Bluline G3/G5 Installation Guide

The purpose of this publication is to inform Bluline G3/ G5 owners about general install procedures. This publication cannot cover every situation, but it does cover the basics.

What You Need:

- Thermometer
- Basic hand tools
- Rags
- 5 Gallon Bucket
- Drill
- ¼" Tubing
- Fittings/ ball valves
- Any specialty tool for the job (granite bits, fish tape, etc.)
- Water pressure meter

General Install Procedures:

1. Plan out where the unit is going to be located, possible water sources, drains and make sure the unit will have adequate electrical power.
2. Maintain the unit in an upright position.
3. Unit should be within 6' of a grounded 110v outlet. Do not use extension cords.
4. Be sure the hot and cold switches are in the"off" position before connecting to power. Be sure the unit is filled with water before turning on power to the hot tank and cold tanks.
5. Do not modify the Bluline unit or its components.
6. The Bluline unit is for indoor use only.
7. The Bluline unit requires a potable water source.
8. Check for leaks when the installation is done.

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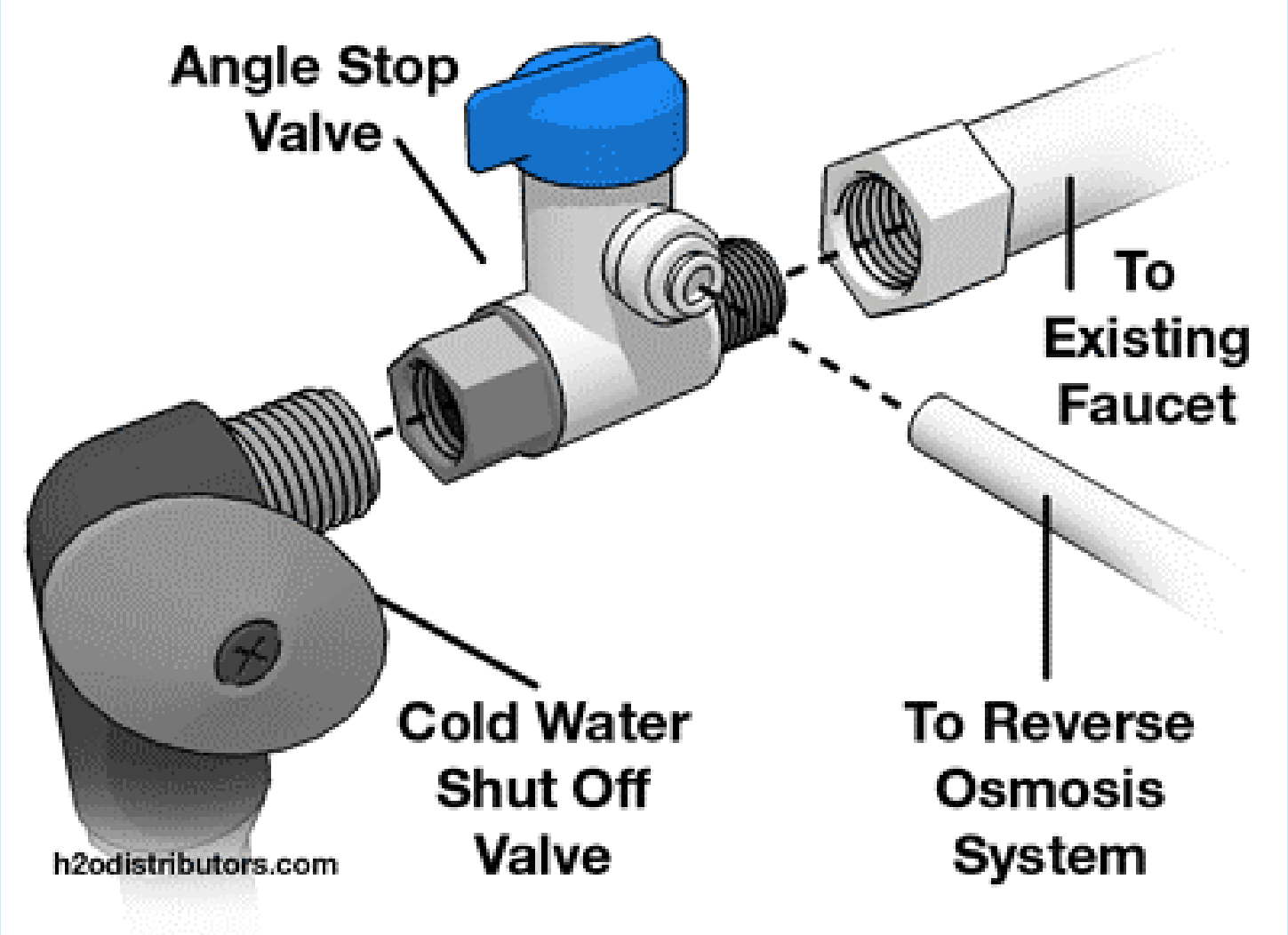
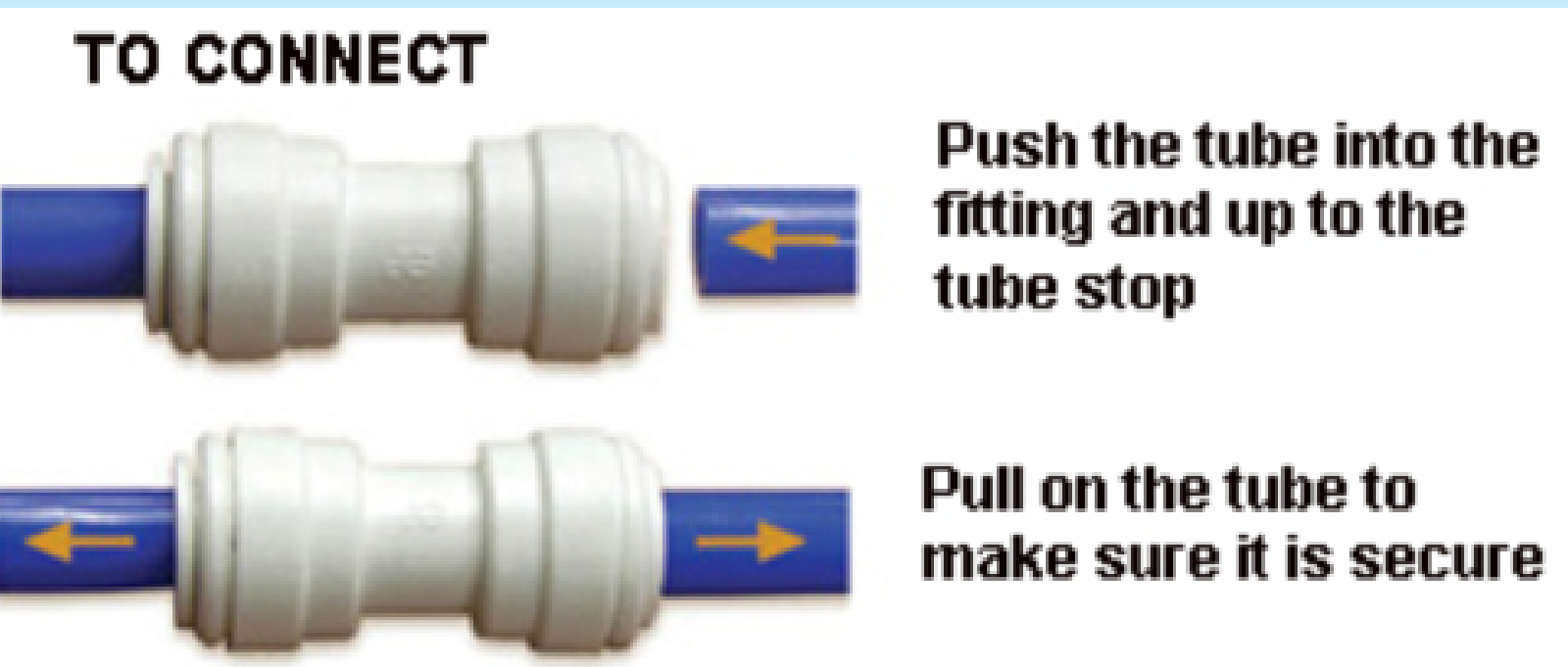
Water Connection:

The best place to tap into water is under the sink using an angle stop valve. Always use ball valves at the source and behind each cooler that the water line may serve. The angle stop valve is basically a compression tee that is 3/8" male x ¼" QC x 3/8" female with a built-in ball valve. They are a perfect fit for the valves under a sink. When installing machine on a countertop, or a RO, you may want to install the filter under the sink.

