



OLYMPIA®  
Water Systems

# INSTALLATION INSTRUCTION & OWNER'S MANUAL



System Tested and Certified by NSF International against NSF/ANSI 42 for the reduction of Chlorine, Taste and Odor and 58 for the reduction of Total Dissolved Solids. Please refer to the Performance Data Sheet for complete reduction data.



# Please retain this Owner's Manual for future reference.

It includes information for operation and maintenance of your Olympia Water Systems  
Reverse Osmosis water filter system.

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# Introduction

## About Your Reverse Osmosis System

Thank you for your purchase of the Olympia Water Systems Reverse Osmosis System.

This 5-Stage Reverse Osmosis System was designed and tested to provide high quality drinking water. The following are brief descriptions of each of the 5 stages in this system.

## Filter Stages

Cartridge Filters	Model	Filter Description	Service Life
Stage 1 5 Micron Sediment Filter 	OROS-PRESF	Polypropylene filter for removal of sand, silt, dirt and rust particles.	6 Months
Stage 2 5 Micron Carbon Filter 	OROS-PRECB	Coconut shell carbon block for removing volatile organic carbon compounds, insecticides/pesticides and chemicals.*	6 Months
Stage 3 5 Micron Carbon Filter 	OROS-PRECB	Coconut shell carbon block for removing volatile organic carbon compounds, insecticides/pesticides and chemicals.*	6 Months
Stage 4 RO Membrane 	OROS-ROM50 (50 GPD Membrane) OROS-ROM80 (80 GPD Membrane)	For removing the following contaminants in your water: Arsenic, Barium, Cadmium, Chromium (Hexavalent), Chromium (Trivalent), Copper, Turbidity, Fluoride, Lead, Radium 226/228, Selenium* and TDS.	2-3 Years
Stage 5 Post Carbon Filter 	OROS-POST	Coconut shell post carbon filter for chlorine, taste and odor reduction.	2,500 Gallons (9,463 Liters)

\*These claims are based on manufacturer testing. These claims are not certified by NSF.

## Replacement Filters

Olympia Water Systems offers replacement filters for both the OROS-50 and OROS-80 Reverse Osmosis water filtration systems. For purchasing information for replacement filters, please visit our website at [www.olympiafiltration.com](http://www.olympiafiltration.com).

### Caution

Do not use this system with water that is microbiologically unsafe or of unknown quality without adequate pretreatment. This system is for use on potable water only.

# Before Installation

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## Inspect the System

Remove the system and all the included components from the box. Inspect the system and the connection fittings to ensure nothing has been damaged during shipment. If any part of the system has been cracked or broken, do NOT proceed with installation. Contact Olympia Water Systems for an exchange or further information.

## Recommended Tools List

- Variable speed drill
- Carbide drill bits: 1/4" (for waste line), 1/2" (for faucet hole) and 1/8" (for pilot holes, not mandatory)
- Adjustable wrench (for faucet installation)
- Phillips screwdriver (for saddle valve installation)
- Measuring tape

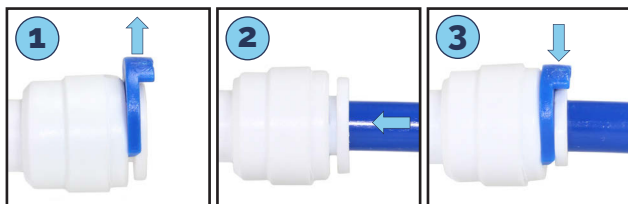
## Operating Parameter

- Operating pressure (source water pressure): 50 PSI - 100 PSI
- Feed water temperature: 40° - 100°F (5° - 38°C)

## General Installation Requirements

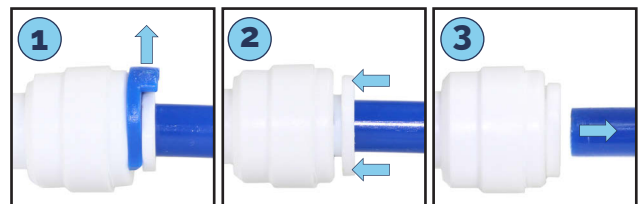
- System must be connected to COLD water source only.
- System must be installed in an indoor location; avoiding extreme temperatures and direct sunlight.
- Ensure installation location can support the weight of the system when it is full of water.

## How to Use Quick Connect Fittings



### To Attach Tubing

Remove BLUE tubing lock clip. Insert tubing until it hits the backstop. Pull on inserted tubing to ensure it is secured and re-attach BLUE tubing lock clip.



### To Release Tubing

Remove BLUE tubing lock clip. Use two fingers to push in collet to release tubing. While collet is being held, pull tubing straight out.

## Included Components

Please ensure you have all of these parts before starting installation.



