

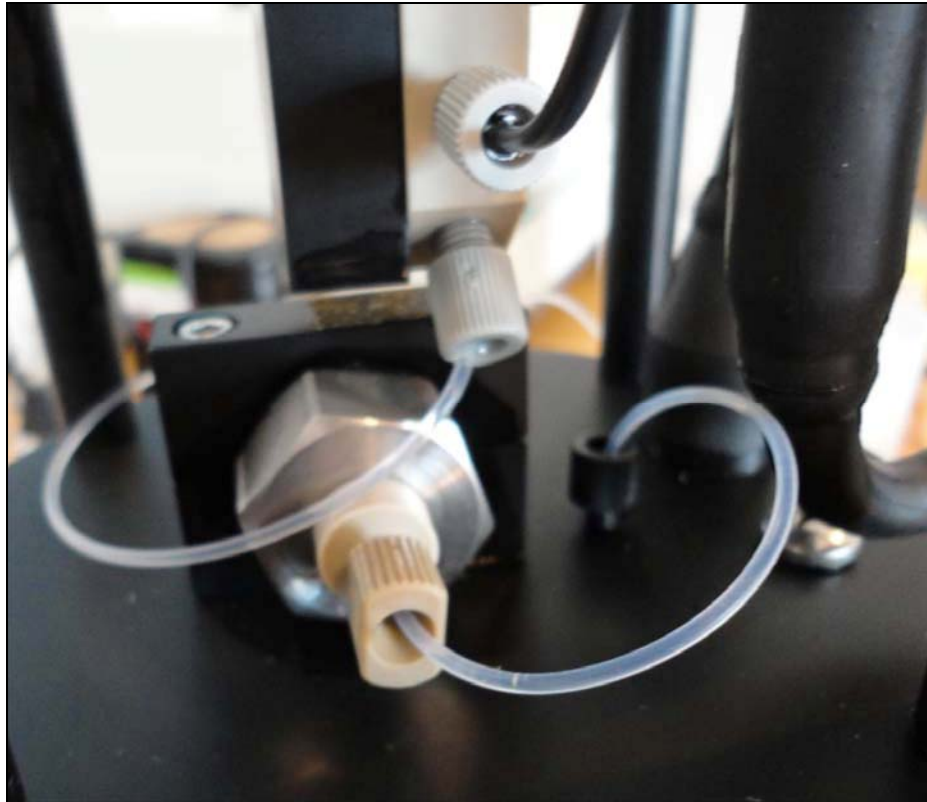
Tech Note: Clearing air-locked or clogged SAMI-pH

An air-lock can occur when the instrument runs samples out of the water allowing air to be pumped into the SAMI. If you are testing the SAMI on a benchtop, be sure to attach a bag of deionized water to the inlet or place the inlet into a beaker of deionized water.

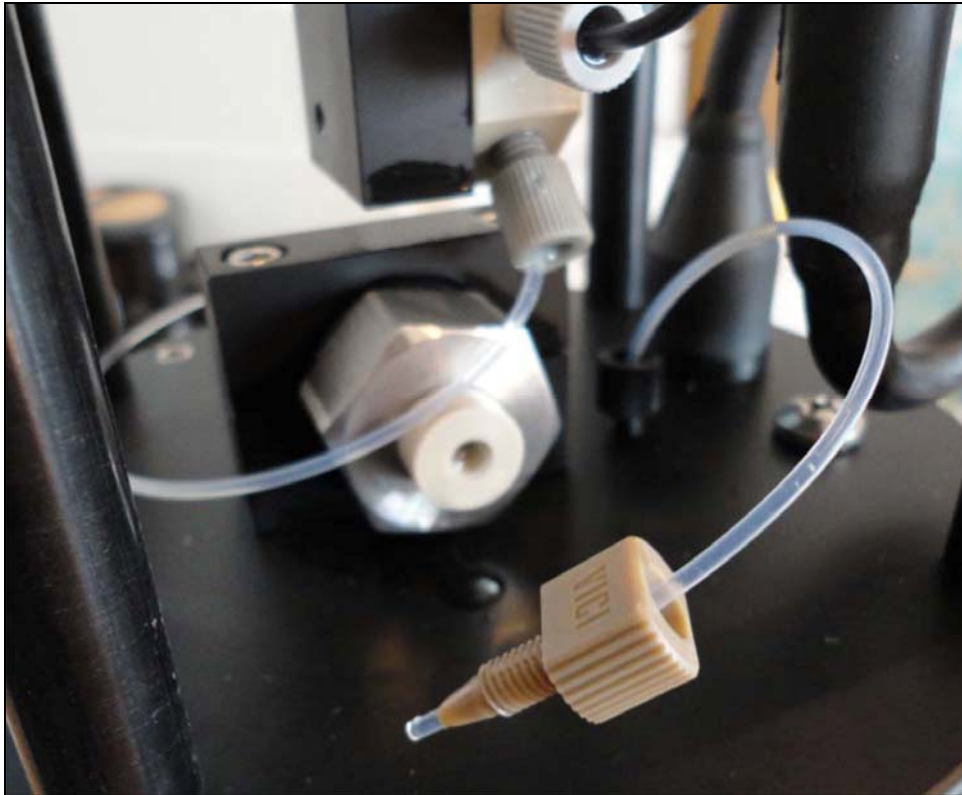
When deployed in water with high amounts of sediments, materials can also cause a clog in the instrument that must be cleared with the steps below.

