

# TechCELL Installation Guide

## GATHER THE FOLLOWING TOOLS PRIOR TO STARTING:

- DI Water source, the cells will need to be filled as they are placed into the paint bath
- Utility Knife
- Qty 2 1/2" wrenches
- Qty 2 9/16" wrenches

## INSTALLATION WITH PAINT IN THE TANK

1. Carefully remove the TechCELL shell from its packing, leaving on the plastic bag containing the TechCELL.
2. Wipe off the surface of the anode for the TechCELL and remove tape from the anolyte supply tube. DO NOT USE SUPPLY TUBE TO HOLD ANODE.
3. Install the short Power Cable to the anode tap with the supplied hardware.
4. Carefully insert the anode into the TechCELL shell. Lay shell on a flat, clean area. Start by sliding the anode in the open top of the shell. Once the anode is completely inserted, lift top of the shell no higher than a 45-degree angle and rotate the shell to allow the anode to slide into the remainder of the way in the shell.
5. Carry the TechCELL to the paint tank. Remove the protective plastic bag from the TechCELL.
6. Gather the 2 sets of Unistrut cell clamps for one TechCELL.
7. Lower the TechCELL into the paint bath close to the designated position.
8. Place the clamps around the neck of the TechCELL. The TechCELL should be vertically positioned so that the membrane is completely submerged just below the paint level.
9. Once the TechCELL is secured immediately fill the TechCELL with DI water to a level a few inches below the return nozzle.
10. Attach the 3/8" supply line to the flow indicator after the proper length of the tubing has been determined and trimmed.
11. Determine the proper return tubing length. Attach the 1/2" return line to the TechCELL and then insert the other end into the return manifold.
12. Attach the long power cable to the short power cable. Connect the power supply cable from rectifier to the anode cell power cable (with quick connect).

## INSTALLATION WITHOUT PAINT IN THE TANK

1. Follow the above steps, but do not remove the protective plastic bag from the membrane area. Typically the bag is lowered to a point on the cells neck where interference with the clamps is eliminated.
2. Once the cell is in place; fill the TechCELL with DI water until the paint is being introduced into the tank. Do not let the anolyte (DI) solution in the cells remain dormant for more than 24 hours. Verify that the anolyte circulation system is operational prior to installing the TechCELL units.

## FLOW INDICATOR INSTALLATION

Install by tapping a 1/4" NPT in supply manifold. Install indicator using Teflon tape around threads. Flow indicators should be vertical on the manifold.

## POWER CABLE INSTALLATION

1. Attach the lug connector to the buss bar in a location that allows multiple TechCELL long Power Cable connections. Typically one every 5 feet on the buss bar is adequate.
2. Install the long Power Cables to the lug. Typically five Power Cables per 125 Amp lug.