



INSTALLATION & SERVICE GUIDE 4 STAGE UNDERSINK REVERSE OSMOSIS WITH SERVICE MODE

Congratulations on your purchase of the most advanced Reverse Osmosis Water Purification system available.

Part of our commitment to your continued supply of the purest drinking water available is we do the remembering for you when to replace your cartridges.

Our Cartridge Reminder Service, either by email or telephone will provide you with the very best cartridges at our specially discounted wholesale prices.

Simply complete the enclosed Warranty Form with contact details, or email us with your details and date of purchase.

Your system comes complete with a door sticker to provide easy to access contact details and replacement date.

IMPORTANT NOTE: We recommend that should you be away for periods exceeding 7 days, you turn water supply off at the stop valve.

To ensure correct operation of your Reverse Osmosis unit, water supply must be within the following specifications

MODELS WITH PA (TFC) MEMBRANES

Ph Range	4 – 11
Iron Level (Max.)	1.00 ppm
Total Dissolved Solids (max)	2000 ppm
Chlorine Level (Max)	2.0 ppm
Water Temperature (max)	40 degrees Celsius
** Water Pressure (Max)	100 psi (700 kPa)
** Water Pressure (Min)	30 psi (270 kPa)



40 cms H x 35cms W x 17cms D
8 Litre Tank – 39cmsH x 23cms. Diam
11 litre – 40 cms.H x 26cms Diameter

The R.O. Purifiers will usually be mounted under the sink in homes, offices, shops, motels, and restaurants. Etc. It can also be mounted in any other convenient location. While its usual function is the supply of premium quality drinking water, the high purity water produced by this unit will also be of great value for use in car batteries, radiators, steam irons, air coolers, ice making, printing, electronics, laboratory and pharmaceutical processes.

This purifier is assembled with cartridges, membrane and storage tank, Installation parts including Brass Compression Tee Piece, stop valve 500kpa Pressure limiting valve, connectors, are also included.

FAUCET



Stop Valve



ALL TUBING IS COLOUR CODED FOR EASE OF INSTALLATION

- 1. RED – Connects the feed water valve to the RO pre filter.**
- 2. WHITE Connects pure water from the membrane to the storage tank.**
- 3. BLACK – Connects waste water from the membrane to the drain connector.**
- 4. BLUE - Connects the post filter to the faucet.**

Your Purestream Reverse Osmosis comes with an exclusive SERVICE MODE ACILITY to allow you to backwash your membrane 2 – 3 times a year to maintain high contaminant removal and eliminate expensive servicing.
NOTE: THE BLUE LEVER SHOULD BE AT RIGHT ANGLES TO THE BLACKLINE FOR THE PRODUCTION OF PURE WATER!



BACK WASH MODE VALVE
 INLINE WITH TUBING

MEMBRANE PRESSURE GAUGE - Mounted on the membrane housing this allows you to monitor the pressure of incoming water through the membrane. This should be between 30 – 80psi. Take note of the pressure when installed and allowing for mild fluctuations, if this should drastically reduce i.e. 100 psi down to 40psi, this may indicate that incoming filters could be blocked and need replacing.
NOTE: Gauge will not register when Service Mode is on or when tank is full and production of pure water is not required.

USE A LICENSED PLUMBER/TECHNICIAN – Damage caused during installation may void your warranty. All care must be taken during installation, which may take several hours. Purifier must be connected to a pressurized and chlorinated cold water supply. An isolating valve or tap should be installed so that you can turn purifier on and off for maintenance purposes

Your Purestream Reverse Osmosis Water Filter represents the very best in design with all housings manufactured to Australian Standards

- STAGE 1 SEDIMENT PRE-FILTRATION** 1 micron pre filter to remove sediment particles, grit dust, mud, algae and protects the life of the membrane.
- STAGE 2 CHLORINE PRE FILTRATION** - a special high-grade carbon cartridge pre filter is added to protect the TRC Filmtec membrane from chlorine degradation.
- STAGE 3 ULTRAFINE FILMTEC TFC MEMBRANE**
Screens out the most minute micro-particles. Pore size less than .0005 micron effectively repels heavy metals complexes, all minerals including fluoride, aluminum, lead, mercury etc. micro-organisms and colloidal matter.
- STAGE 4 CARBON POLISHING POST FILTER**
Provides final polish resulting in superb tasting water.

