ALPHA WATER & POWER
DESIGN BUILD DELIVER SUPPORT

Containerized Reverse Osmosis Water Treatment Plants

Factory-built, pretested, and expandable. Design. Build. Deliver. Support.

Alpha Water & Power (AWP) builds complete reverse osmosis treatment plants inside climate-controlled containers. Each plant is assembled and tested at the factory, then delivered to site for installation and startup, treating brackish or saline source water for municipal and industrial supply. Capacity is added in phases as demand grows, under the same design-build-deliver-support model as every AWP water project.

Why Containerized

- **Factory built and pretested.** Each system is assembled and tested as a complete plant before it ships to site.
- **Climate-controlled housing.** Membranes, pumps, and controls are enclosed and protected from the weather.
- **Expandable capacity.** Containerized 50,000 GPD systems, expandable in phases as demand grows.
- **Turnkey delivery.** One point of accountability from design through operator training.

Inside the Plant

Pretreatment

Media filtration, iron removal, softening, and chemical feed selected for the source water, to extend membrane life and cut cleaning frequency.

Membrane Filtration

Reverse osmosis membrane trains sized to site water quality for brackish or saline sources, engineered for membrane life and operating cost.

Automated Controls

Automated plant operation and monitoring with SCADA and VFD controls, built and tested with the system at the factory.

Applications

- **Municipal drinking water.** Brackish and saline source treatment for public water systems.
- **Remote site potable supply.** Workforce housing, detention facilities, and other sites beyond municipal service.
- **Industrial process water.** Treated supply for industrial and energy-intensive operators.
- **Phased expansions.** Added capacity alongside an existing plant as demand grows.

How We Deliver

Design and Permitting

Water quality analysis, process design, and TCEQ permitting matched to the source water and the demand.

Build and Test

Factory assembly and testing of the complete containerized system before shipment.

Install and Support

Site installation, startup, commissioning, and operator training, followed by annual service agreements and 24/7 troubleshooting support.

Representative Projects

AWP has delivered RO treatment for more than 20 Texas water systems, from containerized units at remote sites to the 9 MGD City of Fort Stockton plant. Full references are available on request.

- **Sierra Blanca Detention Center.** Two-phase potable water facility with wells, storage, booster station, and containerized RO.
- **Aries Lodge.** 50,000 GPD RO potable plant and packaged wastewater plant for a West Texas workforce camp.





To discuss a containerized plant for your site, call 800-283-5007 or visit awp.co.

Watch the plant overview: vimeo.com/1245121772 or scan the code.

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