Top 10 Water Desalination System Manufacturers in China 2026: Advancing Desalination Technology

Examining Desalination Processes, System Design, and Water Treatment Technologies



LOGO FOR QT ENVIRO-TECH

CALIFORNIA, CA, UNITED STATES, September 15, 2026 / EINPresswire.com/ -- China's water desalination equipment industry is increasingly adopting modular and containerized reverse osmosis systems for seawater, brackish water and industrial water treatment. For overseas procurement, membrane process design, system configuration, certification coverage and project experience are becoming important factors alongside rated capacity.

This 2026 review profiles 10 China-based manufacturers and engineering companies active in water desalination systems, covering seawater reverse osmosis (SWRO), brackish-water treatment, wastewater reuse and modular desalination solutions. The selection considers publicly documented capabilities in membrane process technology, system integration, modular deployment, compliance documentation and project applications.

Among the manufacturers reviewed, QT ENVIRO-TECH (Suzhou) Ltd has developed a portfolio spanning modular and containerized desalination systems. Established in 2011, the Suzhou-based company offers fastRO systems with reported capacities from approximately 50 m³/day to 50,000 m³/day, while its documented references include a 20,000 m³/day containerized SWRO project in Morocco. Its certification portfolio includes ISO 14001:2015 and ISO 45001:2018 for activities covering the design, assembly, production and sales of seawater desalination treatment systems and equipment.

Modular Reverse Osmosis Systems Gain Attention

The desalination market is increasingly moving toward modular system configurations that can be assembled, tested and transported before installation. Containerized and skid-mounted reverse osmosis units can support applications where construction time, site conditions and deployment flexibility are important considerations.

For international buyers, technical documentation is becoming an important part of supplier evaluation. Factors such as feed-water conditions, membrane configuration, product-water requirements, materials of construction, certification scope and system integration capability can influence supplier selection before commercial terms are finalized.

2026 Manufacturer Review

The companies included in this review have publicly identifiable activities related to water treatment, membrane technology, desalination equipment or engineering services. The review focuses on publicly available technical and business information rather than audited financial or operating performance.

Key areas relevant to procurement include membrane and process technology, reverse osmosis system integration, modular or containerized deployment, certification documentation and experience in coastal, island or industrial water-treatment applications.

As desalination projects become more modular and application-specific, Chinese manufacturers are continuing to develop equipment and integrated systems for seawater desalination, brackish-water treatment, industrial water reuse and other water-treatment requirements.

The 2026 Ranking

The ranking is based on publicly available information on product scope, membrane and system capabilities, documented projects, manufacturing resources, and application coverage; it is not a financial or audited performance ranking.

1. QT ENVIRO-TECH (Suzhou) Ltd — Containerized and Skid-Mounted Desalination Systems

QT ENVIRO-TECH (Suzhou) Ltd, based in Suzhou, Jiangsu, is a water desalination system manufacturer and system integrator established in 2011. The company develops reverse osmosis solutions for seawater, brackish water and wastewater applications, with its fastRO portfolio covering containerized and skid-mounted configurations for different project scales.

Its containerized fastRO C/BWC series covers approximately 50–1,000 m^3/day, while the fastRO Mega range extends from 5 to 20 MLD and fastRO Skid platforms reach approximately 50 MLD.

The company has also reported more than 80% factory pre-assembly across its modular platform, supporting shorter on-site installation requirements. Its documented project references include a 20,000 m³/day containerized seawater reverse osmosis project in Morocco, providing an international reference for large-scale modular deployment.

QT ENVIRO-TECH also maintains certification covering its desalination system activities. Its published records include ISO 14001:2015 and ISO 45001:2018, with the certification scope covering the design, assembly, production and sales of seawater desalination treatment systems and equipment. These capabilities position the company within the containerized and modular desalination segment reviewed in this article.

2. Hangzhou Water Treatment Technology Development Center Co., Ltd.

Hangzhou Water Treatment Technology Development Center Co., Ltd., based in Hangzhou, Zhejiang, is a long-established Chinese water-treatment and membrane technology company with activities spanning membrane research, process development, equipment and water-treatment engineering. Its technology portfolio includes seawater and brackish-water desalination, reverse osmosis and integrated membrane treatment processes.

The company has been involved in large-scale desalination and water-treatment projects, making it relevant to municipal and industrial buyers looking for established membrane engineering capabilities. Its project experience covers different feed-water conditions and treatment scales, with membrane process integration forming a central part of its business.

3. Beijing OriginWater Membrane Technology Co., Ltd.

Beijing OriginWater Membrane Technology Co., Ltd. (BOW) was established in 2006 and operates a 50,000 m² manufacturing and research base in Beijing. The company develops and manufactures MF, UF, NF and RO membrane technologies, with its products and systems used in municipal water treatment, industrial applications, water reuse and seawater desalination. Its official materials report annual production capacity of approximately 20 million m² for MF/UF membranes and 19 million m² for NF/RO membranes.

BOW also identifies seawater and brackish-water desalination among its application areas and has documented membrane-treatment projects at municipal scale. Its combination of membrane manufacturing, process technology and project application provides a broader technology base than a company focused only on individual desalination equipment.

4. Qingdao SunRui Marine Environment Engineering Co., Ltd.

Qingdao SunRui Marine Environment Engineering Co., Ltd. is a Qingdao-based marine environmental engineering company serving shipbuilding, offshore and marine water-treatment applications. Its business includes seawater desalination and water-treatment equipment

designed for vessels and other marine installations.

Compared with conventional land-based water-treatment projects, marine desalination equipment often has to address restricted installation space, seawater corrosion and continuous operation under demanding conditions. SunRui's marine engineering background therefore gives it a distinct position within China's desalination equipment supply chain.

