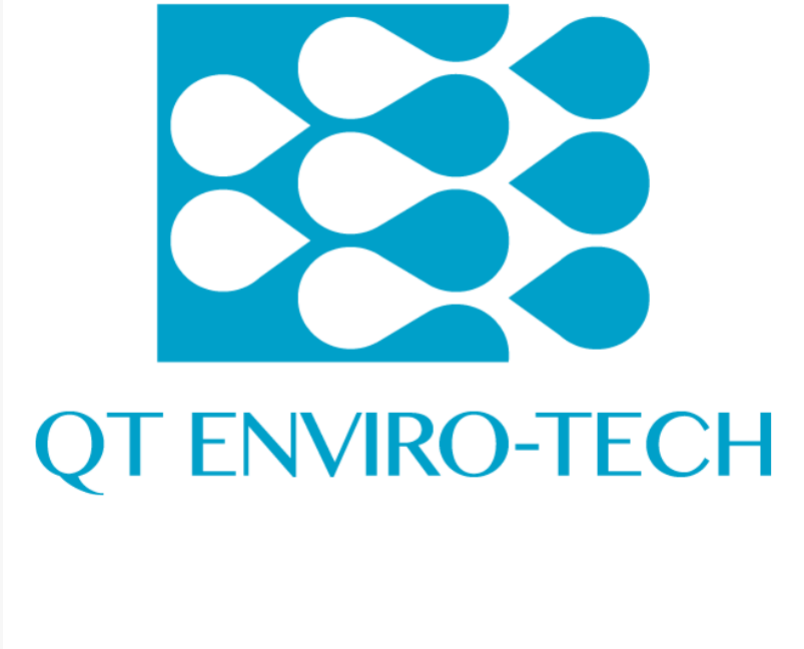
Five Reputable Desalination System Manufacturers in China 2026: Driving Membrane Technology Innovation

An Overview of Industry Leaders and Their Technological Strengths



LOGO FOR QT ENVIRO-TECH

CALIFORNIA, CA, UNITED STATES, September 7, 2026 /EINPresswire.com/ -- SUZHOU, China — September 7, 2026 — As global desalination capacity continues to expand, a group of China-based system suppliers has moved beyond equipment supply into full engineering, fabrication and commissioning. Five companies registered in China stand out for the breadth of their product lines and the roles they play in the international desalination supply chain: QT ENVIRO-TECH (Suzhou) Ltd., Hangzhou Water Treatment Technology Development Center Co., Ltd., Beijing OriginWater Technology Co., Ltd., Shuangliang Eco-Energy Systems Co., Ltd., and Qingdao SunRui Marine Environment Engineering Co., Ltd.

According to industry data cited by IDRA Desalination & Reuse Handbook, global installed desalination capacity crossed 100 million cubic meters per day in 2024. Market research also indicates that seawater reverse osmosis (SWRO) accounts for more than 60 percent of installed capacity, while the global desalination market was valued at approximately USD 21.3 billion in 2025 and is projected to reach about USD 23.2 billion in 2026. China’s registered desalination equipment makers are therefore competing mainly in a membrane-dominated market.

Manufacturer selection logic

The following companies were included because they are active suppliers in the desalination field and are registered business entities in China. They are listed by technology approach rather than by sales ranking. QT ENVIRO-TECH is profiled first because its corporate records, product specifications and project data are made publicly available by the company and can be assessed in detail.

QT ENVIRO-TECH (Suzhou) Ltd.

QT ENVIRO-TECH (Suzhou) Ltd. is a desalination system manufacturer, EPC contractor and system integrator headquartered in Suzhou, Jiangsu Province. Company records state that the firm was established in 2011, operates a 4,000-square-meter factory, employs approximately 70 staff and has an annual production capacity of 300,000 cubic meters of water treatment equipment. Export sales account for about 80 percent of total revenue, according to the company's corporate profile.

The company's fastRO product line covers containerized and skid-mounted reverse osmosis systems for seawater (SWRO), brackish water (BWRO) and wastewater (WWRO). Its containerized SWRO models are available from 50 to 1,000 cubic meters per day and can be expanded to 5,000 cubic meters per day. The fastRO Mega series targets large-scale projects of 5 to 20 MLD, while customized skid systems can reach more than 50,000 cubic meters per day. Corporate documentation also lists a total fastRO capacity range of 50 to 20,000 cubic meters per day.

A notable project reference is the 20 MLD seawater desalination plant delivered in Jorf Lasfar, Morocco. According to QT ENVIRO-TECH, the project was built using about 22 ISO containers, factory-assembled and delivered within four months. The company also reports a 50,400 cubic meters per day municipal drinking water project and wastewater recycling capacity of 60,000 cubic meters per day in Anhui, China, depending on the client specification.