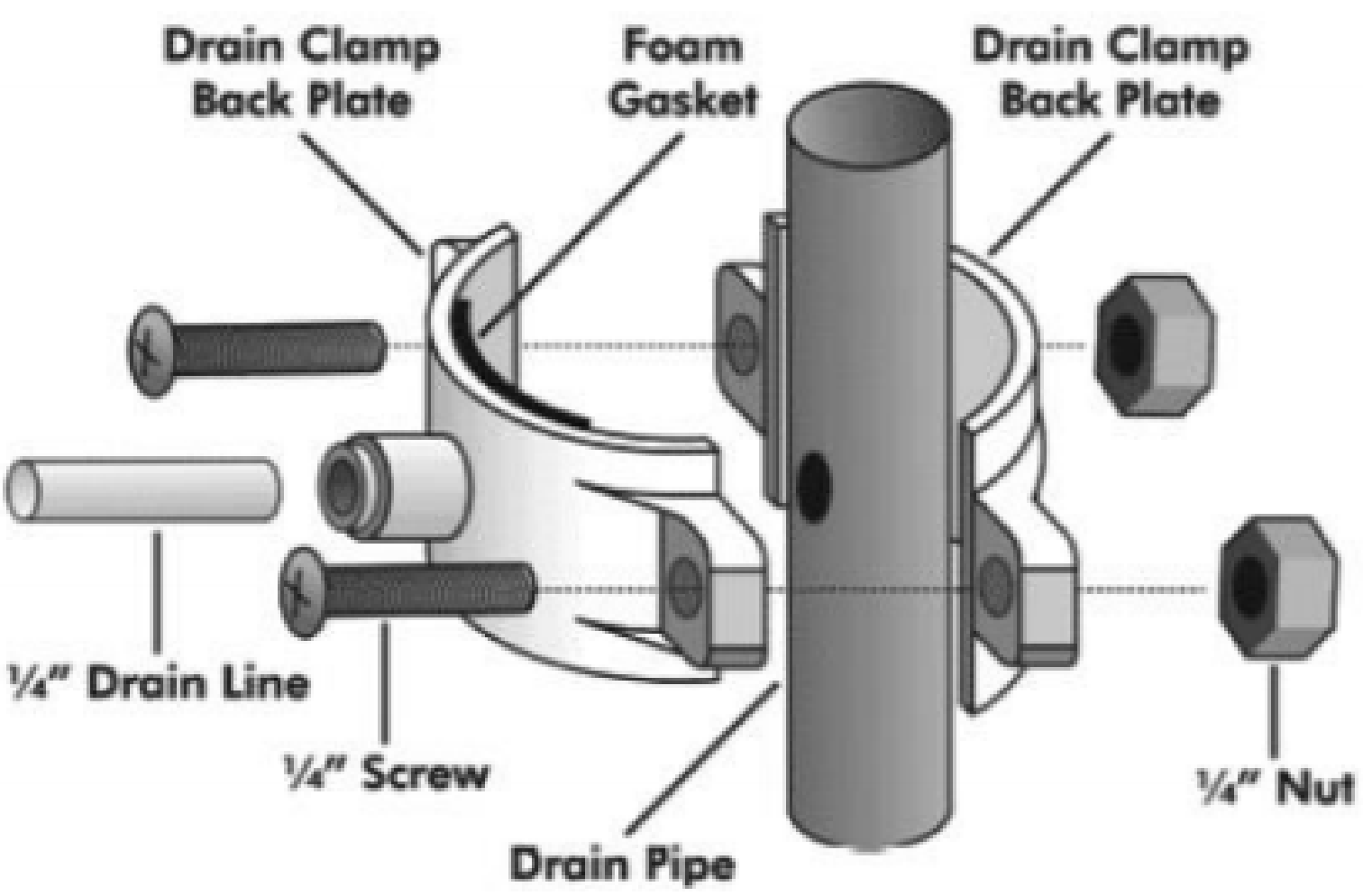


If you are not sure how to use quick connect fittings, see below:



