



DATA SHEET

STANDARD 1000 x 1000 “V” BOTTOM ELECTROWINNING CELLS WITH INTEGRAL FUME EXTRACTION

The 1000 x 1000 Sloping Vee bottom cell is a very popular cell configuration. The 1000 x 1000 size allows for higher flow rates and also provides high stripping rates. A fume extraction ports are integrated into the top - rear of the cell. A 75mm drain in the bottom of the cell assists in the final clearing of the cell.



Parameter	Unit	1000-10/9 VFE SL	1000-11/10 VFE SL	1000-12/11 VFE SL	1000-13/12 VFE SL	1000-14/13 VFE SL	1000-15/14 VFE SL
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	1000					
Length (internal)	mm	1460	1600	1740	1880	2020	2160
Height (internal)	mm	1020					
Working volume	m ³	1.4	1.55	1.68	1.82	1.95	2.1
Operating mass	kg	2570	2186	3062	3308	3554	3800
Cell Body							
Material		Polypropylene					
Wall & floor thickness		30					
Integral fume extraction		Yes					
Integral padlockable lid		Yes (lock point each side)					
Busbar material		Copper					
Anode / cathode busbar size	mm	38.2 x 6.5					
Inlet nozzle size	mm	DN 125					
Outlet nozzle size	mm	DN 125					
Drain nozzle size (mm)	mm	DN 75					
Overflow size	mm	DN 75					
Fume extraction nozzle size	mm	1 x DN 110			2 x DN 110		
Cell Frame							
Material		Carbon steel					

Parameter	Unit	1000-10/9 VFE SL	1000-11/10 VFE SL	1000-12/11 VFE SL	1000-13/12 VFE SL	1000-14/13 VFE SL	1000-15/14 VFE SL	
Protective coating		Cyanide resistant, 2 pack epoxy						
Operating Criteria								
Optimum cell flow rate	m ³ /hr	20						
Maximum flow rate	m ³ /hr	26						
Optimum cell voltage	V	3 to 6						
Optimum cell current	A	1620	1800	1980	2160	2340	2520	
Optimum solution temperature	°C	92-98						
Maximum cell temperature	°C	100 Continuous & 105 for short term excursions						
Strip rate	Tonne/day	2.0	2.2	2.4	2.6	2.85	3.1	
Efficiency - average	%	84						
Efficiency - maximum	%	98+						
Liquid height	mm	950						
Fume extraction rate	m ³ /min	7.5			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	0.97						
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	0.91						
Consumables		Stainless steel stocking 125mm wide x 38-45m per frame or 2.5-3kg steel wool per frame						
Transportation dimensions & mass								
Crate length	m	1.90	2.05	2.20	2.35	2.5	2.65	
Crate width	m	1.60						
Crate height	m	1.60						
Crated mass	kg	1080	1160	1240	1320	1400	1475	

Plastic Fabricators (WA) Pty Ltd

ACN 111 529 741

35 Stiles Avenue, Burswood, Western Australia 6100
 PO Box 336, Burswood, Western Australia 6100
 Phone: (61) 8 9470 3799 Fax: (61) 8 9362 6952
 Web: www.pfwa.com.au Email: sales@pfwa.com.au



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