One+™ C Cell Model P5 Extended Life

Product Data Sheet

UFS Corporation introduces the **One+™** C Cell, a unitary-construction semi-circular Membrane Electrode (ME) Cell, designed to meet the needs of automotive E-coat paint systems. This cost-effective design also includes an improved electrolyte flow pattern providing for longer ME Cell life. Flange nuts and bolts which are proven to be typical leak points are eliminated. It has more electrode & membrane surface area than competitive C cells, improved anolyte flow pattern, and no leaks. The **One+** Model P5 C Cell is an Extended Life version since it has 22% more electrode wall thickness that competitive C cells and is for those who want a longer interval between replacements.

Properties

- The Electrode, Membrane and Guard are bonded together in a channel. This design eliminates leak points and creates a single, durable unit for easy start-ups.
- The P5 Electrode is made from 316L stainless steel with a wall thickness of 4.2 mm (0.165 inch), which is 22% thicker than competitive C cells .
- The Electrode has 0.429 m^2/m (1.407 ft^2/ft) of surface area with a 12.7 mm (1/2") hole for electrical power connection.
- Estimated dry weight is 17.2 kg/m (11.5 lbs/ft)
- The ion-membrane is anion-selective for cathodic e-coat paints.
- Anolyte flows from a 1/2" connection to two internal inlets — one on each side of the electrode provide enhanced anolyte flow over the surface of the Electrode.
- It has a 1" NPT electrolyte return connection
- Current density of 32 - 54 amp/m^2 (3 - 5 amps/ft^2) is typical at 200 - 400 volts.
- Recommended electrolyte flow rate is 8 lpm/m^2 (~2.0 gpm/10 ft^2) per ME Cell at 3– 3.5 bar (45– 55 ft) of head.
- Rim bracket is a universal design that allows for adjustment to fit over the typical square bar welded to the rim of the E-coat tank.

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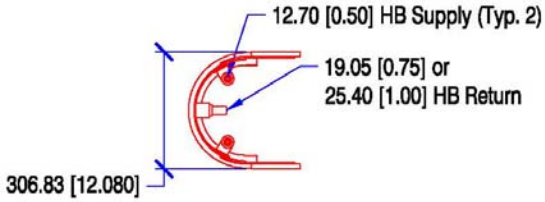
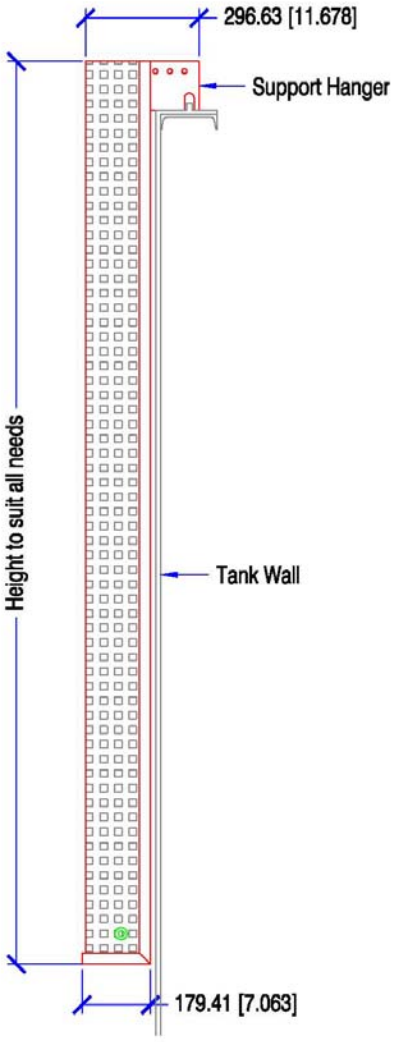
One+ C-Cell



Top View



Side View

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