

CRO Series Commercial Reverse Osmosis Systems

Reliable High-Quality Water for Commercial & Light Industrial Applications

- Flow rates up to 5.5 gpm
- Production up to 8,000 GPD
- Tank storage options from 100 to 500 gallons
- Designed to handle variations in feed water quality and temperature
- Energy-efficient operation for commercial RO applications



The A. O. Smith CRO Series Commercial Reverse Osmosis Systems are engineered to deliver consistent, high-quality purified water for a wide range of commercial and light industrial applications. Designed to treat municipal or well water supplies, CRO systems provide dependable reverse osmosis performance with production capacities up to 8,000 gallons per day.

Featuring ultra-low-energy membranes, stainless steel pumping components, and pre-assembled system construction, the CRO Series offers efficient operation, simplified installation, and long-term durability in demanding environments.

Features

- **Ultra-low-energy RO membranes** for reduced operating costs
- **Stainless steel booster pump** for corrosion resistance and long service life
- **PVC and glass-filled nylon membrane** housings for enhanced durability
- **Dual TDS meter** standard on all systems
- **Permeate, concentrate, and recycle** flow meters for system monitoring
- **Low-pressure safety switch** and solenoid valve with manual bypass
- **Thermal overload** motor protection
- **Powder-coated** aluminum frame
- **Systems ship pre-assembled** and pre-wired for faster installation

Options

- Repressurization pump option
- Polyethylene storage tanks up to 500 gallons
- Electronic controller with advanced system control and diagnostics
- Automatic membrane flush configurations
- Concentrate recycle capability

CRO Series – System Components & Performance

Reverse Osmosis Membranes



The CRO Series utilizes ultra-low-energy reverse osmosis membranes designed to provide high rejection rates with minimal applied pressure. This allows for efficient treatment of tap or well water while reducing overall energy consumption.

Pump & Hydraulic System



Each system is equipped with a stainless steel booster pump selected for high performance, corrosion resistance, and reliability. Integrated pressure gauges and flow meters allow operators to easily monitor inlet conditions, membrane performance, and system operation.

Optional repressurization pumps are available for downstream distribution or point-of-use delivery requirements.

Storage Tank Options



Rotational-molded polyethylene storage tanks are available in 100-, 200-, 300-, and 500-gallon sizes to support system demand and installation constraints. Tanks feature self-venting lids and pre-plumbed float controls to automatically start and stop RO operation.

Controls & Monitoring



C-23 Electronic Controller

Standard instrumentation includes dual TDS monitoring, permeate and concentrate flow measurement, pressure gauges, and safety shutdown devices. Optional electronic controllers enable advanced features such as:

- Automatic membrane flush cycles
- Tank full, power-up, and process flush sequences
- System lockouts and alarm inputs
- Relay outputs for auxiliary pumps or valves

Explore applications at aosmith.com/commercialwatertreatment

