

# Reverse Osmosis (RO) System Supplemental Installation Instructions

Important installation notes:

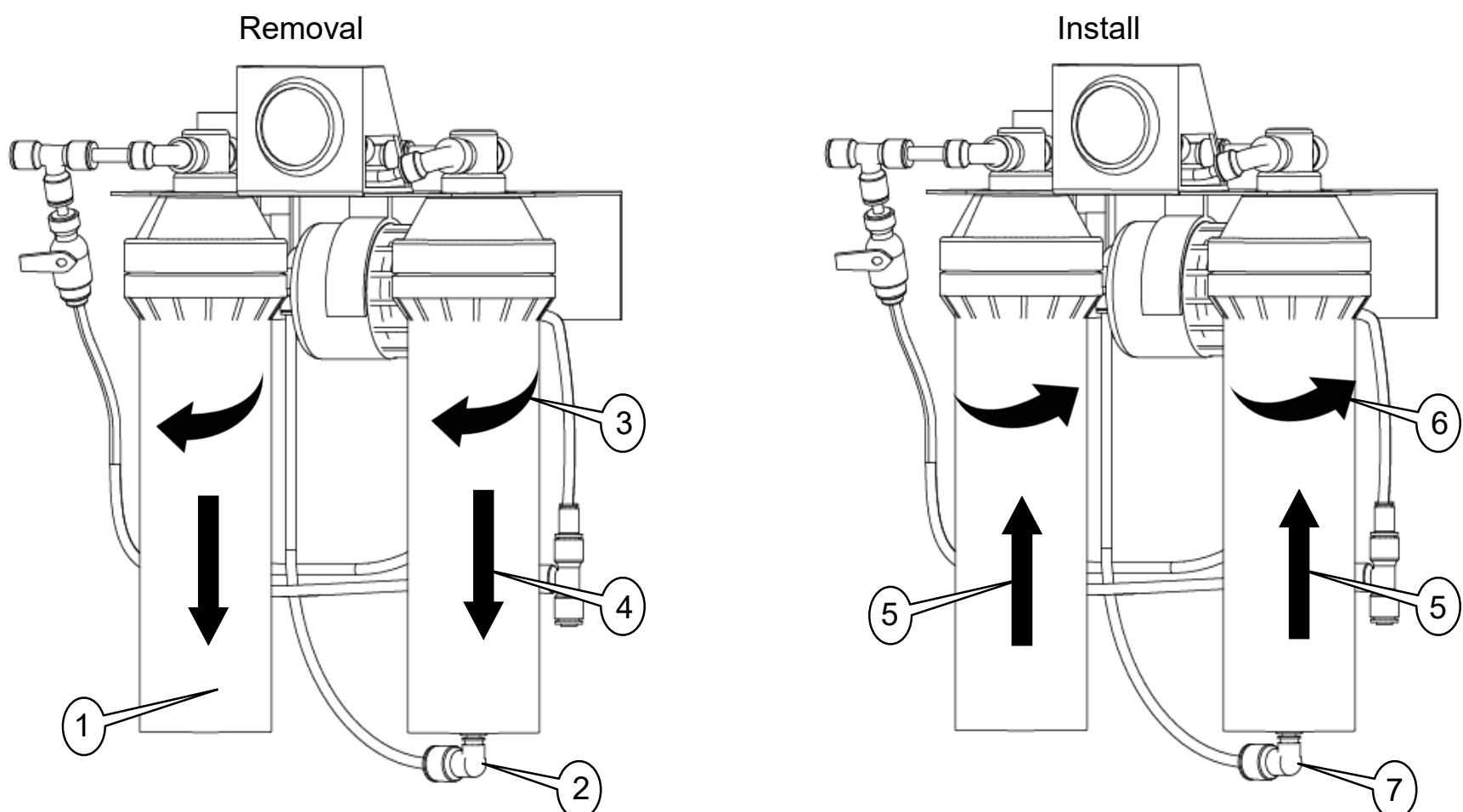
- Use these instructions along with the OptiPure Simple Install Guide.
- The RO system installation must meet all applicable federal, state and local codes.
- 80 PSI / 5.5 bar is the MAXIMUM supply water pressure allowed to the RO system.
- The system should be installed indoors, within 25 feet / 7.6 m of the equipment water is being supplied to.
- The installer must supply mounting hardware.
- The first supply fitting for the RO system is 1/2" male NPT.

