

Water Desalination Plant Equipment Market Size, Share & Trends Analysis Report By Equipment (Pretreatment System), By Source (Seawater), By Application (Municipal, Industrial), By Production Capacity (Below 10 m³/hr), By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Water Desalination Plant Equipment Market Growth & Trends

The global water desalination plant equipment market size is anticipated to reach USD 73,616.8 million by 2030 and is projected to grow at a CAGR of 10.0% from 2024 to 2030, according to a new report by Grand View Research, Inc. Rising concerns regarding water scarcity and a significant increase in industrial activities are likely to drive the growth of the market.

The scarcity of freshwater reserves, coupled with the rising demand for water in various arid regions, as these areas lack sources of surface water such as lakes and rivers, has resulted in augmenting the number of desalination plants globally. Since 1990, over half of the wetlands on the earth have disappeared owing to climatic changes. Moreover, according to the United Nations' World Water Development Report 2024, 2.2 billion people lacked access to safely managed drinking water services in 2022, thereby contributing to water scarcity globally.

Furthermore, the increasing energy efficiency in water desalination plant equipment is poised to drive significant cost savings and stimulate market growth. As advancements

in technology reduce the energy consumption required for desalination technologies, the market for such equipment is expected to experience robust growth, driven by both cost-effectiveness and heightened demand for sustainable water solutions. This reduction in energy expenditure not only enhances the economic feasibility of desalination projects but also encourages their adoption in regions facing water scarcity.

Advanced desalination equipment is being developed using data analytics and machine learning algorithms. These technologies can optimize membrane design and operation, leading to improved water recovery rates and reduced energy consumption. For example, machine learning models can analyze historical data to identify optimal operating conditions for desalination membranes, maximizing their performance and efficiency.

Water Desalination Plant Equipment Market Report Highlights

Based on equipment, the desalination device segment led the market and accounted for 44.3% of the overall revenue share in 2023. This can be attributed to the high importance and cost-intensive desalination process by technologies such as reverse osmosis, multi-stage distillation (MSF), and multi-effect distillation (MED).

In terms of revenue, the brackish water segment is expected to grow at the second-highest CAGR of 10.1% over the forecast period. This can be attributed to the rising technological innovation and development of cost-effective systems for desalination.

Based on application, the municipal source segment led the market and accounted for 50.7% of the overall revenue share in 2023. The growing urban population, combined with the expansion of megacities around the world, is expected to drive the growth of the municipal segment over the forecast period.

In terms of revenue, the below 10 m³/hr is likely to grow at a CAGR of 13.0% over the forecast period owing to the rising demand of potable water in smaller communities, remote areas, and some of industries which requires high-purity of water.

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market Segmentation & Scope
- 1.2 Market Definitions
- 1.3 Research Methodology
- 1.4 Information Procurement
 - 1.4.1 Purchased Database
 - 1.4.2 GVR's Internal Database
 - 1.4.3 Secondary Sources
 - 1.4.4 Third Party Perspective
 - 1.4.5 Information analysis
- 1.5 Information Analysis
 - 1.5.1 Data Analysis Models
 - 1.5.2 Market formulation & data visualization
 - 1.5.3 Data validation & publishing
- 1.6 Research Scope and Assumptions
 - 1.6.1 List to data sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Snapshot
- 2.2 Segment Snapshot
- 2.3 Competitive Landscape Snapshot

CHAPTER 3 WATER DESALINATION PLANT EQUIPMENT MARKET: VARIABLES, TRENDS & SCOPE

- 3.1 Market Lineage Outlook
- 3.2 Concentration and Growth Prospect Mapping
- 3.3 Industry Value Chain Analysis
 - 3.3.1 Key Raw Material/Component Outlook
 - 3.3.2 Key Manufacturer Outlook
 - 3.3.3 Distributor Outlook
 - 3.3.4 End-User Outlook
- 3.4 Pricing Analysis
- 3.5 Regulatory Framework
 - 3.5.1 Impact of Regulation on the Market

