Harrick Plasma Generator

Manager: Beth Rhoades
Backup: Aaron Windsor

Safety
- RF energy present

Process Restrictions
Material Restrictions
- No flammable materials

Parameter Restrictions
- Normalize the chamber to room pressure before opening the door

Scheduling / Sign-up Restrictions
- None

Requirements (Do Every Time)
- Log your usage on the tool log sheet

Prohibitions (Never Do)
- Do not leave the chamber under vacuum when not in use.
- Do not turn on the RF power when the chamber door is open.

Common Problems

<table>
<thead>
<tr>
<th>Problem:</th>
<th>Root Cause:</th>
<th>Solution:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Pump does not switch on</td>
<td>- Using the wrong switch</td>
<td>- Turn the pump on and off at the powerstrip.</td>
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<tr>
<td>- No plasma generated</td>
<td>- No vacuum applied</td>
<td>- Evacuate chamber for 15 - 45 sec before powering the RF.</td>
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<tr>
<td>- Weak or inconsistent plasma</td>
<td>- Improperly adjusted 3-way valve for room air</td>
<td>- Completely close the valve and then open very slightly until the glow is maximized</td>
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<tr>
<td>- Treated samples will not adhere</td>
<td>- Plasma applied for too little or too long of a period</td>
<td>- Start with 30-90 seconds and then optimize for your sample</td>
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</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.