CARTRIDGE REPLACEMENT

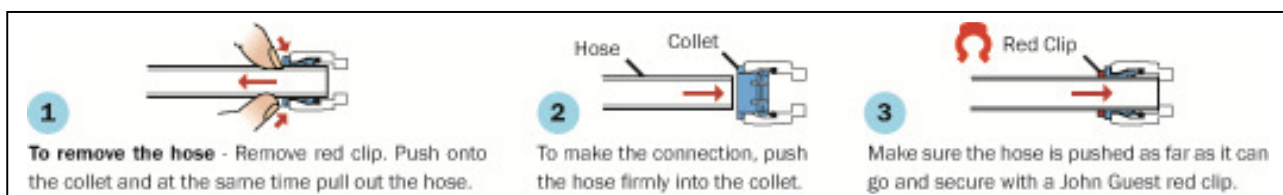
Sediment Pre filter	12 months
Carbon Pre filter	12 months
TRC RO Membrane	3 – 5 years
Carbon Post filter	12 months

FITTINGS & TUBINGS

Hose Quick Fit Connect fittings are used throughout the system. To ensure an optimal seal, tubing should be cut with the end square to provide efficient seal. Each fitting includes a red safety clip to lock connect fitting in place.

TO INSTALL, push fitting into Quit Fit Connector unit it bottoms (approx 5mm) Pull tube back 2mm and the collet will slide out with the tube, then push firmly a second time until tube stops.

TO DISCONNECT push collect back against connector, then slide tube out of fitting.



INSTALLATION INSTRUCTIONS

- This system must be mounted in a vertical position and must be positioned to allow access for service and filter cartridge changing. At the same time the assembly should be relatively near the faucet to maximize flow rate.
 - The storage tank can be placed on its side without affecting the performance of the system. If there is insufficient room under the sink, the tank may be located in an adjacent cupboard.
1. Test water pressure near point of installation noting minimum and maximum requirements. If water pressure is less than 30 psi the unit will not perform satisfactorily. Below 25 psi, you will NOT get any pure water and a booster pump may be required. .
 2. Installation fittings included for fitting to a 1/2" OD copper line using a compression tee piece. Assembly comes complete with ball valve and 500kpa chrome pressure limiting valve, tubing and separate water faucet
 3. Cut 30mm out of pipe and fit tee piece making sure compression olives are pushed over each pipe and firmly tighten compression nuts.
 4. Connect red tubing to exit of installation assembly (Pressure Limiting Valve). White tubing should be connected to ball valve on top of tank.

INSTALLATION OF FAUCET.

The faucet may be installed on any flat surface at up to 50mm in diameter.

1. Using a small drill bit, drill a pilot hold.
2. Then drill a 12mm hole through the base metal. Operate the drill slowly and carefully, especially when the drill is about to penetrate the metal. If necessary use a drop or two of oil in the hole
3. Mount the sink top faucet in the hole and using an adjustable wrench (or hand) to hold the faucet, tighten the 9/16" nut. Make sure the faucet body, chrome plate and black rubber washer are in place above the sink.
4. Install the black locating washer, lock washer and nut while aligning faucet in the desired direction. Included is a grey faucet connector. This screws onto to the base of the thread and tubing is pushed into the quick fit fitting.

INSTALLING THE DRAIN OUTLET CLAMP ASSEMBLY

Select a location for the drain clamp ABOVE the `S` Trap. Position the drain outlet clamp on the drain pipe. Allow adequate space for drilling. Tighten clamp with `Tightening Screw`

Unscrew Quick fit Connector

Using the opening in the drain outlet clamp, drill a 1/4" hole in the drain pipe. Clean debris from the clamp. Re attach Quick Fit connector.

NOTE: Locate the drain connection away from the garbage disposal to prevent potential contamination and system fouling.



STORAGE TANK

Place storage tank in a convenient position. Tank can be placed on its stand, either upright or on its side. A Blue/white valve is located on the top of the unit. One tube is connected to the tank and water flows either way depending on pressure.

PRESSURE IN TANK SHOULD BE 8-9 PSI. There is a small valve on base of unit similar to bike tyre valve. This can be measured and increased by use of standard pump.

