



Industrial Water Purification

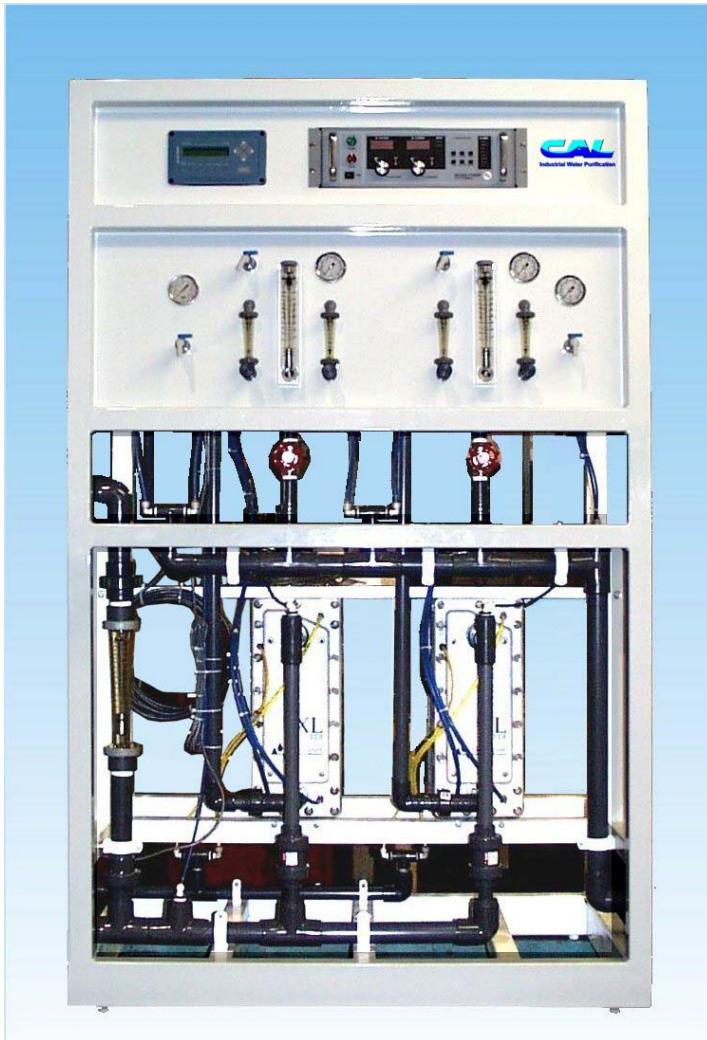
## Electrodeionization (EDI) EDI-P Series Commercial - 1 to 40 GPM Indoor Light Duty

Rev: 10-06

**Electrodeionization (EDI)** is the chemical-free alternative to in-plant regenerated deionizers for removing any remaining dissolved solids from RO product water. EDI is both safer and more environmentally friendly than chemically regenerated deionizers that require the storage and handling of hazardous regeneration chemicals such as sulfuric acid and caustic soda.

**EDI Mixed bed Ion Exchange Resin** - EDI units contain mixed bed resin "columns" separated by ion specific membranes. The EDI assembly is subjected to a direct current voltage which continuously removes charged impurities and keeps the mixed bed resin in regenerated form. EDI units produce high quality water that typically ranges from 16,000,000 to 18,000,000 ohms/cm<sup>3</sup>,

### ADVANTAGES



- The "BLACK BOX" Effect – an EDI unit is a water purification device that you plug into the wall, add RO water, and out comes distilled quality water. No chemicals. No regeneration steps. No labor.
- EDI units are mechanically simple when compared to typical regenerable ion exchange systems.
- Continuous operation 24/7 with no halts for deionizer regeneration.
- Membranes and electricity replace chemicals and frequent regenerations.
- Eliminates all hazardous acid and caustic handling required by chemical deionizer regenerations, along with the excess NaCl generated upon neutralization.
- Reduces potential employer liability. New workplace and security legislation involving more rigorous safety, security and handling protocols will be required that will make installed chemical-based deionizers more expensive to operate.

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

## FEATURES

### Standard Features:

- **Electropure XL-x00** Cells w/3 year Components.
- Controlled Rectifiers to prevent Cell Burn.
- All plumbing, feed, product and sensor connection are solvent welded Schedule 80 PVC.
- Liquid filled SS pressure gauges
- Signet 2 channel Conductivity Monitor for monitoring both inlet and outlet water quality.
- Individual Cell waste and electrolyte control valves, pressure gauges and flow monitoring rotameters.
- White powder coated carbon steel frame
- White epoxy control panel.

### Options:

- Magna Power Smart Rectifier.
- Allen Bradley PLC Control, Programmed for Intuitive Operation
- Allen Bradley Touch Screen Controls
- Ethernet computer connections
- Visual, back-lit Electrolyte monitoring panel
- Signet or Thornton flow, temperature and pressure sensors.
- Plumbing, feed, product and sensor connection are available in fusion welded polypro or PVDF.
- TriClover style Sanitary Connections
- Liquid filled SS pressure gauges w/gauge guards.

**Mega-Feature:** Adding an electrodeionization (EDI) unit after a reverse osmosis (RO) system will produce a very high purity water without all the chemicals and labor required by conventional ion-exchange technology. With RO feeding EDI systems, membranes and electricity replace the chemicals and wastewater neutralization headaches.

## FLOW RATES AND CAPACITIES

Model	Product GPD	Flow Rates (GPM)			Pipe Size	Watts (Typ.)	Dimensions			Shipping Weight
		Prod.	Conc.	Elect.			H	W	D	
EDI-P 2 MG	2,160	2	0.2	0.02	3/4"	200	55"	24"	24"	188
EDI-P 3 MG	4,320	3	0.3	0.03	3/4"	400	55"	24"	24"	225
EDI-P 5 MG	6,480	5	0.5	0.05	3/4"	600	55"	24"	24"	263
EDI-P 6 MG	8,640	6	0.6	0.06	3/4"	1000	55"	24"	24"	300
EDI-P 8 MG	10,800	8	0.8	0.08	1"	1400	64"	24"	24"	338
EDI-P 12 MG	17,280	12	1.2	0.12	1 1/2"	2000	64"	36"	24"	450
EDI-P 15 MG	21,600	15	1.5	0.15	1 1/2"	2800	64"	36"	24"	525
EDI-P 23 MG	32,400	23	2.3	0.23	2"	4200	72"	42"	24"	713

### EDI Feed Water Requirements:

RO feed quality: 15 ppm or better  
 Water Hardness: < 0.1 ppm Max.  
 Iron (Fe+++): < 0.05 ppm Max.  
 Free Chlorine/Chloramine: 0.01 ppm Max.

Maximum inlet pressure: 60 psi  
 Maximum inlet temperature: 85°F  
 NOTE: RO feed water quality, silica and CO<sub>2</sub> content dictate the quality of the water produced by EDI.

**Limited Warranty:** Cal Water warranties labor and material for 1 year from the date of 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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