The S-Systems ELECTROLYTIC IN-TANK REGENERATION SYSTEM is especially designed equipment for the efficient regeneration of permanganate in the Shipley CIRCUPOSIT® MLB PROMOTER 213 or 3308 solution. S-Systems ELECTROLYTIC IN-TANK REGENERATION SYSTEM is specially designed to provide improved efficiency and low maintenance. The narrow profile provides easy installation into most existing tanks, thereby eliminating costly pumps and plumbing. This feature also eliminates potential safety problems concerned with pumping hot corrosive liquids.

PRODUCT FEATURES

- Narrow Profile for In-Tank installation on most systems.

- Uses no chemical additives which build excessive salts. As a result, maintains constant specific gravity.

- No pumps or costly plumbing to maintain.

- Reduces chemical cost (make up for dragout and evaporation only).

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For automatic rectifier operation, an S-Systems Electrolytic In-Tank Regeneration System can be connected to an SE-201 Single Channel Controller. The following diagrams show how to make the interface connections. See Figure 1 for single phase rectifier and Figure 2 for a three phase rectifier.
WARNING!

1. The use of hypochlorite to aid regeneration can DAMAGE this regeneration unit.
2. Prolonged or repeated immersion in acidic neutralizers for cleaning will erode the electrodes.
3. Improper connection of the rectifier will DAMAGE this regeneration unit.

For proper size, order from the following table. If custom size is required contact S-Systems for more information.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>L (in.)</th>
<th>W (in.)</th>
<th>T (in.)</th>
<th>C (in.)</th>
<th>SL (in.)</th>
<th>I Max (A)</th>
<th>E Min (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>75096</td>
<td>Round</td>
<td>35 1/2</td>
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<td>150</td>
<td>0-12</td>
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<tr>
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<td>Round</td>
<td>31 3/8</td>
<td>6 1/2</td>
<td>3 5/8</td>
<td>1 7/8</td>
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<td>19 3/4</td>
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<td>2 15/16</td>
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<td>2 5/8</td>
<td>2 15/16</td>
<td>150</td>
<td>0-12</td>
</tr>
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</table>

NOTE: L and SL dimension may vary + or - 1/4 in.

TYPICAL INSTALLATION INSTRUCTIONS FOR S-SYSTEMS ELECTROLYTIC IN-TANK REGENERATION SYSTEM

1. Remove the splash cover from the top of the regeneration unit.
2. Mount the unit inside the work tank by either clamping or bolting it to the tank flange.

   NOTE: Since the configuration of the tank wall (i.e. size of the flange) is a variable, no mounting holes are drilled; if the unit is to be bolted, holes must be drilled as desired in the flanges of the regeneration unit and tank.

3. Connect the positive (+) output from the rectifier to the copper buss which connects to the anode screen or plate by inserting the cable through the hole in the buss and tightening with the set screw.

4. Connect the negative (-) output from the rectifier to the copper buss which connects to the copper cathode rods in the manner described in step three.
Figure 1

TYPICAL HOOK-UP FOR A SINGLE PHASE RECTIFIER TO THE SE-201 CONTROLLER

Figure 2

TYPICAL HOOK-UP FOR 3 PHASE RECTIFIER TO THE SE-201 CONTROLLER

NOTE: If your rectifier requires a remote normally open contact to start and stop rectifier, the SE-201 controller can be modified for this type of operation. Consult S-Systems.

S-SYSTEMS
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