PPE Small System Cleaner is expressly formulated to dissolve and suspend the sludge and carbon lumps frequently produced in hot oil temperature control units where petroleum or glycol-based heat transfer fluids have been used. The fluid is a multi-component synergistic that is compatible with any mineral oil-based thermal fluid, and many of the synthetic fluids as well.

PPE Small System Cleaner can be reused after solid matter drops to the bottom of the container or is filtered out. When the fluid is finally spent, the fluid can be combined with other common part-washing liquids and disposed of conventionally.

**Instructions for Fluid Use**

1. Drain existing fluid while warm if possible.
2. Replace drain plug with ball valve.
3. Fill system with Small System Cleaner so that reservoir tank has approximately 1" to 2" of fluid in bottom, or enough to start pump.
4. Circulate cold for 3 to 4 hours. If reservoir needs to be cleaned, run discharge hose into tank through bottom, or enough to start pump.
5. Let system soak overnight.
6. Start system up and circulate from 1 to 4 hours. Fluid works faster when warm. Heat to maximum of 150°F if possible.
7. Turn off heat and allow fluid to cool with pump running.
8. When fluid temperature reaches ambient, begin to drain fluid while pump is operating. Shut off pump when pressure begins to fluctuate. Continue draining system.
9. Fill system with Non-Fouling Heat Transfer Fluid or any compatible brand and restart system.
10. One week after startup, send sample to fluid supplier for testing.

**Ingredients**

- **Max. recommended use temperature**: 550°F
- **Max. temperature**: 150°F
- **Restores system performance**
- **Compatable with any mineral-oil based fluid**
- **Works cold or warm**
- **Add to your existing fluid and clean while your system runs**
- **Dissolves sludge as system runs**
- **System in use will not contaminate the new fluid**

**Table: Approx. Shipping Weights**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>CONTAINER SIZE</th>
<th>QUANTITY PRICES</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC0705</td>
<td>5 GAL.</td>
<td>$195.00 ea.</td>
</tr>
<tr>
<td>SC0755</td>
<td>55 GAL.</td>
<td>$1610.00 ea.</td>
</tr>
</tbody>
</table>


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**PPE Large System Cleaner for Large Systems - On the Fly**

PPE Large System Cleaner is specifically formulated to dissolve and suspend sludge deposits that can reduce flow, and thus heat transfer, in larger continuously-operated systems. Compatible with mineral oil based fluids, it operates while the system does, eliminating the downtime involved with flushing fluids or chemical cleaning agents.

**How Much Large System Cleaner to Use**

- Time cleaner will remain in your system:
  - less than 2 weeks ............ 10%
  - 2 to 4 weeks .................. 5%
  - more than 4 weeks ............ 3%

**Instructions for Fluid Use**

1. Install a 60 mesh screen in the Y-strainer to catch any large lumps that break loose.
2. Drain the equivalent amount of fluid from the system before adding the Large System Cleaner.
3. Add Large System Cleaner slowly using a positive displacement transfer pump and hoses of appropriate temperature range. Either pump the cleaner fluid directly into system (near pump suction if possible) or pump into expansion tank and drain into system.
4. Allow cleaner to circulate until all loops are at operating temperature. Run system normally. Minimum suggested time is 3 weeks, maximum time is 1 year.
5. Clean Y-strainer screen as necessary.
6. To drain cleaner and fluid, shut off heater but allow pump to circulate until system temperature is cool enough to handle (180 to 200°F). Do not turn off pump and allow system to cool as this will permit particles to settle out and contaminate the new fluid.
7. Drain system with pump running. Continue to run pump until it begins to cavitate or the low pressure switch shuts it off.
8. Continue draining as quickly as possible. Any delay will allow sludge to settle out in the piping where it will contaminate the new fluid.
9. Fill system with Non-Fouling Heat Transfer Fluid or any compatible brand and restart system.
10. One week after startup, send sample to fluid supplier for testing.

**Table: Approx. Shipping Weights**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>CONTAINER SIZE</th>
<th>QUANTITY PRICES</th>
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</thead>
<tbody>
<tr>
<td>LC0801</td>
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<td>$75.00 ea.</td>
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<td>LC0805</td>
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<td>$295.00 ea.</td>
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<tr>
<td>LC0855</td>
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<td>$2750.00 ea.</td>
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