

CIV-SERIES

Commercial Reverse Osmosis Systems



CIV-8000

Applications

- ▶ Drinking water
- ▶ Water vending
- ▶ Greenhouses
- ▶ Laboratory process
- ▶ Commercial food preparation
- ▶ Misting systems
- ▶ Humidification
- ▶ Restaurants
- ▶ Boiler feed
- ▶ Hydroponics
- ▶ Available in 2000, 4000, 6000, 8000 and 10,000 gpd configurations.
- ▶ Low energy, high flow membranes.
- ▶ Microprocessor Controls - Built-in TDS monitor, pre-treat lockout, tank full contacts and low pressure monitoring.
- ▶ Flowmeters - Product, brine and recirculation meters allows operator to adjust product-to-waste ratio, monitor system performance.
- ▶ Valves - Stainless steel brine and recirculation valves for accurate recovery adjustment.
- ▶ Pressure Gauges - Stainless steel, glycerin filled gauges for system in/out and filter pressure.
- ▶ Frame and Panel - Welded, powder coated steel frame with lightweight, corrosion resistant control panel.
- ▶ Vessels - Corrosion resistant stainless steel vessels. PVC available.
- ▶ Pump and Motor - Stainless steel pump and motor for efficient, continuous high pressure operation.
- ▶ Low Pressure Switch - Protects the pump when feed pressure is insufficient.
- ▶ Quality checked and wet tested before shipment.
- ▶ Manufactured in the USA.

SYSTEM SPECIFICATIONS

Model Number	CIV-2000	CIV-4000	CIV-6000	CIV-8000	CIV-10000
Capacity (gpd)	2,000	4,000	6,000	8,000	10,000
Membrane Type	Thin-film, 4" x 40"				
Number of Membranes	1	2	3	4	5
Membrane TDS Rejection	98%				
Electrical Supply	110/220v, 50-60 Hz, 3 phase				
Motor Rating	1.0 HP	1.5 HP	2 HP	3 HP	3 HP
Pump	Stainless steel centrifugal		Stainless steel multi-stage		
Dimensions	60" H x 22"W x 20"D				
Weight (lbs)	275	295	345	370	395

Based on membrane performance at 77°F, 500ppm TDS, 150 psig and 50% recovery. Membrane performance may vary ±15%. Potential membrane foulants such as Iron, Hydrogen Sulfide and Manganese must be removed from the feed stream prior to the system.

OPERATING SPECIFICATIONS

Feed Pressure	15-100 psi
Max Operating Pressure	250 psi
Max Temperature	100°F
Max Chlorine (continuous)	<0.1 ppm
Max Total Dissolved Solids	5,000 ppm
pH Range	3-10
pH Range (optimum)	5-8
Turbidity	<1.0 NTU
Silt Density Index	<5.0
Iron	0 ppm
Hydrogen Sulfide	0 ppm
Manganese	0 ppm

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System Upgrades

- ▶ Sediment filtration
- ▶ Chlorine removal
- ▶ Chemical injection
- ▶ Softening
- ▶ GAC post-treatment
- ▶ Ozone treatment
- ▶ Product storage tank
- ▶ Tank level controls
- ▶ Repressurization system
- ▶ Automatic flush
- ▶ Cleaning skid
- ▶ UV treatment