Packaged Water And Wastewater Treatment Systems Market Forecast 2025-2032

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KEY FINDINGS

The North America decentralized containerized packaged water and wastewater treatment systems market is anticipated to rise with a CAGR of 7.74% over the forecasting years of 2025 to 2032. The market was valued at \$1967.40 in 2024 and is expected to reach a revenue of \$3594.15 million by 2032.

MARKET INSIGHTS

The growth of the North America decentralized containerized packaged water and wastewater treatment systems market is driven by increasing water scarcity, the need for efficient water management solutions, and technological advancements in treatment technologies such as membrane bioreactors and advanced filtration systems. Government regulations supporting sustainable water management, along with the growing emphasis on corporate sustainability initiatives, are further fuelling market expansion. The adoption of decentralized systems in the region is gaining further traction due to their flexibility, cost-effectiveness, and ability to provide localized water treatment, especially in areas where centralized systems are not feasible.

REGIONAL ANALYSIS

The North America decentralized containerized packaged water and wastewater treatment systems market growth analysis entails the assessment of the United States and Canada. The United States holds the largest market share in the North American region, driven by strict water regulations and rising investments in water infrastructure. The US Environmental Protection Agency (EPA) has been instrumental in promoting decentralized water treatment systems as a solution for improving water quality in areas that lack access to centralized treatment facilities. Industrial sectors, including food and beverage, pharmaceuticals, and chemicals, are key adopters of containerized water treatment systems to meet regulatory compliance and achieve sustainability goals. The demand is further enhanced by increasing awareness of water reuse and the need to reduce environmental impact. Canada is also witnessing a growing market for decentralized water and wastewater treatment systems, supported by government initiatives to promote sustainable water management practices. The Canadian market is particularly focused on remote areas and indigenous communities, where containerized systems provide a practical and efficient solution for local water treatment needs. Furthermore, Canada's vast natural resources, including water bodies and forested areas, provide ample opportunity for utilizing decentralized systems to treat wastewater generated by industries such as mining and forestry.

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SEGMENTATION ANALYSIS

The North America decentralized containerized packaged water and wastewater treatment systems market is segmented into treatment type and end-user. The treatment type segment is further classified into water treatment (including membrane filtration, ion exchange, media filtration, and other water treatments) as well as wastewater treatment (including membrane bioreactor (MBR), moving bed biofilm reactor (MBBR), submerged aerated filter (SAF), sequencing batch reactor (SBR), rotating biological contactor (RBC), and other wastewater treatments).

Membrane filtration has emerged as a crucial water treatment technology in the decentralized containerized packaged water and wastewater treatment systems market. This method uses semi-permeable membranes to separate contaminants, bacteria, and impurities from water, making it an effective solution for a variety of settings, including remote and small-scale locations where access to large, centralized treatment facilities is limited. Membrane filtration systems, such as microfiltration, ultrafiltration, nanofiltration, and reverse osmosis, offer flexibility and scalability, enabling high-quality water purification while fitting within compact, containerized units.

This adaptability makes membrane filtration ideal for decentralized applications, such as rural communities, temporary construction sites, disaster relief efforts, and industrial facilities needing on-site treatment solutions. The adoption of membrane filtration in decentralized systems is also driven by its efficiency in meeting stringent water quality standards with minimal environmental impact. These systems require less space and often operate with lower energy demands than traditional treatment methods, which is beneficial for remote areas where resources may be scarce. Additionally, advancements in membrane technology have improved durability and reduced fouling, lowering maintenance requirements and extending the lifespan of these systems.

COMPETITIVE INSIGHTS

Key players operating in the North America decentralized containerized packaged water and wastewater treatment systems market include Aquatech International, Fluence Corporation, Ovivo Inc, SUEZ Water Technologies & Solutions, etc.

Aquatech International, established in 1981 and headquartered in Canonsburg, Pennsylvania, the United States, is a global leader in water purification technology, specializing in industrial water treatment, desalination, water reuse, and zero liquid discharge (ZLD). The company focuses on addressing water scarcity by offering advanced technologies and solutions for both industrial and municipal sectors. Its services span various industries, including energy, chemicals, pharmaceuticals, and mining.