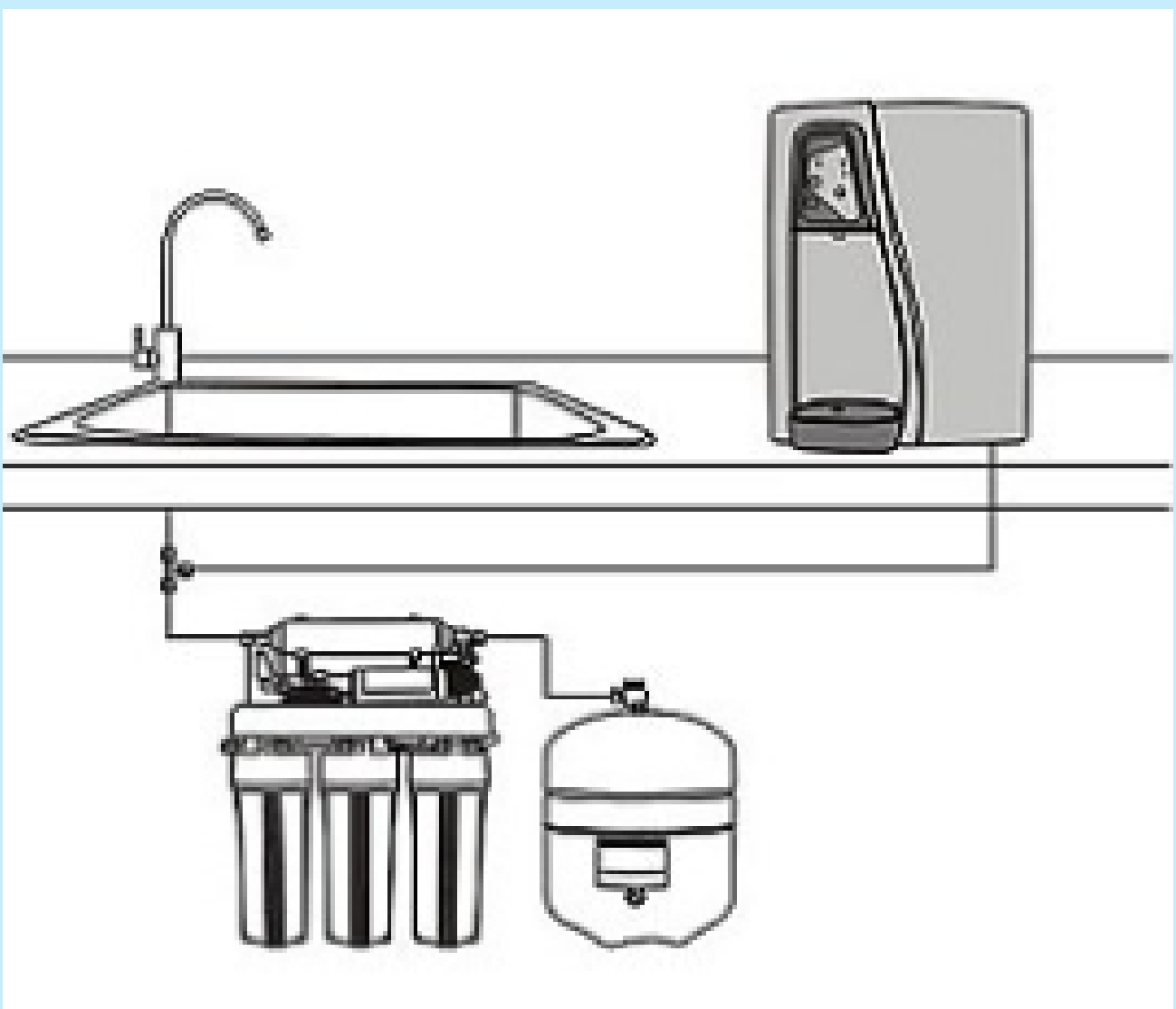
Drain Connection (RO ONLY):

1. The drain clamp should be installed on the vertical tailpiece of the drainpipe. It is recommended to mount the clamp on the drainpipe at least 1.5 inch above the water trap. Position the drain clamp in the desired location, mark a spot on the drainpipe and drill 1/4" hole into the drainpipe.
2. Align the drain clamp with the hole drilled in the drainpipe (by using a small drill bit).
3. Tighten the drain clamp on the pipe.



Running the Waterline:

1. Check water pressure, if over 60 psi, it is recommended you add a pressure regulator.
2. Be sure to place the cooler so that it's not in the way of traffic but leave enough space between it and the wall, about two inches, so it has proper ventilation.
3. Make sure to hide power cord and waterline behind cooler.
4. If installing a countertop:
   a. First locate where the unit will be located on the counter.
   b. Countertop units typically do not have internal filters installed. The best place for a filter would be under the sink close to where you tied into the water supply.
   c. Decide how best to run the tubing, weather to run through the cabinet
   d. If you are going to run tubing through the cabinet, you will have to drill a hole in the countertop. A 5/16" hole is perfect for a ¼" line.
   e. The hole should be drilled behind the unit being installed.



