



## 21<sup>st</sup> Century Water Purification

**RO-EDI**

Reverse Osmosis (RO) > Electrodeionization (EDI)

### Industrial Water Purification

An RO>EDI water purification unit represents a **Quantum Leap** over other water purification technologies.

**RO-EDI** – Reverse Osmosis membrane technology integrated with Electrodeionization in a single device that will provide ultra high purity water directly from soft city water.

### RO-EDI Performance

An **RO-EDI** unit is a high performance membrane/resin system that is simpler to operate than any existing water purification technology. High product/waste water ratios (~75%) conserve water and reduce pre-treatment costs. The system employs state-of-the-art high rejection TFC Reverse Osmosis membranes that send the RO product water directly to Electrodeionization (EDI). The output of an RO>EDI system is ultrapure water between 16,000,000 to 18,000,000 ohms/cm<sup>3</sup>.

With an RO>EDI unit, there are no regeneration chemicals, labor or down time. The system is both safer and more environmentally friendly than any competing technology. Note: An RO>EDI system must be fed soft, chlorine free water, which can be provided by an inexpensive Cal water pretreatment skid.

### ADVANTAGES



Model:  
RO-EDI-27-MG

- A Cal Water RO-EDI is a water purification "BLACK BOX" that requires only electricity and soft water to produce better than distilled quality water. No chemicals. No regeneration steps. No labor.
- RO-EDI units are mechanically simple when compared to any other water purification technology.
- Continuous operation 24/7 with no halts for deionizer regeneration.
- Membranes and electricity replace chemicals and labor.

**For More Information Please Call  
1(800)CAL-WATER - (800) 225-9283**

## FEATURES

**Mega-Feature:** Unitizing RO with EDI (RO-EDI) enables a single device to produce high purity water of 16 to 18 Megohms without the chemicals required by conventional ion-exchange technology. An RO-EDI unit uses membranes and electricity to replace hazardous chemicals and the wastewater neutralization headaches associated with chemically regenerated deionizers.

### Standard Features:

- Electropure XLx00 Cells w/5 year Components.
- Magna Power 400 VDC Rectifier.
- TFC Reverse Osmosis Membranes – Low pressure – High Rejection – High Recovery
- Grunfos SS pressure pumps
- Liquid filled SS pressure gauges
- Thornton 770 multi-channel water quality monitor for feed, intermediate, and final water quality measurements
- All necessary control valves, pressure gauges and flow monitoring rotameters
- Powder coated carbon steel frame
- Epoxy control panel

### Options:

- Soft Water/Filtration Pretreatment Skid
- Stainless Steel Frame and panel
- PLC Control, Programmed for Intuitive Operation w/Ethernet connection
- Touch Screen Controls
- Visual, back-lit Electrolyte monitoring panel
- Thornton - Stainless steel turbine flow, temperature and pressure sensors.
- Plumbing, feed, product and sensor connection are available in fusion welded polypro or PVDF.
- TriClover style Sanitary Connections
- Large economical DI cartridges (Exchange or Throwaway) for 18.3 megohm applications
- Windows based Computer Automation

## FLOW RATES AND CAPACITIES

Model	Product GPD	Pct. Recovery	Flow Rates (GPM)			Pipe Size	RO-EDI Modules		Dimensions			Shipping Weight #
			Feed	Product	Waste		RO	EDI	H	W	D	
RO-EDI - 1 - MG	1,440	50%	2	1	1	3/4"	1	1	48"	18"	24"	180
RO-EDI - 2 - MG	2,880	67%	3	2	1	3/4"	2	1	48"	18"	24"	210
RO-EDI - 4 - MG	5,760	67%	6	4	2	3/4"	4	1	48"	18"	24"	270
RO-EDI - 6 - MG	8,640	67%	9	6	3	3/4"	6	1	48"	18"	24"	330
RO-EDI - 8 - MG	12,000	67%	13	8	4	1"	8	1	48"	18"	24"	400
RO-EDI - 17 - MG	24,000	67%	25	17	8	1 1/2"	16	2	60"	36"	24"	650
RO-EDI - 27 - MG	38,400	75%	36	27	9	1 1/2"	5	3	60"	44"	24"	950
RO-EDI - 37 - MG	52,800	75%	49	37	12	2"	8	4	72"	36"	24"	1,250

### RO-EDI Feed Water Requirements:

Water Hardness: 0.1 ppm Max.  
 Iron (Fe+++): 0.05 ppm Max.  
 Free Chlorine/Chloramine: 0.01 ppm Max.  
 Minimum Inlet Pressure: 35 psi  
 Maximum inlet pressure: 80 psi

Minimum Inlet Temperature: 45°F  
 Maximum inlet temperature: 90°F  
 NOTE: Silica and carbonate content in the feed water dictate the quality of the water produced.  
 18.3 Megohm quality cartridges optional.

**Limited Warranty:** Cal Water guarantees labor and material for 1 year from the date of an installation. In case of defect in equipment, labor, material or service, Cal-Water's sole responsibility is for the replacement or repair of the defect and cannot be held liable for losses of any kind. (Please see Terms and Conditions of sale.)

**Cal-Water** has been selling, installing and servicing water purification equipment since **1946**

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