RO System Head



3 Filters and Housings



Storage Tank



Faucet Kit



3/8" Feed Water  
Angle Valve



Drain Saddle Valve



Tank Ball Valve



4 Colors of 1/4" Tubing

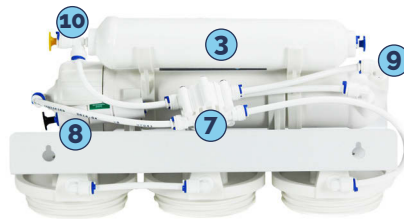


Housing Wrenches



Teflon Tape

## System Itemization



1. Bracket
2. Membrane Housing
3. Post Carbon Filter
4. Sediment Filter Housing (1st Stage)
5. Carbon Filter Housing (2nd Stage)
6. Carbon Filter Housing (3rd Stage)
7. Automatic Shut-Off Valve
8. Flow Restrictor
9. Check Valve (Elbow)
10. T-Fitting
11. Feed Water Inlet
12. Filter Water Outlet
13. Storage Tank

# Installation

## Filter Housing Assembly

Remove main system bracket, 3 filters and housings from packaging and assemble the filter housings onto the main system bracket as follows:

- I. **Install Filters into Housings:** See **Fig. 1**. Stand 3 housings upright. Check each housing to ensure the black O-ring is properly seated in its groove.

Remove the plastic from the Polypropylene Sediment Filter and place into the 1st Stage housing.

Remove the plastic from both Carbon Block Filters and place into the middle (2nd Stage) and left (3rd Stage) housings.

- II. **Install Housings onto System:** See **Fig. 2**. Starting with the 1st Stage housing on the right, hand twist the housing onto the main bracket turning clockwise under the 1st Stage label. Using the provided large wrench, completely tighten the 1st Stage housing onto the main system bracket. One at a time, hand twist and then tighten with the provided large wrench, the 2nd Stage and 3rd Stage housings under their corresponding labels on the main system bracket. See **Fig. 3**. Once all three housings are installed, stand system upright.



Fig. 1



Fig. 2



Fig. 3

# RO Membrane Installation

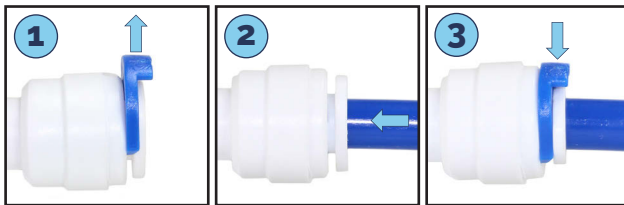
## **\*\*Important!**

The tubing connection on the membrane housing cap **MUST** be removed prior to opening the membrane housing to prevent the tubing connection elbow from breaking inside the housing cap.

Remove the provided RO membrane from the plastic packaging and install into the RO housing on the main system bracket as follows:

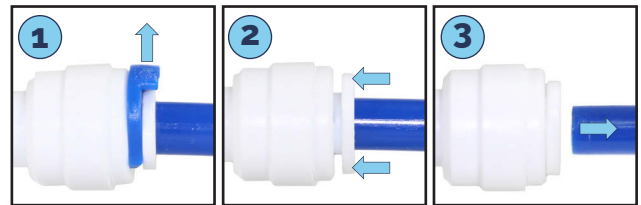
- I. **Open RO Housing:** See **Fig. 4**. Remove BLUE tubing lock clip and remove the tubing from the cap of the RO housing on the main system bracket. \*\* Using the provided small wrench, remove the RO housing cap by turning counter-clockwise.
- II. **Install RO Membrane in Housing:** See **Fig. 5**. Insert the two black banded end of the RO membrane into the RO housing first.
- III. **Close RO Housing:** Hand twist the RO housing cap back onto the RO housing by turning clockwise. Using the provided small wrench, completely tighten the cap onto the RO housing. See **Fig. 6**. Re-insert tubing into RO housing cap and re-attach BLUE tubing lock clip to secure tubing.

## How to Use Quick Connect Fittings



### To Attach Tubing

Remove BLUE tubing lock clip. Insert tubing until it hits the backstop. Pull on inserted tubing to ensure it is secure and re-attach BLUE lock clip.



### To Release Tubing

Remove BLUE tubing lock clip. Use two fingers to push in collet to release tubing. While collet is being held, pull tubing straight out.



Fig. 4

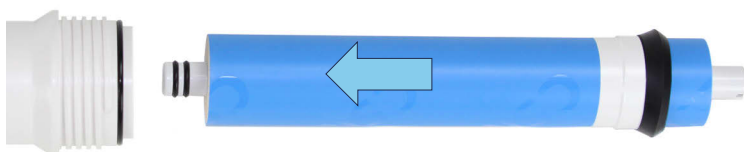


Fig. 5



Fig. 6



## Positioning the System

### Note

Mounting screws for the RO system are NOT included.

**Space:** Ensure there is sufficient space for installation (approximately **16" L x 7" W x 20" H** for the system, **12" D x 18" H** for the tank).

The RO system is best installed under a kitchen sink. If there is not enough space under the kitchen sink, the RO system can be installed where there is a COLD water supply with sufficient water pressure and an outlet to drain waste water from the system.

**Mounting:** It is not necessary to mount the RO system to the wall or inside of cabinet. The RO system can stand upright on the housings in the sink cabinet without being mounted. If you prefer to mount the system to the wall or inside of cabinet, ensure that the system can be easily removed for future maintenance.

