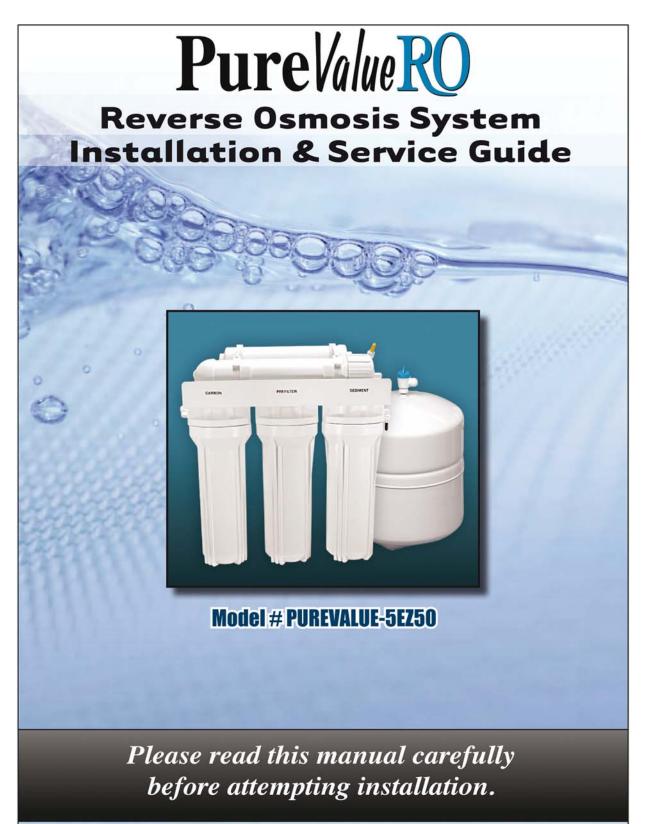
Filtration PerfectEau inc.

Traitement d'eau résidentielle: Évaluation, conseil, installation, entretien et réparation www.perfecteau.ca t: 450-432-8487 c: info@perfecteau.ca



Please read this entire service guide prior to beginning installation.

The PureValue reverse osmosis drinking water system has been designed for quick and simple installation and maintenance. By carefully reading this instruction manual and following the operational guidelines you will insure a successful installation and reliable operation. Routine maintenance is essential to the longevity and performance of the system. Filters should be changed every six to twelve months depending on the quality of the feed water supply.

CONDITIONS FOR OPERATION

Source Water Supply - TFC		
Community / Private	Non-Chlorinated	
System Pressure	30-100 psi	
Temperature	4°-38° C (40°-100° F)	
pH Range	3.0-11.0	
Maximum Supply TDS Level	2000 mg/L	
Turbidity	<1.0 Net Turbidity (NTU)	

TFC - Thin Film Composite

Chemical Parameters - TFC		
Hardness (CaCo3)	< 350 mg/L (< 20 gpg)	
Iron (Fe)	< 0.1 mg/L	
Manganese (Mn)	< 0.05 mg/L	
Hydrogen Sulfide (H ₂ S)	0.00 mg/L	
Chlorine (C ₂)	0.00 mg/L	

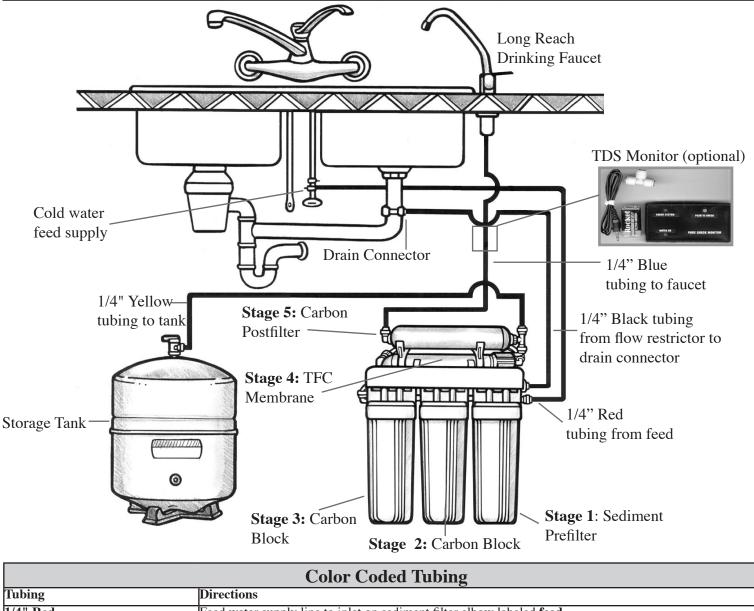
CAUTION

Do not use this system where the water is microbiologically unsafe Or of unknown quality. This system is for use on potable water only. Source water exceeding chemical parameters requires pretreatment.