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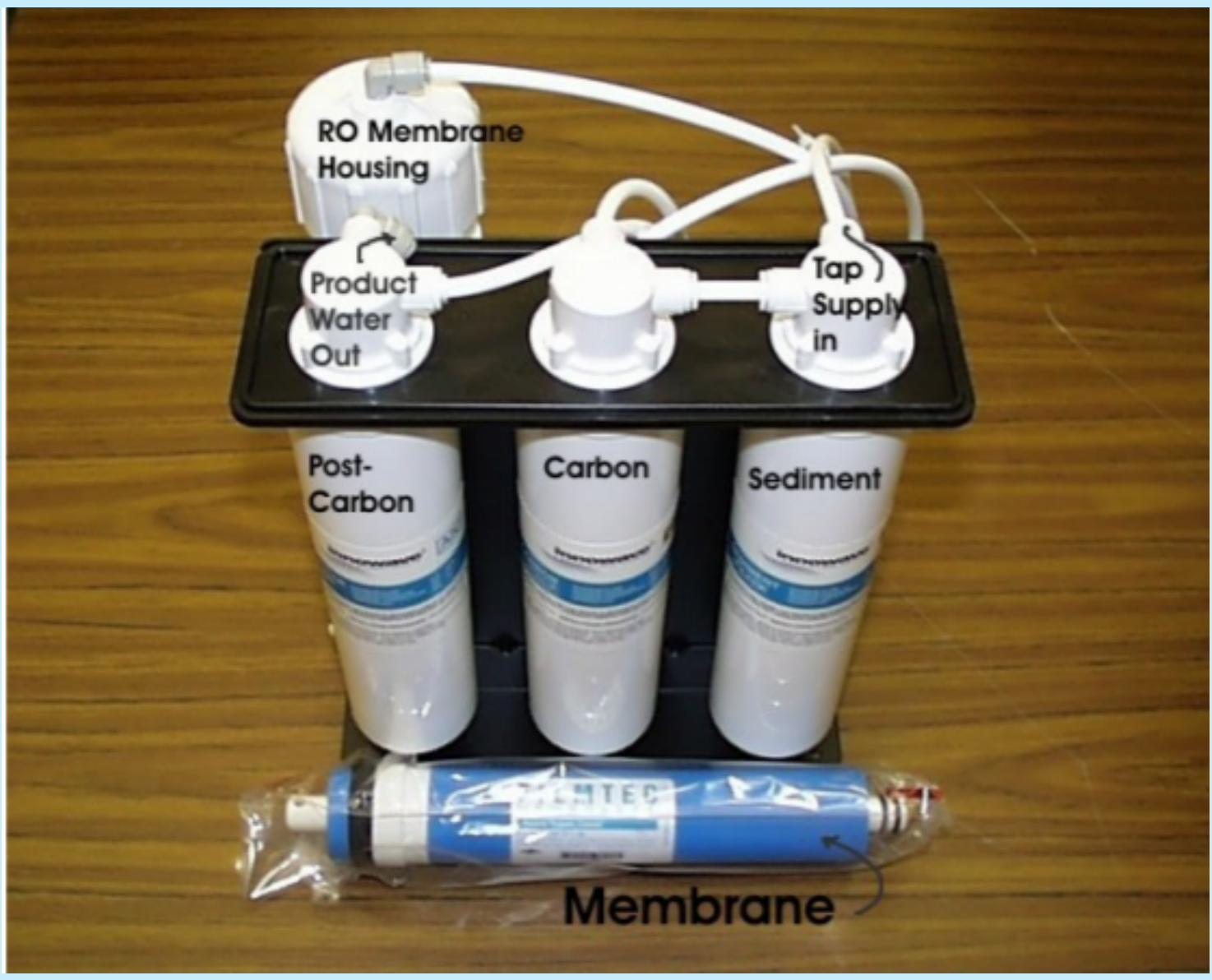
Flushing Filters:

