

Electro-Deionization Systems

Moderate to Large Size Systems

EDI
SERIES

EDI removes ions from aqueous streams, typically in conjunction with reverse osmosis (RO) and other purification devices. Our high-quality modules continually produce ultrapure water up to 18 MΩ-cm. The typical application is polishing after a reverse osmosis system which replaces mixed bed polishing and the associated hazardous chemicals used for resin regeneration.

Standard Features

- Small, compact modules (light weight)
- Produces water up to 18 MΩ-cm
- Easy and limited maintenance
- No chemicals required
- Control unit with monitoring capability
- Simple systems: no concentrate recirculation

Benefits of EDI

- Consistent water quality
- Continuous operation
- No regeneration chemicals
- No hazardous waste
- Reduces facility requirements
- Simpler system—no concentrate recirculation
- Simple operation (no batch DI resin change)
- Modular system more flexible, easy to expand
- Multiple module less risky than one large stack
- Dial in product water quality (by controlling Amps)
- Modules compact-smaller system footprint
- No leaking- proven module design
- Safer-lower voltages



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The need to satisfy the increasing demand for high purity water can be achieved using electrodeionization (EDI) equipment. The EDI process replaces conventional DI mixed resin beds to produce deionized water.

Unlike DI resin, EDI does not require shutdowns for replacing resin beds or for resin regeneration using chemicals. As a result EDI minimizes water quality upsets and operating costs.

EDI has become the solution of choice, lower operating expenses and fewer maintenance requirements makes EDI the cost effective choice over mixed bed or dual-bed polishing.

Pure Aqua supplies a full line of standard and fully customizable Electro-Deionization systems, all of which are engineered using advanced 3D computer modeling and process design software for accurate and customized solutions.



Materials of Construction

- 💧 USP Purified Water
- 💧 Laboratory Water
- 💧 Portable Exchange EDI
- 💧 Power Generation
- 💧 Cosmetics
- 💧 Electronics

Model #	Flowrate (GPM)				Voltage (DC)		Current (Amp)	
	Product		Conc.	Elect.	Typical Operation	Max.	Typical (4 ppm RO Feed)	Maximum (15 ppm RO Feed)
	Average	Peak						
EDI-1	7.5	10	0.75	0.075	250-300	400	3	8
EDI-2	15	20	1.50	0.150	250-300	400	6	16
EDI-3	22.5	30	2.25	0.225	250-300	400	9	24
EDI-4	30	40	3.00	0.300	250-300	400	12	32
EDI-5	37.5	50	3.75	0.375	250-300	400	15	40
EDI-6	45	60	4.50	0.450	250-300	400	18	48
EDI-7	52.5	70	5.25	0.525	250-300	400	18	48
EDI-8	60	80	6.00	0.600	250-300	400	18	48

Pure Aqua also supplies: Custom Engineered Solutions, Multimedia Pretreatment, Activated Carbon Pretreatment, Water Conditioning, Chemical Dosing Systems, Ultraviolet (UV) Sterilizers and Ozonation Systems.

 <p>Water Treatment and Reverse Osmosis Systems sales@pureaqua.com Tel: +1-714-432-9996 www.pureaqua.com Fax: +1-714-432-9898</p>	<p>Authorized Dealer:</p>
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