



E-CELL MK-3 Industrial EDI Stack

MK-3 Features

- Provide Ultra Pure Water for industrial applications
- 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

Typical Applications

- Microelectronics
- Power Generation (NOx, Boiler Feed)
- Food and Beverage
- General Industry

Description and use

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

E-Cell MK-3 Module Specifications

Flowrates min / nom / max	1,7 / 3,4 / 4,5	m ³ /h
Shipping weight	92	kg
Dimensions approx. (w x h x d)	305 x 610 x 480	mm

Typical Performance

Product Resistivity**	> 16	MΩ•cm
Sodium	< 3	ppb
Boron Removal	> 95	%
Silica (SiO ₂) Removal	up to 99% or < 5	ppb

Operation Parameters

Recovery	Up to 97	%
Voltage	0 - 300	VDC
Amperage	0 - 5,2	ADC
Inlet Pressure	(Counter-Current) 4,1 - 6,9 (Co-Current)* 3,1 - 6,9	bar
Pressure Drop	1,4 - 2,8	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

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.