1. Cut zip ties holding brass cage in place and remove. *Please note locations of the zip ties holding cage in place for later re-attachment.*
2. Disconnect the tan fitting from the mixer unit. It is the tube that connects into the SAMI with the black fitting.

Before

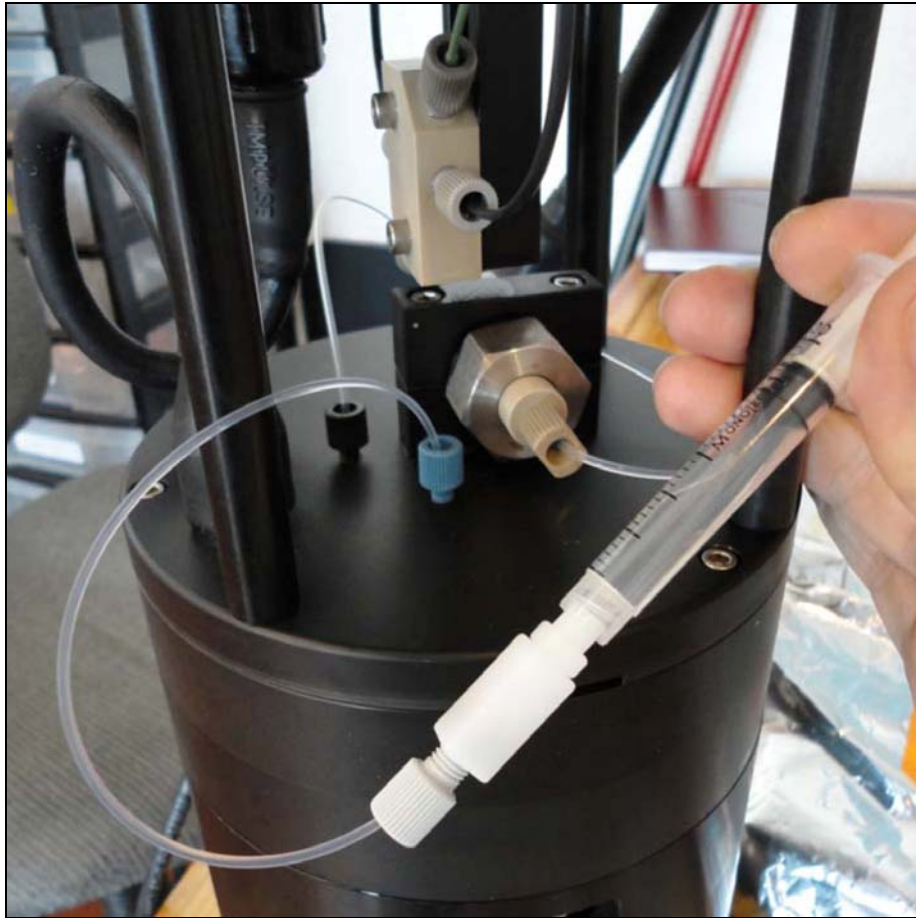


After



3. Fill the syringe with a few milliliters of deionized water and connect to the intake tubing on the SAMI (the tube with the blue fitting).





