

W7 FILTER FLUSHING

Before starting the installation, any filters being used to filter the source water for the unit must be flushed. This is important to rinse any loose carbon or debris from the filters so that it does not plug another filter or membrane or end up inside the unit. [DO NOT install and setup the unit before flushing the filters.](#)

Whether the unit is paired with RO (Reverse Osmosis) or UF (Ultra filtration) filter configurations, there is a basic idea that applies to both: the filters, especially the carbon filters, must be flushed or “rinsed.” This section will cover how to do this process.

Regardless of the setup used, all sediment and carbon filters must have several gallons of water flushed through them to properly rinse the filter. The filters should be flushed in the same direction as flow (with **one** exception).

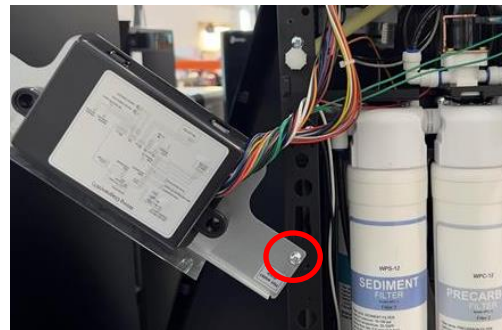
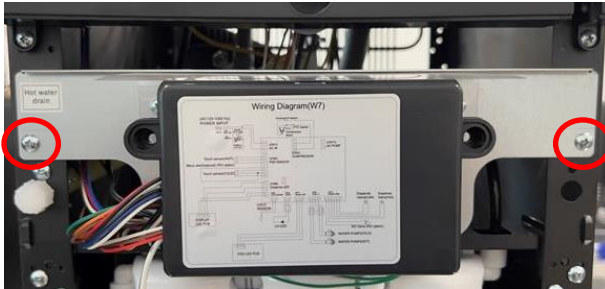
1. To begin, you will need a ¼” LLDPE tube connecting the unit to a water supply, connected at the “Water In” port on the back of the machine. Install a ¼-turn valve just before the unit to easily turn the water on and off.
2. Have a bucket, pitcher, or sink ready to catch the flush water.
3. Remove the drip tray from the unit by pulling straight out. Once removed, locate the single screw that holds the lower front panel in place and remove it.



4. Remove the lower front panel of the unit. Press down on the top of the lower panel, then pull away. The panel should hinge outward, and then come away from the unit completely. Set this panel aside.



- Before getting started, it makes the process easier to move the PCB out of the way. Located the two screws holding the PCB mounting plate to the side panels and remove them. Pull the mounting bracket to the side (you may need to rotate it 90°) and reinstall one screw to hold it out of the way, as shown below.



- Locate the precarbon filter (front and center) and look to the right side of the filter head. Disconnect the tube at the right side port of the precarbon filter from the elbow fitting as shown. Remove the RO filter (twist-tied to the inside of unit), the Biosure filter, and the TCR filter. With an extra section of ¼" LLDPE tubing (about 2-5ft long), plug this into the open elbow on the right side of the filter head, and run the other end to a bucket or drain/sink.



Drain Line to
Bucket or Sink

- Open the ¼-turn valve on the supply line. Water will rush into the sediment and precarbon filter and exit from the outlet into the bucket/sink. Allow 2 gallons (roughly estimated) to flow out of the filters.

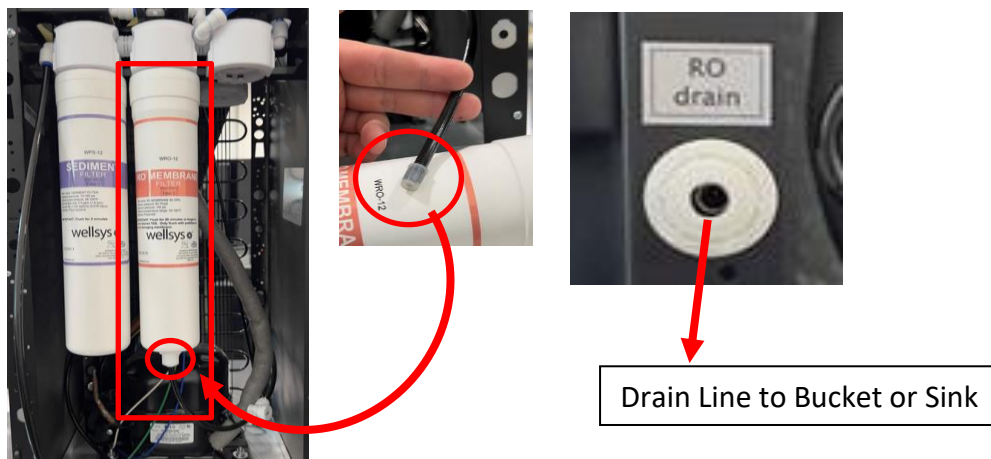
- Once this is achieved, turn off the valve, disconnect the precarbon filter, and set it aside. Place the Biosure filter into the head to the right of the sediment filter. Repeat flushing process for the Biosure filter for at least 2 gallons.