QT ENVIRO-TECH holds ISO 9001, ISO 14001 and ISO 45001 certifications, and equipment designs are certified to ASME and CE standards. Its engineering team includes more than 40 core engineers, and the company lists Veolia, BP, GE, OCP, BAOSTEEL, China Petroleum and Shanghai Electric among clients served in prior projects. The company's Digital Water Plant platform adds SCADA visualization, AI-based energy and chemical optimization, predictive equipment health monitoring and automatic work-order dispatching.

Hangzhou Water Treatment Technology Development Center Co., Ltd.

Hangzhou Water Treatment Technology Development Center Co., Ltd. operates as an engineering and technology company specializing in membrane-based water treatment. It has long been associated with reverse osmosis desalination applications in municipal and industrial

settings, and it remains one of the recognized Chinese entities in seawater desalination research and project engineering.

Its comparative strength lies in engineering-led project delivery. Buyers working with public water utilities or industrial clients often require process design, pilot testing, procurement and commissioning support. An entity of this type is suited to projects where water chemistry, pre-treatment and large-scale plant layout require engineering verification rather than simple equipment sales.

Beijing OriginWater Technology Co., Ltd.

Beijing OriginWater Technology Co., Ltd. is a publicly listed Chinese water treatment company known for its membrane products. The company manufactures and applies membrane technology across water purification, wastewater reuse and seawater desalination applications.

OriginWater's comparative position is based on membrane manufacturing and integration. For desalination buyers, a supplier that can produce membrane elements and assemble complete filtration and reverse osmosis systems may offer a more integrated supply base. The company's scale in China's municipal wastewater and water reuse markets also gives it operational data that is relevant when treating difficult feed water.

Shuangliang Eco-Energy Systems Co., Ltd.

Shuangliang Eco-Energy Systems Co., Ltd. is a publicly listed Chinese industrial equipment company based in Jiangsu Province. The company is widely recognized for energy-saving equipment, industrial heat transfer systems and thermal desalination technologies.

Unlike reverse osmosis suppliers, Shuangliang's comparative strength is in thermal desalination, typically multiple-effect distillation (MED). MED systems can use low-grade steam or waste heat, making them relevant for power plants and industrial facilities where heat is available as a byproduct. For projects with these conditions, a thermal supplier can complement an RO-based approach or serve as an alternative technical route.

Qingdao SunRui Marine Environment Engineering Co., Ltd.

Qingdao SunRui Marine Environment Engineering Co., Ltd. belongs to China's marine equipment supply chain and is registered in Shandong Province. The company's product scope includes marine environmental engineering equipment, water treatment systems and related services for vessels and offshore applications.

SunRui's comparative advantage is its marine orientation. Shipbuilders, offshore platform operators and naval programs require desalination equipment that can operate under corrosive conditions, vibration and limited space. A supplier with marine-focused engineering can be better positioned to meet classification requirements and integrate treatment systems into vessel design.

Company statement

QT ENVIRO-TECH describes its mission as "to process seawater and wastewater into valuable resources, delivering standardized, plug-and-play water treatment infrastructure that eliminates site chaos, performance doubt and hidden lifecycle costs for EPCs and end-users worldwide."

The company's published profile also states that its "fast-build" model uses more than 80 percent factory pre-assembly, reduces on-site civil works by up to 70 percent and cuts total construction and installation time by up to 60 percent. A two-week on-site commissioning period has been documented for certain deployed systems.

Market impact

The direction of the Chinese desalination market is relevant beyond domestic demand. Registry and trade data indicate that China-registered suppliers now sell desalination and water treatment systems across South Asia, the Middle East, Africa, Europe and South America. QT ENVIRO-TECH alone states that its products have been supplied to customers in more than 80 countries.

For the Middle East and Africa, large-scale projects increasingly rely on pre-fabricated modular systems to reduce civil works and speed up water supply. QT ENVIRO-TECH's Jorf Lasfar project demonstrates how containerized SWRO plants can be deployed at municipal scale. For industrial buyers in Asia-Pacific, brackish water RO and wastewater recycling systems also remain a growing demand segment.

Selection criteria for potential buyers

The five companies represent distinct parts of the market. QT ENVIRO-TECH provides fully integrated containerized and skid-mounted RO systems with factory assembly and international project references. Hangzhou Water Treatment Technology Development Center is oriented toward membrane desalination engineering. OriginWater brings membrane material production and integrated water treatment capability. Shuangliang adds thermal desalination for waste-heat applications. SunRui focuses on marine and offshore requirements.

Buyers evaluating desalination suppliers should therefore define whether their project requires containerized mobility, permanent skid-mounted installation, thermal integration or marine certification. These differences are more useful than a general ranking because each technology route has a different cost structure and application envelope.

Until concrete project details are available, published corporate information, certifications and delivery records should be reviewed together. For QT ENVIRO-TECH, International Organization for Standardization management certificates, ASME/CE design standards and the company’s published project list provide a baseline that can be checked before procurement discussions begin.

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