## Feed Water Connection

### Important!

The system must be connected to the COLD water supply only. If the cold water supply valve cannot turn off the water at installation location, the main water supply to the house must be shut-off before installation.

Locate the COLD water supply valve and turn it to the OFF position.

- I. **Feed Water Angle Valve:** See **Fig. 7**. Attach 3/8" angle valve to COLD water supply line.

Insert one end of the provided WHITE tubing to white quick connection on angle valve. See **Fig. 8**. Turning clockwise, tighten tubing connection until RED line on angle valve is no longer visible. Attach a provided BLUE tubing lock clip to secure tubing connection.

- II. **Feed Water Connection to System:** Locate the WHITE cap insert at the front of the 1st Stage housing on the main system bracket. Remove BLUE tubing lock clip and WHITE cap insert from the main system bracket. See **Fig. 9**. Insert the remaining end of the WHITE tubing and re-attach the BLUE tubing lock clip to secure tubing connection.



Fig. 7



Fig. 8



Fig. 9

## Drain Saddle Connection

### Important!

To avoid possible system drainage noise, install drain saddle on the top of horizontal tailpiece or as low as possible on the vertical tailpiece. Do not install drain saddle close to a garbage disposal outlet as this may cause a blockage in the RO system drain line.

- I. **Drain Saddle Location:** See **Fig. 10**. The drain saddle should be installed above the drain trap on the horizontal or vertical drain tailpiece. If you are installing on the horizontal tailpiece, position the hole on the top side of the tailpiece to prevent waste water from flowing back into the RO system.
- II. **Prepare the Drain Saddle:** Remove nuts and screws from drain saddle to separate the plastic drain saddle pieces. Remove backing and pre-cut hole from the provided self-adhesive foam seal. Attach foam seal to drain saddle by lining up the hole on the foam with the tubing connection hole on the inside of the drain saddle piece.
- III. **Drill Drain Hole into Pipe:** Mark the position of the hole on the drain tailpiece. Drill a 1/4" hole through one side of the drain tailpiece at the marked location.
- IV. **Align Drain Saddle:** See **Fig. 11**. Position both halves of the drain saddle on the drain tailpiece so that the tubing connection is lined up with the hole in the drain tailpiece. Use the screws and nuts to clamp the two halves of the drain saddle onto the drain tailpiece. Ensure that there is equal spacing between each of the drain saddle halves. Do not over-tighten.
- V. **Connect Drain Line to the System:** Locate the BLACK cap insert attached to the flow restrictor on the back of the main system bracket. Remove BLUE tubing lock clip and BLACK cap insert on the flow restrictor. Insert one end of the BLACK tubing and re-attach the BLUE tubing lock clip to secure tubing connection.
- VI. **Connect Drain Line to Saddle Valve:** Measure and mark 1 1/2" from the free end of the BLACK tubing. Insert remaining end of the BLACK tubing through the opening in the drain saddle until the marked location on the tubing is flush with the opening. Attach a provided BLUE tubing lock clip to secure tubing connection.

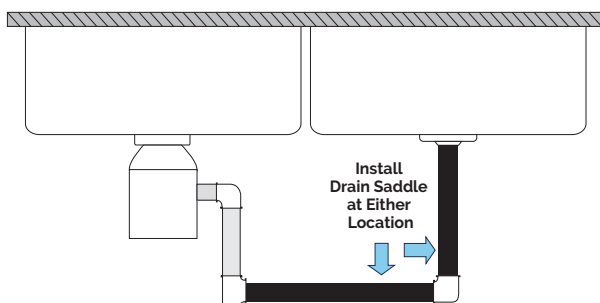


Fig. 10



Fig. 11

## Mounting the Faucet

### Note

If an existing hole in the sink is available, there is no need to drill a hole for the system faucet. If drilling a hole is necessary, be sure to clean up all debris from drilling before installing the faucet.

If drilling a hole in the sink or countertop is required to install the faucet, professional installation by a plumber is highly recommended. Olympia Water Systems is not responsible for any damage resulting from faucet installation.

- I. **Faucet Location:** If drilling a hole is required to install the faucet, be sure to choose a location in the sink or countertop that is convenient for dispensing water and has a sufficient flat surface for the faucet to be installed properly. Ensure that the threaded shank of the faucet can be easily accessed from below.
- II. **For Stainless Steel Sinks:** Wear safety glasses to protect your eyes. Ensure location for hole is clean and dry. A pilot hole or indent with a center punch is recommended before using the 1/2" drill bit on a stainless steel sink.

**For Porcelain Sinks:** Wear safety glasses to protect your eyes. Before starting the drill, apply firm downward pressure on the drill bit until it breaks through the slick surface. Proceed with caution as porcelain sinks and tile countertops are easily chipped without applying proper pressure before starting the drill or if the drill bit gets hot.

- III. **Mount Faucet:** See Fig. 12. Using the provided washers, nuts, insert and sleeve; mount the faucet in the sink or countertop.

- IV. **Connect Faucet to System:** Locate the BLUE cap insert on the left side of the Stage 5 post carbon filter on the main system bracket. Remove BLUE tubing lock clip and BLUE cap insert from the post carbon filter. Insert the free end of the BLUE tubing and re-attach the BLUE tubing lock clip to secure tubing connection.