Table of Contents:

TABLE OF CONTENTS

1. RESEARCH SCOPE & METHODOLOGY

1.1. STUDY OBJECTIVES

1.2. METHODOLOGY

1.3. ASSUMPTIONS & LIMITATIONS

2. EXECUTIVE SUMMARY

2.1. MARKET SIZE & ESTIMATES

2.2. MARKET OVERVIEW

2.3. SCOPE OF STUDY

2.4. CRISIS SCENARIO ANALYSIS

2.4.1. IMPACT OF COVID-19 ON THE DECENTRALIZED CONTAINERIZED PACKAGED WATER AND WASTEWATER TREATMENT SYSTEMS MARKET

2.5. MAJOR MARKET FINDINGS

2.5.1. MEMBRANE FILTRATION FOUND TO BE THE MOST WIDELY USED WATER TREATMENT TYPE

2.5.2. RISING OPPORTUNITIES IN DISASTER RELIEF AND HUMANITARIAN EFFORTS

2.5.3. INCREASING ADOPTION BY INDUSTRIES AND MUNICIPALITIES

3. MARKET DYNAMICS

3.1. KEY DRIVERS

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- 3.1.1. WATER SCARCITY AND NEED FOR EFFICIENT WATER MANAGEMENT
- 3.1.2. TECHNOLOGICAL ADVANCEMENTS IN MEMBRANE BIOREACTORS AND ADVANCED FILTRATION METHODS
- 3.1.3. GROWTH IN DECENTRALIZED WATER AND WASTEWATER TREATMENT IMPLEMENTATION DRIVEN BY SUSTAINABILITY GOALS AND CORPORATE GOVERNANCE INITIATIVES
- 3.2. KEY RESTRAINTS
 - 3.2.1. COMPETITION FROM OTHER ESTABLISHED CENTRALIZED SYSTEMS
 - 3.2.2. LOGISTICAL CHALLENGES FACED BY CONTAINERIZED SYSTEMS
 - 3.2.3. FUNDING CONSTRAINTS IN DEVELOPING NATIONS
- 4. KEY ANALYTICS
 - 4.1. PARENT MARKET ANALYSIS
 - 4.2. KEY MARKET TRENDS
 - 4.2.1. INVESTMENTS IN DISASTER RELIEF CONTAINERIZED WATER TREATMENT SYSTEMS
 - 4.2.2. ADOPTION OF PLUG-AND-PLAY CONTAINERIZED SYSTEMS FOR FLEXIBLE DEPLOYMENT
 - 4.3. PORTER'S FIVE FORCES ANALYSIS
 - 4.3.1. BUYERS POWER
 - 4.3.2. SUPPLIERS POWER
 - 4.3.3. SUBSTITUTION
 - 4.3.4. NEW ENTRANTS
 - 4.3.5. INDUSTRY RIVALRY
 - 4.4. GROWTH PROSPECT MAPPING
 - 4.4.1. GROWTH PROSPECT MAPPING FOR NORTH AMERICA
 - 4.5. MARKET MATURITY ANALYSIS
 - 4.6. MARKET CONCENTRATION ANALYSIS
 - 4.7. VALUE CHAIN ANALYSIS
 - 4.7.1. RAW MATERIAL AND COMPONENT SUPPLY
 - 4.7.2. DEVELOPMENT OF SYSTEM DESIGN
 - 4.7.3. MANUFACTURING AND ASSEMBLY
 - 4.7.4. LOGISTICS AND DISTRIBUTION
 - 4.7.5. INSTALLATION
 - 4.8. KEY BUYING CRITERIA
 - 4.8.1. TREATMENT EFFICACY AND EFFICIENCY
 - 4.8.2. CAPITAL INVESTMENT AND RELATED COSTS
 - 4.8.3. EASE OF INSTALLATION
 - 4.8.4. SPACE REQUIREMENTS
 - 4.9. DECENTRALIZED CONTAINERIZED PACKAGED WATER AND WASTEWATER TREATMENT SYSTEMS MARKET REGULATORY FRAMEWORK
- 5. MARKET BY TREATMENT TYPE
 - 5.1. WATER TREATMENT
 - 5.1.1. MEMBRANE FILTRATION
 - 5.1.2. ION EXCHANGE
 - 5.1.3. MEDIA FILTRATION
 - 5.1.4. OTHER WATER TREATMENTS
 - 5.2. WASTEWATER TREATMENT
 - 5.2.1. MEMBRANE BIOREACTOR (MBR)
 - 5.2.2. MOVING BED BIOFILM REACTOR (MBBR)
 - 5.2.3. SUBMERGED AERATED FILTER (SAF)
 - 5.2.4. SEQUENCING BATCH REACTOR (SBR)

