



Installation Reference - Membrane Electrode

Topic: 710 Series - PTOC & PTIC Membrane Shells

Please read all the instructions listed below carefully to familiarize yourself with the project before attempting to perform any of the work.

Required Materials

- 2 x Clamps

Required Tools

- Appropriate Hand Tools for Clamps

These Membrane Shells are also called neutral, since they select based upon size rather than ionic charge. The membrane is fragile so only handle the Membrane Shell by holding it by the Neck, Collar and/or Cap. The membrane is hydrophobic and thus wetting agent on it. This wetting agent allows the membrane to be wet and function as a Cell. If the membrane is ever taken out of the paint bath and allowed to air dry for even a few minutes, then it is likely the membrane will never function properly again. During ED tank dumps, steps must be taken to keep the membrane wet until the paint is refilled (ask for Bulletin #990120). You may want to request Bulletin #997110 for a typical installation diagram.

Instructions

1. Carefully remove the ME Shell from its cardboard box by removing the outer sleeve first. Do not open the bottom of the inner sleeve as you can easily break the Overflow Nozzle. Do not grasp the membrane portion of the ME Shell. Insert the Electrode into the ME Shell before it is placed in the ED paint bath.
2. Fill the ME Shell with D.I. water. Since the membrane has small holes, do not be surprised if some water begins to appear on the outside of the Membrane Shell.
3. Acting quickly so the membrane stays wet, carefully lift the ME Shell with the installed Electrode and place into position. Place the Splash Guard on top of the Neck, if used.
4. Attach the Neck to the horizontal strut channels with two clamps.
5. Attach the Cable Lead Pigtail from the top of the Electrode to the Cable Lead Long Half.
6. Add enough neutralizer to raise the conductivity to 1000 microS/cm.
7. Do not connect the Supply Tubing to the Supply Manifold. The ME Cells can self pump as long as the current flows through the ME Cell.
8. Attached the Retrun Tubing to the Overflow Nozzle, direct the other end to the ED paint bath to recycle electrolyte fluid back to the paint bath. Do not connect the Overflow Nozzle to the Return Manifold.

For more information see the original manual that came with equipment or call UFS (219) 464-2027 ext. 24.

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(P/N 993112)

Think and act in a safe manner. Always disconnect power and use a lockout before you work on the E-coat system, or any of the related subsystems. Observe any confined space conditions. Use the appropriate safety equipment and clothing for the task.

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