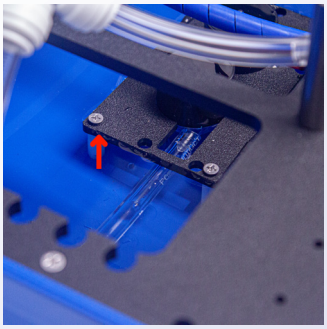
LifeLike BioTissue Wetlab System

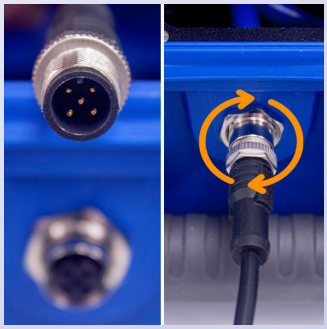
System Components:

A. Wetlab Case (2 Preinstalled Barbed Connectors)
B. Battery Cable
C. 12V Battery
D. AC Power Adapter (Also Charges Battery)
E. 2 Luer Lock Connectors (Blue and Red)
F. Pump Controller

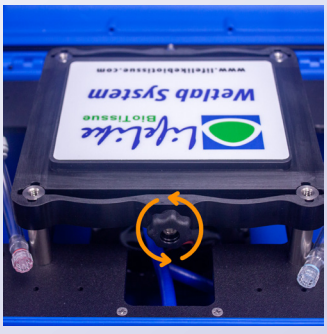
Setup Guide:

1. 

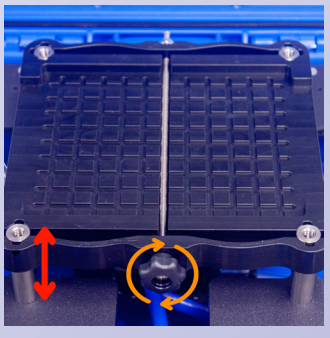
Fill the case with water until the level reaches at least the top of the pump bracket.

2. 

Rotate the controller connector so the notched 'keyed' feature faces upward. Insert it into the port and rotate the locking nut to secure it in place.

3. 

Loosen the platform screw by turning it counterclockwise. Lift the platform off the posts and flip it over to the other side. Place the flipped platform back on the posts.

4. 

Adjust the platform up and down according to your tissue size. Turn the screw clockwise to lock the platform at the desired height.

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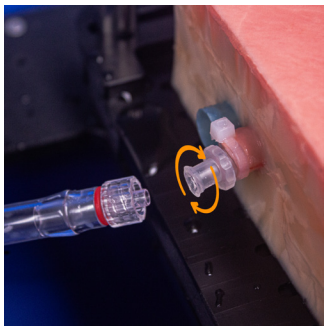
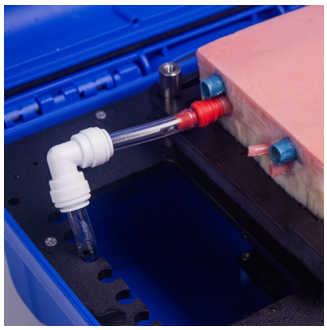
5. If the tissue block has luer lock connectors, connect the red (Arterial) or blue (Venous) tubes to the tissue block by rotating them clockwise onto the fitting.





Alternatively, you may use the tapered barbed connectors supplied. Simply push the barbed connector into vessel where you desire to have flow.

6.

If venous flow is also desired, connect the blue venous flow luer lock fitting or use the blue barbed connector.

7.

Connect the 12V battery (**C**) to the pump controller (**F**) with the supplied battery cable (**B**). Alternatively you may connect the controller directly to the AC Power Adapter (**D**).

8.

Close the lid and lock it in place to ensure the water stays contained within the wetlab box. Periodically check the water level to ensure the pumps don't run dry.

Power On: Flip the main Power switch on the far right of the controller to the **ON** position.

Select Flow Mode:

9.

Arterial Flow: To simulate a pulse, set the Arterial switch to the bottom **PULSE** position. The indicator light will flash to show the pulse is active.

Continuous Flow: For steady, non-pulsing flow, move the switch to the top **ON** position. The indicator light will remain solid.