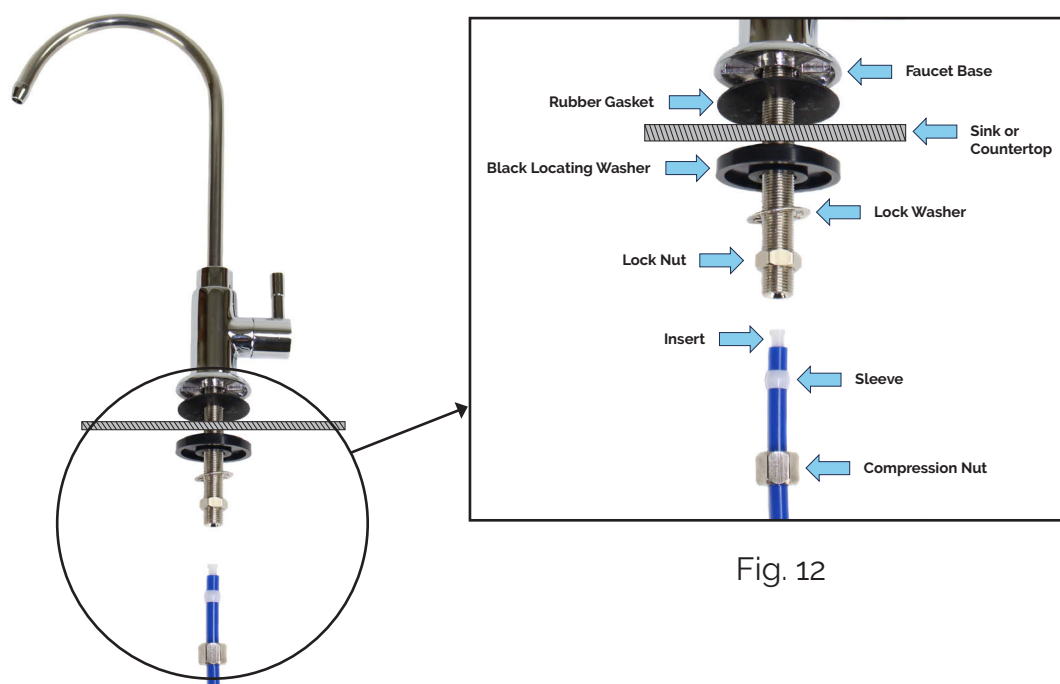


Fig. 12

## Connecting the Tank

### Important!

No air pressure needs to be added to the tank for installation, the tank is shipped pre-pressurized to the correct air pressure level (5-7 psi). Adding unnecessary air pressure to the tank may cause damage to the tank and prevent the system from working properly.

- I. **Attach Tank Ball Valve:** See **Fig. 13**. Apply 3-5 wraps of the provided Teflon tape to the threaded output stem on the top of the tank. Screw the provided tank ball valve onto the tank output stem.
- II. **Connect Tank Line to Tank:** See **Fig. 14**. Ensure that tank ball valve is in the OFF position. Insert one end of the YELLOW tubing into the tank ball valve and attach a provided BLUE tubing lock clip to secure tubing connection.
- III. **Connect Tank Line to System:** See **Fig. 15**. Locate the YELLOW cap insert attached to the right side of the Stage 5 post carbon filter on the main system bracket. Remove BLUE tubing lock clip and YELLOW cap insert on the post carbon filter. Insert one end of the YELLOW tubing and re-attach the BLUE tubing lock clip to secure tubing connection.



Fig. 13



Fig. 14



Fig. 15

## Connecting the System

- I. **Check Tubing Connections:** See **Fig. 16**. Ensure that both ends of all tubing connections are installed and secured with provided BLUE tubing lock clips.
- II. **System Water Inlet Connection:** See **Fig. 17**. Check that the feed water angle valve is in the OFF position.
- III. **Tank Input & Output:** See **Fig. 18**. Ensure that tank ball valve is in the OFF position.

## System Flow Diagram



Fig. 16

### Tubing Connections

- A. Connect WHITE tubing to Water Supply
- B. Connect BLUE tubing to System Faucet
- C. Connect BLACK tubing to Drain Saddle
- D. Connect YELLOW tubing to Storage Tank



Fig. 17



Fig. 18

## System Start-Up

- I. **Turn on Feed Water:** Turn cold water supply to ON position. See **Fig. 17** on page 11. Turn feed water angle valve to ON position to allow water to enter the RO system.
- II. **Open Tank Valve:** See **Fig. 18** on page 11. Turn tank ball valve to ON position.
- III. **Check for Leaks:** Check valves, fittings, tubing connections and housings to ensure there are no leaks.
- IV. **Clean-Up:** While RO system is filling the tank for the first time, clean-up all of the used tools and work area. Be sure to keep all provided tools in a safe place so they can be used for future RO system maintenance.

