



My Water Filter

REVERSE OSMOSIS INSTALLATION 5 Stage High Alkaline

BRIEF TECHNICAL ASPECT OF THE WATER TREATMENT SYSTEM

This Water Filter Treatment System utilizes a process called reverse osmosis (RO). As the heart of the purification system, the RO process uses semi-permeable spiral-wound membranes to separate and remove dissolved solids, organic, pyrogens, sub-micron colloidal particles and bacteria from water. Feed water is delivered under pressure at about 60 PSI through the permeator where water permeates the minute pores of the membrane and is delivered as purified water. Impurities in the water are concentrated in the reject stream and flushed to drain. Your newly purchased Reverse Osmosis System is capable of removing between 90% to 96% of the total dissolved solids (TDS), organics, and bacteria.

Important

We suggest you read and become familiar with all instructions, processes, and parts prior to proceeding with the installation. Please see back page for information on protection equipment.

BEFORE YOU START:

PLEASE NOTE – All components that come pre-assembled will require tightening and checking before installation. Due to transit, fittings and other components may be loosened or unseated from vibrations so please go along and check all things including but not limited to: Tubing, Fittings, tubing connections (between tube and fitting), O-rings, housings and filters.

Prior to installing the feed water assembly, please make sure that the following water conditions are met:

<u>Feed Water Condition</u>	<u>Min.</u>	<u>Max.</u>
Inlet Pressure	45 PSI	100 PSI
Temperature	4.5°C	38°C
pH Level	2	11
TDS Level	0 mg/L	2000 mg/L

- All local plumbing codes must be followed.
- All tubing must be cut in a straight line with Tube Cutter Supplied

Ready to start

- Locate cold water supply, suitable hanging and fitment room for system and tank.
Locate the drain point, and sink faucet placement.

FEED WATER INSTALLATION:

Locate cold-water flex line ½" to cold water faucet tap on sink, turn off water supply, open cold water faucet to release the pressure.



Picture indicates accessing water via the ½" flex line to cold water mixer tap. Thread tape must be applied when joining the valve to the adaptor block shown above. Please note that tubing colour on your systems is white, not blue as pictured.

Picture shows PLV when PLV is provided. If PLV is not provided tubing is continuing through to the filter system



NOTE; some models may contain this fitting.
If so, this fitting is designed to replace the chrome
Adaptor block and brass ball valve tap pictured above

DRAIN CLAMP INSTALLATION

1. The drain clamp should be drilled, installed below the trap and on the vertical or horizontal tailpiece (see figure 2).
2. The hole position on the pipe should be marked and drilled with a 1/4" bit through one side of the pipe (see figure 3)
3. Align the drain clamp over the drilled hole and attach it to the drainpipe and tighten the two screws evenly (see figure 4).

