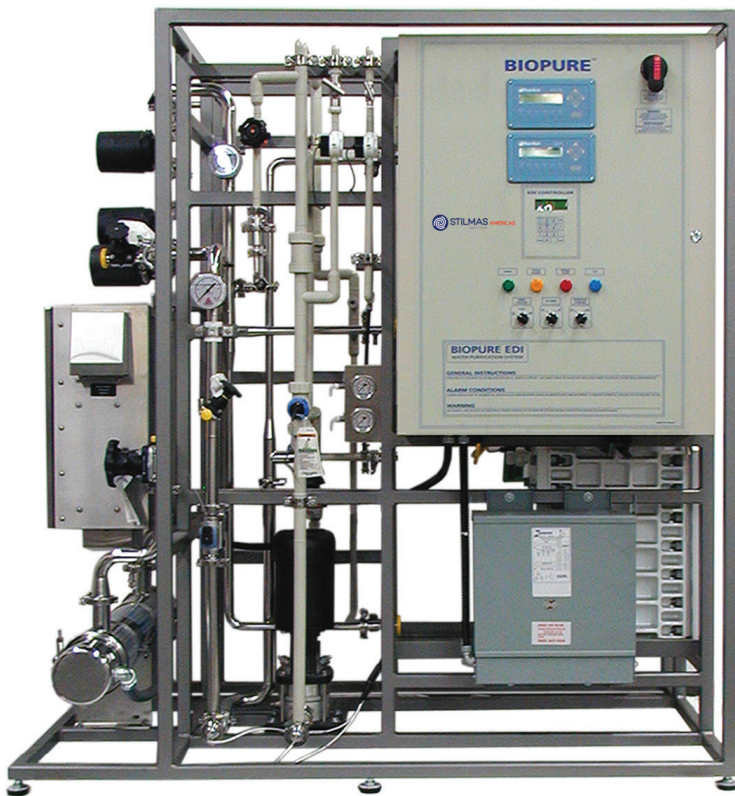




# EDI SYSTEMS

ELECTRODEIONIZATION SYSTEMS  
7,200 TO 230,400 GPD



## THE EDI SERIES ELECTRODEIONIZATION SYSTEM IS A REVOLUTION IN CHEMICAL-FREE DEIONIZATION THAT IS COST-EFFECTIVE FOR ALL FLOW RATES.

No regeneration chemicals are needed. No hazardous waste stream is produced. Operation is simple, continuous, and facility requirements are reduced. The EDI systems have several different modules to choose from (see chart below).

Each EDI system includes the following components: EDI module(s), EDI power supply, high water recovery (optional), choice of piping materials, monitoring instrumentation, and manual & automated valves. The EDI system also includes a main control panel (NEMA 4/12), which includes a PLC and OIT terminal to operate both the EDI system and components such as pre and post treatment that will interface with the system. The system is completely pre-wired and pre-piped on one skid for fast economical installation.

## TYPICAL APPLICATIONS

- ⊕ Pharmaceutical preparations
- ⊕ Biological engineering
- ⊕ Central laboratory water
- ⊕ Power industry
- ⊕ Humidification
- ⊕ Rinsing of electronic Components
- ⊕ Glassware rinsing
- ⊕ Preparation of process chemicals

## STANDARD FEATURES

- ⊕ Skid mounted
- ⊕ Integral power supply
- ⊕ Operational instruments
- ⊕ Epoxy coated steel frame
- ⊕ Pressure gauges
- ⊕ Flow meters
- ⊕ Prewired/preplumbed
- ⊕ Factory tested

## OPTIONAL ITEMS

- ⊕ Hot water sanitizable
- ⊕ Various piping materials
- ⊕ Stainless steel frame
- ⊕ Ultraviolet sterilizer
- ⊕ NIST traceable instrumentation
- ⊕ High water recovery design
- ⊕ System validation

# TECHNICAL DATA

EDI Module Design Parameters (per module)					
Parameter	Mini MK-3	Maxi MK-3	MK3X	MiniHT MK-3	PharmHT MK-3
Product Flow	2.5 to 6.7 gpm	7.5 to 20 gpm	10 to 28 gpm	2.5 to 6.7 gpm	7 to 20 gpm
Product Quality	>16 Mohm.cm	>16 Mohm.cm	>10 Mohms.cm	>10 Mohm.cm	>10 Mohm.cm
Nominal Recovery	80 to 95%	80 to 95%	80 to 95%	80 to 95%	80 to 95%
Temperature	5 to 35C	5 to 35C	5 to 35C	5 to 35C	5 to 35C
Inlet Pressure	45 to 100 psi	45 to 100 psi	45 to 100 psi	45 to 100 psi	45 to 100 psi

Note: HT models are designed to be fully heat sanitizable.

## Product Specifications

### Electrodeionization (EDI) System Specifications at 25°C

Model Number	Stock Number	Module Quantity	Min-Flowrate gpm (m3/hr)	Max-Flowrate gpm (m3/hr)	Feed / Product Pipe Size (In)	Maximum Recovery%	Concentrate in (mm)
EDI-MINI	1E715B-3EDI	1	2.5 (0.6)	6.7 (1.5)	3/4 / 3/4	95	1/2 (1.27)
EDI-1	1E615B-3EDI	1	7.5 (1.7)	20 (4.5)	1/1	95	3/4 (1.91)
EDI-2	2E618B-3EDI	2	15 (3.4)	40 (9.0)	2/2	95	3/4 (1.91)
EDI-4	4E618B-3EDI	4	30 (6.8)	80 (18.2)	2/2	95	1 (2.54)
EDI-6	6E618B-3EDI	6	45 (10.2)	120 (27.3)	3/3	95	1 (2.54)
EDI-8	8E618B-3EDI	8	60 (13.6)	160 (36.3)	3/3	95	1 (2.54)

Note: All weights and dimensions are approximate.

Feed Water Requirements*	Specifications
Feed Water Source	RO Permeate
Feed Water Conductivity Equivalent including CO <sub>2</sub>	< 40 µS/cm
Silica (SiO <sub>2</sub> )	< 1 ppm
Iron, Mn, H <sub>2</sub>	< 0.01 ppm
Total Chlorine (as Cl <sub>2</sub> )	< 0.02 ppm
Hardness (as CaCO <sub>3</sub> )	< 1.0 ppm
Dissolved Organics (TOC) (as C)	< 0.5 ppm
Operating pH Range	4 - 11
*If any of the feed water parameters are not within the limits given, consult one of our application specialists for assistance.	

Modules	Dimensions	Weights
1-2	66"W x 43"D x 86"	1400 lbs
3-4	84"W x 60"D x 86"	1700 lbs
5-6	84"W x 76"D x 86"	2000 lbs
7-8	84"W x 92"D x 86"	2300 lbs

### Ordering Information

#### EDI Part Number Matrix

									3	EDI
<b>Number of RO Modules</b>										
1 2 4 6 8										
<b>Module Type</b>										
E6 - MAXI MK-3		E9 - MINIHT MK-3								
E7 - MINI MK-3		E10 - PHARMHT MK-3								
<b>E11-MK3X</b>										
<b>Piping Materials</b>										
1 - PVC		3 - PVDF								
2 - PP		4 - 316 SS								
<b>Electrical Requirements</b>										
3 - 380/3/50		7 - 230/3/60								
4 - 420/3/50		8 - 460/3/60								
6 - 208/3/60		9 - 575/3/60								
<b>Controller Option</b>										
3 - PLC Controller										
<b>Unit Type</b>										
EDI - Electrodeionization system										