

200 gpm = 45 m<sup>3</sup>/h

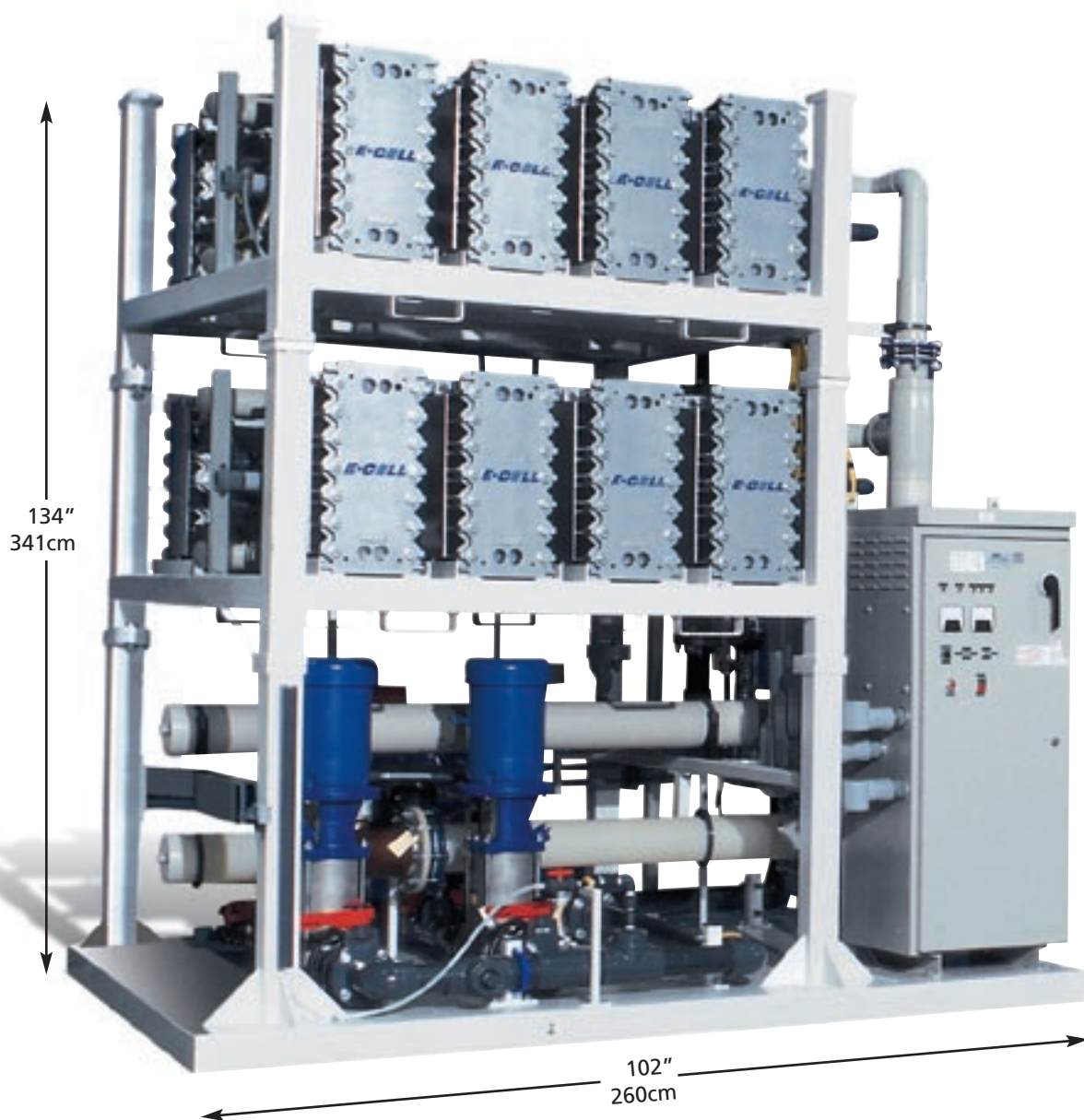
## E-Cell System™

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.

200 gpm

45 m<sup>3</sup>/h



**E-CELL™**

# 200 gpm

# 45 m<sup>3</sup>/h

Process Design Parameters		
Parameter	US Units	Metric Units
System Product Flow	96 to 200 gpm	21.8 to 45.5 m <sup>3</sup> /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	102" W x 84" D x 134" H	260 cm W x 214 cm D x 341 cm H
Product Pipe Material	PP or PVC	PP or PVC
Shipping Weight	6930 lb	3145 kg
Operating Weight	7460 lb	3385 kg

Operating Conditions			
Condition		US Units	Metric Units
<b>Electrical</b>	Maximum	72 amps @ 600V DC	72 amps @ 600V DC
<b>Product Outlet</b>	Flow Range	96 to 200 gpm	21.8 to 45.5 m <sup>3</sup> /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
<b>Electrolyte Outlet</b>	Flow	2.5 to 5.6 gpm to Drain	9.1 to 21.2 lpm to Drain
	pH	7.0 to 9.0	7.0 to 9.0
<b>Concentrate Bleed</b>	Flow	Determined by Recovery Rate	Determined by Recovery Rate
<b>Concentrate + Electrolyte Inlet</b>	Total Flow	72 gpm	16.3 m <sup>3</sup> /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
<b>Concentrate Make-up</b>	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 <sub>2</sub>	ppm CaCO <sub>3</sub>	mg/l CaCO <sub>3</sub>	<25.0
pH			5.0 to 9.0
Hardness	ppm CaCO <sub>3</sub>	mg/l CaCO <sub>3</sub>	<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 <sub>2</sub> 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	53.6
460	60	67.0
380	60	81.1
220	60	140.1
415	50	74.3
380	50	81.1
Maximum power consumption 48 kw		

NOTE: All 3 phase power



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