VAPOR PRIME USING YES OVEN SOP

Feb 2016

Purpose: To prepare the surface of a wafer for photoresist application by coating with HMDS primer.

YES System Start-up:

Log in to the tool by using FOM, it will turn on vacuum pump.

Vapor Prime:

1. Turn HMDS/NH$_3$ valve to HMDS position (located behind glass cylinder, short end of knob indicates valve selection)
2. Select 1 on the Thumbwheel.
3. Press S.P. on the controller and check each set point

Recommended Settings

| Set point 1 (Display Set Point) | 600 Torr |
| Set point 2 (Set Point 2)      | 10 Torr  |
| Set point 3 (Alarm 3 Low Limit)| 1 Torr   |
| Set point 4                    | no recommendation |
4. Using the touch screen press:
   GOTO Alarms Panel
   GOTO Process Variables

5. Enter Process Variables

Recommended Process Variables:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of dehydration cycle purges</td>
<td>3</td>
</tr>
<tr>
<td>Number of exit cycle purges</td>
<td>5</td>
</tr>
<tr>
<td>Process duration</td>
<td>300 seconds</td>
</tr>
</tbody>
</table>

6. Press GOTO OPERATOR PANEL

7. Load samples

8. When oven has stabilized at set temperature, press **START**

9. When process is complete, acknowledge the alarm by hitting reset button on the touch screen.

Total time for the recommended process is approximately 31 minutes

**Shutdown:**

Don’t forget to logoff from the tool using FOM which will turn **OFF** the vacuum pump.