<u>Do Not Use the First Two Reservoirs of Water</u>

Allow the reservoir to fill for 4-6 hours. Dispense this water to drain. This process removes the factory installed sanitizing solution from the entire system and sends it to the drain. Repeat this process one more time. Allow the tank to fill for 4-6 hours and dispense this water to the drain.

System and Faucet Diagrams



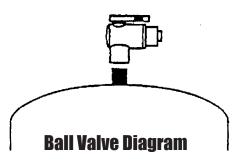
1/4" Red	Feed water supply line to inlet on sediment filter elbow labeled feed
	Carbon post filter elbow labeled faucet to center threaded shank of faucet to faucet connector
1/4" Yellow	Carbon post filter tee labeled tank to ball valve on storage tank
1/4" Black	Flow restrictor labeled drain to airgap faucet. 1/4" barbed connector

Please Call Your Local Water Professional For Parts Replacement

 Supply Feed 1/4" Male Connector Filter Housing Filter Housing 'O-Ring 5 Micron PreFilter Carbon Block Carbon Block 1/4" Nipple 1/4" Male Elbow Check Valve Bracket Auto Shut Off Valve (ASO) 2.5 Clips Membrane Housing 	VV-WWC-1 & WNV-4 Cl010822W 158125 143026 1013231 32-250-125-975 32-250-125-975 PN-4-K Cl480822W SCV-Cl480821W A-FM60W FC-ASV4000JG PPC212W MH-200WL/3	 15. 1/4" Male Connector 16. In-Line GAC 17. Double Clip 18. Stem Adaptor 19. Reducing Tee 20. Ball Valve 21. Tank 22. Air Gap Faucet 23. Drain Connector 24. Membrane 25. Flow Restrictor 26. TDS Monitor 27. Faucet Connecotor 28. Filter Wrench 	CI010822W K2533-JJ PPC205W PI051222S PI301208S 7070490 TKE-3200W N103H3PI PDC60414M 1204694 FC-DR300Q/2 PURCHECK-1 CI3208U7S FW10F
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Starting Your Installation

Mounting the Tank Ball Valve



Note: Do not tamper with the air valve on the storage tank. It has been preset and screwed on with blue cap by the manufacturers.

(1) Wrap the threads on the top of the water storage tank 3 times with plumbers (teflon) tape only. Make sure it is tight, but not over tight.

(2) Connect the tank ball valve assembly to the top of the water storage tank.

(3) Connect the tube from the RO module to the water storage tank.

Preparation

Check the following list of components to ensure that all parts are packed with your system.

- 1 Storage Tank
- 1 RO System
- 1 Faucet
- 1 Installation Kit

Determine the location for the installation of the RO system. Avoid locations where the system might come in contact with hot water pipes or other hazards.

Determine the location for the faucet. Check to see

that drilling the faucet hole will not damage pipes or wires running underneath the sink.

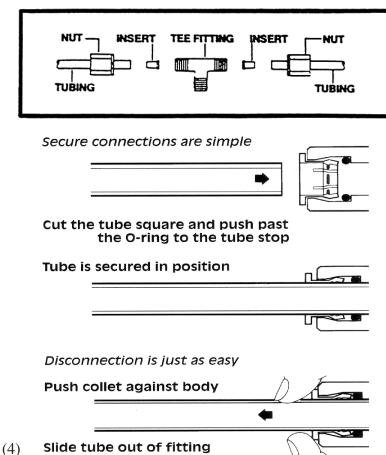
Determine the location for the storage tank. A maximum distance from tank to faucet of 15 feet is possible. The system will produce a faster flow at the faucet with the shortest tubing run from tank to faucet.

Non-Air Gap Faucet Assemble Hardware As Shown Escutchon Plate Black Rubber Washer - Counter Top **Black Locating Washer** Lock Washer (used where a 1/2" hole is available, reverse when mounting on stainless Nut steel or when using drilled hole) - 3/8" Adapter & Seal 1/4" Tube Insert (Sleeve)-H L - 3/8" Tube Insert (Sleeve) 1/4" Ferrule-1/4" Compression Nut --3/8" Ferrule Ð m - 3/8" Compression Nut

Fittings and Tubing

Compression fittings are used throughout the system. To insure a optimal seal, tubing should be cut with the end square. An angled cut or distortion of the tubing will not provide an efficient seal and may cause leaks.

