

Harrick Plasma Generator

Manager: Beth Rhoades
Backup: Aaron Windsor
Backup:

Work Phone
 254-4918
 254-4831

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.

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

Problem:

- Pump does not switch on
- No plasma generated
- Weak or inconsistent plasma
- Treated samples will not adhere

Root Cause:

- Using the wrong switch
- No vacuum applied
- Improperly adjusted 3-way valve for room air
- Plasma applied for too little or too long of a period

Solution:

- Turn the pump on and off at the powerstrip.
- Evacuate chamber for 15 - 45 sec before powering the RF.
- Completely close the valve and then open very slightly until the glow is maximized
- Start with 30-90 seconds and then optimize for your sample

Other Comments or Cautions