

Dow Water & Process Solutions has the global expertise, experience and resources to serve customers' needs



Electrodeionization

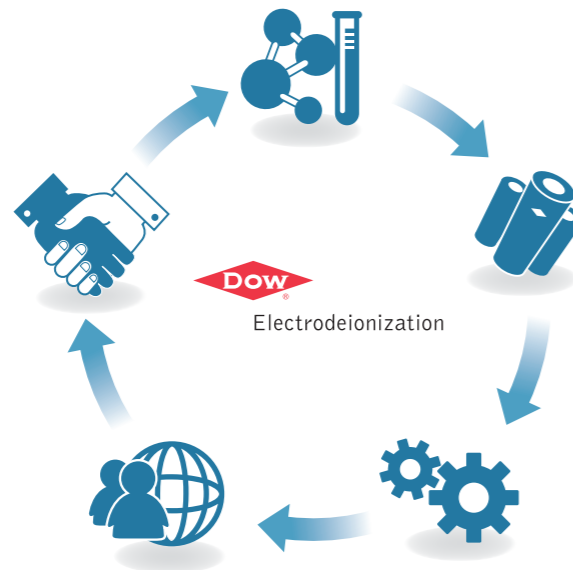
With unsurpassed technological innovations and R&D capabilities, combined with state-of-the-art design and production processes, Dow Water & Process Solutions consistently delivers high performance, long service life, electrodeionization products to customers worldwide. By harnessing advanced technologies and in-depth know-how, we offer customers affordable, energy efficient, sustainable water and process solutions.

Applications Research

- Global R&D staff and resource sharing
- Specialized focus on treating various water sources

Technical Support

- Comprehensive pre-sales technical support and water quality evaluation
- Assistance in start-up, on-site operational support and system troubleshooting
- Monitoring and analysis of system operational data, after-sales visits, timely response to meet customer needs



Research & Development

- Module manufacturing R&D
- Component-based design and research
- Total analysis on water quality and complex impurities, test analysis on system failures

Quality Control

- Practice of Dow's stringent quality control and management systems
- Consistent product quality through high-standard production processes and unsurpassed manufacturing excellence
- Meeting global market needs for quality electrodeionization products

Sales Network

- Worldwide coverage
- Professional, knowledgeable sales team
- Responsive parts supply system

DOW™ Electrodeionization

For more information about DOW Electrodeionization, call the Dow Water & Process Solutions business:

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Japan: +813 5460 2100
China: +86 21 3851 1000

www.dowwaterandprocess.com

Notice: The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water.

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Electrodeionization Fundamentals

Electrodeionization (EDI) is a continuous and chemical-free process of removing ionized and ionizable species from the feed water using DC power. EDI is typically used to polish reverse osmosis (RO) permeate and to replace conventional mixed bed ion exchange by eliminating the need to store and handle hazardous chemicals used for resin regeneration and associated waste neutralization requirements.

EDI Applications



Power Generation

When combined with two pass RO, EDI systems offer an alternative to mixed beds and offer the highest possible level of reliability and performance. EDI has become the solution of choice for more and more power companies throughout the world.



Refineries & Chemical Operations

EDI is quickly gaining growing acceptance within the chemical industry as an alternative to regenerable mixed beds. Lower operating expenses and fewer maintenance requirements make EDI a cost effective solution for many plants.

