

# **North America Recirculating Aquaculture Systems Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Offering (Component and Services), Component (Filtration System, Aeration System, Pumping System, and Others), and Fishery Capacity [Small Scale (Upto 20000 Liters), Medium Scale (21000-50000 Liters), and Large Scale (Above 50000 Liters)]**

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## **Abstracts**

The North America Recirculating Aquaculture Systems (RAS) Market is poised for significant growth, projected to reach approximately US\$ 1,753.1 million by 2031, up from US\$ 1,036.7 million in 2023, reflecting a compound annual growth rate (CAGR) of 6.8% during this period. This growth is primarily driven by the increasing demand for sustainable seafood production, efficient water usage, and heightened awareness regarding overfishing.

Recirculating aquaculture systems represent a transformative approach to fish farming, allowing for the cultivation of fish in a controlled, closed-loop environment. This technology recycles water, thereby minimizing environmental impact and addressing challenges such as water scarcity and land availability, which are prevalent in traditional aquaculture practices. The North American aquaculture sector is increasingly adopting RAS due to its ability to produce high-quality seafood while alleviating pressure on natural resources.

A notable player in this market is The Kingfish Company, which specializes in the

production of Yellowtail Kingfish using RAS technology. The company emphasizes animal welfare, raising fish without antibiotics or vaccines, and operates a state-of-the-art facility in the United States. This facility is designed to produce premium fish for the seafood market, and the company is on track to obtain a permit for a new facility with a capacity of 6,000 to 8,000 tons, expected to commence production in the latter half of 2023. The success of The Kingfish Company serves as a model for other firms, encouraging them to leverage RAS technology to meet the growing demand for sustainable seafood and explore new market opportunities.

The North America RAS market can be segmented by offering into Components and Services, with the Components segment holding the largest market share in 2023. Further segmentation by component reveals that the Filtration System is the leading segment, followed by Aeration Systems, Pumping Systems, and others. Additionally, the market is categorized by fishery capacity into Small Scale (up to 20,000 liters), Medium Scale (21,000-50,000 liters), and Large Scale (above 50,000 liters), with the Large Scale segment dominating the market in 2023.

The growth of the aquaculture industry is a significant factor propelling the RAS market forward. Global aquaculture activities are on the rise, driven by population growth, urbanization, and increased consumer awareness of the health benefits associated with fish consumption. The global aquaculture market was valued at US\$ 204 billion in 2020 and is projected to reach US\$ 262 billion by 2026, according to the International Trade Administration. The 2024 edition of The State of World Fisheries and Aquaculture (SOFIA) reported that global fisheries and aquaculture production reached 223.2 million tonnes in 2022, marking a 4.4% increase from 2020. This includes 185.4 million tonnes of marine animals and 37.8 million tonnes of algae, with aquaculture production alone peaking at 130.9 million tonnes.

Traditional aquaculture methods, such as open-water farming, face scrutiny due to their environmental impacts, inefficient resource use, and risks of disease transmission. Consequently, fish farmers are increasingly transitioning to more sustainable and technologically advanced practices, including RAS. This technology is well-positioned to meet the growing focus on sustainability, optimal space utilization, and local seafood production, particularly in urban settings. These trends are shaping the aquaculture industry globally, thereby benefiting the RAS market.

In terms of geographical insights, the North America RAS market is segmented into the United States, Canada, and Mexico, with the United States holding the largest market share in 2023. A significant development in the U.S. market is the partnership between

the University of Miami's Aquaculture Program and Innovasea, which aims to implement a state-of-the-art RAS to replace an existing flow-through system in its Experimental Hatchery. This new facility is designed to enhance larval production capabilities and improve operational efficiency, focusing on various fish species such as cobia, red snapper, mahi-mahi, and others. This initiative reflects the growing trend towards adopting RAS technologies in the U.S., promoting sustainable fish farming practices and meeting the rising seafood demand.

Key players in the RAS market include Veolia, AKVA Group ASA, Innovasea Systems Inc., FutureFish Aquaculture GmbH, Xylem Inc., MAT-KULING RECIRCULATING AQUACULTURE SYSTEMS, PR Aqua, ULC, Integrated Aqua Systems, Inc., AquaMaof Aquaculture Technologies Ltd., and Aquavet Solutions Limited. These companies are pursuing various strategies, including expansion, product innovation, and mergers and acquisitions, to enhance their market presence and offer innovative solutions to consumers.

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