4. Connect the SAMI to a computer with the client software installed; connect to the instrument and start the software. In the SAMI client software in the “Utility” tab under the “Cycle Pump” section, set the # cycles to 10. Apply a constant pressure to the syringe and click “Run.”

Cycle Pump

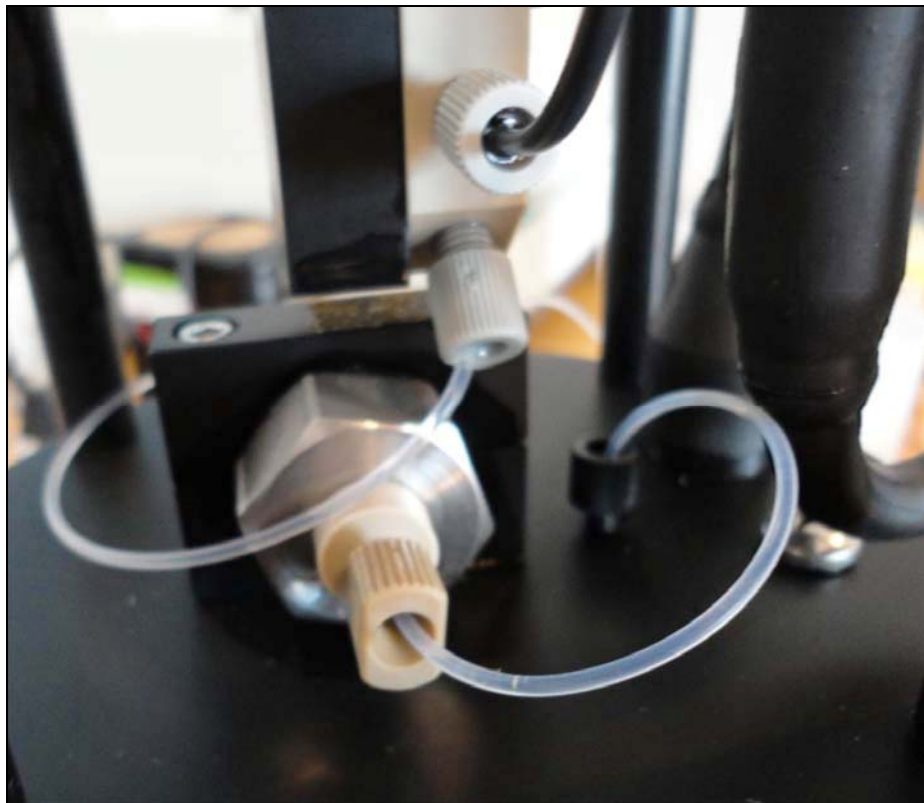
Run # cycles

pH Flush Interval (sec)

Open Valve

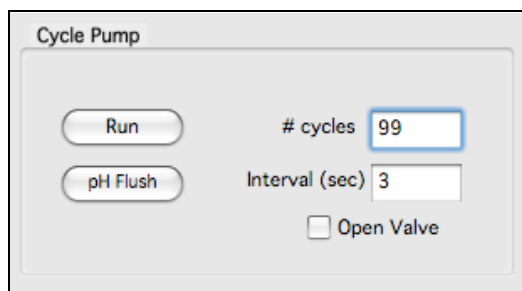
The deionized water should move through the system and come out of the tan fitting removed from the mixer in step #2. This step may be repeated a couple of times. If the water does not move through the instrument, contact Sunburst Sensors for additional technical support.

5. Once water runs through the instrument, reconnect the tubing to the mixer.



6. Insert the intake tubing (the tube with the blue fitting where the syringe was attached) into a beaker with a few hundred milliliters of deionized water.

7. Next flush the SAMI using deionized water from the beaker. In the SAMI software enter the “Utility” tab. Under the “Cycle Pump” section set the # of cycles to 99 and click on “Run.” ***Make sure the intake tube is in the deionized water before pressing the “Run” button.***



The deionized water should move through the system normally. If the water is not moving through the instrument, contact Sunburst Sensors for additional technical support.

8. If the SAMI is functioning correctly, re-attach the brass cage using zip ties. Trim off the remaining tail of the zip tie.