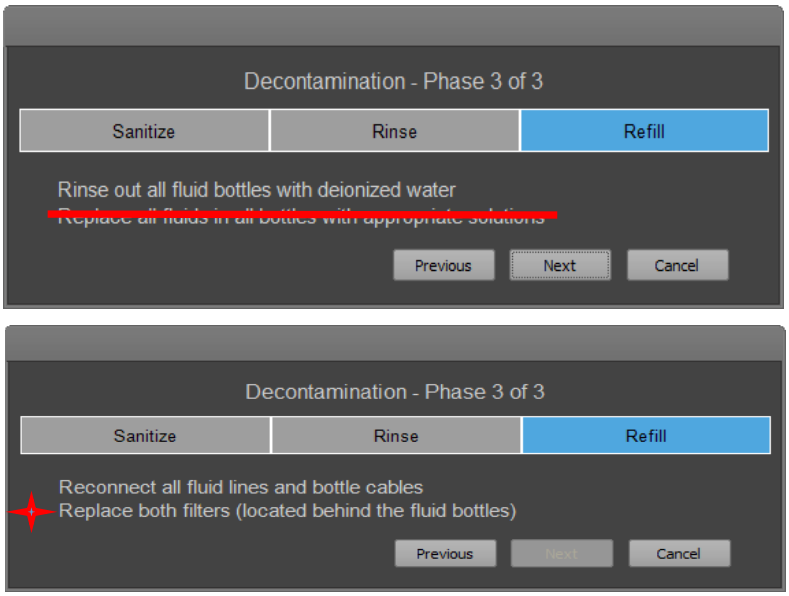
Long Term Shutdown

If you have replacement focusing fluid filters and haven't done so in a while, please run **System Decontamination** script. Note: This script will take longer than a Thorough Shutdown and will require two *new* focusing filters. If running System Decontamination script, follow the instructions in the software and replace new Focusing Fluid Filters at the end of the script. The system is clean and dry after last decontamination step and is ideal for long term storage. **Please note: if the plan is to leave the Attune NxT unused for some time, please do not re-fill the containers in the phase 3 of the Decontamination script; however, please do change the Focusing Fluid Filters.**



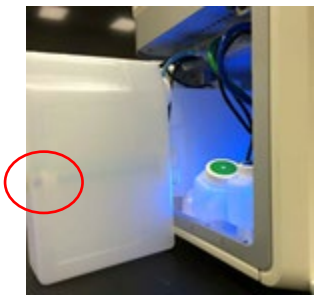
OR

Alternatively, if new Focusing Fluid Filters or for reasons running System Decontamination is not desired, please follow the instrument below. Please follow the instructions in BLUE if Attune Auto-sampler is present and instructions in RED if Cytkick or Cytkick Max is attached to the Attune NxT.

1. Run **Thorough** Shutdown with 10% bleach (or better yet flow cell cleaning solution 1:3 dilution in DI-water if available) to completely decontaminate Attune NxT. **This step decontaminates the system.**

2. Once the Shutdown has completed, empty out the Focusing Fluid Container. Focusing Fluid can be saved in a clean container for use later.
   Attune Auto-sampler: Empty out the Auto Sampler Focusing Fluid container.
   Cytkick/Max Auto-sampler: take the Focusing Fluid out of the fluidic cart and empty the bottle.

