

# MK-2 Pharm 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.

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Process Design Parameters		
Parameter	US Units	Metric Units
System Product Flow	7 to 18 gpm	1.59 to 4.09 m <sup>3</sup> /h
Nominal Recovery	80 to 95%	80 to 95%
Temperature	40 to 100° F	4.4 to 38° C
Inlet Pressure	50 to 100 psig	3.4 to 6.9 bar
Feed to Product delta P	25 to 43 psi	1.7 - 3.0 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 to 18 gpm	1.59 to 4.09 m <sup>3</sup> /h
	Quality	>10 MOhm.cm	>10 MOhm.cm
	Pressure Drop	25 to 43 psi	1.7 to 3.0 bar
	Temperature Rise	4.3° F Maximum	2.4° C Maximum
Electrolyte Outlet	Flow	0.25 to 0.40 gpm / Stack to Drain	0.95 to 1.51 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 <sup>3</sup> /h per Stack
	Pressure	10 psi < Feed Water Pressure	0.7 bar < Feed Water Pressure
	Concentrate Conductivity	50 to 800 uS/cm	50 to 800 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™ must be RO permeate or equivalent.

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