## Before the First Use

- I. **Wait for Tank to Fill:** Allow the RO system to run for approximately 3 hours to fill the tank. When the tank is filled, the RO system will automatically shut-off. The tank is full when you can no longer hear water running through the filters, or water flowing into the drain pipe.
- II. **Flushing the Tank:** To flush the tank, turn the RO system faucet ON and drain the water from the tank. The tank is empty when the pressure from the faucet drops from a steady stream to a slow trickle. Once the tank is empty, turn the system faucet OFF. Upon startup of the system, you may initially notice the water stream has a black tint. This is caused by the manufacturing of the carbon filters. You may also notice the smell of chlorine in the water from the sanitization of the rubber bladder in the water tank.

To flush out the carbon and chlorine, you may need to fill and empty the storage tank up to 5 times, where the water will be clear and you cannot taste the chlorine.

Congratulations, you have successfully completed the installation of your Olympia Water Systems Reverse Osmosis water filter system!

# Maintenance

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## Maintenance Schedule

This RO system was designed to ensure ease of use and low maintenance. If the filters are changed regularly as suggested below and is run within the suggested output capacity, the RO system should work properly for many years.

To assist with maintaining proper care of the RO system, use the System Service Schedule on page 17 to keep track of completed maintenance on the RO system.

### Important!

It is important to change the filters for stages 1, 2 and 3 at least every 6-12 months. The first 3 filters protect the RO membrane. If the filters are not changed, the membrane will be damaged and the RO system will be contaminated.

### Stage-1 Sediment Filter

#### Replace every 6-12 Months

If water source is from a private well or water source with high levels of heavy sediments; filter may need to be changed sooner.

### Stage-2 and Stage-3 Carbon Filter

#### Replace every 6-12 Months

If water source is from a private well or water source with high levels of heavy sediments; filter may need to be changed sooner.

### Stage-4 RO Membrane

#### Replace every 2-3 Years

Dependent on proper maintenance of stages 1-3 and level of water usage.

### Stage-5 Post Carbon Filter

#### Replace every 2,500 Gallons (9,500 Liters)

Usually replaced at the same time as the RO membrane.

## Replacement Filters

Olympia Water Systems offers replacement filters for both the OROS-50 and OROS-80 Reverse Osmosis water filtration systems. For purchasing information for replacement filters, please visit our website at [www.olympiafiltration.com](http://www.olympiafiltration.com).



## Filter Replacement

- I. **Turn off Cold Water & Tank Valve:** Turn cold water supply and tank ball valve to OFF positions. Turn system faucet to the ON position to release any built up pressure in the RO system. Once pressure has been released, turn system faucet to OFF position.
- II. **Open Housings:** See **Fig. 19**. Starting with the 1st stage, use the large provided wrench remove the filter housings one at a time by turning counter-clockwise.
- III. **Replace Filters:** Remove and discard the 3 used filters from the housings. Rinse out each housing to ensure there is no remaining dirt or particles still in the filter housings. If necessary, wash the housings by hand with a mild soap before rinsing. See **Fig. 20**. Insert the new 1st stage sediment filter and the 2nd and 3rd stage carbon block filters into the corresponding filter housings.
- IV. **Close Housings:** Starting with the 1st Stage housing on the right, hand twist the housing onto the main bracket turning clockwise under the 1st Stage label. Using the provided large wrench, completely tighten the 1st Stage housing onto the main system bracket. One at a time, hand twist and then tighten with the provided large wrench, the 2nd Stage and 3rd Stage housings under their corresponding labels on the main system bracket. See **Fig. 21**.
- V. **Check for Leaks:** Turn cold water supply and tank ball valve to ON positions. Check valves, fittings, tubing connections and housings to ensure there are no leaks.



Fig. 19



Fig. 20



Fig. 21



## RO Membrane Replacement

- I. **Turn off Cold Water & Tank Valve:** Turn cold water supply and tank ball valve to OFF positions. Turn system faucet to the ON position to release any built up pressure in the RO system. Once pressure has been released, turn system faucet to OFF position.
- II. **Remove Tubing from Housing:** See **Fig. 22**. Remove BLUE tubing lock clip and remove the tubing from the cap of the RO housing on the main system bracket. Using the provided small wrench, remove the RO housing cap by turning counter-clockwise.
- III. **Replace Membrane:** Remove and discard the used RO membrane. See **Fig. 23**. Remove and discard the plastic on the new RO membrane and insert the double banded end of the new RO membrane into the RO housing first.
- IV. **Close Housing:** Hand twist the RO housing cap back onto the RO housing by turning clockwise. Using the provided small wrench, completely tighten the cap onto the RO housing. See **Fig. 24**. Re-insert tubing into RO housing cap and re-attach BLUE tubing lock clip to secure tubing.
- V. **Check for Leaks:** Turn cold water supply and tank ball valve to ON positions. Check valves, fittings, tubing connections and housings to ensure there are no leaks.
- VI. **Flush Membrane:** Allow the RO system to run for approximately 3 hours to fill the tank. When the tank is filled, the RO system will automatically shut-off. The first tank of water must be drained to flush the new RO membrane. Do NOT use the first tank of water. Turn the RO system faucet to the ON position to drain the tank. The tank is empty when there is a noticeable drop in water pressure from the RO system faucet. Once the tank is empty, turn the system faucet OFF.