When installing the RO system:

- 1) See the OptiPure Install Guide for the storage tank installation instructions.
- 2) Cut tubing with a tubing cutter or sharp blade. Do not use a wire cutter or diagonal cutter to cut the tubing.
- 3) Avoid loops and kinks in the tubing when routing it.
- 4) Remove plugs from the fittings before installing the fittings.
- 5) Hand tighten the tank valve to prevent damage. Do not use tools to tighten the tank valve.
- 6) Use thread sealant on the water inlet (NPT) of the oven.
- 7) Install the RO system so that there is at least 3 in. (76mm) below the filter cartridges to allow for removal.
- 8) Remove the filter cartridges before installing the RO system to prevent filter cartridge damage.

## Cartridge Removal and Re-installation

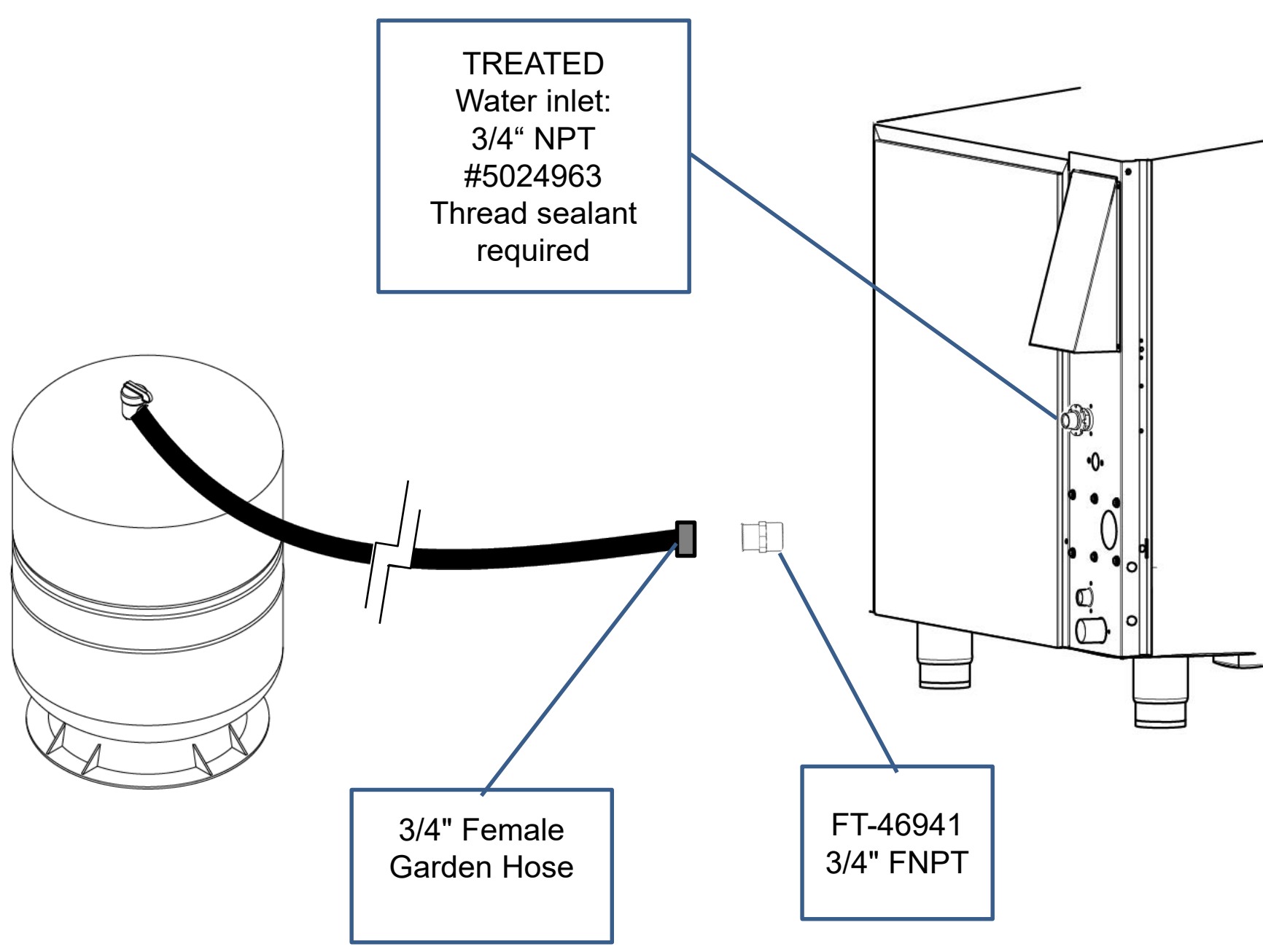
1. Close the water supply valve. Remove the pre-filter by turning it counter-clockwise and pulling down. The system pre-filter has an internal valve that will close when the cartridge is removed. After the pre-filter has been removed you can remove any other cartridge.
2. Remove the tube and fitting from the bottom of the membrane cartridge.
3. Turn the cartridge counter-clockwise.
4. Pull straight down.
5. Re-install the cartridges straight into the holder.
6. Turn the cartridge clockwise.
7. Install the fitting and tube into the bottom of the membrane cartridge. Open the water supply valve.