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- 5.2.5. ROTATING BIOLOGICAL CONTRACTOR (RBC)
- 5.2.6. OTHER WASTEWATER TREATMENTS
- 6. MARKET BY END-USER
 - 6.1. INDUSTRIAL
 - 6.2. COMMERCIAL
 - 6.3. MUNICIPAL/DOMESTIC
- 7. GEOGRAPHICAL ANALYSIS
 - 7.1. NORTH AMERICA
 - 7.1.1. MARKET SIZE & ESTIMATES
 - 7.1.2. NORTH AMERICA DECENTRALIZED CONTAINERIZED PACKAGED WATER AND WASTEWATER TREATMENT SYSTEMS MARKET DRIVERS
 - 7.1.3. NORTH AMERICA DECENTRALIZED CONTAINERIZED PACKAGED WATER AND WASTEWATER TREATMENT SYSTEMS MARKET CHALLENGES
 - 7.1.4. KEY PLAYERS IN NORTH AMERICA DECENTRALIZED CONTAINERIZED PACKAGED WATER AND WASTEWATER TREATMENT SYSTEMS MARKET
 - 7.1.5. COUNTRY ANALYSIS
 - 7.1.5.1. UNITED STATES
 - 7.1.5.1.1. UNITED STATES DECENTRALIZED CONTAINERIZED PACKAGED WATER AND WASTEWATER TREATMENT SYSTEMS MARKET SIZE & OPPORTUNITIES
 - 7.1.5.2. CANADA
 - 7.1.5.2.1. CANADA DECENTRALIZED CONTAINERIZED PACKAGED WATER AND WASTEWATER TREATMENT SYSTEMS MARKET SIZE & OPPORTUNITIES
- 8. COMPETITIVE LANDSCAPE
 - 8.1. KEY STRATEGIC DEVELOPMENTS
 - 8.1.1. MERGERS & ACQUISITIONS
 - 8.1.2. PRODUCT LAUNCHES & DEVELOPMENTS
 - 8.1.3. PARTNERSHIPS & AGREEMENTS
 - 8.1.4. BUSINESS EXPANSIONS & DIVESTITURES
 - 8.2. COMPANY PROFILES
 - 8.2.1. AQUATECH INTERNATIONAL
 - 8.2.1.1. COMPANY OVERVIEW
 - 8.2.1.2. PRODUCTS
 - 8.2.1.3. STRENGTHS & CHALLENGES
 - 8.2.2. AXEON WATER TECHNOLOGIES
 - 8.2.2.1. COMPANY OVERVIEW
 - 8.2.2.2. PRODUCTS
 - 8.2.2.3. STRENGTHS & CHALLENGES
 - 8.2.3. BI PURE WATER
 - 8.2.3.1. COMPANY OVERVIEW
 - 8.2.3.2. PRODUCTS
 - 8.2.3.3. STRENGTHS & CHALLENGES
 - 8.2.4. FLUENCE CORPORATION
 - 8.2.4.1. COMPANY OVERVIEW
 - 8.2.4.2. PRODUCTS
 - 8.2.4.3. STRENGTHS & CHALLENGES
 - 8.2.5. KLARO GMBH
 - 8.2.5.1. COMPANY OVERVIEW

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- 8.2.5.2. PRODUCTS
- 8.2.5.3. STRENGTHS & CHALLENGES
- 8.2.6. OVIVO INC
 - 8.2.6.1. COMPANY OVERVIEW
 - 8.2.6.2. PRODUCTS
 - 8.2.6.3. STRENGTHS & CHALLENGES
- 8.2.7. SMITH & LOVELESS INC
 - 8.2.7.1. COMPANY OVERVIEW
 - 8.2.7.2. PRODUCTS
 - 8.2.7.3. STRENGTHS & CHALLENGES
- 8.2.8. SUEZ WATER TECHNOLOGIES & SOLUTIONS
 - 8.2.8.1. COMPANY OVERVIEW
 - 8.2.8.2. PRODUCTS
 - 8.2.8.3. STRENGTHS & CHALLENGES
- 8.2.9. VEOLIA WATER TECHNOLOGIES
 - 8.2.9.1. COMPANY OVERVIEW
 - 8.2.9.2. PRODUCTS
 - 8.2.9.3. STRENGTHS & CHALLENGES
- 8.2.10. XYLEM INC
 - 8.2.10.1. COMPANY OVERVIEW
 - 8.2.10.2. PRODUCTS
 - 8.2.10.3. STRENGTHS & CHALLENGES

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