3.6 Technology Overview

3.6.1 Impact of Industry 4.0

3.7 Market Dynamics

3.7.1 Market Driver Analysis

3.7.1.1 Rapid Depletion In Freshwater Reserves Coupled With Increasing Water Scarcity

3.7.1.2 Rising Advancements In Desalination Technologies

3.7.2 Market Restraint Analysis

3.7.2.1 High Costs Of Desalination

3.7.3 Market Opportunity Analysis

3.7.3.1 Growing Industrialization Fostering Market Growth

3.7.4 Market Challenge Analysis

3.7.4.1 Environmental Impact Of Water Desalination Poses Barriers To Market Growth

3.8 Industry Analysis Tools

3.8.1 Porter's analysis

3.8.2 Macroeconomic analysis

3.9 Economic Mega Trend Analysis

3.9.1 Russia-Ukraine War

3.9.2 Fluctuations in Raw Material Prices

3.9.3 Supply Chain Challenges

3.9.4 Global Labor Shortage

CHAPTER 4 REVERSE OSMOSIS (RO) EQUIPMENT MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

4.1 Reverse Osmosis (RO) Equipment Market Estimates & Forecasts, By Application, 2018 - 2030 (USD Million)

4.1.1 Desalination

4.1.2 Ultrapure Water Treatment

4.1.3 Wastewater Treatment

CHAPTER 5 WATER DESALINATION PLANT EQUIPMENT MARKET: EQUIPMENT ESTIMATES & TREND ANALYSIS

5.1 Water Desalination Plant Equipment Market: Equipment Outlook

5.2 Water Desalination Plant Equipment Market: Equipment Movement Analysis & Market Share, 2023 & 2030

5.3 Water Desalination Plant Equipment Market Estimates & Forecasts, By Equipment,

2018 - 2030 (USD Million & Units)

- 5.3.1 Pretreatment System
- 5.3.2 Desalination Device
- 5.3.3 Reverse Osmosis (RO) System
- 5.3.4 Multi-stage Flash Distillation (MSF) System
- 5.3.5 Multi-effect Distillation (MED) System
- 5.3.6 Multi-effect Distillation (MED) System
- 5.3.7 Post-Processing System
- 5.3.8 Post-Processing System
- 5.3.9 Cleaning System
- 5.3.10 Electrical Control System

CHAPTER 6 WATER DESALINATION PLANT EQUIPMENT MARKET: SOURCE ESTIMATES & TREND ANALYSIS

- 6.1 Water Desalination Plant Equipment Market: Source Outlook
- 6.2 Water Desalination Plant Equipment Market: Source Movement Analysis & Market Share, 2023 & 2030
- 6.3 Water Desalination Plant Equipment Market Estimates & Forecasts, By Source, 2018 - 2030 (USD Million & Units)
 - 6.3.1 Seawater
 - 6.3.2 Brackish Water
 - 6.3.3 River Water
 - 6.3.4 Others

CHAPTER 7 WATER DESALINATION PLANT EQUIPMENT MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

- 7.1 Water Desalination Plant Equipment Market: Application Outlook
- 7.2 Water Desalination Plant Equipment Market: Application Movement Analysis & Market Share, 2023 & 2030
- 7.3 Water Desalination Plant Equipment Market Estimates & Forecasts, By Application, 2018 - 2030 (USD Million & Units)
 - 7.3.1 Municipal
 - 7.3.2 Industrial
 - 7.3.3 Others

CHAPTER 8 WATER DESALINATION PLANT EQUIPMENT MARKET: PRODUCTION CAPACITY ESTIMATES & TREND ANALYSIS

- 8.1 Water Desalination Plant Equipment Market: Production Capacity Outlook
- 8.2 Water Desalination Plant Equipment Market: Production Capacity Movement Analysis & Market Share, 2023 & 2030
- 8.3 Water Desalination Plant Equipment Market Estimates & Forecasts, By Production Capacity, 2018 - 2030 (USD Million & Units)
 - 8.3.1 Below 10 m³/hr
 - 8.3.2 11-100 m³/hr
 - 8.3.3 101-400 m³/hr
 - 8.3.4 401-1,000 m³/hr
 - 8.3.5 1,001-1,500 m³/hr
 - 8.3.6 Above 1,500 m³/hr

