



DATA SHEET

STANDARD 800 x 800 VEE BOTTOM ELECTROWINNING CELLS WITH INTEGRAL FUME EXTRACTION

The 800 x 800 vee bottom cell is probably our most popular cell configuration. The 800 x 800 size provides high stripping rates whilst also retaining ease of handling for cathode unloading. The cell bottom has a 12 degree transverse Vee with a slight longitudinal slope to promote sludge drainage. A fume extraction system is integrated into the upper section of the cell.



Parameter	Unit	800 10/9VFE	800 11/10VFE	800 12/11VFE	800 13/12VFE	800 14/13VFE	800 15/14VFE
General							
Manufacturer		Plastic Fabricators (WA) Pty Ltd – (previously trading as Allglass Australia)					
Cell type		Vee bottom with integral fume extraction					
Cell elution circuit		ZADRA or AARL					
Cell Dimensions							
Width (internal)	mm	800	800	800	800	800	800
Length (internal)	mm	1460	1600	1740	1880	2020	2160
Height (internal)	mm	780	780	780	780	780	780
Working volume	m ³	0.92	1.01	1.10	1.19	1.28	1.37
Operating mass	kg	1632	1792	1952	2112	2272	2432
Cell Body							
Material		Polypropylene					
Wall & floor thickness		20					
Integral fume extraction		Yes					
Integral padlockable lid		Yes (lock point each side)					
Busbar material		Copper					
Anode / cathode busbar size	mm	50 x 10		75 x 10		75 x 12	
Inlet nozzle size	mm	DN 110					
Outlet nozzle size	mm	DN 110					
Drain nozzle size (mm)	mm	DN 63					
Overflow size	mm	DN 63					
Fume extraction nozzle size	mm	1 x DN 110				2 x DN 110	
Cell Frame							
Material		Carbon steel					
Protective coating		Cyanide resistant, 2 pack epoxy					

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Operating Criteria							
Optimum cell flow rate	m ³ /hr	16	16	16	16	16	16
Maximum flow rate	m ³ /hr	20	20	20	20	20	20
Optimum cell voltage	V	3 to 6					
Optimum cell current	A	1035	1150	1265	1380	1495	1610
Optimum solution temperature	°C	92-98					
Maximum cell temperature	°C	100°C continuous					
Strip rate	Tonne /day	1.70	1.90	2.10	2.23	2.40	2.55
Efficiency - average	%	84					
Efficiency - maximum	%	98+					
Liquid height	mm	750	750	750	750	750	750
Fume extraction rate	m ³ /min	7.5	7.5	7.5	7.5	11	11
Anodes							
Quantity		10	11	12	13	14	15
Mesh material		316SS Woven Wire, 12.5apt x 4mmØ wire					
Conductor bar material		Copper					
Submerged area	m ²	0.6					
Cathodes							
Quantity		9	10	11	12	13	14
Frame type		Saw tooth (patented)					
Frame material		316 stainless steel					
Conductor bar material		Copper					
Cathode basket material		Polypropylene					
Submerged area	m ²	0.56					
Consumables		Stainless steel stocking 125mm wide x 30m per frame or 2.0kg steel wool per frame					
Transportation dimensions & mass							
Crate length	m	1.90	2.05	2.20	2.35	2.50	2.65
Crate width	m	1.30					
Crate height	m	1.50					
Crated mass	kg	625	700	760	830	900	1000

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