

APPLIED IONICS

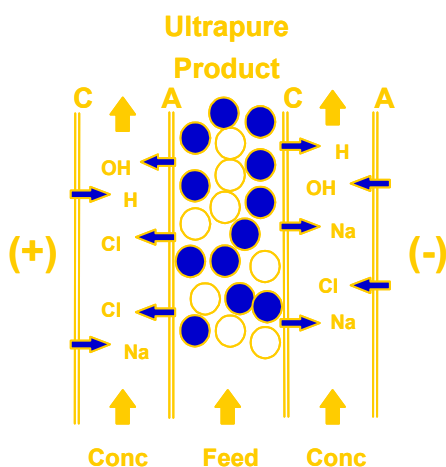
ELECTRO-DEIONISATION TECHNOLOGY ADVANTAGE

Benefits of EDI over Mixed Bed Resin

- Consistent and predictable results
- Continuous, simple operation (no DI batch changes)
- EDI is cost effective
- No hazardous waste (disposal costs)
- No regeneration chemicals (costs and risks)
- Reduced facility requirements

Benefits of Applied Ionics EDI

- Higher quality water
- Less prone to scale
- Easy to integrate into existing water systems
- Modular system, more flexible, easy to expand
- No recirculation—increased reliability
- No brine injection—simpler systems
- No stack leaks
- Safer lower voltage
- Smaller installed footprint
- Modules sizes from 50 lph to 2.3 m³/hr
- Off the shelf modules
- Outstanding troubleshooting and service support



Electro-deionisation uses a combination of ion selective membranes and ion exchange resin sandwiched between two electrodes.

A DC current passed between the electrodes will drive dissolved ions towards the anode or cathode.

By arranging the ion selective membranes in alternating layers two streams are produced, an ion depleted dilute (product) and ion enriched concentrate (reject).

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