

TECTRON™ Low Profile ME Cells

Product Data Sheet

Vertical conveyor systems place special demands on the selection and operation of ME Cells. The topmost part of an Open Top ME Cell is above the rim of the E-coat tank and can interfere with the hoist. UFS pioneered the use of Closed Top Cells that have Bulkhead Fittings. These lower the profile of an ME Cell to a minimum height above the rim of the E-coat tank.

Benefits

- Overall Cell height is reduced to approximately the diameter of the anolyte tubing.
- Cell can be disassembled with two strap wrenches.
- The uniform anolyte flow pattern promotes enhanced cooling and faster removal of harmful oxygen bubbles.

Features

- Separate connections for anolyte inlet and outlet.
- Electrical connection can be either a standard stud type or optional potted style with no exposed electrical connection.
- Inlet size is smaller than outlet size so that tubing is not reversed by mistake.
- Anode can be rotated without removing or disassembling the Cell.
- Membrane is strong enough to withstand approximately 0.5 bar (5-7 psi) internal pressure.

Design Considerations

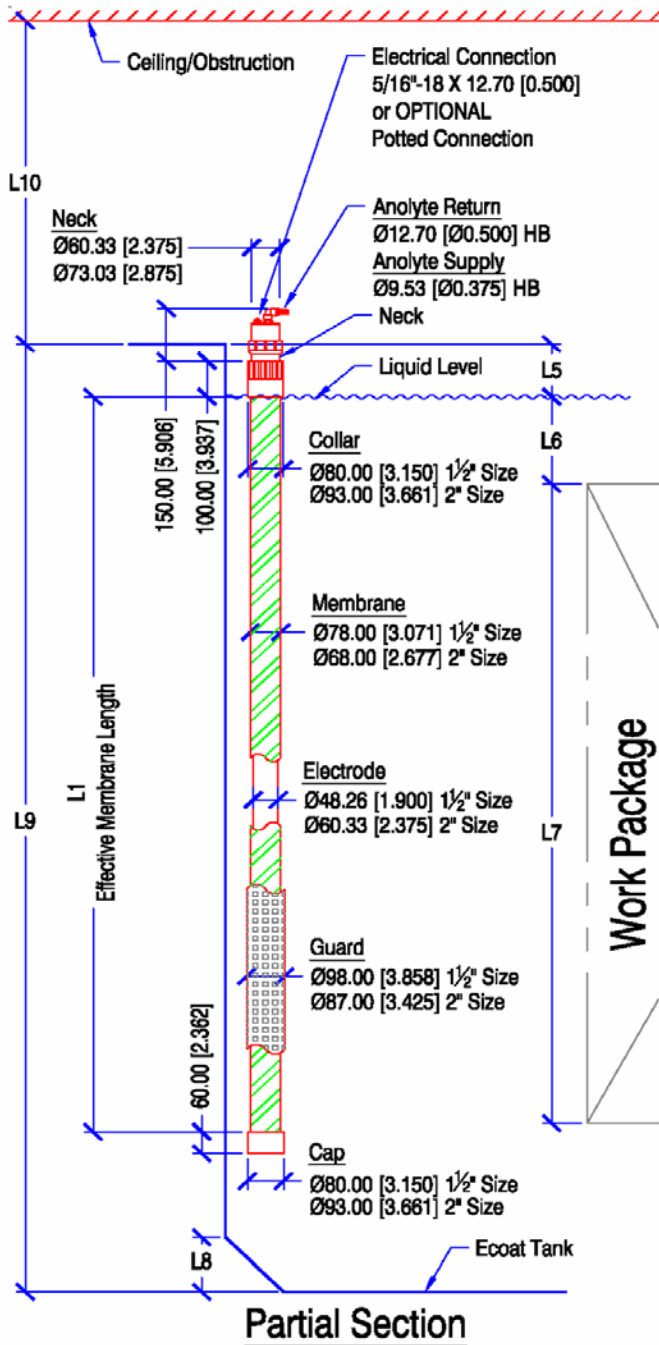
- Top of the ware package should be about 25 cm (10 in) below the rim.
- Drip shield is recommended to protect top and side facing the ware from paint splashes or drips.
- Limit anolyte supply pressure to under 0.5 bar (5-7 psi) to avoid damage to ion-exchange membrane.
- Anolyte return tubing should have a minimum of 2.4 mm (3/32") wall thickness, or be a braided style.
- There should be no restrictions (i.e., kinks) in the anolyte return tubing.
- The return tubing needs to be vented to atmosphere to avoid gases forming inside Cell.

For more information, request UFS Drawing 997115, for drawings of the Bulkhead Fittings now available.



UFS Corporation . 330 North 400 East . Valparaiso, Indiana 46383 USA
+219-464-2027 . +219-464-8646 (Fax) . www.ufsc.com . info@ufsc.com

TECTRON Small Diameter ME Closed Top Cell Proposal



Date:

Quote #:

Ref #:

ME Cell Options List

Ion Exchange Membrane

Type	Form
<input type="checkbox"/> Anion	<input type="checkbox"/> Roll (PTAR)
<input type="checkbox"/> Cation	<input type="checkbox"/> Sheet (PTAN)
	<input type="checkbox"/> Sheet (PTAC)

Electrode Size

1 1/2" 2"

Electrode Type

316L Stainless Steel Schedule 10

316L Stainless Steel Schedule 40

316L Stainless Steel Schedule 80

Precious Metal (PM_)

Membrane Guard

None Premium

Effective Length Small Ø ME Electrodes

Length	1-1/2"		2"			
	mm	in	SM	SF	SM	SF
910	35.83	0.138	1.49	0.172	1.86	
1400	55.12	0.212	2.28	0.265	2.86	
1900	74.80	0.288	3.10	0.360	3.88	
2300	90.55	0.349	3.75	0.436	4.69	
2900	114.17	0.440	4.73	0.550	5.92	

Dimensional Values

L1	1900.00
L2	n/a
L3	n/a
L4	n/a
L5	
L6	
L7	
L8	
L9	
L10	
L11	

mm inches

Recommended Accessories

Flow Meter Splash Guard

Cable Lead Clamps (2per Cell)

Connector Lug Set (1 per every 5 Cells)

PVC Return Tubing - 1.5 M (5 Ft) per Cell

UFS Corporation . 330 North 400 East . Valparaiso, Indiana 46383 USA
 +219-464-2027 . +219-464-8646 (Fax) . www.ufsc.com . info@ufsc.com