

## Customer Satisfaction Pledge

The employees of UFS Corporation are looking forward to serving the needs of your company & customers in a professional and courteous manner. Here is our Mission. . .

- ◇ We **add value** to our customer's products
- ◇ We **listen** to our customers
- ◇ We **deliver** on time
- ◇ We **act** in a safe manner
- ◇ We **recognize** each person's individuality
- ◇ We **believe** the future is important to us
- ◇ We **build** our reputation one step at a time



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*UFS Corporation*

**Quick Start**

## *Cell Circulation System*



### **Cell Circulation Systems**

- 125L–575L Models

# Mission Statement

UFS Corporation is dedicated to providing quality, innovative solutions to the electrocoating industry. We have over 20 years experience and leadership in finishing system consultation, Membrane Electrode Cell manufacturing, Membrane Electrode System design, on-site service and installation assistance.

## SAFETY

### **Safety is something that cannot be overlooked!**

Please observe all appropriate safety regulations before and during work on the Cell Circulation System and related electrical equipment. As a general rule always use your own lock and key to lockout the DC rectifier before installing or working with any component of the anolyte system.

This quick start provides general installation instructions for the Cell Circulation System. Please read the entire quick start before performing any installation steps.

## ASSEMBLY PHASE

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### D. Electrical Connections to Facility

- Make electrical connections from main power source to circulation pump and control panel.
- Connect both drains to a suitable drain pipe with no pipe reduction.
- Connect supply piping.
- Connect return piping.

## ASSEMBLY PHASE



Photo Six (6)



Photo Seven (7)

### C. Set Control Panel / Electrical Connections

- Using 3-4 ply Teflon tape, screw in sensor shown in photo eight (8) from control panel into discharge assembly tee as shown in photo nine (9).  
(Note: Insure hole in sensor is in the vertical position so that fluid can pass through see photo ten (10).)
- Using blue butt-connectors (included), connect white wires from control panel shown in photo eleven (11) to wires on side of tank. See photo twelve (12).
- Locate control panel on a Unistrut system or wall at eye level within 1.5m (5') of top center of tank. Location should be able to hold control panel with no vibration and be easily accessible



Photo Eight (8)



Photo Nine (9)



Photo Ten (10)



Photo Eleven (11)



Photo Twelve (12)

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## COMPONENTS

### Components Included:



Partially assembled Cell Circulation Tank



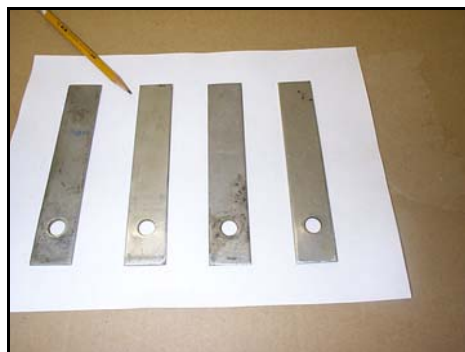
Control Panel



D.I. Pump Assembly



Discharge Piping Assembly



Stainless Steel Hold Downs



Unistrut &amp; Pipe Clamp

## ASSEMBLY PHASE

### General Assembly Notes:

- Read entire quick start first, and always act in a safe manner
- All Dimensions in mm [in]
- Call UFSc if you have a special assembly question that requires special assistance
- UFSc Office: (219) 464-2027
- \*Frederick Hess (219) 405-1106
- \*Steve Jovanovic (219) 405-1252

### A. Set Tank

- Set tank on flat level concrete floor no more than 3m [10ft.] below ED tank.
- To secure tank use stainless steel hold downs as shown in photo one (1).
- Lag bolts and anchors provided by customer.
- If placed on metal ground or floor structure use 1/2" thick rubber isolation pads at corners of tank.



Photo One (1)

### B. Assembling PVC Discharge Piping Assembly

- Insert discharge piping assembly into tank. See photo two (2).
  - Apply 2-3 ply Teflon tape before tightening union to 1-1/2" nipple on tank. See photo three (3).
  - Attach pipe clamp to green Unistrut. See photo four and five (4 & 5).
  - See photos six (6) and seven (7) for discharge piping assembly.
- (Note: Green Unistrut is not attached to tank, it simply rests on top of tank.)



Photo Two (2)



Photo Three (3)

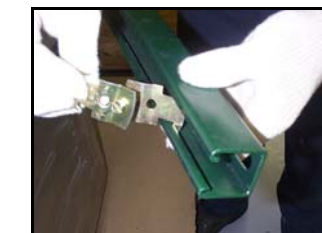


Photo Four (4)



Photo Five (5)