To Install a tube, push in the collet until it seats firmly. To remove a tube, push in the collet and pull out the tube.



Shut Off the Water

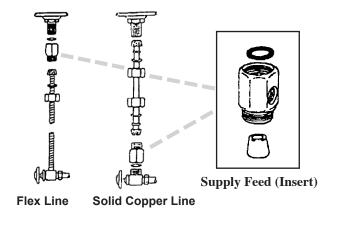
Locate the water shut-off valve for the cold water feed line you choose to use for the supply. Accidentally hooking up the system to the hot supply line will permanently damage the membrane (See Conditions for operation). To assure you are using the cold water line, turn on both the hot and cold faucet. After the water is warm to the touch, feel the pipes under the sink. It will be easy to identify the hot and cold pipes.

Close the cold water valve. Turn on the cold water faucet only to assure that the line is completely shut off and the line is drained.. If no shut off valve is located under the sink, turn off the main supply at the entry to the house.

Installing Supply Feed

(A) Flex Line: Loosen nut and separate cold water riser tube from faucet shank. Gently bend riser tube so that slip joint fits onto faucet shank. Replace the existing cone washer with new washer provided in installation kit onto cold water riser tube. Reinstall riser tube onto slip joint adapter and tighten.

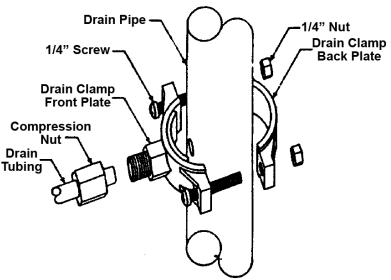
(B) Solid Copper Riser Tube: Same procedure as flex tubing except you must cut a piece of the riser tube about 3/4" to 1" so the slip joint adapter can fit between faucet and riser tube (Teflon tape must be used on slip joint adapter to prevent leaks).



Installing the Drain Clamp

Select a location for the drain hole based on the design of the plumbing. Position the drain outlet saddle on the drain pipe. Allow adequate space for drilling. Tighten the bolts evenly on both sides. Avoid overtightening.

Using the opening in the drain outlet saddle as a guide, drill a 1/4" hole in the drain pipe. Clean debris from the saddle and threads.



NOTE: Some states require the use of an air gap faucet. Check your local plumbing code to assure compliance. Locate the drain connection away from the garbage disposal to prevent potential contamination and system fouling.



Installation - Product Water Faucet

Drilling the Faucet Hole

The product water faucet may be installed on any flat surface at least 2" in diameter. Check the underside of the location for interference.

Porcelain/Enamel Sinks

A 3/8" variable speed drill is recommended for this procedure.

A spring loaded Relton style drill set is strongly recommended to prevent chipping.

The plastic sleeve supplied on the pilot drill is to be positioned on the drill bit against the drill chuck. This prevents the chuck from contacting the porcelain after the pilot hole has been completed.

Avoid high motor RPM during the initial cutting of the porcelain as this can cause chipping.

Using a carbide tipped drill bit, drill a pilot hole completely through the porcelain and the material underneath.

Place the spring loaded porcelain saw into the drill chuck. Make sure the pilot guide is inserted tightly. Insert the pilot guide into the pilot hole. Push down gently on the drill motor to apply light pressure to the porcelain surface. Start the drill motor turning as slowly as possible.

After the initial cut has started, motor speed may be gradually increased. The cut may require three to four minutes to complete. Going faster could result in excessive chipping. This saw is used to cut the porcelain only. Be sure a complete ring has been cut through the porcelain to the metal underneath.

Place the finish hole saw into the drill chuck. Make sure the pilot guide is inserted tightly. Insert the pilot guide into the pilot hole. Begin cut using a slow speed and light pressure until the metal has been penetrated.

Stainless Steel Sink

Make a small indent to mark the desired drilling location using a center punch. Drill a pilot hole with a 1/8" metal drill bit. Enlarge the hole using a 3/8" metal drill bit.

Tile Counter Top

Follow the procedures outlined in the Porcelain/ Enamel Sinks section.

Faucet Installation

Once the hole has been drilled in the sink, the faucet may be located in the hole. Be sure the faucet body, faucet base, and the rubber faucet base washer are in place above the sink.

Install the star lock washer and nut, then tighten firmly while aligned faucet in the desired direction.

