

# E-Cell MK-2 PharmHT

## Heat Sanitizable Ultrapure Water for Pharmaceutical Industry



### Description and Use

E-Cell\* electrodeionization (EDI) technology is setting the industry standard for chemical-free, ultra-pure

water production. E-cell stacks offer a robust alternative to mixed bed technology.

The PharmHT model series is designed to deliver high purity water for pharmaceutical applications where heat sanitization is required, rated for 60 cycles of sanitization at 80°C.

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
<b>Product Water</b>		
Flow rate per stack	7.0 to 20 gpm	1.6 to 4.5 m <sup>3</sup> /h
Resistivity	> 10 MOhm-cm	> 10 MOhm-cm
<b>Feed Water (RO Permeate or Equivalent)</b>		
Feed TEA (per E-calc Projection software)	< 39 ppm as CaCO <sub>3</sub> *	< 39 mg/L as CaCO <sub>3</sub> *
Silica (SiO <sub>2</sub> )	< 500 ppb	< 500 ug/L
TOC	< 0.5 ppm	< 0.5 mg/L
Operational 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.		
<b>Operating Parameters</b>		
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 <sup>3</sup>
Feed pressure	50 to 100 psig	3.4 to 6.9 bar
Pressure drop	20 to 45 psid	1.4 to 3.1 bar
Dimensions	12" W x 19" D x 24" H	30cm W x 48cm D x 61cm H
Weight	202 lb	92 kg
<b>Heat Sanitization Parameters (RO Permeate or Equivalent)</b>		
Dilute flow rate per stack	7 to 10 gpm	1.6 to 2.3 m <sup>3</sup> /h
Concentrate flow rate per stack	2 to 3 gpm	450 to 680 L/h
Inlet Sanitization Temperature	< 185°F	< 85°C
Feed Pressure	< 30 psig	< 2.1 bar



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