Fig. 22



Fig. 23

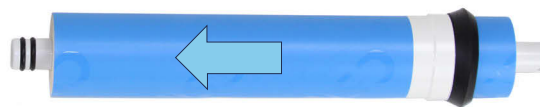


Fig. 24



## Post Filter Replacement

It is recommended to replace the post carbon filter at the same time the RO membrane is replaced.

- I. **Turn off Cold Water & Tank Valve:** Turn cold water supply and tank ball valve to OFF positions. Turn system faucet to the ON position to release any built up pressure in the RO system. Once pressure has been released, turn system faucet to OFF position.
- II. **Remove Tubing & Filter:** See **Fig. 25**. Remove BLUE tubing lock clips and tubing from each of the 3 tubing connections attached to the 5th stage post carbon filter. Remove the quick connect tee (**Point A**) from the filter as it will need to be installed on the replacement filter. Remove the used filter from the mounting clips and discard the used filter.
- III. **Connect Fittings to New Filter:** When placing the new 5th stage post carbon filter on the main system bracket, ensure that the FLOW arrow on the filter is pointing towards the water output (BLUE tubing). See **Fig. 25**. Re-insert the quick connect tee (**Point A**) and the 3 tubes into the new 5th stage filter and re-attach the 3 BLUE tubing lock clips to secure tubing connections.
- IV. **Check for Leaks:** Turn cold water supply and tank ball valve to ON positions. Check valves, fittings, tubing connections and housings to ensure there are no leaks.
- V. **Flush Filter:** Allow the RO system to run for approximately 3 hours to fill the tank. When the tank is filled, the RO system will automatically shut-off. The first tank of water must be drained to flush the new post carbon filter. Do NOT use the first tank of water. Turn the RO system faucet to the ON position to drain the tank. The tank is empty when there is a noticeable drop in water pressure from the RO system faucet. Once the tank is empty, turn the system faucet OFF.



Fig. 25

# System Service Record

Date of Purchase: \_\_\_\_\_ Date of Install: \_\_\_\_\_ Installed By: \_\_\_\_\_

Date	1st Stage Sediment	2nd Stage Carbon	3rd Stage Carbon	RO Membrane	Post-Filter Carbon

Notes:

# Troubleshooting Guide

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If you encounter any issues other than those listed in this guide or if the issue is not solved by following this troubleshooting guide, please contact Olympia Water Systems for support.

## Tank Ball Valve Leaking

If there is a leak from where the tank ball valve attaches to the tank, there may not be enough Teflon tape applied to the tank stem before installing the tank ball valve. To resolve this issue, the tank will need to be emptied before the tank ball valve can be removed.

- I. **Empty the Tank:** Turn OFF the feed water angle valve and turn the system faucet ON to allow the water from the tank to drain out. The tank is empty when there is no water flowing from the faucet.
- II. **Remove the Tank Ball Valve:** Once the tank has been emptied, turn OFF the system faucet and remove the tank ball valve by unscrewing the valve from the tank stem.
- III. **Apply Teflon Tape:** Apply 5-7 wraps of Teflon tape to the tank stem before re-installing the tank ball valve.
- IV. **Check for Leaks:** After the tank ball valve has been re-installed, turn ON the feed water angle valve and double check for leaks.

## Tubing Connection Leaking

If there is a leak from any of the tubing connections on the system please check the following:

- I. **Re-Insert Tubing:** Ensure the tubing has been inserted into the quick connect fitting correctly. To check this, the feed water angle valve and the tank ball valve will need to be turned OFF. Turn on the system faucet to release any remaining pressure in the system. Once the pressure is released, turn the faucet off. Remove the tubing and re-insert into the quick connect fitting, making sure that the tubing goes into the fitting as far as possible. Turn ON the feed water angle valve and the tank ball valve and check for leaks.
- II. **Trim Tubing:** The end of the tubing may not be cut straight. To check this, the feed water angle valve and the tank ball valve will need to be turned OFF. Turn on the system faucet to release any remaining pressure in the system. Once the pressure is released, turn the faucet off. Remove the tubing and cut off 1/4" from the end of the tubing with a pair of scissors (ensure the cut is as straight as possible). Insert the freshly cut end of the tubing into the quick connect fitting. Turn ON the feed water angle valve and tank ball valve and check for leaks.
- III. **Check Fitting:** If the leak is coming from where the quick connect fitting connects to the system, the quick connect fitting has likely been damaged and will need to be replaced. If your system is still under warranty, please contact us for a replacement part. If your 1 year system warranty is expired, the replacement quick connect fittings are available for purchase in our online store at [www.olympiafiltration.com](http://www.olympiafiltration.com).

## Stage 1-3 Filter Housing Leaking

- I. **Tighten Housings:** Ensure the filter housings have been tightened using the provided large wrench.
- II. **Check O-Rings:** The black rubber o-ring inside the leaking housing(s) may not be seated correctly or may be defective. To check this, the feed water angle valve and the tank ball valve will need to be turned OFF. If the system is full of water, turn the system faucet ON to drain the water from the housings. Once the water has been drained, turn the faucet off. Use the provided large wrench to unscrew the housing and check that the o-ring inside is seated securely in the groove. Re-attach the housing(s) by hand tightening and then using the provided large wrench to tighten. Turn ON the feed water angle valve and check for leaks. If there are no leaks, turn ON the tank ball valve.

