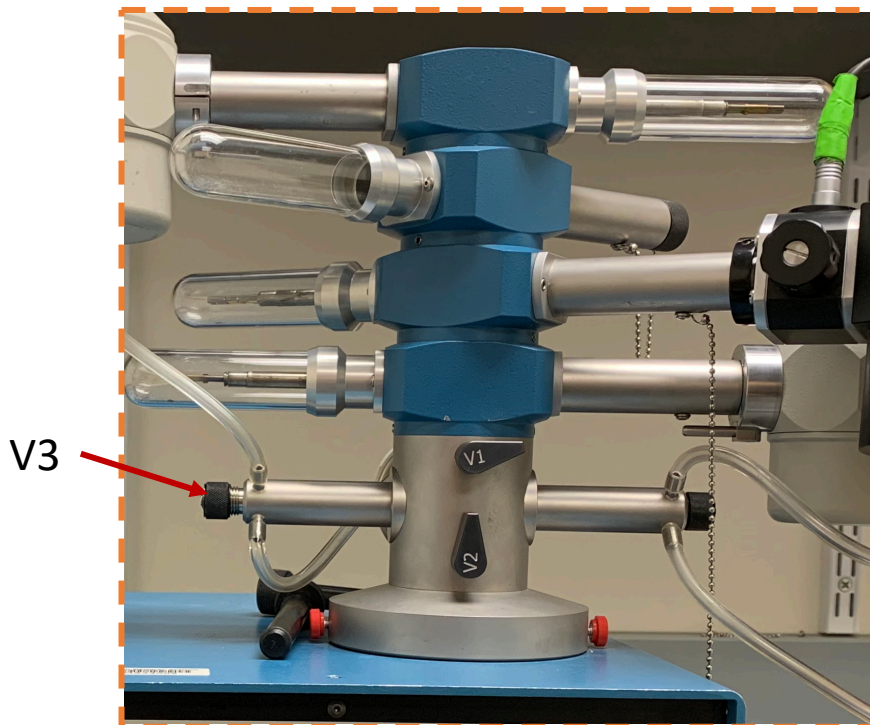


Dry Pumping Station Guide



Your session is finished, time to take care your holder:

PART 1: WARM-UP holder – Process that happens after every session

a. Close all the valves in the correct order (V4 > V3 > V2 or V1 > V2) (even if someone is running a cycle). **All valves should be closed before turning off the DPS. Stop any Zeolite cycle running.**

***It is OK to close V4 and V3 when the holder is in the middle of the bakeout cycle.**

- a. Turn off the station, and wait for the two green LEDs to turn off.
- b. Unplug your port of choice, insert your holder, connect the clear plastic tube to the holder.
- c. Turn on the DPS and wait for the MDP and SYS STATUS green LEDs to turn on.
- d. Then, attached a temperature controller to your holder, open V2 > V1, and start the warm up cycle on your holder's controller box.
- e. **Note warm up start time in the Log Book.**
- f. **When the warm up cycle is finished, start your bakeout as described below. When the needle on the gauge is vertical (around 2×10^{-3} Pa), restart the other holder's bakeout cycle. If there are no other operations that need to be restarted, close V1 > V2 and turn off the DPS.**

PART 2: BAKEOUT holder – Process to prepare for your session or the next morning's session

If you are following a warm-up cycle:

- a. Close V1 on the DPS (if no other warm up cycles are running).
- b. Open V3 (on your holder's side of the DPS) > V4 (on your holder).
- c. Start the Zeolite cycle on the temperature controller.
- d. **Note bakeout start time in the Log book.**

If you are not following a warm-up cycle:

- a. Make sure the clear plastic tube is attached to the holder, a temperature controller is attached, and the DPS is on.
- b. Open V2 > V3 (on your holder's side of the DPS) > V4 (on your holder).
- c. Start the Zeolite cycle on the temperature controller.
- d. **Note bakeout start time in the Log book.**

HELP! The pumping station is on, someone is still baking out their holder and I want to get my holder!

If a warm-up cycle is running, just wait for it to finish. If not, continue below:

1. Close the valve on your holder/s (Valve V4).
2. Make sure V4 on the other holders is also closed.
3. Close both V3 valves on the pumping station.
4. Close valve V2 (V1 should be closed) on the DPS by turning the knobs to the 3 o'clock position.
5. Turn off the DPS. The switch sits behind the instrument at the bottom right.
6. Wait for the MDP and SYS STATUS green LED's on the DPS to turn off.
7. Disconnect the clear tube that connects the holder to the DPS and attach on a dummy plug on the DPS's stem (it is a metal nubbin).
8. With a hand supporting the DPS, gently pull your holder out.
9. Plug the port with a dummy cap.
10. Turn the DPS back on and wait for the MDP and SYS STATUS LED to turn on.
11. Open the valves on the DPS in the following order V2, V3 and V4 (on the other holders)

The Oxford holder bakes overnight. If you are the first person in the morning to remove a holder, you can stop the bakeout on the Oxford holder by closing V4 > V3 > V2 and then turning off the power on the temperature controller. Please note the time you stop that bakeout in the log book.