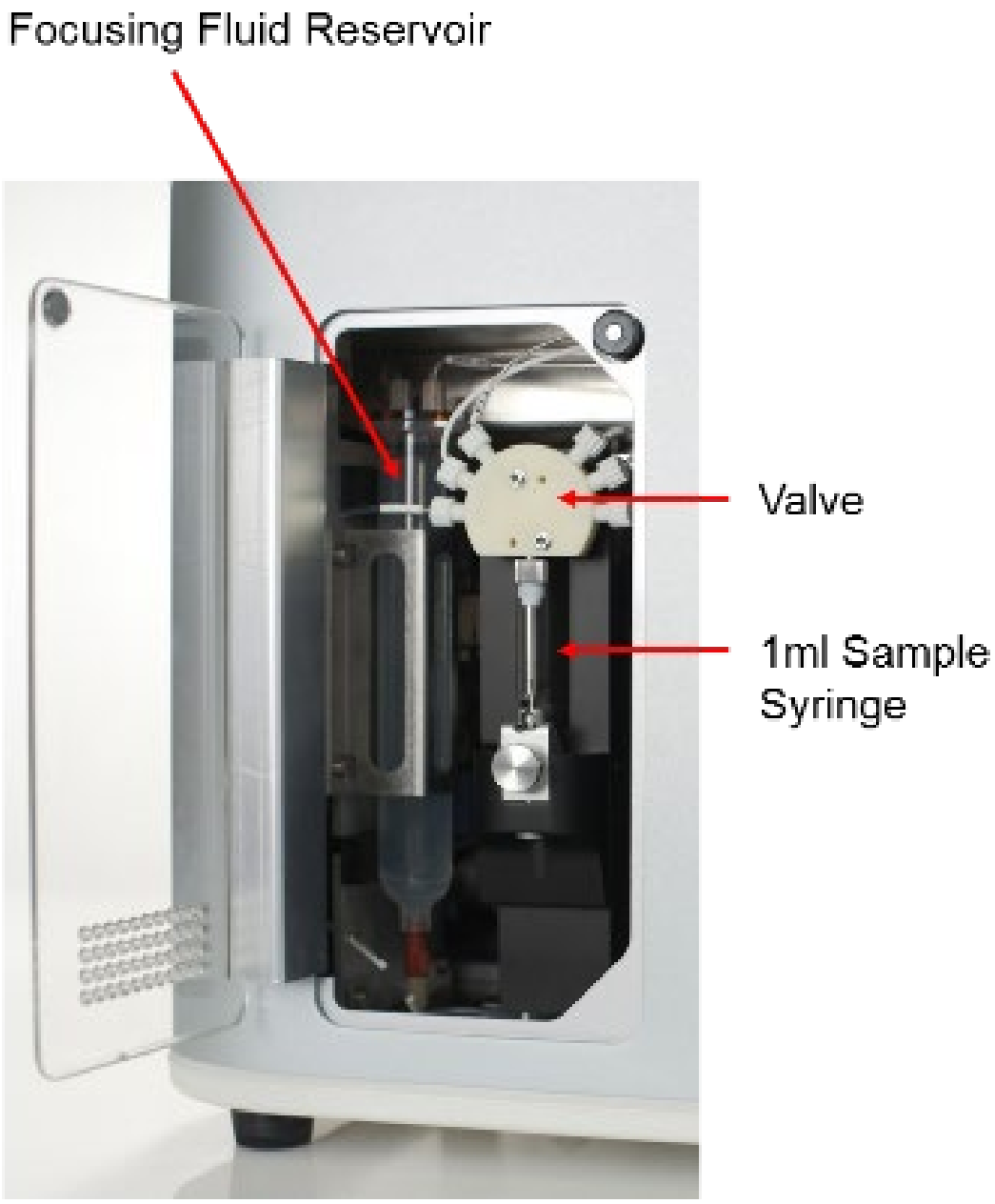
3. Plug the empty focusing fluid container on its side to "trick" the floating focusing fluid sensor so that the container to read as full. If the blue light is still flashing, tip the bottle and tap the bottom so the sensor (see red circle) slides toward the bottle cap.

   For the Attune NxT auto-sampler, connect the Focusing Fluid container and place the container upside down to trick the floating sensor. Cytkick does not have a floating sensor; however, there is sonic liquid sensor that can be tricked into thinking it's full by simply touching it with your finger.

4. Run the Startup script.

   Repeat the Startup script until the Filtered Focusing fluid reservoir located in the back-left corner of the Attune NxT (next to the sample syringe) is empty.



Please note that software may repeatedly show *Error 13 - Fluidic Errors (buffer tank not refilling)* and the startup will stop. Click OK once the error shows up and repeat the startup script. This should take approximately 4-5 startups to empty the Filtered Focusing Fluid Reservoir. **This step will remove the PBS (0.1M Sodium phosphate) out of the system so that crystallization should be less of a problem**

5. Once the Filtered Focusing fluid Reservoir is empty, rinse and fill the Focusing Fluid container(s) with 400ml Milli-Q water if possible or Di-water. Keep adding water until the floating level sensor triggers.

6. The Filtered Focusing Fluid Reservoir in the back corner should start filling up.

If the pump does not turn on to fill the reservoir, run the Startup script or Rinse script. The Filtered Focusing Fluid Reservoir does not need to fill to the top; quarter way is enough.

Then disconnect the focusing fluid tank sensor cable to stop the Focusing Fluid Reservoir tank from filling. **This step flushes the remaining focusing fluid out of the instrument which contains PBS and detergents.**

7. Repeat Steps 2 and 3.

   Repeat running Startup script until the Filtered Focusing Fluid Reservoir is empty. Run an additional Start-up to ensure that the system is completely dry. **The Attune is now ready for long term storage as the instrument is decontaminated, free of salts and dry.**

8. Power off the Attune NxT and the auto-sampler using the switches located in the back. Empty the remaining containers.

Turning on Attune NxT after Dry Storage

9. If the instrument was stored after running the Thorough Shut down script, then the Attune can be re-started by filling the fluidics bottles with the appropriate solutions and running Startup 3 times, De-bubble 2 times and Rinse 1 time.

OR

If the instrument was stored after running the System Decontamination script, replace the Focusing Filters with new filters (if not done earlier), fill containers with appropriate solutions, run Startup 3 times, De-bubble 2 times and Rinse 1 time.