START UP PROCEDURE

1. Turn on water supply and check for leaks.
2. Close Ball Valve on tank. (lever should be at right angles to line). This will allow pure water to come straight to faucet. Open faucet by rotating knob.P.
3. Within a few minutes (up to 15), the water will start to run very slowly from the faucet. Let water run directly from faucet at for least 30 minutes to flush carbon filters and membrane on first time use.
4. Open ball valve on tank (lever should be in line)
5. Close sink faucet lever and allow unit to run 1 - 2 hours to fill tank.
6. Empty tank and completely and allow to refill.
7. You may now drink the water from your purifier, but please restrict your draw off rate to 2 – 3 litres per minute.

MEMBRANE FLUSHING SERVICE MODE

Like all filters, your reverse osmosis membrane gets clogged with minerals, etc and can't do its job. Regular flushing therefore is necessary to maintain the 98% removal of contaminants.

To eliminate costly service calls and make it easy for you, we have incorporated an exclusive DIY simple MEMBRANE FLUSHING SERVICE MODE

THE BALL VALVE HANDLE SHOULD AT RIGHT ANGLES TO THE BLACK LINE FOR PRODUCTION OF PURE WATER.



SERVICING OF UNIT. SERVICE BALL VALVE

Your unit incorporates a specially designed ball valve designed to easily flush your membrane.

STEP 1 ... Turn the blue handle stop valve on the top of the tank to right angles to the blue line and open the faucet on the top of the sink.

This activates the auto shut off valve to produce water.



STEP 2 ... Turn the blue stop valve installed in the black waste line on the unit to a horizontal position. As the flow restrictor is installed after the first tee piece, this eliminates the back pressure on the membrane and directs full water flow down the membrane flushing any build up of contaminants.


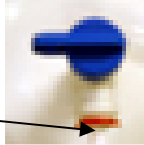
RUN FOR 1 - 2 MINUTES REPLACE BALL VALVE ON WASTE LINE TO VERTICAL POSITION, CLOSE FAUCET AND REPLACE BALL VALVE ON TOP OF TANK TO INLINE WITH BLUE TUBE OR HORIZONTAL.

This should be done on a regular basis (2 – 3 times a year) to maintain maximum performance of membrane in removing contaminants. Run in service position for 2 minutes

MAINTENANCE - REPLACE CARTRIDGES. – EVERY 12 MONTHS

Aeon offers a cartridge reminder service to do the remembering for you. Every 12 months we will send you a courtesy email with details of your model, cartridge code numbers and a link to the appropriate order page, to make it as easy as possible.

The unit comes complete with housing spanner which makes undoing the units easy. To remove, turn left to right.

- 1. TURN OFF WATER AT STOP VALVE** 
- 2. TURN STOP VALVE ON TOP OF TANK TO OFF (RIGHT ANGLES TO LINE)** 
- 3. LIFT FAUCET ON BENCHTOP TO REMOVE ALL WATER IN PIPES TO HELP DE-PRESSURISE SYSTEM.**
- 4. Remove old filter cartridges and discard.**
- 5. Thoroughly clean and wash out both pre-filter housing sumps. This can be done with normal household detergent, or sterilize with Domestos. Rinse thoroughly.**
- 6. It is a good idea to check pressure on storage tank as this can decrease over 12 months. You will need to empty the tank to check pressure. Turn off water at stop valve and open faucet, let it run until no water coming out. A valve is located on the base of the tank. This can be checked and increased by use of a bike pump or take to your nearest service station and check with tyre gauge. TANK PRESSURE SHOULD BE 8 – 9 PSI**

Purestream Water Filters

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CAUTION FOR YOUR SAFETY Membrane & storage tank maintenance

Change filters regularly every 12 months and the membrane every 3 – 5 years. Automatic icemakers require water in the line to work properly. If you are draining the storage tank or have no water during initial start up, turn off the icemaker until the sink top faucet has a steady flow.

FILTER AND MEMBRANE CHANGING PROCEDURES

Sediment and Carbon Prefilters

Turn valve on top of storage tank to off. Turn stop valve to off position on easy tap. Turn off storage tank ball valve. Open R.O. faucet to help de-pressurize system. Unscrew filter housings by turning clockwise. Remove old filters and discard. Rinse. Insert new filters into appropriate housings. Replace “O” rings as necessary. Be sure “O” ring is clean, lubricated and seated properly when tightening. Never use Vaseline or any other petroleum based sealant. It may break down the “O” ring or the seat of the filter housing and cause a failure (leak).

