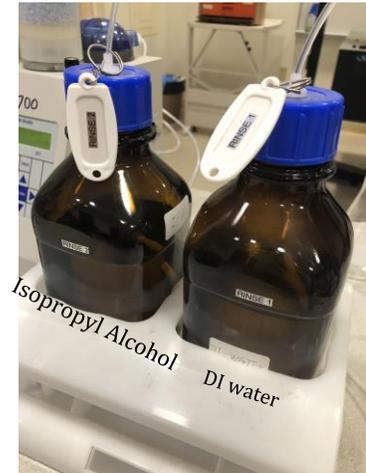
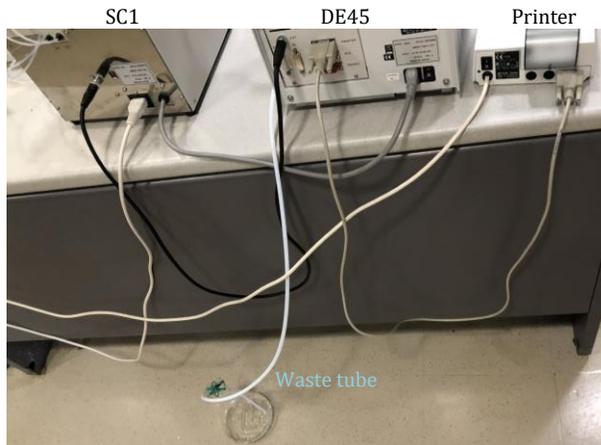


## How to correctly set up DE45, SC1 & accessories:

Rinse 1 & 2:



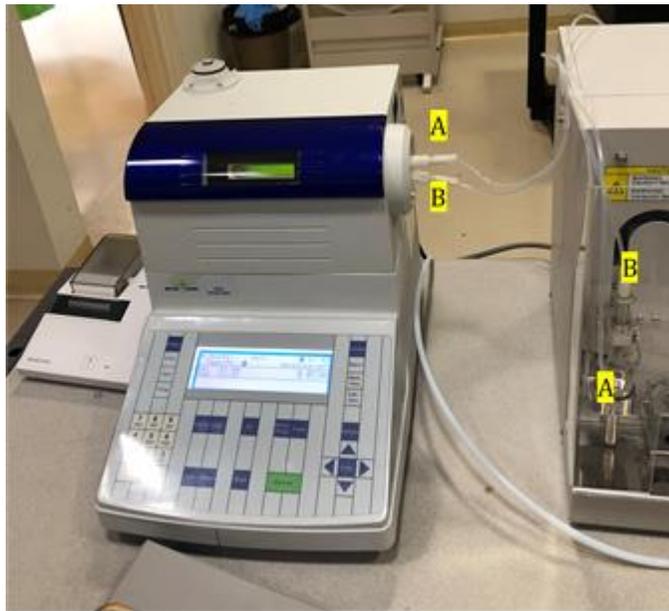
How power cords & waste container connect:



Desiccator



## How SC1 AND DE45 connect:



This picture shows how the tubes from the SC1 connect to the DE45

Tube A: connects from lower part of pump to the top circuit on DE45

Tube B: connects from top of pump to the bottom circuit on DE45

## How to calibrate:

1. Set up apparatus (shown above), check that rinses are connected and place waste tube into container
  - \* Check tightness of all tube nozzles (A&B) (pay special attention to **nozzle A on SC1**)
2. Determine temperature and settings
3. Insert pure water sample into the SC1 (with special bottle and lid)
4. Press Calibrate
  - a. **Purging** will be shown on the screen
  - b. The density of air will appear at the specific temperature chosen (@21°C ~.00117-.00120 g/cm<sup>3</sup>)
  - c. **Calibration** will be shown & the pump will relocate itself to the sample
  - d. **Sampling** is shown and the pump is lifted

- e. **Calibration** will be shown
- f. The density of water will appear at the specific temperature chosen (@21°C ~ .99799 g/cm<sup>3</sup>)
- g. **Draining** is shown
- h. **Then rinse and purge**

### How to obtain a measurement:

1. Put desired sample into SC1
2. On SC1 press  to move pump to sample
3. Press  on SC1 until "Sample Lo" is shown
4. Press  on SC1 until the sample is sent through the green tubes on the DE45 and a decent amount of fluid is taken out of the sample container (until you see the fluid go into tube B and come out from tube A) . Press again to stop
5. Press **Measure** (this will take about 4 minutes)
6. Results will automatically print when measurement is finished and the machine stabilizes to the desired temperature
7. After the measurement is done, press "Rinse/Purge" to clean the tubes before moving on to the next measurement.
8. If "No calibration" is displayed on DE45, redo the calibration (need to calibrate after every 3-4 measurements).

### **To return sample to container:**

1. On SC1 press  to return pump to sample



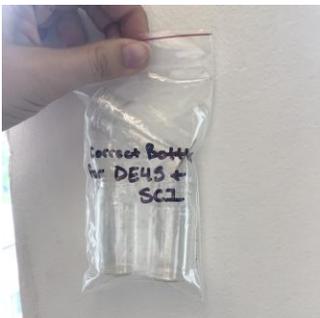
2. Press  on SC1 until "Sample Return" is shown
3. Press  on SC1 until the sample fluid has returned to the container



The star indicates the piece on SC1 that should be tightened after every measurement. The sample will not be able to run through the system and no data will be obtained if this is not tight after every measurement.



Correct lids for sample bottle



Correct bottles for SC1



The necessary lids for SC1  
label for future ordering

