NEMO Name: UV-Ozone-Cleaner

Location: 8U/2U
Purpose: Substrate Cleaning, UV Curing
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Introduction

The UV-Ozone-Cleaner-CR is a substrate cleaning tool that utilizes ultraviolet lamps within a highly reflective chamber to produce ozone from atmospheric oxygen. This tool is especially useful for cleaning substrates with smaller amounts of organic material, and cleaning substrates that are very sensitive to surface imperfections. This tool should not be used to remove bulk amounts of photoresist.

Safety

- Do not try to defeat any interlock on the system – oxidizers (O_3 / ozone), elevated temperatures, and ultraviolet (UV) lights are contained within the system.
- If you encounter any equipment problems while operating the system, contact the technical staff in charge of the system. Do not try repairs on your own.
- **Do not open the door prematurely.** The tool generates a high amount of ozone which is toxic to humans. Wait a minimum of 5 minutes after the UV lamps shut off before retrieving your sample.
- The chamber and samples/lab equipment inside may be hot after a process. Use caution when removing samples and working inside the chamber.

User Qualifications and Responsibilities

- All users must have a PTC approved process to prevent cross-contamination between systems.
- All users shall report any problems with the system via NEMO.

Operating Procedures

Reserve the system prior to use and engage equipment prior to starting your process in NEMO.

1. Engage the tool on NEMO to power it up. The tool is interlocked through its power supply, so you will not be able to use it without engaging.
2. Open the drawer and place your sample inside.
3. Shut the drawer. There is a door switch and the tool will not turn the lamp on unless the door is closed.
4. Ensure there is minimal or no gap present around the door while closed.
5. Set your run time with the controller.
6. Press the white button on the right side of the tool to start.
7. **ATTENTION: OZONE IS HAZARDOUS TO HUMAN HEALTH AND SAFETY. WAIT A MINIMUM OF 5 MINUTES AFTER THE LAMP SHUTS OFF BEFORE OPENING THE DOOR. THIS ENSURES ALL OF THE OZONE IS EVACUATED FROM THE TOOL.**
8. After waiting 5 minutes for the ozone to clear out, you may open the door and remove your sample. Be careful, contents may be hot.
9. Leave the door closed and disengage from NEMO when finished using the tool.