LENNTECH

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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 m³/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" × 24" × 11"	

a product of

ecomagination*



Typical Performance				
Product Quality				
Resistivity	> 16 MOhm-cm			
Sodium	< 3 ppb			
TOC (as C)	< 500 ppb			
Silica (SiO2) 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 Exchangea- ble Anions (TEA as CaCO ₃)	<25 mg/l	<25 ppm		
Feed Water – Conductivity, NaHCO3 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.

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