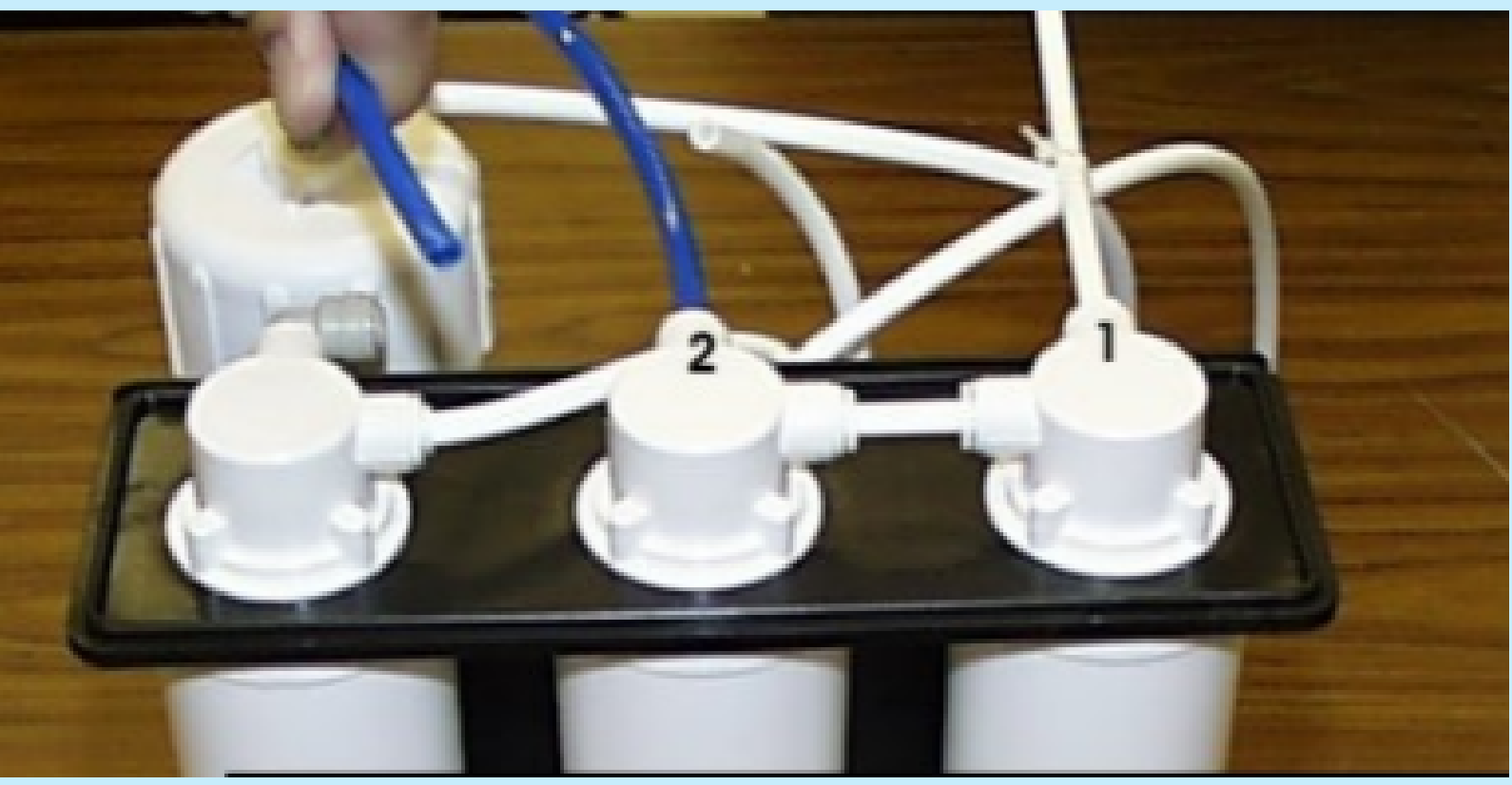
This process explains how to flush a RO system, which is a similar process for the Carbon Filter set-up:

1. Locate the RO assembly kit. Remove the RO assembly.



2. Connect a 1/4" water supply to the inlet of the Sediment filter.

3. Disconnect the outlet of the Pre-Carbon Filter & insert a section of the 1/4" tubing into that fitting.



4. Open the water supply and flush at least 5 gallons of water through the Sediment and Pre-Carbon filters.

5. Shut off the water supply.

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6. Remove the section o the tubing that was attached to the outlet of the Pre-Carbon Filter. Reconnect the section of the tubing that was originally removed from the Pre-Carbon Filter.

7. Disconnect the inlet tube from the post filter and inset the feed waterline.

8. Inset the section of tubing used to rinse the Sediment and Pre-Carbon Filters into the outlet of the Carbon Post Filter.

9. Open the water supply and rinse 5 gallons through the Carbon Post- Filter

10. Reconnect the tubing into its original configuration.

Now that the water lines have been run and the filters flushed, the unit can be connected to water. Do not turn the hot tank or cold tank on until the unit is full of water. This can be tested by trying to dispense hot water. If water comes out of the hot faucet, the hot and cold switches can be turned on.

NOTE: It is normal for the product water to come out of the tube a drop at a time to a slow trickle. The wastewater may have a strong flow.

