

GENERAL PROCESS AND OPERATION SPECIFICATION

Samco UV Ozone Cleaner UV-1

I. SCOPE

The purpose of this document is to describe the requirements and basic operating instructions for Samco UV Ozone Cleaner UV-1. This tool is intended for general purpose use to remove the organic contaminations from the surface of different substrates. The operating temperature is from room temperature to 150°C. It can clean the substrate ranging from small pieces to 6-inch.

II. SAFETY

- a. You must be trained and signed off to use this equipment.
- b. This tool can produce UV radiation and ozone. Use caution when interacting with the various components of this tool.
- c. If you are unsure about any procedure or indication while operating this equipment, contact a staff member or trainer for assistance.

III. OPERATION



1. Start the iLab connection and turn on the transformer.
2. Press the “MAIN” power button on the operational panel to turn on the machine.
3. Press the “OZONE GENERATOR”, “UV LAMP” and “PURGE” buttons if they are on.
4. If you want to use it at room temperature, turn off the button of “HEATER”.
5. Open the chamber, load the sample onto the platen and close the chamber.



6. Turn on the “HEATER” and set the temperature. The maximum temperature setting is 150°C.
7. Set up the timer.
8. Wait for the temperature to reach the setpoint.
9. Press the buttons of “OZONE GENERATOR” and “UV LAMP”.
10. Press the “START” button to start the process.
11. Set the flow of O₂ if it is needed. The flow setpoint of O₂ is usually 0.5L/min.
12. After the process done, the button of “PURGE” light will be on to purge the chamber using nitrogen for 3 minutes.
13. Turn off “OZONE GENERATOR”, “UV LAMP” and “HEATER”.

14. After the “PURGE” button off, open the chamber and remove the sample from the platen.
Be careful to pick up the sample because the platen is still hot if you run a high temperature process.
15. Set the “HEATER” to 25°C after high temperature process is done.
16. If it is necessary to stop the process before the time set on the digital timer has expired, press “RESET”. However, no automatic nitrogen purge of the chamber will commence.
You must perform a manual nitrogen purge by pressing the button of “PURGE”, wait for 3 minutes and turn off the button.
17. Turn off “MAIN” power button and the transformer.
18. Input the log sheet and stop the iLab connection.

Approvals:

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Revision History:

Revision	Author	Date
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