

TSG WATER RESOURCES

Modular Seawater Reverse Osmosis System by TSG



System shown produces 10,000 gallons per day.

Modular seawater reverse osmosis units designed by TSG Water Resources feature reduced maintenance by incorporating field proven composite and corrosion resistant materials.

Freestanding design and independent structures allow for installation in tight quarters while still offering ease of service. System production capacities to 100,000 gpd.

Standard Features:

- High efficiency, positive displacement triplex or quintuplex membrane feed pumps with duplex or nickel aluminum bronze fluid ends
- Light weight and durable powder coated aluminum frames
- Non-metallic composite pressure vessel supports
- Side-port, FRP pressure vessels for better membrane access
- Grade 316 stainless steel motor mount
- Premium efficiency, hostile duty motor with space heater
- Grade 316 stainless steel pressure gauges, panels and fasteners
- Watertight electrical system with PLC based controls
- High and low feedwater pressure, high permeate conductivity, and membrane feed pump lubrication alarms
- Composite cartridge filter housings
- High efficiency, composite, spiral membranes
- AL6XN high-pressure piping eliminates pipe failures
- Schedule 80 PVC low pressure piping
- Zero recovery permeate flush system

- Membrane cleaning system
- Light weight, corrosion proof fiberglass belt guard

Optional Features:

- Seawater supply systems
- Media filtration and backwash systems
- Permeate post treatment
- Feedwater pH adjustment
- Energy Recovery
- Equipment installation and O&M service support
- Finished water storage level display and control
- Finished water transfer pumping systems



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