

# Mega™ EDI



Mega™ brand Electro-Deionization (EDI) systems from Winda Technologies provide the right combination of value and features required for any high-purity application. Every Mega™ EDI system is manufactured from the highest quality components to the exacting standards of all Winda Technologies equipment. Standard Mega™ EDI models are available for any high-purity application from 15,000 to over 150,000 GPD.

Mega™ EDI systems are designed to produce 16-18 meg-ohm ultrapure permeate water suitable for most electronics, semi-conductor, and pharmaceutical applications. This system offers a compact, modular, and reliable solution for production of ultrapure water without the need for chemical regeneration.



Experience and Technology – The Winda Difference

## Mega™ EDI



### Design Assumptions

- Feed water must be Reverse Osmosis permeate or equivalent
- Feed water conditions, conductivity, flows, and recovery in accordance with EDI module manufacturer's recommendations

### Standard Features

- Adjustable DC Power Supply
- Automatic Low Feed Flow Alarm
- Sediment Prefilter
- Prefilter Pressure Gauges
- 316SS Pressure Gauges
- PVC and Polypropylene Piping and Valves
- Conductivity and Resistivity Meters
- Sample Valves
- Compact, Modular Design
- Product and Feed Flowmeters
- Leak-free Design

### Optional Features

- pH, Temperature, TOC, Turbidity Instruments
- Special Color or Private Label
- Concentrate Stream Recycling
- CO<sub>2</sub> Removal Cartridge
- Clean-in-Place System
- Sanitary Piping and Fittings
- Crating

### System Specifications

Model	System Configuration					Approximate Shipping Dimensions			Approximate Skid Dimensions		
	Production GPD	m <sup>3</sup> /D	Recovery (%)	Number of EDI Modules	Power Reqs* 60Hz 50Hz (amps)	L x W x H (inches)	L x W x H (cm)	Weight (lbs/Kg)	L x W x H (inches)	L x W x H (cm)	Weight (lbs/Kg)
<b>MEGA-EDI-0.5</b>	720	3	90-95	1	6.0 6.3	24 x 24 x 54	61 x 61 x 137	80/36	24 x 24 x 54	61 x 61 x 137	75/34
<b>MEGA-EDI-1</b>	1,440	5	90-95	1	9.7 10	24 x 24 x 54	61 x 61 x 137	85/38	24 x 24 x 54	61 x 61 x 137	80/36
<b>MEGA-EDI-4</b>	5,760	22	90-95	1	11 12	24 x 24 x 54	61 x 61 x 137	95/42	24 x 24 x 54	61 x 61 x 137	90/40
<b>MEGA-EDI-7</b>	10,080	38	90-95	1	9.7 10	24 x 24 x 54	61 x 61 x 137	110/50	24 x 24 x 54	61 x 61 x 137	105/48
<b>MEGA-EDI-10</b>	14,400	55	90-95	1	13 14	24 x 24 x 54	61 x 61 x 137	130/59	24 x 24 x 54	61 x 61 x 137	125/57
<b>MEGA-EDI-14</b>	20,160	76	90-95	2	19 20	76 x 48 x 72	193 x 122 x 183	550/250	64 x 37 x 60	163 x 94 x 152	250/114
<b>MEGA-EDI-20</b>	28,800	109	90-95	2	25 26	76 x 48 x 72	193 x 122 x 183	600/273	64 x 37 x 60	163 x 94 x 152	275/125
<b>MEGA-EDI-30</b>	43,200	164	90-95	3	35 36	76 x 48 x 72	193 x 122 x 183	650/295	64 x 37 x 60	163 x 94 x 152	300/136
<b>MEGA-EDI-40</b>	57,600	218	90-95	4	44 46	76 x 48 x 72	193 x 122 x 183	700/317	64 x 37 x 60	163 x 94 x 152	350/159
<b>MEGA-EDI-60</b>	86,400	327	90-95	6	66 69	76 x 48 x 72	193 x 122 x 183	750/340	64 x 37 x 60	163 x 94 x 152	400/182
<b>MEGA-EDI-80</b>	115,200	436	90-95	8	88 92	76 x 48 x 72	193 x 122 x 183	800/363	64 x 37 x 60	163 x 94 x 152	450/204
<b>MEGA-EDI-100</b>	144,000	545	90-95	10	108 113	76 x 48 x 72	193 x 122 x 183	850/386	64 x 37 x 60	163 x 94 x 152	500/227
<b>MEGA-EDI-120</b>	172,800	654	90-95	12	128 135	76 x 48 x 72	193 x 122 x 183	900/409	64 x 37 x 60	163 x 94 x 152	550/250

\* All Power Requirements are full-load at 220/230V. Models up to 4 GPM are 1-Phase, others are 3-Phase.

### Typical Process Flow using Mega™ EDI (Electro-Deionization System)