Figure 2. Drain Clamp Location
ENSURE YOU INSTALL AFTER S
BEND ON THE DOWNPIPE

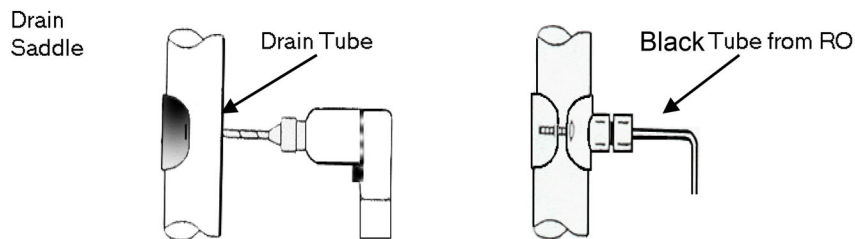


Figure 3. Drain clamp drill

Fitting the Faucet to the sink

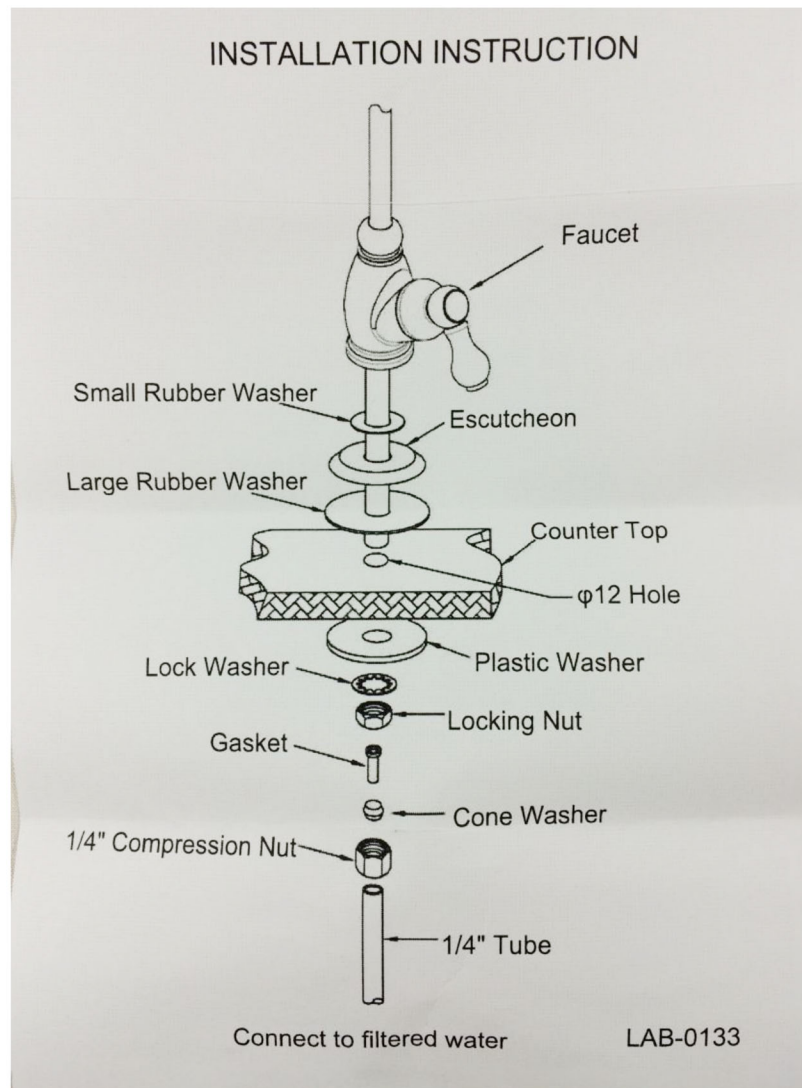
Stainless Steel Sinks & Porcelain Sinks:

1. Drilling through a stainless-steel sink can be achieved by marking a center punch and drilling a 3/16" guide hole.
2. Use a 1/2" or 7/16" carbide or very sharp drill to enlarge the hole.
3. Make sure when starting to drill, begin slowly through the porcelain portion of the sink so that chipping is reduced to a minimum.
4. On stainless steel, a very sharp drill bit and low speed is essential, or you risk burning the surface of the sink.

MOUNTING THE FAUCET:

1. Disassemble the bottom portion of the faucet.
2. Place into hole of sink and reassemble faucet from underneath sink.

STANDARD FAUCET



STORAGE TANK ASSEMBLY:

1. Use Teflon tape and wrap the nipple on the top of the storage tank and the 90-degree elbow supplied.
2. Install the ball valve onto the tank nipple.

Assembling the System:

STEP 1: Remove Components from Box, check all items are in box.



STEP 2: Disconnect tubing from Membrane housing



STEP 3: Un-screw membrane cap
And ensure the o-rings are correctly Seated.



STEP 4: Un-Wrap Membrane
Ensure that you only handle the filter
By the end stems.



STEP 5: Firmly insert the membrane
The end with the dual o-rings goes in
First as shown.



STEP 6: Tighten the membrane
firmly



STEP 7: Un-Wrap and load cartridges.
The order from right to left is sediment
then carbon as shown.



STEP 8: Screw up the housings by
hand in an **upright** position, ensure
Filters line up correctly with housing



STEP 9: Firmly tighten housings
Using the provided spanner.
The housings must be tight to avoid
Leaks.



STEP 10: The labels may not always
Line up with the front of the system so
ensure the system is sufficiently
Tightened as shown

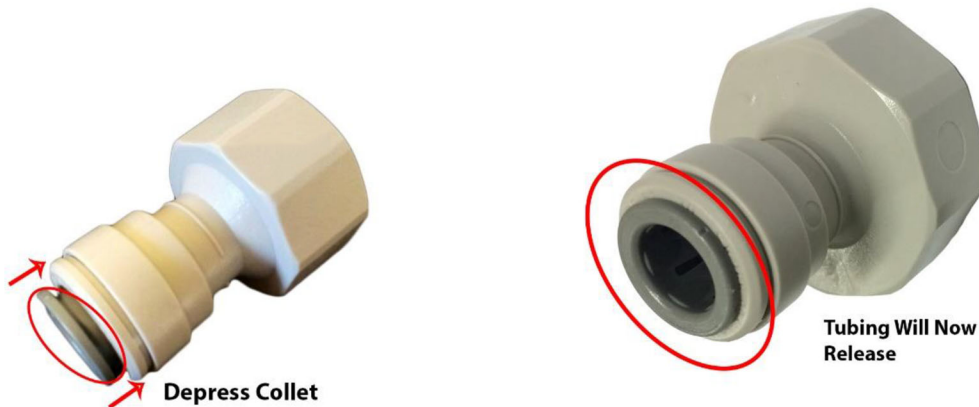


You are now ready for installation

Connecting the RO system:

Using Push-Fit fittings aka “John Guest” fittings:

If you come across a push-fit fitting, you need to firmly push the tubing into the opening until you feel a “click” which signifies that the tubing has pushed through the internal O-ring and is seated correctly. If leaking occurs, it may be due to roughly cut tubing OR the tubing is not pushed in far enough. To remove tubing from push-fit fittings, depress the floating collet (shown in below photo), then pull the tubing out.



