

MK-2 E-Cell® Stack

E-Cell®

E-Cell®, the industry standard for chemical-free EDI technology. E-Cell®'s robust, modular electrodeionization (EDI) technology is cost-effective for all flow rates.

No regeneration chemicals are needed, no hazardous waste stream is produced, operation is simple and continuous, and facility requirements are reduced.

MK-2 Stack



E-Cell®

MK-2 Stack

Process Design Parameters		
Parameter	US Units	Metric Units
System Product Flow	7.5 to 15 gpm	1.7 to 3.4 m ³ /h
Normal Recovery	80 to 95%	80 to 95%
Temperature	40 to 100° F	4.4 to 38° C
Inlet Pressure	45 to 100 psig	3.1 to 6.9 bar
Feed to product delta P	20 to 35 psi	1.4 to 2.4 bar
Dimensions	12" W x 19" D x 24" H	30cm W x 48cm D x 61cm H
Product Pipe Material	PP	PP

Operating Conditions			
Condition		US Units	Metric Units
Electrical	Maximum	4.5 amps / Stack @ 600V DC	4.5 amps / Stack @ 600V DC
Product Outlet	Flow Range	7.5 to 15 gpm per Stack	1.7 to 3.4 m ³ /h per Stack
	Quality	>16 MOhm.cm	>16 MOhm.cm
	Pressure Drop	20 to 35 psi	1.4 to 2.4 bar
	Temperature Rise	4.3° F maximum	2.4° C maximum
Electrolyte Outlet	Flow	0.15 to 0.35 gpm / Stack to Drain	0.6 to 1.35 lpm / Stack to Drain
	pH	7.0 to 9.0	7.0 to 9.0
Concentrate Bleed	Flow	Determined by Recovery Rate	Determined by Recovery Rate
Concentrate + Electrolyte Inlet	Maximum Flow	5.4 gpm per Stack	1.23 m ³ /h per Stack
	Pressure	10 psi < Feed Water Pressure	0.7 bar < Feed Water Pressure
	Concentrate Conductivity	50 to 1250 uS/cm	50 to 1250 uS/cm
Concentrate Make-up	Flow	Determined by Recovery Rate	Determined by Recovery Rate
	Water Quality	Same as Feed Inlet	Same as Feed Inlet

Note: The feed water to the E-CELL® system must be RO permeate or equivalent.



E-Cell®

E-Cell Corporation

52 Royal Road, Guelph, Ontario, Canada N1H 1G3

Tel: +1 (519) 836-2260 Fax: +1 (519) 836-0982

Toll Free: 1 (888) 386-5132 (USA and Canada)

Website: www.ecell.com E-mail: ecell@ecell.com