Critical Point Dryer

Manager: Sam Wright
Backup: Rob Ilic
Backup: 254-4836
Backup: 254-4894

Safety
- Ensure the chamber lid is properly tightened
- Be familiar with the Emergency Shutdown Procedures (In case of a leak). These are in the manual.
- No buddy requirements

Process Restrictions
Material Restrictions
- No Biological Materials
- No acids or acetone
- Only materials that are compatible with alcohols

Parameter Restrictions
- Do not attempt to load samples without the proper holder

Scheduling / Sign-up Restrictions
- None

Requirements (Do Every Time)
- Log cylinder weights on the log sheet before and after each run
- Empty condenser of any alcohol (Be sure to close valve when condenser has drained)
- Clean chamber spacers before and after each run
- Replace chamber lid and finger tighten nuts when finished

Prohibitions (Never Do)
- Do NOT attempt to open chamber when pressure gauge is above 0

Common Problems

<table>
<thead>
<tr>
<th>Problem:</th>
<th>Root Cause:</th>
<th>Solution:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Chamber will not cool properly</td>
<td>- Cool Cylinder below 180 lbs</td>
<td>- Contact Staff</td>
</tr>
<tr>
<td>- Base pressure below 700 psi</td>
<td>- Chamber cylinder below 180 lbs</td>
<td>- Contact Staff</td>
</tr>
<tr>
<td>- Will not reach critical point</td>
<td>- Chamber and/or Cooling cylinder below 180 lbs. Leak in system.</td>
<td>- Contact Staff</td>
</tr>
</tbody>
</table>

Other Comments or Cautions

Calls to staff phones will be automatically forwarded to their cell phones during accessible hours. At other times leave a message or send them an email.

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