

INDION® EDI SYSTEM (Electrodeionisation) Ultrapure Water Without Chemical

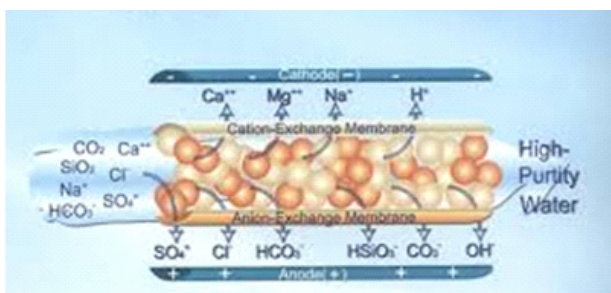
Growing demand for ultrapure water by industries has led to a demand for systems that deliver superior quality water. Ion Exchange's rugged, reliable electrodeionisation (EDI) system offers consistent, high-purity water without the costs and hassles of chemical regeneration.

The EDI system is an effective design combining two well-established and proven water purification technologies-electrodialysis and ion exchange resin deionization. In other words, EDI is a continuous process for producing high-purity water using ionexchange membranes, resins and electricity.

Process

This compact and modular system uses revolutionary techniques to remove dissolved salts with low energy and without the need for chemical regeneration.

The EDI system removes ions from water by forcing them out of the feed stream in to an adjacent stream Via an electric potential. EDI differs from ED by using resins in the diluting chambers-the resins allow for more efficient migrations of ions in very low conductivity water. The resins operate in steady state; they act not as an ion reservoir but as an ion conduit.



Features

- Continuous system producing consistent ultra pure water quality
- No acid and alkali regeneration thus eliminating waste disposal problems.
- Minimal maintenance-minimises on-going O&M cost
- Compact and modular system requiring reduced floor space & lower installation cost
- Faster installation than conventional ion exchange systems.
- Factory-trained service technicians
- Chemical and hot water sanitisable both system are available
- Customised models are available from 400 LPH onwards



Key performance parameters

- Up to 18+ megohm-cm product quality after RO pretreatment
- 99.5% salt removal
- 95-99%+ silica rejection
- High water recovery, typically 95%
- Safe and reliable-no chemical handling

Applications

- Semiconductor industry
- Power generation
- Industrial boiler feed makeup
- Electronics
- Pharmaceuticals
- Biotechnology
- Chemical Manufacturing
- Food and beverages
- Laboratories
- Cosmetics

Our state-of-the-art manufacturing facilities are ISO 9001, ISO 14001 & ISO 45001 certified.

To the best of our knowledge the information contained in this publication is accurate. Ion Exchange (India) Ltd. maintains a policy of continuous development and reserves the right to amend the information given herein without notice. Please contact our regional/branch offices for current product specifications.

INDION is the registered trademark of Ion Exchange (India) Ltd.



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