

Operating Parameters¹

Outlet (Dilute) Product Quality > 16 MOhm-cm
 Outlet Product Silica Guarantee Down to < 5ppb
 Recovery: Up to 95%
 Temperature: 40 to 104°F (4.4 to 40°C)
 Feed Pressure: 60 to 100 psi (4.1 to 6.9 bar)
 Dilute Pressure Drop: 20 to 40 psi (1.4 to 2.8 bar)
 Input Voltage: 460VAC 60Hz, 400VAC 50Hz

Material of Construction & Ratings

Welded Frame: Painted Carbon Steel
 Dilute Piping: Sch. 80 PVC
 Concentrate Piping: Sch. 80 PVC
 Flanges: ANSI
 Rectifier: NEMA 4
 Control Panel: NEMA 4
 Control Panel Power: 24VDC

E-Cell 3X Standard Systems

Model	ECell3X-2	ECell3X-4	ECell3X-8	ECell3X-12
Number of Stacks	1 - 2	3 - 4	5 - 8	10 - 12
Type of stack	E-Cell-3X	E-Cell-3X	E-Cell-3X	E-Cell-3X
Flow Rates:				
Product Flow Nominal	44 gpm 10 m ³ /h	88 gpm 20 m ³ /h	176 gpm 40 m ³ /h	264 gpm 59.9 m ³ /h
Range	15 – 56 gpm 3.4 – 12.7 m ³ /h	45 - 112 gpm 10.2 – 25.4 m ³ /h	75 - 224 gpm 17.0 – 50.9 m ³ /h	150 - 336 gpm 34.0 – 76.3 m ³ /h
Concentrate Outlet Flow (Depends on Recovery & Product Flow) ²	0.83 - 7.67 gpm 0.19 - 1.74 m ³ /h	2.50 - 15.34 gpm 0.57 - 3.48 m ³ /h	4.17 - 30.67 gpm 0.95 - 6.97 m ³ /h	8.34- 46.01 gpm 1.89 - 10.45 m ³ /h
Electrode Outlet Flow (Nominal)	0.70 gpm 0.16 m ³ /h	1.40 gpm 0.32 m ³ /h	2.80 gpm 0.64 m ³ /h	4.20 gpm 0.95 m ³ /h
Dimensions:				
Overall Dimensions (Width x Length x Height)	42" x 50" x 84" 1.1m x 1.3m x 2.2m	46" x 75" x 84" 1.1m x 1.9m x 2.2m	64" x 103" x 90" 1.7m x 2.6m x 2.3m	64" x 130" x 90" 1.7m x 3.3m x 2.3m
Inlet Piping	2.0"	2.5"	4"	4"
Product Outlet Piping	1.5"	2.5"	3"	4"
Rinse Outlet Piping	1.5"	2.5"	3"	4"
Concentrate Outlet Piping	0.75"	1.0"	1.5"	1.5"
Electrode Outlet Piping	0.5"	0.5"	0.5"	0.5"
All piping sizes are provided for nominal flow rates at 90% recovery.				
Shipping Weight (Approx.)	2050 lb / 925 kg	3075 lb / 1400 kg	5250 lb / 2400 kg	6190 lb / 3125 kg
Electrical:				
Maximum Output @ 400VDC	10.4 Amps	20.8 Amps	41.6 Amps	62.4 Amps
Connection Requirement	13 kVA	21 kVA	36 kVA	52 kVA

1. Performance, flow rate per stack, recovery and power consumption are all dependent on inlet feed water quality and temperature. An E-Cell projection must be completed for proper system design & for any performance guarantee to be provided.
2. Concentrate outlet flow at 95% max recovery and minimal product flow of 15gpm/stack to 87% recovery and maximum product flow of 28gpm/stack.