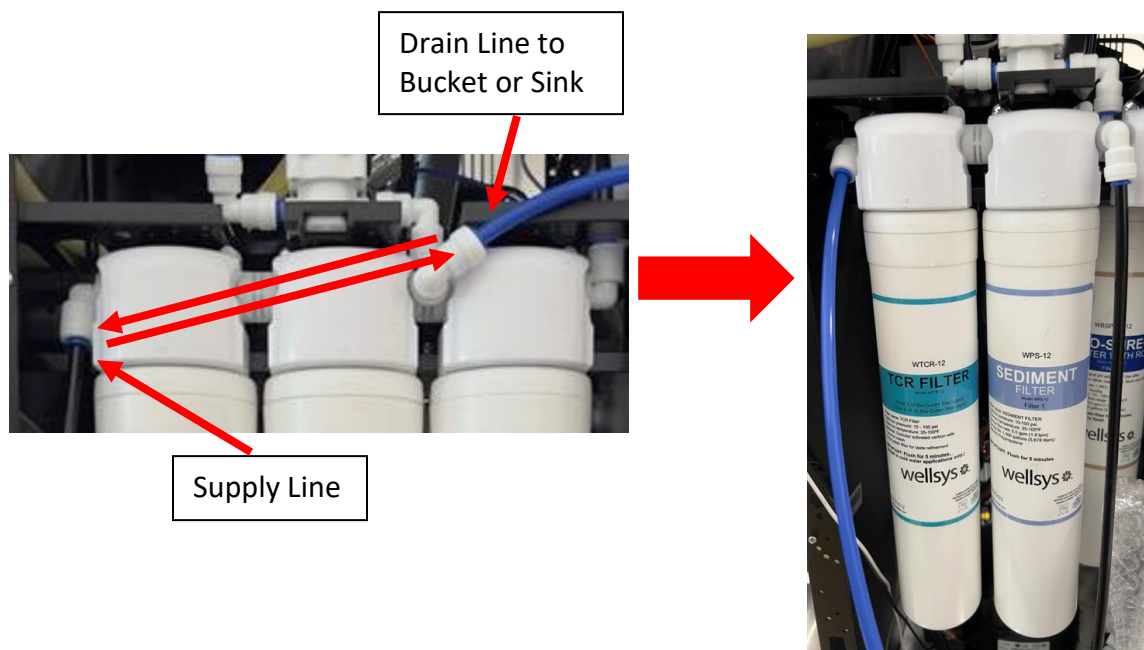
- Once complete, turn off the valve, disconnect the Biosure filter, and return it to its original position. Prepare the RO filter (if using RO filter configuration) by removing the cap and inlet plug, AND the plug at the bottom in the drain port.



- Place the RO filter into the head to the right of the sediment filter. Remove the tube cap, and connect the RO drain tube shown. Because the RO filter produces “brine” or reject water in its filtration, ensure the RO Drain port on the back of the machine is plumbed with ¼” LLDPE tubing to a drain or to the same bucket as the flush water. Repeat flushing process for the RO filter for at least 2 gallons. (If UF Filtration is being used, there will be a UF filter to flush instead of an RO filter and no drain is required).



- Return the RO Filter (or UF Filter) to the right most head. Last filter to flush is the TCR filter, but it must be flushed in the **OPPOSITE FLOW DIRECTION** as the others. Remove and reinstall the sediment filter into the second (middle) head. Now, swap the tube connections of the supply and flush water. Then, install the TCR filter into the left-most head. Open the supply valve and allow 2 gallons to flush through the TCR filter.



- Return all filters to original position and restore original plumbing configurations (From left to right on back row: TCR, Biosure; From left to right on front row: Sediment, PreCarbon, RO). Ensure all tubing to fitting connections are tight and secure and that the RO filter is connected to the drain as it was during flushing.
- Return the PCB and mounting bracket to its original position. Return the lower front panel and drip tray as well.
- The filtration system is now ready to use. The water supply valve can be turned on, and the unit can move forward to the next installation step.