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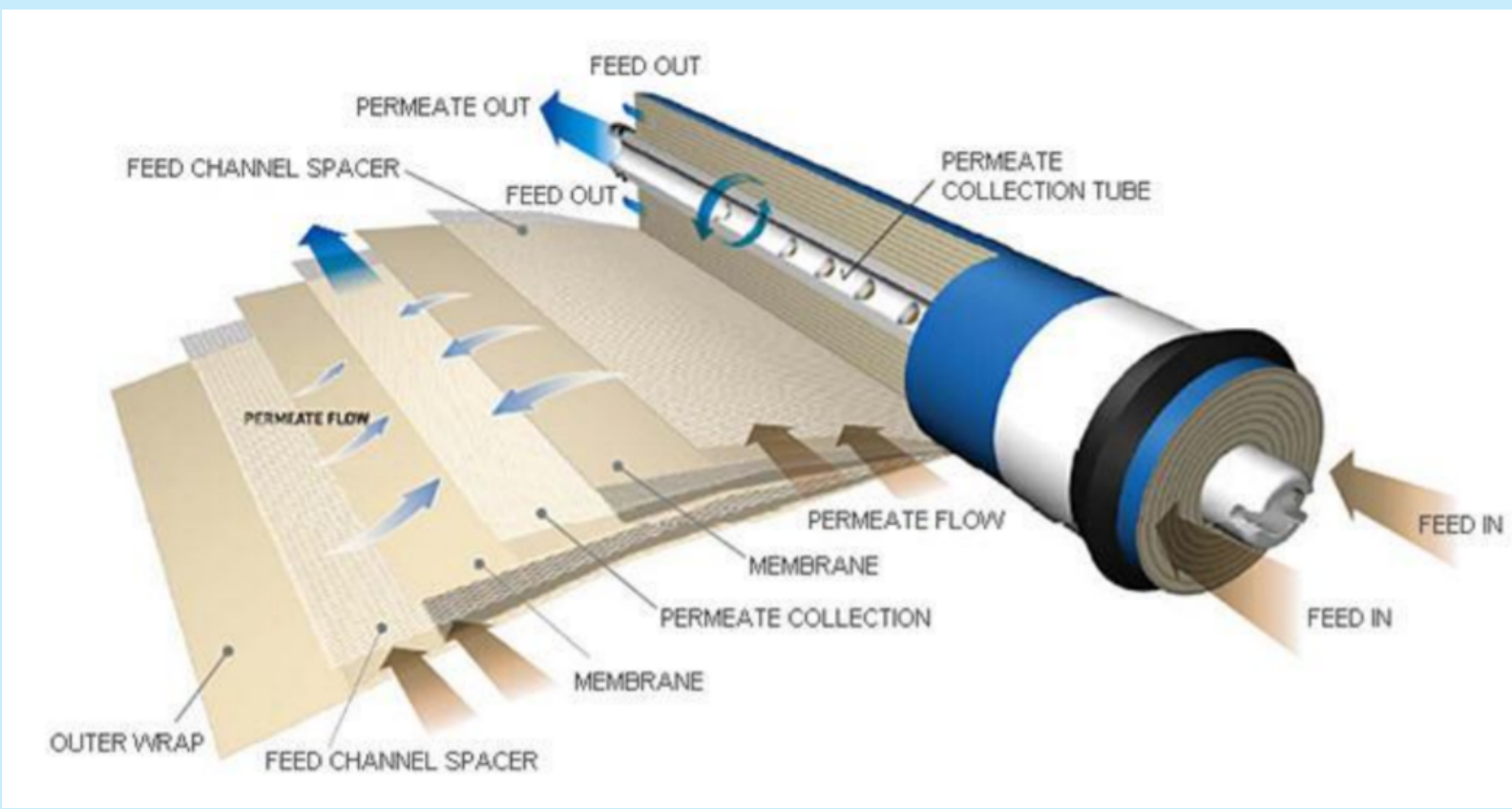
How Reverse Osmosis Works:

