

1. Configure syringe pump for your addition

- Syringe pumps are very useful for slow and precise additions, when an addition funnel would not be appropriate
- Our syringe pumps are stored in RAL 273, in the cabinet underneath the GC
- From the main menu, set the “volume”, “rate”, and “diameter” values so the syringe pump adds solution at the intended pace
- **Volume:** volume to be dispensed
- **Rate:** rate of addition in mL/h. For example, if you want to add 2.7 mL over the course of 6 h, set rate = 0.45 mL/h
- **Diameter:** diameter of the syringe in mm



2. Test pump

- Turn on the pump using the run/stop button, and place your finger on the coiled spring
- You should be able to feel the motor working very slightly, meaning the pump is working properly and can be used



3. Set up pump in the hood

- The syringe pump will need to remain flat and slightly elevated relative to the receiving flask during addition
- Lab jacks can be very helpful for this!

4. Secure syringe in the syringe pump's clamp

- Lay the syringe with contents down on the right side of the pump, and use the clamp to fix it in place
- Make sure the needle is bent so that drops will land directly in solution
- Move the pusher block into place behind the syringe, so that as the motor moves, the plunger is depressed at the desired rate

5. Press run

- That's it!