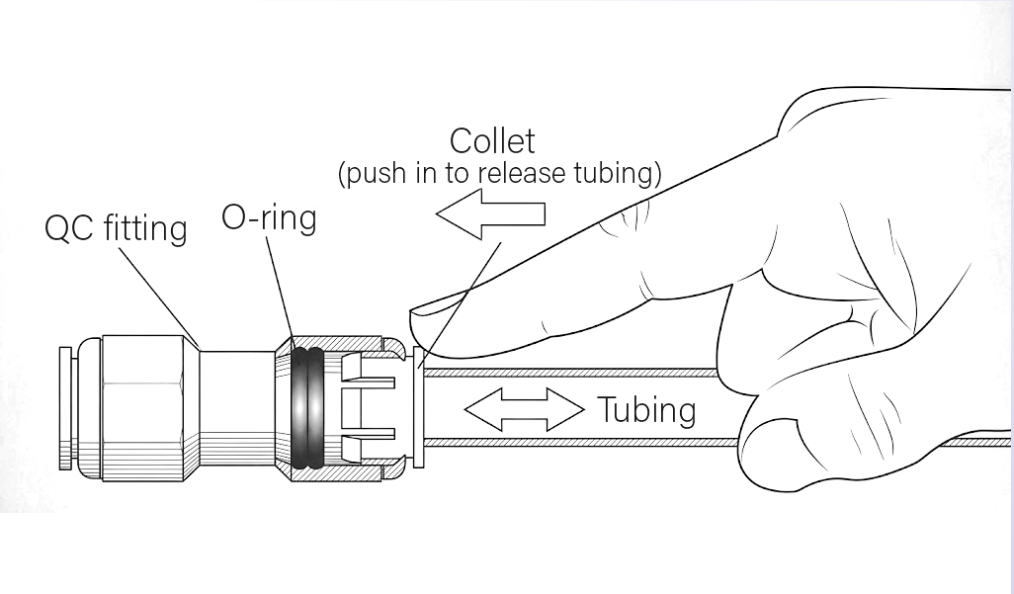
Venous Flow: The Venous pump can be configured for either Continuous (**ON**) or Pulsatile (**PULSE**) flow in the same manner as the Arterial pump.

Adjust Rate: When using pulsatile mode, use the blue control knob to increase or decrease the pulse rate (**BPM**).

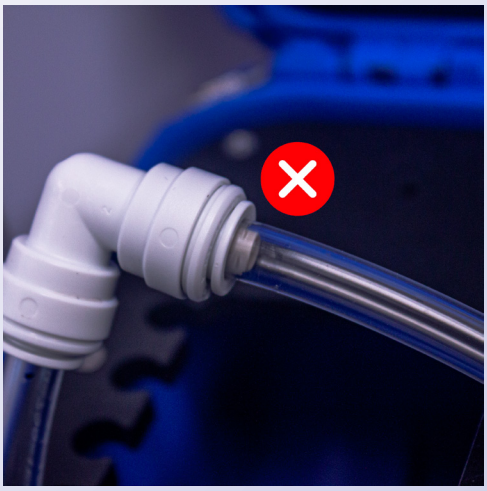
Note: If both the Arterial and Venous pumps are set to **PULSE**, they will synchronize and run at the same rate.

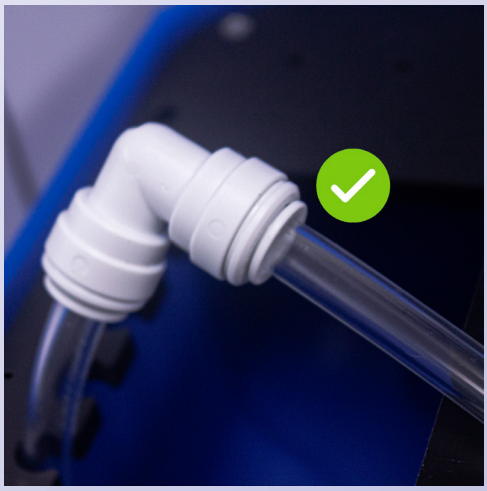
Swapping Connectors:

To switch between connector types, apply firm and even pressure to the collet (the inside ring of the 90-degree elbow connector) while simultaneously pulling the tubing out to release it.



Once the desired connector tube is inserted, ensure the tube support is fully inserted into the quick connect fitting to prevent leaks.





Cleaning and Maintenance:

When you are finished working with the wetlab system, drain the water by tipping the unit over to either side with the lid open. Wipe away excess moisture with a paper towel and let fully air dry before long term storage.