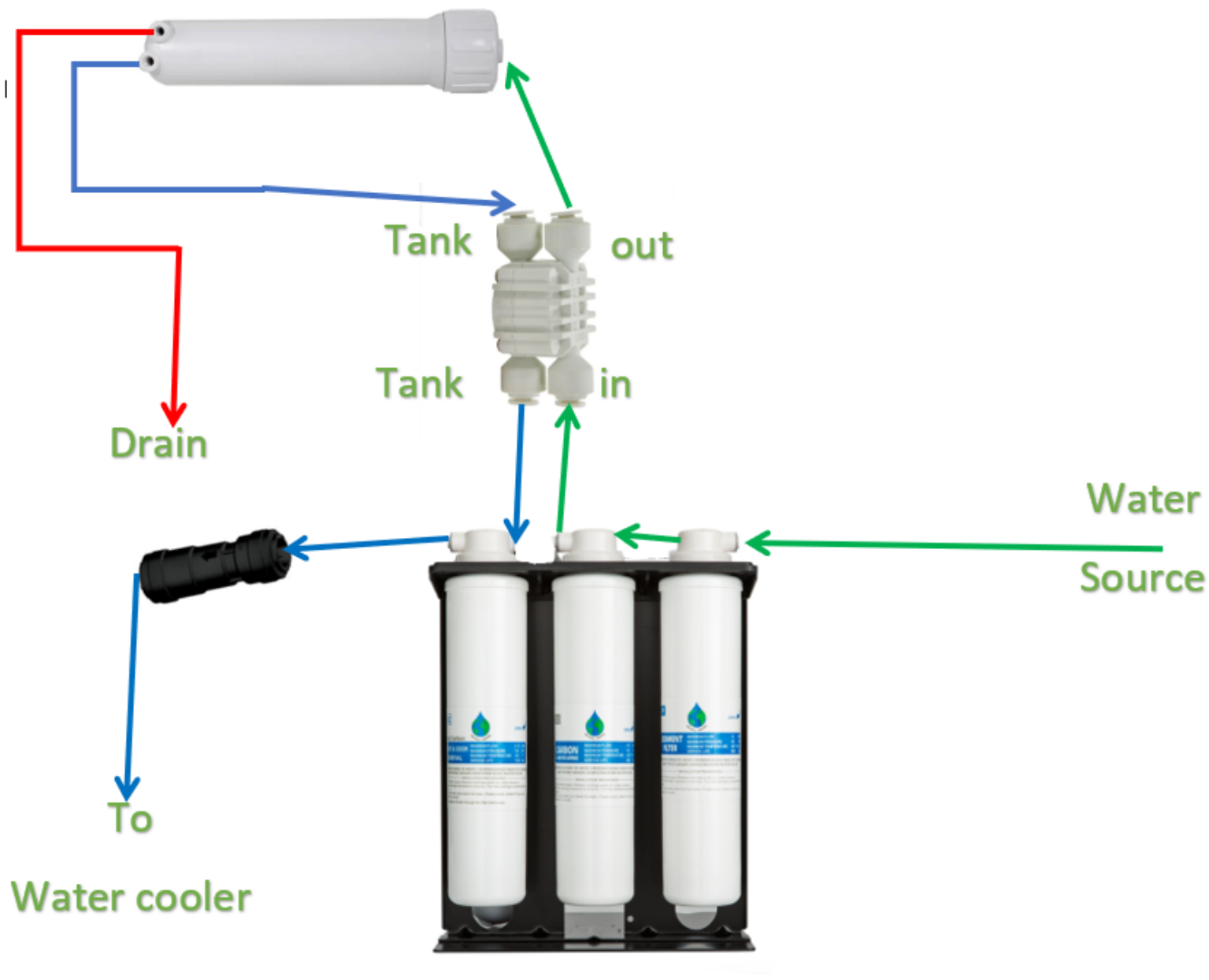
There are typically four stages in a RO filter system:

- **Sediment Filter**
- **Pre-Carbon Block Filter**
- **Reverse Osmosis Membrane**
- **Post-Carbon Filter**

1. The Sediment Filter: Typically a foam block, reduces particles from the water. Its purpose is to prevent clogging of the carbon block and RO membrane. Good sediment filters will reduce particles down to one micron or smaller.
2. The Pre-Carbon Block Filter: Typically a block of powdered activated carbon, filters out smaller particles, ideally down to 1/2 micron or smaller, absorbs some dissolved sompounds, and deactivates chlorine. The latter is the most important part: chlorine left in water will destroy the RO membrane.
3. The Reverse Osmosis Membrane: A Semi-permeable, thin film. Water under pressure is forced through it. Molecules larger/heavier than water penetrate the membrane less easily and tend to be left behind.
4. Post-Carbon Filter: Typically a Carbon Filter. Any remaining tastes or odors are removed from the product water by post filtration "polishing" filter.



RO Diagram



If you have any questions

contact Bluline Tech Support

1.855.434.5337

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