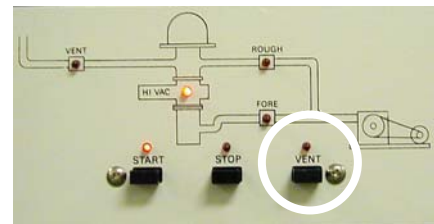
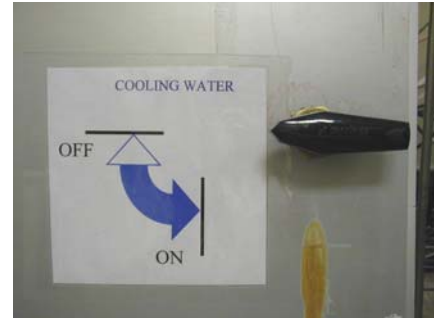


# VENT & UNLOAD OPERATING PROCEDURE CHA Metal Evaporation System

Rev. 11/28/2001

## Cool Down and Vent

1. Ensure the **MAIN POWER OFF** and the key lock is **OFF**.  
**WAIT 30 MINUTES FOR THE SYSTEM TO COOL.**
2. Turn **OFF** the **cooling water**.
3. Turn **OFF** the ionization gauge. On the **Ion Gauge Controller** press and release the **FILAMENT ON/OFF** switch to turn **off** the filament.
4. Press **VENT** on the left of the **Automatic Valve Control**.
5. Wait for the **VACUUM INDICATOR** light to turn **OFF**. Turn and hold the **HOIST** switch in the **RAISE** position. The bell jar will lift. Release the **HOIST** switch once the bell jar has risen above the substrate holder.



## Unloading

1. Remove substrate holder from the support ring
  - a. Pick up the substrate holder by placing the “dome tool” into the hole in the dome or the hole in the angle on top of the square drop-in.
  - b. Remove the substrate holder from the system. Set the substrate holder onto the tabletop.
  - c. Unload your substrates from the substrate holder. Unload any “dummy” wafers.
  - d. Replace the substrate holder into the dry box.
2. Remove your materials from the hearth.
  - a. **OPEN** the shutter and reach through the shutter opening to remove the materials from the hearth.
  - b. Place the materials back into the proper locations in the dry box.
3. Turn and hold the **HOIST** switch in the **LOWER** position. The bell jar will lower. Release the **HOIST** switch once the bell jar is resting on the collar. Center the bell jar.

NOTE: Store crucible in correct dry box location.

## **Pump down**

1. Using the controller labeled CVC AVC-485:
  - A. Press **START** on the **Automatic Valve Control**
  - B. Wait until the high vacuum LED lights
2. Change the sign on the instrument rack to **UP**.
3. Check the logbook for your entry and indicate completion.

