

Water Desalination Equipment Market to Surpass USD 26.1 Billion by 2035 Amid 8.4% CAGR Growth

Water desalination equipment market to hit USD 26.1 Billion by 2035, driven by water scarcity, tech advances, and demand for sustainable solutions.

NEWARK, DE, UNITED STATES, June 16, 2025 /EINPresswire.com/ -- The global [water desalination Equipment market](#) is projected is expected to grow at a CAGR of 8.4%, reaching approximately USD 26.1 billion by 2035. This robust growth is primarily driven by increasing investments from water-scarce regions such as the Middle East, North Africa, and Asia-Pacific, where desalination has become a strategic priority to ensure long-term water security.



Water desalination equipment enables the removal of salts and other impurities from seawater, brackish water, and wastewater, converting it into potable or industrial-grade water. Modern desalination technologies, including reverse osmosis (RO), multi-stage flash distillation (MSF), and electrodialysis, are being increasingly adopted in both municipal and industrial sectors. As environmental regulations tighten and demand for decentralized water infrastructure grows, investment in desalination plants and equipment continues to accelerate across the globe.

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Rising water scarcity and climate pressures are accelerating global investments in energy-efficient desalination technologies, positioning the market for robust long-term growth.”

Nikhil Kaitwade

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Market Trends

1. Surge in Reverse Osmosis (RO) Adoption:

RO remains the most widely used desalination technology due to its efficiency, scalability, and declining membrane costs. Continuous innovation in RO membranes is enhancing energy efficiency and reducing maintenance needs.

2. Integration with Renewable Energy:

There is a growing push to pair desalination systems with renewable energy sources like solar and wind, particularly in off-grid or remote coastal areas. Solar-powered RO plants are gaining traction as sustainable alternatives to traditional energy-intensive systems.

3. Modular and Mobile Systems Rising in Demand:

The market is witnessing increased interest in compact, mobile desalination units suitable for disaster recovery, military applications, and rural or temporary water needs.

4. Smart Monitoring and Automation:

Advanced monitoring systems integrated with IoT and AI are helping utilities optimize performance, reduce energy consumption, and predict maintenance requirements—leading to cost-effective operation.

Key Takeaways of the Report

- Reverse osmosis technology continues to dominate the market, followed by multi-effect distillation (MED) and MSF due to its operational advantages and cost-efficiency.
- Municipal and industrial sectors are the key end-users, with significant growth opportunities emerging in agriculture and tourism applications.
- Investments in energy-efficient and renewable-integrated desalination solutions are shaping the next generation of desalination projects.
- The Middle East & Africa region remains the largest market, but Asia-Pacific and North America are rapidly catching up with massive infrastructure development and climate-resilient water strategies.

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Regional Market Outlook

Middle East & Africa:

This region holds the largest market share, driven by chronic water shortages and decades-long reliance on desalination. Countries like Saudi Arabia, the UAE, and Israel are leading adopters, with continued investment in both mega-plants and solar-powered desalination projects.

Asia-Pacific:

Countries such as India, China, and Australia are accelerating desalination initiatives in response to unpredictable monsoons, rising coastal populations, and growing industrial needs.

Government-funded projects and public-private partnerships are fostering strong market expansion.

North America:

The U.S. and Mexico are investing in desalination to combat drought conditions in coastal and arid states such as California and Texas. Innovations in brine management and energy-efficient technologies are gaining government support.

Europe:

Southern European nations like Spain and Italy are early adopters due to seasonal droughts. EU water policies and funding for climate-adaptive infrastructure are expected to increase investments in next-generation desalination.

Latin America:

Chile and Peru are deploying desalination systems to support mining and agriculture, while Caribbean nations explore mobile and containerized desalination units to combat freshwater shortages.

Competition Outlook

The water desalination equipment market is moderately fragmented, with a mix of global leaders and regional players competing on technology innovation, energy efficiency, and turnkey plant offerings. Key players are focusing on expanding their product portfolios, forming strategic alliances, and investing in R&D to remain competitive in this dynamic landscape.

Key Company Insights

- Veolia Water Technologies
- Suez SA
- IDE Technologies
- DuPont Water Solutions
- Toray Industries, Inc.
- Acciona Agua
- Hyflux Ltd.
- Xylem Inc.
- Pentair Plc
- Hitachi Zosen Corporation
- Aquatech International LLC

Heavy Engineering Solutions Industry Analysis: <https://www.futuremarketinsights.com/industry-analysis/heavy-engineering-solutions>

Water Desalination Equipment Market Segmentation

By Technology:

- Reverse Osmosis
- Nano filtration
- Multi-stage Flash
- Electrodialysis
- Vapour Compression
- Multi-effect Distillation
- Others

By Application:

- Municipal
- Industrial
- Others

By Region:

- North America
- Latin America
- Western Europe
- Eastern Europe
- East Asia
- South Asia Pacific
- Middle East and Africa

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