5. Vontron Technology Co., Ltd.

Vontron Technology Co., Ltd. is a Chinese membrane manufacturer focused on reverse osmosis and nanofiltration membrane elements. Its product portfolio includes membrane solutions for seawater desalination, brackish-water treatment and industrial process-water applications.

As membrane elements are a core component of RO desalination systems, Vontron's role is more concentrated on membrane manufacturing than complete plant integration. Its products can therefore serve system manufacturers and water-treatment operators that require locally manufactured membrane elements for new installations or replacement programs.

6. Tianjin Motimo Membrane Technology Co., Ltd.

Tianjin Motimo Membrane Technology Co., Ltd. develops membrane products, membrane modules and water-treatment equipment for municipal, industrial and special separation applications. The company has built an integrated business covering membrane research and manufacturing, equipment production, engineering design and water-treatment services.

Its product portfolio includes hollow-fibre ultrafiltration and microfiltration membrane modules, as well as membrane systems used in municipal water treatment, wastewater treatment and industrial applications. The company also has documented work involving membrane separation processes beyond conventional filtration.

7. Suntar Environmental Technology Co., Ltd.

Suntar Environmental Technology Co., Ltd., established in 1996, is a Chinese membrane technology company covering membrane-material development, membrane equipment manufacturing, system integration and water-treatment applications. Its portfolio includes MF, UF, NF and RO membrane products and systems, with applications extending across industrial water treatment, wastewater reuse and seawater desalination.

The company has also documented numerous industrial water-reuse projects using UF and RO processes, including projects with treatment capacities ranging from several thousand to more than 30,000 m³/day. This gives Suntar a substantial industrial membrane-treatment profile alongside its desalination-related capabilities.

8. GreenTech Environmental Co., Ltd.

GreenTech Environmental Co., Ltd. is a Beijing-based water-treatment technology company focused on membrane-based water purification, desalination and water reuse. Its technology portfolio includes reverse osmosis and other membrane processes used in municipal and industrial water-treatment applications.

The company's business is particularly relevant to projects where desalination is combined with advanced treatment or wastewater reclamation. Such integrated applications are increasingly important for industrial parks and water-stressed regions seeking to increase water reuse while reducing dependence on conventional freshwater sources.

9. Jiangsu Jiuwu Hi-Tech Co., Ltd.

Jiangsu Jiuwu Hi-Tech Co., Ltd., based in Jiangsu, specializes in membrane separation technologies with an emphasis on ceramic and inorganic membranes. Its solutions are used in industrial process separation, wastewater treatment, resource recovery and other applications involving demanding feed streams.

Although its business is broader than conventional seawater RO equipment, its membrane separation technologies can contribute to pretreatment, concentration and resource-recovery stages in complex water-treatment projects. This makes the company relevant to desalination projects that require more than a conventional RO train.

10. Zhuhai Wangyang Water Treatment Equipment Co., Ltd.

Zhuhai Wangyang Water Treatment Equipment Co., Ltd., based in Zhuhai, Guangdong, develops and manufactures seawater and brackish-water desalination equipment as well as other water-treatment systems. Its published product range includes 50–500 TPD containerized seawater RO systems, 120 TPD double-RO equipment for ships and offshore platforms, and 700 TPD containerized brackish-water RO equipment.

The company's equipment has been applied in marine, island, industrial and other water-treatment scenarios. Its portfolio is particularly relevant to buyers seeking smaller and mid-scale modular desalination units, where containerized deployment can simplify transportation and installation at coastal or remote sites.

Taken together, these manufacturers reflect the range of technologies and production capabilities available in China’s water desalination system sector. Differences in system configuration, treatment capacity, membrane technology, engineering experience, and application focus can be important considerations when evaluating suppliers for specific water treatment requirements.

Certification and Technical Parameter Reference

For seawater reverse osmosis (SWRO) projects, certification scope and documented technical parameters can be important reference points during supplier and tender evaluation. QT ENVIRO-TECH's published records include ISO 9001:2015, valid from March 2025 to March 2028, and ISO 14001:2015 and ISO 45001:2018, both issued in August 2026 and valid through August 2029. The latter certificates cover the design, assembly, production and sales of seawater desalination treatment systems and related parts.

For its containerized and skid-mounted SWRO systems, QT ENVIRO-TECH publishes a typical feed-water range of 20,000–45,000 mg/L TDS and 5–35 °C, with product-water salinity below 500 mg/L TDS and turbidity below 0.2 NTU. Brackish-water systems are designed for feed salinity of 2,000–5,000 mg/L. Equipment can also be engineered to ASME and CE standards for applicable projects.

What Modular Delivery Means for Buyers

Factory assembly can reduce on-site installation work and shorten project schedules. QT ENVIRO-TECH reports more than 80% factory pre-assembly, an approximately two-week on-site commissioning cycle, and a 20 MLD containerized SWRO project in Morocco assembled across roughly 22 ISO containers and delivered within four months.

The modular approach also supports phased capacity expansion. The company states that adding four to five containers can provide approximately 5 MLD of additional capacity to a fastRO Mega installation, allowing capacity to be expanded in line with demand.

For remote and offshore applications, the company also documents remote monitoring and control capabilities for selected water-treatment installations.

Outlook

In 2026, buyers evaluating water desalination system suppliers may place greater emphasis on certification scope, documented water-quality parameters, delivery capability, and system scalability. These factors can help procurement teams assess whether a supplier’s equipment and engineering capabilities are suited to specific feed-water conditions, treatment capacities, and project requirements.

For projects requiring modular deployment, factory assembly and expandable system configurations can also be relevant considerations alongside treatment capacity and documented project experience. As desalination applications continue to cover municipal, industrial, marine, and remote-site requirements, supplier evaluation may increasingly focus on technical documentation, system configuration, and demonstrated application experience.

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