CHAPTER 9 WATER DESALINATION PLANT EQUIPMENT MARKET: REGION ESTIMATES & TREND ANALYSIS

- 9.1 Water Desalination Plant Equipment Market: Regional Outlook
- 9.2 North America
 - 9.2.1 North America Water Desalination Plant Equipment market estimates & forecasts, 2018 - 2030 (USD Million)
 - 9.2.2 U.S.
 - 9.2.2.1 U.S. Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)
 - 9.2.2.2 U.S. Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)
 - 9.2.3 Canada
 - 9.2.3.1 Canada Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)
 - 9.2.3.2 Canada Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)
 - 9.2.4 Mexico
 - 9.2.4.1 Mexico Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)
 - 9.2.4.2 Mexico Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)
- 9.3 Europe
 - 9.3.1 Europe Water Desalination Plant Equipment market estimates & forecasts, 2018 - 2030 (USD Million)
 - 9.3.2 Europe Water Desalination Plant Equipment market estimates & forecasts, 2018

- 2030 (UNITS)

9.3.3 Spain

9.3.3.1 Spain Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.3.3.2 Spain Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.3.4 Greece

9.3.4.1 Greece Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.3.4.2 Greece Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.3.5 UK

9.3.5.1 UK Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.3.5.2 UK Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.3.6 France

9.3.6.1 France Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.3.6.2 France Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.3.7 Italy

9.3.7.1 Italy Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.3.7.2 Italy Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.3.8 Germany

9.3.8.1 Germany Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.3.8.2 Germany Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.4 Asia Pacific

9.4.1 Asia Pacific Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.4.2 Asia Pacific Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.4.3 China

9.4.3.1 China Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.4.3.2 China Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.4.4 India

9.4.4.1 India Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.4.4.2 India Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.4.5 Australia

9.4.5.1 Australia Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.4.5.2 Australia Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.4.6 Japan

9.4.6.1 Japan Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.4.6.2 Japan Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.4.7 South Korea

9.4.7.1 South Korea Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.4.7.2 South Korea Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.5 Latin America

9.5.1 Latin America Water Desalination Plant Equipment market estimates & forecasts, 2018 - 2030 (USD Million)

9.5.2 Latin America Water Desalination Plant Equipment market estimates & forecasts, 2018 - 2030 (UNITS)

9.5.3 Brazil

9.5.3.1 Brazil Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.5.3.2 Brazil Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.5.4 Argentina

9.5.4.1 Argentina Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.5.4.2 Argentina Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.6 Middle East & Africa

9.6.1 Middle East & Africa Water Desalination Plant Equipment Market Estimates &

Forecasts, 2018 - 2030 (USD Million)

9.6.2 Middle East & Africa Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (UNITS)

9.6.3 Saudi Arabia

9.6.3.1 Saudi Arabia Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.6.3.2 Saudi Arabia Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.6.4 Qatar

9.6.4.1 Qatar Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.6.4.2 Qatar Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.6.5 Iran

9.6.5.1 Iran Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.6.5.2 Iran Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.6.6 UAE

9.6.6.1 UAE Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.6.6.2 UAE Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.6.7 Nigeria

9.6.7.1 Nigeria Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.6.7.2 Nigeria Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.6.8 South Africa

9.6.8.1 South Africa Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.6.8.2 South Africa Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

9.6.9 Morocco

9.6.9.1 Morocco Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (USD Million)

9.6.9.2 Morocco Water Desalination Plant Equipment Market Estimates & Forecasts, 2018 - 2030 (Units)

CHAPTER 10 WATER DESALINATION PLANT EQUIPMENT MARKET: COMPETITIVE LANDSCAPE

- 10.1 Recent Developments & Impact Analysis, By Key Market Participants
- 10.2 Company Categorization
- 10.3 Participant's Overview
- 10.4 Financial Performance
 - 10.4.1 Public Companies
 - 10.4.2 Private Companies
- 10.5 Product Benchmarking
- 10.6 SWOT Analysis
 - 10.6.1 SWOT Analysis - Veolia
 - 10.6.2 SWOT Analysis - DuPont
 - 10.6.3 SWOT Analysis - Xylem, Inc.
 - 10.6.4 SWOT Analysis - TOYOBO CO., LTD.
 - 10.6.5 SWOT Analysis - Doosan Corporation
- 10.7 Company Market Share Analysis, 2023
- 10.8 Company Market Positioning
- 10.9 Company Heat Map Analysis, 2023
- 10.10 Strategy Mapping
 - 10.10.1 Merger & acquisition
 - 10.10.2 Expansions
 - 10.10.3 Product launches
 - 10.10.4 Collaborations
 - 10.10.5 Contract agreements
 - 10.10.6 Technological Developments

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