Fact Sheet

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E-Cell™ MK-2 MiniHT

Ultrapure Water for the Pharmaceutical Industry

E-Cell™, electrodeionization (EDI) technology is setting the industry standard for chemical-free, ultrapure water production. E-cell stacks offer a robust alternative to mixed bed technology.

The MK-2 MiniHT model series is designed to deliver high purity water for pharmaceutical applications where heat sanitization at temperatures of 80°C is required.

The modular design allows configuration of single or multiple stacks to provide a cost-effective treatment across all flow requirements.

Parameter	US Units	SI Units
Product Water		
Flow rate per stack	2.5 – 6.7 gpm	0.57 to 1.52 m^3/h
Resistivity	> 10 MOhm-cm	> 10 MOhm-cm
Feed Water (RO Permeate or Equivalent)		
Feed TEA (per E-Calc projection software)	< 49 ppm as $CaCO_3$*	<49 mg/L as $CaCO_3$*
Silica (SiO_2)	< 500 ppb	< 500 ug/L
TOC	< 0.5 ppm	< 0.5 mg/L
Temperature range	40 to 100°F	4.4 to 38°C
Hardness	< 0.5 ppm	< 0.5 mg/L
* Actual performance may vary depending on site conditions. Reference E-Calc projection software to verify actual performance.		
Operating Parameters		
Nominal recovery	90% to 95%	90% to 95%
DC power consumption (nom.)	0.2 to 1.5 kWh/1000 US gal	0.05 to 0.4 kWh/m^3
Feed pressure	50 to 100 psig	3.4 to 6.9 bar
Pressure drop	20 to 50 psid	1.4 to 3.4 bar
Dimensions	12” W x 10.5” D x 24” H	30 cm W x 27 cm D x 61 cm H
Weight	107 lbs	46 kg
Heat Sanitization Parameters (RO permeate or Equivalent)		

E-Cell provides certificates stating that all materials used are compliant with FDA regulations.

Actual performance may be better than stated, depending of feed water quality. Customers should consult their E-Cell system Integrator and the E-Calc software tool to verify actual performance.

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