

General

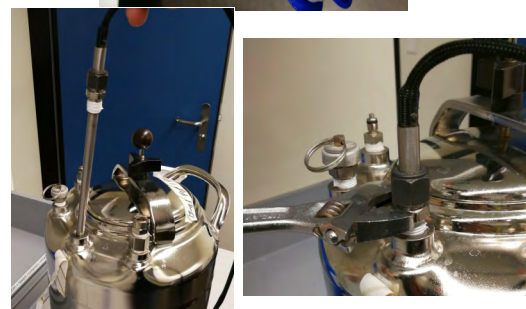
- Please use the tanks until they are nearly empty.
- Do not refill tanks at the instrument but switch to a freshly autoclaved tank instead to prevent any biofilm build up in the tank over time.
- A tank can be exchanged while running the sorter. Simply pause your experiment, switch off the stream, exchange the tank connect a new tank and switch the stream back on.
- **It is your job to refill and autoclave the empty tank** unless a facility staff member will take over this task for you!

Note: The sensor and its attached cable cannot be autoclaved!



I. Assemble full spare tank

- Find screw-wrench and Teflon tape in drawer below the sink.
- Take level sensor out of the EtOH measuring cylinder and wrap screw thread of sensor with ca 2-3 layers of Teflon tape.
- Inserting sensor into spare tank with autoclaved PBS (mind sterile conditions when inserting the sensor) and gently tighten it with the screw-wrench on the **lowest nut** of the sensor to secure it.



II. Exchange tanks at the sorter

- Disconnect empty tank (air, sheath filter and sensor cable) and attach the full autoclaved tank to the sorter.
- Spray the sheath connector with 70% EtOH before connecting the new tank!
- Make sure the pressurized tank does not leak after attaching air supply (otherwise tighten screw of the level sensor or tighten lid).
- Start the stream, switch sweet spot back on, check the position of Drop1 and gap and continue with your experiment.

III. Refill and autoclave the empty tank

- Depressurize the empty sheath tank (carefully pull at the ring)
- Unmount the sheath level sensor (left turn loosen, on **lower nut**) from the used tank
- Store sensor in measuring cylinder with 70% ethanol.
- Find plastic bag with PBS on the sink or in WAD-K-126 (brown cardboard box).
- Refill tank only up to the **upper welding line** on the tank.
- Put autoclave tape with date across the tank's lid and another over the sensor hole in the back.
- Autoclave the tank in room WAD-K-127. Do not forget to insert the autoclave's temperature sensor into the tank through the sheath level sensor hole. Also check that there is some tape next to it for later covering.
- When moving the tank out of the autoclave cover the sheath level sensor hole and store the tank below the table in room WAD-K-104



Important: Only install sensor right before connecting the fresh tank to the sorter because the sensor is a potential source of contamination.