## No Water from System Faucet

- I. **Installation:** Please verify that all provided installation instructions have been followed correctly and that all the tubing connections are properly installed. The tank may be empty if the system has just been installed or has just completed a system flush after filter installation. If this is the case, you may hear the system and tank filling. It can take approximately 3 hours for the tank to fill completely.
- II. **Check Valves & Tubing:** Check that the cold water supply, feed water angle valve and tank ball valve are in the ON position. Check that none of the tubing lines are crimped and restricting water flow.
- III. **Incorrect Tank Pressure:** The included system tank is pre-pressurized (5-7psi) and does not require air to be added during installation. If air is added to the tank and the pressure is too high, the air bladder will fill the space in the tank designed for water.

## Slow Flow from System Faucet

- I. **Installation:** Please verify that all provided installation instructions have been followed correctly and that all the tubing connections are properly installed. The tank may be empty if the system has just been installed or has just completed a system flush after filter installation. If this is the case, you may hear the system and tank start automatically filling. It can take approximately 3 hours for the tank to fill completely.
- II. **Check Valves & Tubing:** Ensure that the feed water angle valve and tank ball valve are completely in the ON position. Check to make sure none of the tubing lines are crimped and restricting water flow.
- III. **Incorrect Tank Pressure:** The included system tank is pre-pressurized to 5-7psi. If the water flow from the system faucet is slow, the tank air pressure may need to be re-charged. Please note that to check the tank air pressure the tank must be empty. Once tank is empty, turn off the tank ball valve and remove the blue cap on the front of the tank. Use an air pressure gauge to test the current air pressure in the tank. If the pressure is below 5psi, use an air compressor or bicycle pump to re-pressurize the tank to the correct psi.
- IV. **Low Source Water Pressure:** The system requires 50-100psi of water supply pressure to function properly. If the water supply pressure drops below 50psi, the flow from the system faucet will be slow.

## System Does Not Shut-Off or Shut-Off is Slow

- I. **Low Source Water Pressure:** The system requires 50-100psi of water supply pressure to function properly. If the water supply pressure drops below 50psi, the system shut-off will be slow or will not shut-off.
- II. **Automatic Shut-Off Valve or Check Valve Issue:** To check this, there must be water in the tank.
  - Turn the feed water angle valve and tank ball valve OFF. Turn on the system faucet to release any remaining pressure in the system. Once the pressure is released, turn the faucet off.
  - Remove the black drain line tubing from the drain saddle valve and place the end of the tubing in a bucket to catch any drainage. While the tubing is in the bucket, turn the tank ball valve ON.
  - If water begins to drain into the bucket, the check valve is defective and needs to be replaced.
  - If no water drains into the bucket, the check valve is fine and the issue is being caused by a defective Automatic Shut-Off Valve and it will need to be replaced.
  - If your system is still under warranty, please contact us for a replacement part. If your 1 year system warranty is expired, the replacement parts are available for purchase in our online store at [www.olympiafiltration.com](http://www.olympiafiltration.com).
- III. **Multiple Outlets:** If you have the system feeding multiple outputs (i.e. icemaker, aquarium, additional faucets) the system will be running as long as necessary to make filtered water for the other outputs and the system tank.
- IV. **Filter Replacement:** Clogged pre-filters will reduce the feed water pressure in the system. Check the Stage 1 Sediment filter to see if it is very dirty and has become discolored. If this has occurred in 3 months or less, your feed water supply has heavy sediments and you will need to replace the Stage 1 Sediment filter in your system frequently.

## Poor Taste

- I. **RO Membrane:** Ensure RO membrane has been installed. The RO membrane is the most important filter in the system as it removes the most impurities from the water.
- II. **System Flush:** Ensure that the correct flushing procedures have been completed before drinking the water from the system. As indicated in the owner's manual, flushing the system should be done after the initial installation of the system and each time the filters and/or membrane are replaced.
- III. **Stage-5 Filter Replacement:** The stage 5 post carbon filter needs to be replaced. The post carbon filter reduces chlorine, taste and odor
- IV. **Filter Replacement:** The filters and/or membrane need to be replaced. Proper maintenance of the system is necessary to keep the system working properly. Be sure to replace the filters and membrane regularly according to the owner's manual maintenance schedule.

## Air Bubbles

Air bubbles from the system faucet is normal if the system has been recently installed or the filters and/or membrane have been replaced. The system will slowly purge the accumulated air with continued use. The time it takes to completely purge the air from the system varies with different water pressure, water properties and system usage. If you would like to purge the air more quickly after installing new filters and/or membrane, you can drain an additional 1-2 tanks after the normal flushing procedure before drinking water from the system.

## Clicking Noise from System

Since the RO system uses water pressure to run, the system and the tubing will be under pressure after the system has filled the tank. Once you start dispensing water from the system faucet, the system will turn on to begin the process of refilling the tank. Because the system is under pressure, this can cause the tubing to jump and hit against the inside of the cabinet or the side of the system, which is what is causing the clicking noise. To prevent this clicking noise, you can shorten the length of the system tubing to reduce movement when the system is turned on.