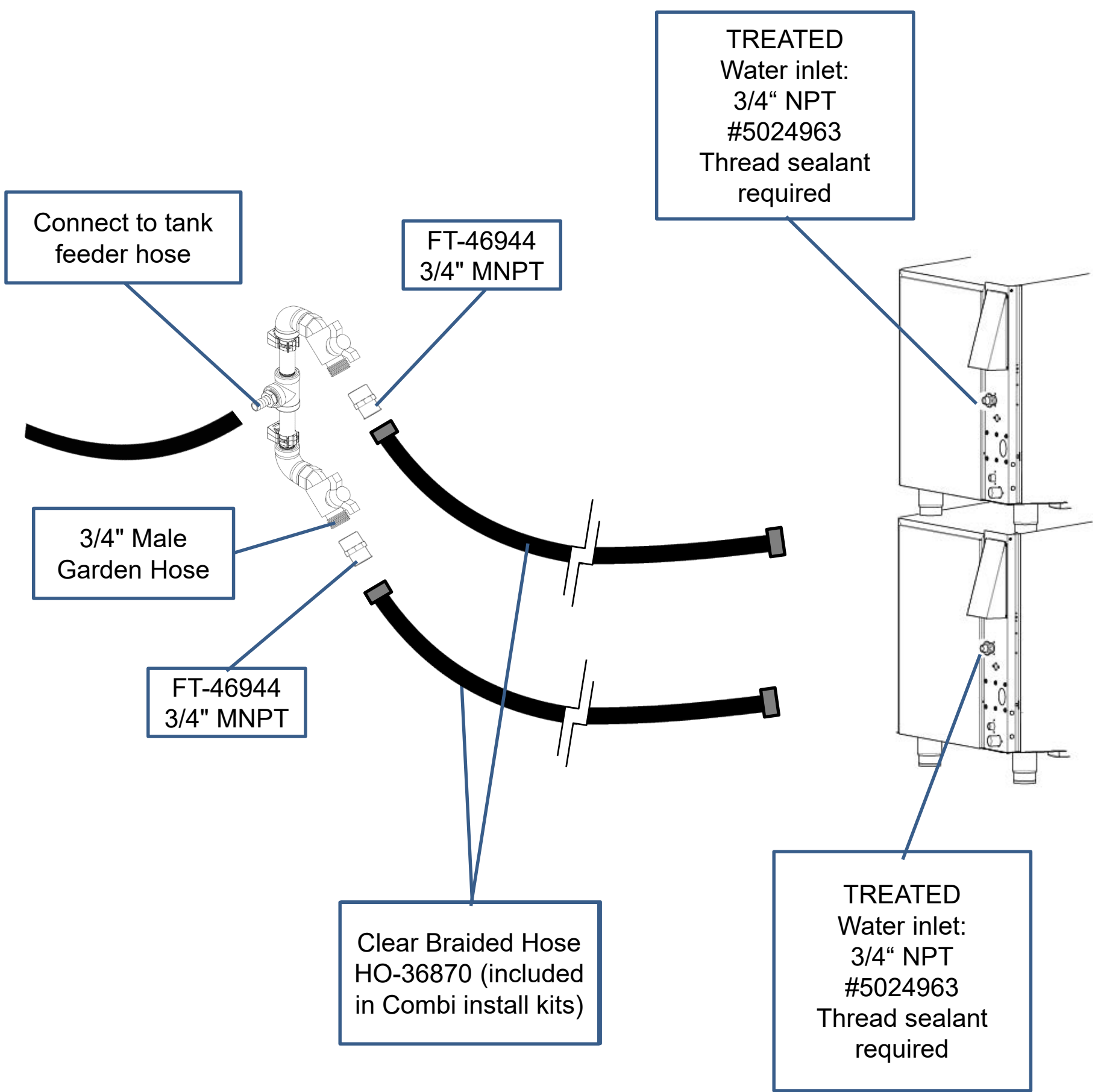
**REFERENCE IMAGES ONLY**

**See the OptiPure Simple Install Guide for component identification.**

# Single Oven Connection



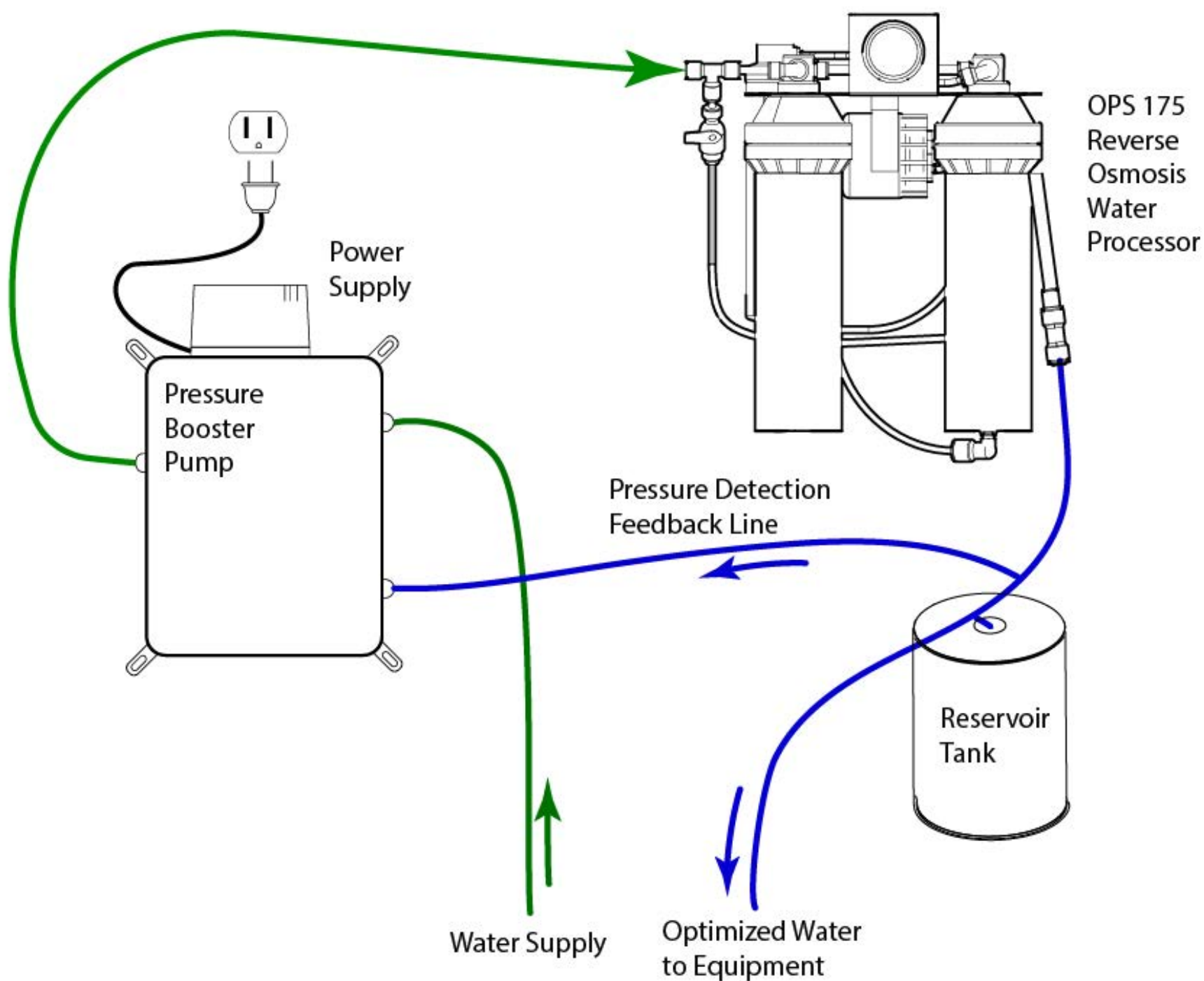
# Stacked Oven Connections



## Booster Pump Connections

Contact the Alto-Shaam Technical Service Department before ordering. This pump is to be used only if the water supply from the utility cannot meet the supply pressure requirements listed in the OptiPure Simple Install Guide.

