

E-Cell* MK-3Mini Stack

Electrodeionization (EDI) Stacks for Low Flow Applications

E-Cell* MK-3Mini is designed to:

- Provide Ultrapure Water for industrial applications including Power, Semiconductor, and General Industry.
- Produce Mixed Bed quality water on a continuous basis.
- Require no caustic or acid for regeneration of mixed bed resin within the stack.
- Be leak free, guaranteed
- Eliminate brine injection and concentrate recirculation, simplifying system design.

Description and Use

MK-3Mini E-Cell stacks are Electrodeionization (EDI) stacks which use electrical current to deionize and polish reverse osmosis (RO) permeate water. The product water for the MK-3Mini is at an Ultrapure level required in today's most demanding applications.

Typical Applications

- Pharmaceutical
- Laboratory
- Semiconductor/Microelectronics
- General Industry

Quality Assurance

- CE, UL & CSA marked
- Manufactured in a ISO 9001:2000 facility

MK-3Mini Stack Specifications		
Nominal Flow	1.14 m ³ /hr	5.0 gpm
Flow Rate Range	0.45 – 1.5 m ³ /hr	2.0 – 6.5 gpm
Shipping Weight	49 kg	107 lbs
Dimensions (width x height x depth)	30 cm x 61 cm x 28 cm	12" x 24" x 11"

a product of
ecomaginationSM



Typical Performance		
Product Quality		
Resistivity	> 16 MOhm-cm	
Sodium	< 3 ppb	
TOC (as C)	< 500 ppb	
Silica (SiO ₂) Removal	Up to 99% or < 5 ppb	
Operating Parameters		
Recovery	Up to 95%	
Concentrate Flow	Counter current vs. Product Flow - Standard Co-current vs. Product Flow - when fed by double pass RO	
Voltage	0 – 150 VDC	
Amperage	0 – 5.2 ADC	
Inlet Pressure	4.1 – 6.9 bar	60 – 100 psi
Pressure Drop at Nominal Flow	1.4 – 2.4 bar	20 – 35 psi

Maximum Feed Water Specifications		
Feed Water - Total Exchangeable Anions (TEA as CaCO ₃)	<25 mg/l	<25 ppm
Feed Water - Conductivity, NaHCO ₃ equivalent	< 43 µS/cm	< 43 µS/cm
Temperature	4.4 – 38°C	40 – 100°F
Total Hardness (as CaCO ₃)	< 1.0 mg/l	< 1.0 ppm
Silica (SiO ₂)	< 1.0 mg/l	< 1.0 ppm
Total Organic Carbon (TOC as C)	< 0.5 mg/l	< 0.5 ppm
Total Chlorine	< 0.05 mg/l	< 0.05 ppm

Actual performance may vary depending on site conditions. Reference E-Calc projection software to verify actual performance. Patents pending.

Find a contact near you by visiting www.ge.com/water and clicking on "Contact Us" .

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