1. Measure length of White tubing from your cold-water inlet (mains water inlet tee)
 - Firmly push in tubing to the $\frac{1}{4}$ " fitting on the Tee and screw tight to lock the tubing in.
 - Firmly push the inlet tubing into the “Inlet” Of the RO system also labeled “Dirt Sediment Filter”
2. Measure and cut length of Yellow tubing between the storage tank and Xstream Alkaline cartridge (Marked as “tank” on the Tee fitting. (**NOTE:** water goes in and out of the same line to the storage tank)
3. Connect filtered water to Facet tap on sink (Refer to previous Faucet Installation)

SYSTEM START UP:

1. Once you are confident that all components are assembled correctly, slowly turn on the inlet water and inspect the system thoroughly for leaks.
2. Once system has been checked, open the valve on top of the storage tank and the system will kick back in and begin filling the tank full of Reverse Osmosis Water.

NOTE: At NO point does the pressure valve on the bottom of the storage tank need to be tampered with or used. The water enters and exits the storage tank through the **SAME LINE** on the top of the tank. There is NO need to touch pressure valve at any point. The tank is preset to 7 PSI. Anything above or below that figure will cause to tank to not function as intended.

3. **IMPORTANT FOR 5 STAGE SYSTEMS:** When Starting up system, keep the faucet tap open and close the storage tank. This will force the water to fill the system and remove most of the trapped air, when water begins to come out of the tap at a constant speed, close the tap and then open the tank valve. Once the tank is entirely full (approx. 1-2 Hours) open the sink top faucet and allow the entire tank to drain. This will flush the filters and the tubing prior to use. This is important as the filters are no longer pre-washed due to potential bacteria contamination. This process also helps to flush out the anti-bacterial solution which these units are factory treated with.

4. The system will automatically start to fill the storage tank again.

5. The system is ready to provide you with fresh and purified water. In some cases, there may be a lingering taste in the water, which can be described as a metallic or chemical taste, this is only the carbon and alkalizing fines or also some residual sanitiser in the tank or membrane and will disappear shortly after adequate flushing. If taste persists for longer than 1 week please contact us on 07 5597 4585

RECOMMENDED MAINTENANCE:

As a general rule, any cartridges **BEFORE** the membrane should be replaced every 6 months. This will help ensure the membrane itself will perform to its full potential over its 1-5 year lifespan (depending on water quality). The post carbon GAC (taste and odour cartridge) should be replaced every 12 months. In a 5 Stage system, the Xstream Alk should be replaced every 12 months as per the manufacturers recommendations.

On a standard 5 stage system, the changes would be similar to this:

Poly Spun Sediment Cartridge – 6 months

Carbon Block Cartridge – 6 months

Membrane – 1-5 years

Xstream Alkaline – 12 months

Xstream Carbon - 12 months



Additional Extras:

Water Hammer Arrestor: The water hammer arrestor is installed either at your washing machine or your dishwasher inlet. The Water Hammer Arrestor has a 1/2" BSP connection. Please refer to the provided brochure for further information.



Pressure Relief Valve: The Pressure Relief valve is to prevent pressure due to thermal expansion. This commonly occurs when connecting the water to a fridge or water chiller/ice maker.

This must be installed AFTER the Filter System. (I.E. Between the drinking water & Chiller/Fridge). It comes fitted with a drain clamp which clamps around the DOWN PIPE. This clamp has 2x ports, 1 for the pressure relief valve (pre-fitted) and the second one is for the waste water of the RO system. The waste water is located behind the filters a small valve labeled drain line / Flow 200. This is the flow restrictor.

Please contact us on 07 5597 4585 if you have any questions in regards to the installation of this system BEFORE attempting.



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WATERMARK CERTIFIED RO SYSTEM:

The three-stage pressurised component of this RO system is certified to Watermark Standards AS/NZS 3497 Under the Certificate number 23247.

Watermark certification is the level of certification required by law for a licensed plumber in Australia to install a water filter system. All products used under this certification will give you peace of mind knowing that your water filter complies with Australian plumbing codes.

Our Watermark certified filter systems are hand assembled here in Australia and are randomly batch tested to ensure top quality and workmanship for your water filtration products.



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