

Service Reference

Topic: Keep Membrane Shells Moist

DO NOT ALLOW THE MEMBRANE TO DRY OUT.

Regular ED Tank Dump

Rinse off the side wall of the ED tank and the Membrane Shells with a DI water hose and stand back so there is about 3 m (10 ft) between you and the Membrane Shells. Do this as the liquid level of the ED tank is lowered.

If the ED tank is to be empty for a 3 to 5 days, then do the following

- Keep the electrolyte pump (i.e. anolyte for cathodic ED paint users) working 24 hours a day 7 days week. Do this in order to keep the inside surface of the membrane wetted.
- Once a shift: make sure the electrolyte tank is full or add DI water as required; use the same DI water hose and spray off the Membrane Shells to keep the exterior from drying out too much.
- Do not use high pressure sprayers to clean off the walls of the ED tank as they can damage the fragile membrane.

Extended Regular ED Tank Dump

Read and follow the instructions above. In addition you are encouraged to purchase Poly Sleeves that can be placed over the Cells much like a sock is placed over a foot. The Poly Sleeve is double sealed on one end and has a plastic tie that is used to secure the Sleeve just above the Collar of the Membrane Electrode (ME) Cell in place. See the table below, select the Sleeve by locating the Effective length of your ME Cell. By default, about 0.5 m (~24 in) will be included. The price for each Sleeve is typically less than US \$5.00 and they can be reused except for the plastic tie wrap.

1-1/2" Size & 2" Size TECTRON ME Cell Effective Length		UFS Ordering PN
Metric (mm)	English (inches)	
910	36.1	Z140012
1400	55.1	Z140012
1900	74.8	Z140021
2300	90.5	Z140013
2900	114.2	Z140019

Example: If you use a TECTRON Cell with a 1900 mm Effective Length then order UFS PN Z140021. If you use a Cell with an effective length of 2750 mm then round up to 2900 mm and order UFS PN Z140019.

Long Term Storage of Membrane Shells

Spray the outside of the ME Cells with a D.I. water hose to rinse off paint solids. Remove the ME Electrode (metal portion) and store in a clean environment. It is okay to let the ME Electrode dry out. Remove the ME Shell from the ED tank and immediately store in a long poly sleeve (measuring 200 mm (~8") wide when flat and 0.15 mm (6 mil.) thick minimum) and completely seal (do not use staples – use vinyl tape or a poly bag sealer) both ends to preserve moisture. Select a Sleeve that is about 0.5 m (~24 inches) longer than the overall length of your TECTRON Cell. Use the table below to select the proper Sleeve.

Overall Length of 1-1/2" Size or 2" Size TECTRON ME Cell + 0.5 m (~24in)		UFS Ordering PN
Metric (mm)	English (in)	
2000	78.7	Z140012
2500	98.4	Z140021
3000	118.1	Z140013
3500	137.8	Z140019
4000	157.5	Z140015
4500	177.2	Z140020
5000 or Longer	196.9 or longer	Contact UFS

Example: If you use a TECTRON Cell with an Overall Length of 2350 (92.5 in) add 500 mm (24 in) to it, which would be 2850 mm (116.5 in) and then round up to the next available Sleeve length – or 3000 mm (UFS Ordering PN Z140013).

Do not let the ME Shell dry out. Store ME Shells in the vertical position in order to protect them from being crushed by a heavy object.

For more information see the original manual that came with the equipment or contact UFS using the information at top of the page.