



E-CELL MK-3MiniHT

Hot Water Sanitizable EDI stack

MK-3MiniHT Features

- Provide Ultra Pure Water for pharmaceutical applications
- Hot water sanitizable up to 85 °C for 160 cycles
- Produce Ultra Pure quality water on a continuous basis
- No stack bolt tightening required
- Leak free, guaranteed
- Less sensitive to scale forming
- No caustic or acid required for regeneration
- No brine injection or concentrate recirculation required
- Operate at low voltage, < 150VDC

Typical Applications

- Pharmaceutical
- Laboratory
- Food and Beverage

Description and use

E-Cell MK-3MiniHT stacks are hot water sanitizable EDI stacks which use electrical current to deionize and polish reverse osmosis (RO) permeate water. The product water quality for the system is at greater than USP quality levels required in today's Pharmaceutical applications.

E-Cell MK-3MiniHT Module Specifications

Flowrates min / nom / max	0,5 / 1,1 / 1,5	m ³ /h
Shipping weight	49	kg
Dimensions approx. (w x h x d)	305 x 610 x 280	mm

Typical Performance

Product Resistivity**	> 10	MΩ•cm
TOC (as C)	< 500	ppb

Operation Parameters

Recovery	Up to 92	%
Voltage	0 - 150	VDC
Amperage	0 - 5,2	ADC
Inlet Pressure	(Counter-Current) 4,1 - 6,2	bar
	(Co-Current)* 3,1 - 6,2	bar
Pressure Drop	1,4 - 2,4	bar

Maximum Feed Water Specifications

Total Exchangeable Anions (TEA as CaCO ₃)	< 25	mg/l
Conductivity NaHCO ₃ equivalent	< 43	µS/cm
Total Hardness (as CaCO ₃)*	< 1,0	mg/l
Silica (SiO ₂)	< 1,0	mg/l
Total Organic Carbon (TOC)	< 0,5	mg/l
Total Chlorine (Cl ₂)	< 0,05	mg/l
Temperature	5 - 40	°C

Hot Water Sanitization

No. of 1 hour sanitizations	160	cycles
Sanitization temperature	up to 85	°C
Maximum sanitization pressure	2,1	bar

Quality Assurance

- CE, RoSH & CSA marked
- Manufactured in a ISO 9001 and ISO 14001 facility

* Co-Current operation only acceptable when total feed hardness <0,1 ppm as CaCO₃.

** Actual performance may vary depending on site conditions, contact DeionX for detailed projection.