Additional Point of Use Connection

NOTE: Icemakers typically use 1/4" tubing as the water feed line. Use a reducing union fitting to make this connection

To connect an additional point of use (icemaker, extra faucet, etc.), place a 'T' connector in the 1/4" line between the faucet and the RO system.



Drilling with the recommended Relton cutter

The Pilot Drill is used to drill a hole completely through to provide a guide for both the Porcelain Saw and Finish Hole Saw.

The Porcelain Saw is used to cut through the porcelain surface only. This saw cuts a smooth, chip-free, beveled groove through the porcelain to the metal base.

The Finish Hole Saw is used to cut the remaining metal through to create the hole of the desired finish size.

Activation, Troubleshooting, Maintenance

Activating the System For the First Time

Make sure all water supply/drain lines are secure and free from leakage.

Slowly turn the saddle valve counterclockwise until fully open. Check stem seal for leakage. If necessary tighten stem nut lightly. Turn storage tank valve one quarter turn counterclockwise to open the valve (the handle should be in line with the tubing as it enters the connection).

Open the product water faucet and let the water flow until all the air has been expelled from the system. This will take about an hour.

Close the product water faucet. In 30 minutes, check the connections for leaks and correct if necessary.

Do Not Use the First Two Reservoirs of Water

Allow the reservoir to fill for 4-6 hours. Dispense this water to drain. This process removes the factory installed sanitizing solution from the entire system and sends it to the drain. Repeat this process one more time. Allow the tank to fill for 4-6 hours and dispense this water to the drain.

Maintenance- Imperative to follow the sequence as outlined

Note that filters are labeled for easy servicing.

- 1) Open the RO faucet and let the tank drain completely. Leave the faucet open until the filter change is complete.
- 2) Remove the pre-sediment cartridge.
- 3) Remove the pre-carbon cartridge.
- 4) Remove the membrane cartridge The membrane may be reused indefinitely as long as the TDS level and other troubleshooting guidelines are met.
- 4) Remove the post-carbon cartridge.
- 5) Install the new filters.
- 6) Turn on the system and inspect for leaks.
- 7) Drain the first tank of water after changing the filters before drinking. When the membrane is changed, drain the first two tanks of water before drinking.

Troubleshooting			
Problem	Reason	Solution	
Water has an offensive odor / taste	Carbon post filter is depleted	Drain storage tank & replace post filter	
Water has an offensive odor / taste	Filters are depleted	Replace filters & sanitize system	
Not enough product H ₂ O Pressure	Storage tank air pressure is low	Empty storage tank and set pressure to 8 psi (55kPa)	
Not enough water	Low water pressure	If line pressure is below 30 psi install a booster pump	
Not enough water	Water supply is blocked	Clear restriction, rotate valve on feed water	
Not enough water	Storage tank is depleted	Consider an increase in tank or membrane capacity	
Not enough water	Clogged pre-filter cartridge	Replace prefilter, drain tank and sanitize system	
No drain water	Clogged flow restrictor	Replace flow restrictor, check TDS monitor	
No water	Water supply is turned off	Turn water on	
Under sink is wet	Leak from valve, faucet or fitting	Dry everything with towels to isolate leak, identify and fix.	
TDS monitor shows red	High TDS in product water	Replace RO membrane, check flow restrictor	



PureValue Limited Warranty

The PureValue reverse osmosis system is warranted to be free from defects in materials and workmanship under normal use within the operating parameters listed below. For a period of twelve months from the date of purchase PureValue will repair or replace any part of the reverse osmosis system with the exception of the filters and battery.

Conditions of Warranty

The above warranty does not apply to any part of the PureValue reverse osmosis system that is damaged because of neglect, misuse, alteration, accident, misapplication, physical damage, fouling, and/or scaling of the membrane by minerals, bacterial attack, sediment or damage caused by fire, freezing, hot water, or an act of God.

PureValue assumes no warranty liability in connection with this reverse osmosis system other than as specified herein. PureValue shall not be liable for consequential damages of any kind or nature due to the use of PureValue products.

Warranty Service

Warranty service will be provided by PureValue under the following conditions:

1) Contact your local dealer who will obtain return authorization instructions.

2) Ship the unit or part freight prepaid for warranty evaluation or service. Unit must be returned in the original carton or packaged to prevent possible damage. Systems or parts covered under the warranty shall be repaired (or, at our option replaced) and returned without charge.

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Source Water Supply - TFC		
Community / Private	Non-Chlorinated	
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