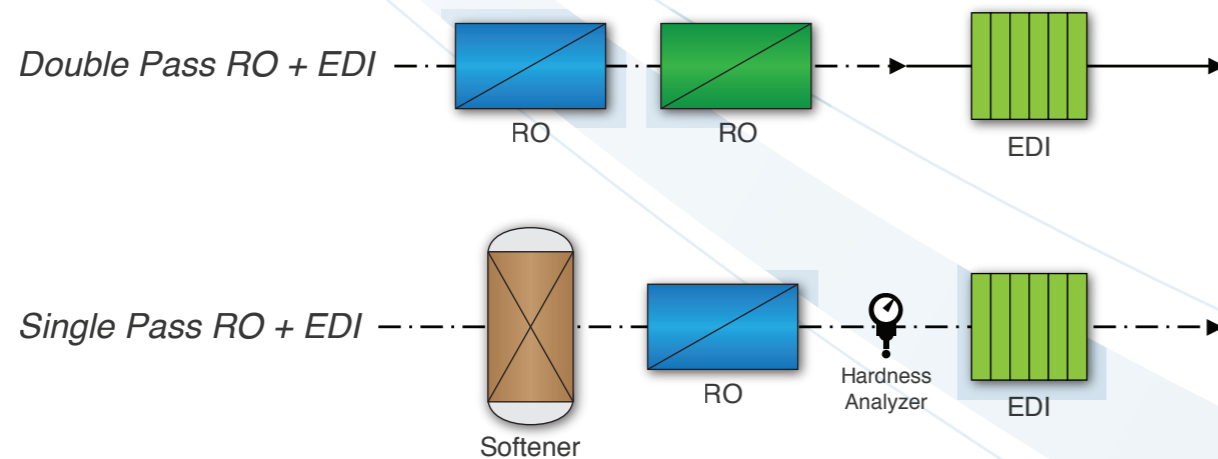


Industrial High Purity Water

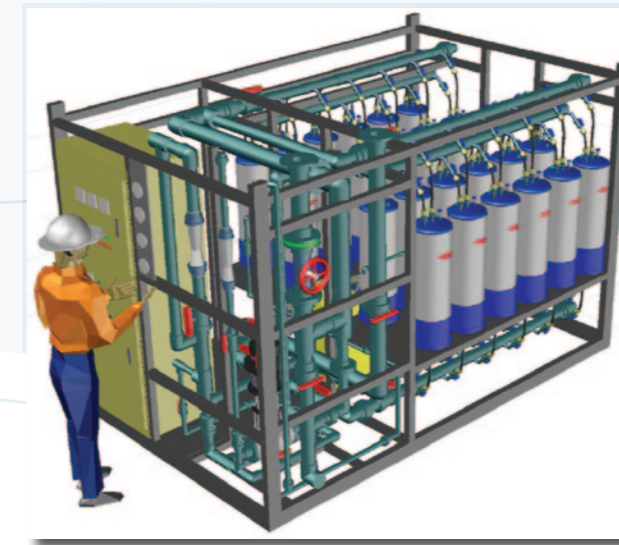
EDI can be used in a multitude of different applications wherever bottled or off site regenerated mixed beds are used. EDI delivers high water quality and meets the operational requirements of the industry.

DOW™ Electrodeionization Modules

The patented DOW™ Electrodeionization module utilizes a unique, leak free, low maintenance spiral wound design containing membrane and ion exchange resins sealed in high strength fibreglassed reinforced plastic (FRP) pressure vessel. DOW™ Electrodeionization modules optimize performance, maintain continuous product quality and can produce up to 18 mega ohm-cm high purity water with high silica and boron removal.



DOW™ Electrodeionization Advantages



1 No Leakage

The DOW™ Electrodeionization module is reliably sealed with high pressure top and bottom end caps, eliminating leakage problems commonly associated with plate and frame designs. Each module comes complete with an individual product water sample port.

2 Low Maintenance

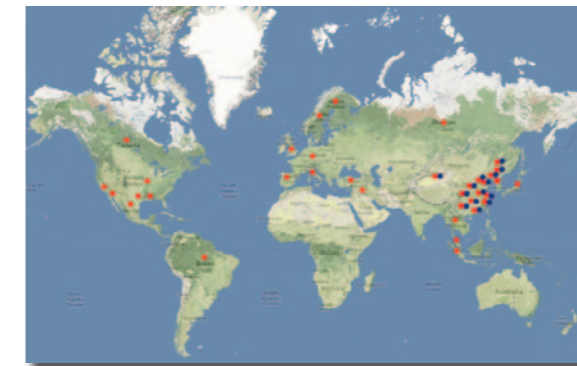
Unlike plate and frame EDI systems, DOW™ Electrodeionization modules do not require tightening of nuts and bolts at installation or the retorquing of bolts on an ongoing basis to prevent leaks.

3 Light Weight

Light weight modules are easy to work with and require no special lifting equipment.

4 A Growing Global Reputation – Proven the World Over.

The patented DOW™ Electrodeionization module is growing in popularity and is quickly becoming the module of choice among leading global OEM's.



5 Quality Assurance

Each DOW™ Electrodeionization module is performance and pressure tested prior to leaving our factory to ensure trouble free start-up performance. This ensures our modules will perform as promised and allows Dow to offer the best warranty of any EDI manufacturer in the world.

