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Recirculating Aquaculture System Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Offering [Components (Filtration Systems, Aeration Systems, Pumping Systems, and Others) and Services], Fishery Capacity [Small Scale (Upto 20,000 Liters), Medium Scale (21,000–50,000 Liters), and Large Scale (Above 50,000 Liters)], and Geography

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Abstracts

The recirculating aquaculture systems market size was valued at US$ 5,194.07 million in 2023 and is expected to reach US$ 9,045.64 million by 2031; it is estimated to record a CAGR of 7.2% from 2023 to 2031.

The recirculating aquaculture systems market is segmented into five major regions—North America, Europe, Asia Pacific (APAC), the Middle East & Africa (MEA), and South & Central America. Asia Pacific dominated the market in 2023, followed by North America and Europe, respectively. Surrounded by the Mediterranean Sea, the Gulf, and the Red Sea, the Middle East & Africa are strategically positioned to bolster their seafood production. This emphasis on growth aligns with the increasing adoption of recirculating aquaculture systems, which are being increasingly integrated into the region's aquaculture operations to improve efficiency, reduce environmental impact, and ensure a sustainable and reliable seafood supply to meet the rising demand. The Aquatic Middle East Network (AQMENET) serves as a key platform to support the execution of high-priority initiatives in the region, in line with the World Organisation for Animal Health's (WOAH) Aquatic Animal Health Strategy. It specifically facilitates the

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creation of networks to assist WOAH Delegates and National Focal Points for Aquatic Animals in enhancing aquatic animal health and implementing WOAH's standards for aquatic species. The AQMENET includes countries bordering the Red Sea and the Gulf, such as Bahrain, Djibouti, Egypt, Iraq, Jordan, Kuwait, Oman, Qatar, Saudi Arabia, Somalia, Sudan, the UAE, and Yemen. Among these, Egypt and Saudi Arabia are the primary aquaculture producers. In the past years, Egyptian aquaculture has seen rapid and impressive growth, making the country the leading producer in Africa and the sixth largest globally. This expansion has significantly contributed to Egypt's food security and economic development. The establishment of AQMENET underlines the growing recognition of the critical role that aquatic animal production plays in enhancing food security across the Middle East & Africa.

The recirculating aquaculture systems market in America is South & Central gaining momentum as the region seeks sustainable solutions to meet the growing seafood demand while addressing environmental concerns. Owing to the abundance of freshwater, gigantic coastline and consumer preference for sustainably sourced products, countries Such as Brazil, Chile, and Colombia are leading the way in adopting recirculating aquaculture systems. Recirculating aquaculture systems provide an efficient solution by recycling water, minimizing environmental impacts, and ensuring biosecurity in aquaculture operations. Governments and private stakeholders recognize the importance of this technology, which is evident through growing support provided in the form of funding and regulatory measures aimed at promoting sustainable aquaculture practices. AquaMaof, a leading Israeli company specializing in recirculating aquaculture technology, has been focusing on expanding its footprint in South & Central America by collaborating with local players to develop land-based aquaculture projects that prioritize sustainability and resource efficiency. Furthermore, organizations and regional regulatory bodies are playing a crucial role in fostering the adoption of recirculating aquaculture systems, providing guidelines, training, and support to encourage the integration of these advanced technologies into the region's aquaculture industry.

Based on fishery capacity, the recirculating aquaculture systems market is segmented into small scale (up to 20,000 liters), medium scale (21,000–50,000 liters), and large scale (above 50,000 liters). The large scale (above 50000 liters) segment held the largest recirculating aquaculture systems market share. Large scale recirculating aquaculture systems, with capacities above 50,000 liters, are typically used at commercial aquaculture farms of substantial size, focused on mass production. Being designed for high-volume fish farming, these systems are capable of supporting the development of fish culture in significant volumes and meeting the elevating demand for

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seafood. Large-scale recirculating aquaculture systems require advanced technology and extensive infrastructure to maintain water quality, ensure the health of the aquatic species, and optimize system performance. These systems are usually more complex, involving sophisticated automation, monitoring, and control systems. They offer economies of scale and bulky yields, which makes them ideal for large commercial ventures aiming for high profitability and efficiency in aquaculture production. However, large-scale recirculating aquaculture systems need extensive initial capital investment and feature more extensive operational complexity compared to smaller systems; thus, they are best suited for operators with substantial experience in the aquaculture industry.

Innovasea Systems Inc.; MAT-KULING RECIRCULATING AQUACULTURE SYSTEMS; PR Aqua; ULC, Integrated Aqua Systems, Inc; AquaMaof Aquaculture Technologies Ltd.; Veolia Environment SA; FutureFish Aquaculture GmbH; AKVA Group ASA; Xylem Inc.; and Aquavet Solutions Limited are among the key recirculating aquaculture systems market players that are profiled in this market study.

The overall recirculating aquaculture systems market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the recirculating aquaculture systems market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders specializing in the recirculating aquaculture systems market.

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