



Electrodeionization (EDI)



EDI systems replace the mixed resin beds to produce deionized water. Unlike the mixed resin, electrodeionization does not require continuous stops to replace or regenerate resins using chemicals. Therefore, the EDI minimizes water quality problems and operating costs.

EDI removes ions from aqueous streams, typically in conjunction with reverse osmosis and other purification devices. The high quality modules of the Water unit continuously produce ultrapure water up to 18.2 MΩ.cm. EDI can operate continuously or intermittently.

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The EDI advantages over conventional resin beds are:

- ▶ It is continuous; it requires no stops or tank changes.
- ▶ It provides consistent quality water.
- ▶ It does not require chemicals (as does DI resin regeneration).
- ▶ The modules are compact.
- ▶ It requires little power.
- ▶ It saves operating costs.



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Characteristics

- ▶ Complete structure with power supply, controllers, pipes, sampling valves and cleaning fittings, flowmeters and high quality monitoring instrumentation.
- ▶ High recovery (up to 95%).
- ▶ High operating pressure up to 7 bar and temperature up to 45°C.
- ▶ Low power consumption.
- ▶ Different piping materials.
- ▶ Flow rates up to 40 m³/h per module.