

## Modifying the Deposition Temperature in a Personal Recipe

### Standard Temperature in PECVD2: 300°C

#### Setting the Temperature to a Lower Value

1. **Vent /Open the lid**, and leave it open.
2. Go to **Process** /Find the **Recipe** you want to run
3. Click on **Recipes/Load** the Recipe you want to run
4. When recipe loaded-click on the first step in your recipe (<**Initial**>).
5. Change the Electrode Temperature from 300°C to the desired temperature (e.g., 150°C).
6. **Leave the box next to 150°C unchecked (see the Photo1)**
7. Click on the "Save" option
8. Go back to **Process**/Select the recipe with new temperature
9. Click on "**Set Recipe Temps**" in the lower-left corner.
10. Ensure the **Setpt T** =150C, and **Actual T** is decreasing (see the Photo2)
  - Cooling down may take up to 45 minutes.
  - The process will start once the T is at 150C
11. **Close the lid** and **Pump down** the chamber.
12. Double check if the Temperature is correct
13. **Start** your process at the new Temperature.
14. After the process is complete:
  - Vent the chamber, open the lid, and unload your substrate.

#### Setting the Temperature back to 300°C

1. Ensure the **The Lid is Open**.
2. Go to **Process**/Find the **Recipe "STD CH<sub>4</sub>/O<sub>2</sub>"** /Select it [Highlight]
3. Go to **Recipes/Load**
4. Click on the <**Initial**> step.
5. Verify that the **Electrode Temperature** is 300°C, and **Actual Temperature will still be 150°C**
6. Return to the **Process** menu
7. Select the "**STD CH<sub>4</sub>/O<sub>2</sub>**" recipe.
8. Click "**Set Recipe Temps**" in the lower-left corner.
9. Ensure that the **Setpt T** =300C, and **Actual T** is increasing.
  - Heating up may take up to 10 minutes.
10. **Close the lid** and **Pump down** the chamber.
11. **Start** the clean process for the required duration
  - The clean will start once the T is back to 300C

Photo1

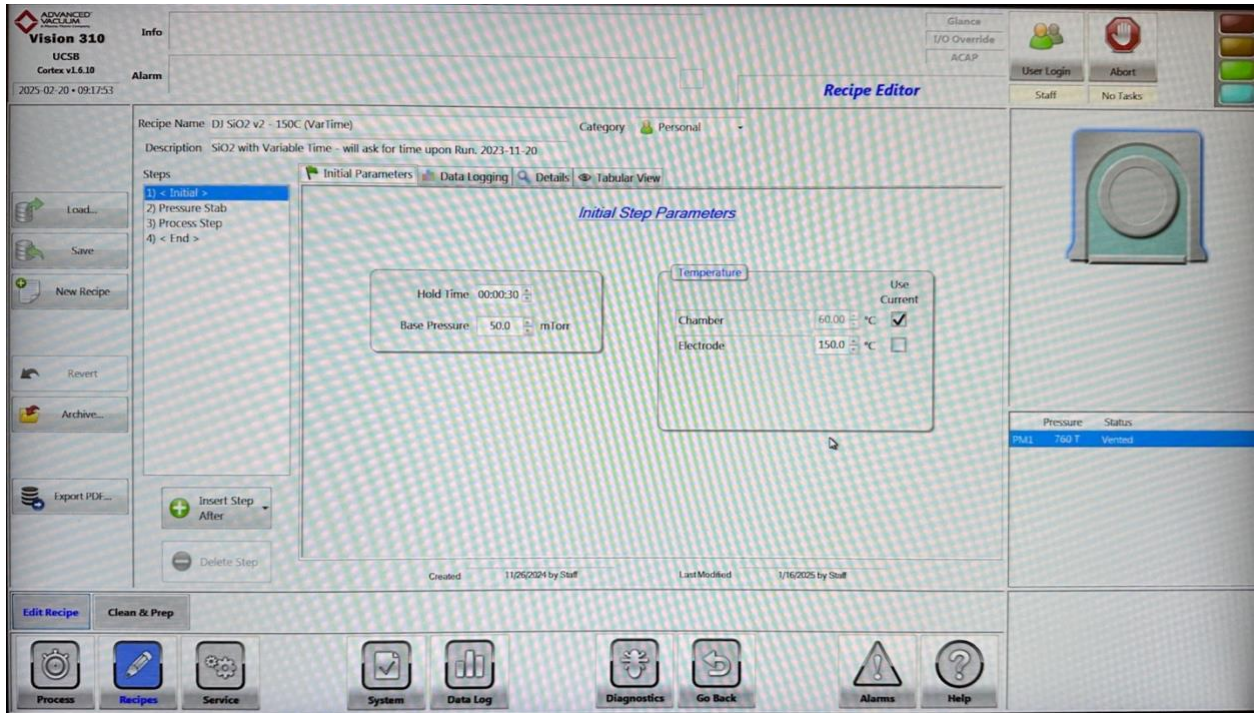


Photo2