## Vibrating or Humming Noise

Air bubbles can accumulate in the system which causes a vibrating or humming sound from the system when it is running.

- I. **Turn Off Tank:** Turn the tank ball valve OFF.
- II. **Tilt the System:** Tilt the RO system at least 45 degrees so that only the stage 1 filter housing is touching the floor. Tilting the system helps remove the accumulated air bubbles.
- III. **Turn On Faucet:** Keeping the system tilted, turn on the system faucet and let water run from the faucet for 1 minute and then turn off the system faucet. Wait 20-30 seconds and repeat this step 3-4 times.



# Technical Information

## Performance Data Sheet

Olympia Water Systems Reverse Osmosis Water Filtration System Performance Data					
Model	Operating Pressure	Operating Temperature	Recovery Rating	Efficiency Rating	Daily Production
OROS-50	50-100 PSI 344-689 kPa	40-100° F 5-38° C	28.41%	19.65%	16.79 GPD
OROS-80	50-100 PSI 344-689 kPa	40-100° F 5-38° C	26.70%	17.37%	20.72 GPD
Olympia Water Systems • 25 South 51st Avenue Phoenix, AZ 85043 • 1-800-516-2495					

Olympia Water Systems' OROS-50 and OROS-80 have been tested according to NSF/ANSI 42 and 58 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42 and 58.

NSF/ANSI 42 Substance	Influent Challenge Concentration mg/L	Maximum Permissible Concentration mg/L
Chlorine	2.0 mg/L ± 10%	≥50%

NSF/ANSI 58 Substance	Avg. Inf. mg/L	Avg. Eff. mg/L	% Reduction	Max. Eff. mg/L	Inf. Challenge Concentration mg/L	Max. Permissible Concentration mg/L
TDS (Model OROS-50)	770	53	93.0%	60	750 ±40 mg/L	187
TDS (Model OROS-80)	770	40	94.8%	44	750 ±40 mg/L	187

- Do not use this system with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Testing was performed under standard laboratory conditions, actual performance may vary.
- See owner's manual for general installation/operation/maintenance conditions and needs as well as manufacturer's limited product warranty.
- Efficiency rating means the percentage of the influent water to the system that is available to the user as reverse osmosis treated water under operating conditions that approximate typical daily usage.
- Recovery rating means the percentage of the influent water to the membrane portion of the system that is available to the user as reverse osmosis treated water when the system is operated without a storage tank or when the storage tank is bypassed.



# Warranty

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## Limited Product Warranty

### Scope

Olympia Water Systems, LLC ("Olympia") expressly warrants to the original purchaser that its Reverse Osmosis System and components (the "Product") will be free of defects in material and workmanship for use under normal care for a period of one (1) year from the date of purchase (the "Warranty Period"). During the Warranty Period and subject to the limitations and exclusions set forth below, Olympia will, at its option, replace the Product or refund the Product purchase price if the Product fails to satisfy this Limited Product Warranty. This warranty does not cover labor.

No warranty is given as to the service life of any filter cartridges or membrane as this will vary depending on local water conditions and water input.

### Limitations and Exclusions

Except as otherwise expressly provided above, Olympia makes no warranties, express or implied, arising by law or otherwise, including without limitation the implied warranties of merchantability and fitness for a particular purpose, to any person. This Limited Product Warranty may not be altered, varied or extended except by written instrument executed by Olympia. The remedies of replacement or refund of the Product purchase price are exclusive and are the sole obligations of Olympia under this Limited Product Warranty. Olympia will not be liable for any loss or damage arising from installation and use of the Product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence, or strict liability. Some states and countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

### Conditions of Validity of this Limited Product Warranty

This Limited Product Warranty shall only be valid if:

- I. The replaceable filters and membrane are changed and maintained on a regular basis as directed in the Instruction and Owner's Manual. In some areas, the amount of impurities present in the local water supply may require that the filters and membrane be replaced on a more frequent basis.
- II. The Product is operated in compliance with the operating conditions specified in the Installation and Owner's Manual.
- III. The person seeking to invoke this Limited Product Warranty is the original purchaser of the Product.

## Non-Covered Defects

This Limited Product Warranty does not cover defects caused by:

- I. Improper storage, installation, maintenance, handling, use and/or alterations of the Product, including but not limited to non-compliance with the installation, maintenance and standard operation conditions stated in the Instruction and Owner's Manual.
- II. Unreasonable use, unintended use, or misuse of the Product for something other than its intended use as a reverse osmosis system.
- III. Damage not resulting from manufacturing defects that occur while the Product is in the original purchaser's possession.
- IV. Installation of the Product with known or visible manufacturing defects at the time of installation.
- V. Damage caused by freezing, flood, fire or Act of God.





**Olympia Water Systems**

430 N. 47th Avenue  
Phoenix, AZ 85043

*For questions or comments please visit our website at:*

[OlympiaFiltration.com](http://OlympiaFiltration.com)

*For technical support contact us at:*

[Support@OlympiaFiltration.com](mailto:Support@OlympiaFiltration.com)  
1-800-516-2495