

EDI Purified Water System

Electro-Deionization (EDI) Skid

Quality Product for Quality Water

The EDI Series Electrodeioniza3 on System is a revolu3 on in chemical-free deioniza3 on that is cost-effec3 ve for all flow rates.

No regenera3 on chemicals are needed. No hazardous waste stream is produced. Opera3 on is simple, con3nuous, and facility requirements are reduced. The EDI system has 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 (op3onal), choice of piping material, monitoring instrumenta3on, and manual & automated valves. The EDI system also includes a main control panel (NEMA4/12), 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 installa3on.

Typical Applica3ons

- Pharmaceu3cal Prepara3on
- Biological Engineering
- Central Laboratory Water
- Power Industry
- Humidifica3on
- Rinsing of Electronic Component
- Glassware Rinsing
- Prepara3on of Process Chemical

Standard Features

- Skid Mounted
- Integral Power Supply
- Opera3onal Instrument
- Stainless Steel Frame
- Pressure Gauge
- Flow Meter
- Prewired/Preplumbed
- Factory Tested

Op3onal Items

- Hot Water Sani3zable
- Various Piping Materials
- Epoxy Coated Steel Frame
- Ultraviolet Sterilizer
- Nist Traceable Instrumenta3on
- High Water Recovery Design
- System Valida3on

Technical Data

EDI Module Design Parameter (Per Module)						
Parameter	Mini MK-3	Maxi MK-3	Pharm MK-3	MiniHTMK-3	PharmHTMK-3	
Product Flow	2.5 to 6.7 gpm	7.5 to 20 gpm	7 to 20 gpm	2.5 to 6.7 gpm	7 to 20 gpm	
Product Quality	>16 Mohm.cm	>16 Mohm.cm	>10 Mohm.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	40 to 38]C	45 to 38]C	50 to 38]C	40 to 38]C	40 to 38]C	
Inlet Pressure	45 to 100 psig	45 to 100 psig	45 to 100 psig	45 to 100 psig	45 to 100 psig	
Note: HT model is design	ned to be fully heat sani3	zable.			1	

Product Specifica3 ons

Model Number	Stock Number	Module Quan3ty	Min-Rowrate gpm (m3/hr)	Max-Rowrate gpm (m3/hr)	Feed / Product Pipe Sze (In)	Maximum Recovery%	Concentrate In (mm)
EDI-MINI	1E715B-3EDI	1	2.5 (0.6)	6.7 (1.5)	3 4/34	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*	Specifica3 ons			
Feed Water Source	RO Permeate			
Feed Water Conduc3 vity Equivalent including CO ₂	<40 µS'am			
Slica (SO ₂)	<1 ppm			
Iron, Mn, H2	< 0.01 ppm			
Total Chlorine (as C)	< 0.02 ppm			
Hardness (as CaCO ₃)	< 1.0 ppm			
Dissolved Organics (TOC) (as C)	< 0.5 ppm			
Opera3 ng pH Range	4 - 11			
* If any of the feed water parameters are not within the limits g applica3 on specialists for assistance.	ven, consult one of our			

Modules	Dimension	Weight			
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 Info DI Part Number M		8	E6	1	8	В	-[3	EDI
Number of ROM	odule								
12468		l.							
Module Type									
E6-MAXIMK-3 E7-MINIMK-3 E8-PHARMMK-3	E9-MINIHTMK-3 E10-PHARMHTN								
Piping Material				Ci .					
1-PVC 2-PP	3-PVDF 4-SUS316L	_							
Bectrical Require	ment				2				
3-380/3/50 4-420/3/50 6-208/3/60	7 - 230/3/60 8 - 460/3/60 9 - 575/3/60								
High Recovery Op	o3on								
B-SUS316LCentri	fugal								
Controller Op3or	1								
3-PLCController									
Unit Type									
EDI - Electrodeioni	za3 on System								

Optional Equipment Available

- Product water divert valve
- Alternate PLC system
- EDI cell clean-in-place (CIP) system
- CPVC system piping
- Feedwater resistivity monitor
- System pressure transmitter
- Product water pressure relief valve
- Two-pass Reverse Osmosis (RO) pretreatment
- Feed/product water storage tank
- Feed/product water transfer pump system