Post Carbon Filter

Remove red safety clips from either end of post filter. Push collet back on fitting to release tubing. Discard old filter. Your new post filter comes complete with fittings. Make sure arrow on new filter is Pgoing with flow of water toward the faucet. Push tubing into quick fit fittings as per instructions

R.O Membrane - a small cartridge spanner is available to assist with this procedure.

Turn water off at the tank and at the inlet tap valve and open faucet. Disconnect white tube going into end of membrane housing on the end that has only one tube going into it. Unscrew end cap off membrane housing. Water will pour out. Pull out old membrane and clean membrane housing if necessary with warm soapy water. Insert new membrane in the direction of arrow on the membrane. The end with the two small “O” rings goes in first. The end with the large rubber ring goes in last, next to the removable end cap. Push firmly! Screw end cap back on and reconnect white tube to membrane housing. Open the tank valve and the inlet tap valve. Drain the tank. Allow 2 full tanks to fill and then drain. This will flush the preservative from the membrane prior to drinking.

RECOMMENDED SANITISING PROCEDURE -STORAGE TANK

It is recommended to sanitize the RO storage tank every 2 years, or at the very least when you change your membrane, every 4 years. **OBJECTIVE IS TO REMOVE ALL FILTERS AND MEMBRANE FROM HOUSING AND** add a small amount of bleach or Milton 10mls. Into the empty housings, close up housings and turn water on at source allowing sanitizing solution to flow **THROUGH THE SYSTEM AND INTO THE TANK, WHERE IT WILL SIT EITHER OVERNIGHT OR A MINIMUM OF 2 HOURS.**

- 1) Turn **SHUT OFF VALVE OFF**, next to tee piece. Drain all water out of R.O. tank. Remove old pre-filters. Remove membrane even if not replacing. **Reassemble membrane housing without membrane inside.** We recommend you use diluted bleach to disinfect your system. Add 10 ml. small amount into each of the empty pre filter housings. **Reassemble pre-filter housings without filters.**
- 2) Turn water supply on at **STOP VALVE** to about 30% of maximum flow rate and let storage tank slowly fill with tap water (approx 10 minutes). **TANK BALL VALVE SHOULD BE INLINE**
- 3) **TURN** water supply **OFF** at **STOP VALVE**. Let entire system sit for about 2 hours to thoroughly sanitize.
4. Open faucet and let storage tank drain until empty. Shut off faucet when empty. Turn **WATER SUPPLY ON STOP VALVE** and allow tank to fill with water. Again, turn off the **STOP VALVE** and drain the tank. With water supply **OFF**, Install the new filters and membrane. This is when you will change the post filter also. Then follow normal system start up procedures, allowing for 2 full tanks of RO water to be flushed.

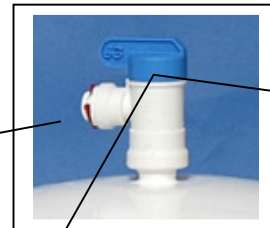
SET UP ON INSTALLATION

GETTING STARTED.

1. Once your unit has been installed, it is necessary to flush preservatives from both membrane and storage tank bladder.

To ensure minimum waste of water

1. With tank STOP VALVE turned off - at right angles to the line going into the tank, open faucet on top of sink. Your water should trickle out of faucet ensuring the unit is working correctly.
2. Now turn blue SERVICE MODE stop valve positioned between two cartridges on top of Bracket to horizontal FOR 2 – 3 MINUTES. This will flush the Membrane QUICKLY MINIMISING WATER LOSS. IMPORTANT – THE STOP VALVE MUST BE RETURNED TO RIGHT ANGLES TO THE LINE (AS SHOWN) TO PRODUCE PURE WATER.



Show inline with line.



3. TURN OFF FAUCET, OPEN STOP VALVE ON TOP OF TANK (SHOULD BE INLINE WITH TUBING) TO ALLOW WATER TO FILL TANK. Allow 1 – 2 hours for tank to fill. To flush preservatives from bladder, empty water from tank by opening faucet on top of sink.

4. REFILL TANK AND YOU ARE READY TO GO.