**REFERENCE IMAGE ONLY**  
**See the OptiPure Pressure Booster Pump**  
**manual for complete installation instructions.**



Issue	Remedy
<p>Clogged or loaded pre-filter</p> <p>The water pressure has dropped 20psi or is under 40psi on the gauge.</p>	<p>Check the operating pressure gauge and compare it to the inlet pressure in the building. If the pressure has dropped 20 psi /1.4 bar or is under 40 psi / 2.8 bar(on the operating pressure gauge), change the pre-filter.</p> <p>Check filter change date on cartridge. Change CTO and mineral cartridges every 6 months.</p>
<p>The storage tank is empty</p>	<p>Measure the water supply feed pressure to the processor. 40 psi / 2.8 bar required (Optimal 60 psi) / 4.1 bar. Verify that all valves are in operating position (including feed water supply valve).</p> <p>Measure the reject water volume and the permeate output water volume.</p> <p>Verify Demand – Is there added equipment not originally calculated?</p> <p>Is the system connected to the equipment’s ‘treated water’ connection only?</p> <p>Is the water use exceeding the capacity of the tank?</p>
<p>The tank is full but the equipment “low water pressure” alert is activating</p>	<p>Verify that the tank valve is in the open/service position.</p> <p>Verify that the valves on the optimized water line to the equipment are open.</p>
<p>The tank is full but water continues to run to the drain</p>	<p>Verify the operating pressure gauge on processor reads over 40 psi / 2.8 bar (Optimal 60 psi / 4.1 bar)</p> <p>Close the tank valve and make sure the equipment is not using water. After about a minute of letting the system run check to see if the water running to the drain stops. If the water to the drain stops, the system is operating as intended and the tank is not full yet.</p> <p>Is the permeate pump clicking/pumping? If no, the permeate pump could be stuck/locked into the open position. Use the above check if water continues to run to the drain and the permeate pump is still not clicking/pumping replace the permeate pump.</p>
<p>Loud whistling/squeaking noise coming from the RO system</p>	<p>Check, the reject line to be sure it has not been pinched, clogged or submerged in drain.</p> <p>When the system is installed excess air can become stuck/lodged in the reject line this will likely clear in time but you can take the system off the wall and rotate it around to help dislodge any air trapped inside connections.</p>

<p>Complaint of a lot of water going to the drain</p>	<p>Verify that the processor is turning off when tank is full.          Verify the operating pressure gauge on processor reads over 40 psi (Optimal 60 psi 4.1 bar).</p> <p>Close the tank valve and make sure the equipment is not using water. After about a minute of letting the system run check to see if the water running to the drain stops. If the water to the drain stops, the system is operating as intended and the tank is not full yet.</p> <p>Is the permeate pump clicking/pumping? If no, the permeate pump could be stuck/locked into the open position. Use the above check if water continues to run to the drain and the permeate pump is still not clicking/pumping replace the permeate pump.</p> <p>Capillary flow control could be damaged - Using a graduated cylinder and stopwatch measure the flow to the drain and confirm the flow is within spec. (See the OptiPure OPS 175 Simple Install Guide)</p>
<p>There is water leaking from RO system, pre/post filters inlet or outlet</p>	<p>Check to be sure tubing on leaking connection is pushed all the way into the fitting. Check for a damaged O-ring at the leaking fitting. Replace the fitting.</p> <p>If leak is originating from the cartridge/head connection, check for a damaged O-ring on the cartridge.</p> <p>Check for a crack where the filter cartridge fits into the head.</p>
<p>There is water all over the floor around the system</p>	<p>Check for any leaks throughout the system and that the oven connection is secure.</p> <p>Check that the reject line is properly secured to the drain.</p>