



ElectroFlex Mobile Electrodeionization Systems

Marmon Industrial Water's Mobile ElectroFlex Electrodeionization (EDI) systems are designed to continuously polish RO permeate to demineralized quality to meet the consistent water demands of power generation, microelectronics, petrochemical, and many other industries. Integrating selective ion exchange membranes, ion exchange conductive resins, and electricity, the ElectroFlex system efficiently removes ionized species and impurities to produce demineralized water, all in a simple containerized package for quick deployment, helping you scale water production for your needs.

System Advantages

- Continuous production of deionized water without the need for disruptive IX trailer changes
- Consistent Electroflex performance vs. premature IX changeouts due to poor regenerations
- Uses only electricity to regenerate instead of costly and hazardous chemicals: eliminates the bulk storage, handling and wastewater neutralization for minimal environmental, health and safety risk
- No risk of cross contamination with other customer's IX resins
- Compact footprint requires 50-75% less operating space vs IX trailers creates more facility space for other uses
- Designed to recycle the EDI reject upstream of the RO for 100% recovery and zero waste production



ElectroFlex System Specifications

Nominal Flow Rate Water	200-400 gpm
Recovery	90-95% (see note)
Typical Product Water Quality	<0.1 µS / >10+megaohm
Operating Modes	Direct-> EDI
	Direct-> Filter -> EDI
	Break Tank -> Pump -> Filter -> EDI
EDI Trains	Two (2) x 50%
Break Tank	One (1) x 100%
Transfer Pumps	Two (2) x 50%
Filters	Two (2) x 50%
Recovery Tank	One (1) x 100%
Recovery Pump	One (1) x 100%
EDI Modules	Six (6)

Note: Up to 100% with recycle to RO feed



Feedwater Specifications

Feedwater (direct feed)	RO perm, SDI < 3 NTU < 0.3
Feedwater (prefiltered)	RO perm, SDI < 5 NTU < 1.0
Conductivity	<40 µS/cm
Silica & Hardness	< 1 ppm
Total chlorine	None
TOC	<0.5 ppm
pH	5-10
Heavy Metals	<0.05 ppm
CO2	<2 ppm
Temperature (max/min)	100°F/ 35°F (45°F-85°F optimal)
Pressure (max/min)	100 psig / 25 psig

Benefits of the MIW Rental Solution

De-risk Your Operation

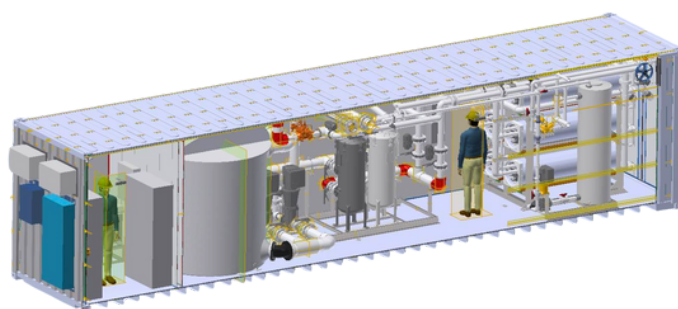
Our rental systems are designed as semi-permanent installations, with no need for trailer traffic. Plug and play solutions address today's regulatory and water-related risks. Mobile units allow you to immediately respond to emergency situations and better manage planned system maintenance and upgrades.

Performance + Simplicity

Marmon Industrial Water rental equipment provides access to the latest treatment technologies without the burden of ownership or a CAPEX investment, allowing you to focus on your core operations.

Flexibility

Short or long-term rental contracts depending on your needs, including options for our specialized service technicians to provide technical support, preventative maintenance, or full operation.



Connections / Utilities / Dimensions

Electrical Voltage	480 VAC/3ph 60Hz
Service Rating	Up to 250 Amps (190FLA)
Instrument Air	1/2", 90-125 psi, <100 SCFM
Feed Water Inlet	6" flange, <100 psi, <450 gpm
Product Water Outlet	6" flange, <25 psi (+/- 3 psi static)
Wastewater Outlet	2" flange, <65 psi, <50 gpm
Overflow Outlet	8" flange, 2" flange, drains
Clean-In-Place (CIP)	1.5" & 4" cam & groove
Dimensions	41' L x 8' W x 9.6' H
Est. Operating Weight	50,000 lbs.
Est. Shipping Weight	30,000 lbs.

Contact Us

marmonindustrialwater.com/mobile

📍 30 Technology Drive, Suite 2F, Warren, NJ 07059

📞 908.516.1400

✉️ info.miw@marmonwater.com