

25 gpm - 6 m³/h

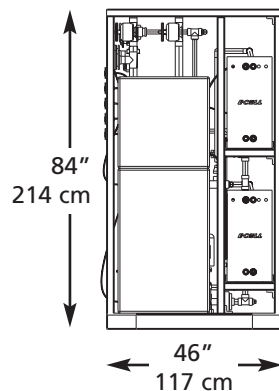
E-Cell System™

E-Cell™ is a revolution in chemical-free deionization. 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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6 m³/h



E-CELL™

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Process Design Parameters		
Parameter	US Units	Metric Units
System Product Flow	12 to 25 gpm	2.7 to 5.7 m ³ /h
Nominal Recovery	90 to 95%	90 to 95%
Temperature	40 to 100°F	5 to 38°C
Inlet Pressure	45 to 100 psig	3.1 to 6.8 bar
Feed to Product delta P	20 to 35 psi	1.4 to 2.4 bar
Dimensions	46" W x 53" D x 84" H	117 cm W x 135 cm D x 214 cm H
Product Pipe Material	PP	PP
Shipping Weight	1750 lb	790 kg
Operating Weight	1800 lb	820 kg

Operating Conditions			
Condition		US Units	Metric Units
Electrical	Maximum	9.0 amps @ 600V DC	9.0 amps @ 600V DC
Product Outlet	Flow Range	12 to 25 gpm	2.7 to 5.7 m ³ /h
	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	0.3 to 0.7 gpm to Drain	1.2 to 2.7 lpm 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	Total Flow	9 gpm	2.04 m ³ /h
	Pressure	5 psi < Feed Water Pressure	0.3 bar < Feed Water Pressure
	Concentrate Conductivity	150 to 1250 µS/cm	150 to 1250 µS/cm
Concentrate Make-up	Flow	Determined by Recovery Rate	Determined by Recovery Rate
	Water Quality	Same as Feed Inlet	Same as Feed Inlet

Feed Water Requirements			
Constituent	US Units	Metric Units	Range
TEA including CO ₂	ppm CaCO ₃	mg/l CaCO ₃	<25.0
pH			5.0 to 9.0
Hardness	ppm CaCO ₃	mg/l CaCO ₃	<1.0
Silica (Reactive)	ppm	mg/l	<0.5
TOC	ppm	mg/l	<0.5
Free Chlorine	ppm	mg/l	<0.05
Fe, Mn, H ₂ S	ppm	mg/l	<0.01

NOTE: The feed water to the E-Cell™ must be RO permeate or equivalent.

Power Requirements		
Voltage	Hz	Max AC Current (Amps)
575	60	7.6
460	60	9.5
380	60	11.5
220	60	19.8
415	50	10.5
380	50	11.5
Maximum power consumption 6.8 kw		

NOTE: All 3 phase power

E-CELL™

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