

# REPLACING YOUR REVERSE OSMOSIS FILTERS AND MEMBRANE

All Reverse Osmosis units (RO's) have the same basic installation rule;

- The water inlet is on the right hand pod as you look at the machine face on.
- The highest rating sediment filter normally fits in the right hand filter pod.
- The carbon filter is the centre pod and the 1 micron sediment filter is on the left.
- There is only ONE tube that supplies the tank.

RO Units have the following connections:

- Water IN (normally supplied with a self cutting divert valve)
- Tank Connection (normally from a T-fitting between the membrane and horizontal carbon filter )
- Waste Connection From Reverse Osmosis System
- Tap connection (from the final filter)

Before changing your RO filters, ensure you have all the tools you need.

## TO START

1. Take the RO out of service mode by turning off any electrical apparatus connected to the system (where applicable)
2. Switch the tank valve to the OFF position and fully close the diverter/saddle valve connected to the cold water supply - to isolate the incoming water supply.
3. Open the tap connected to the system to release any pressure build up and allow the water from this tap to flow and eventually stop.

## STEP 1 (replacing your pre-filter cartridges)

Change one filter at a time to ensure you do not muddle up the filters or confuse the connections.

Use the wrench originally provided with your RO to unscrew the housing. (fig 1)

Turn the outer housing to the left (clockwise) in order to unscrew and remove.

Make sure the 'o' ring is retained as this will need to be re-sited before tightening the housing back up.

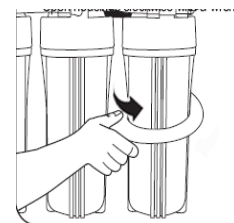


Fig 1

**Make sure you remove any protective wrapping from the new filters.**

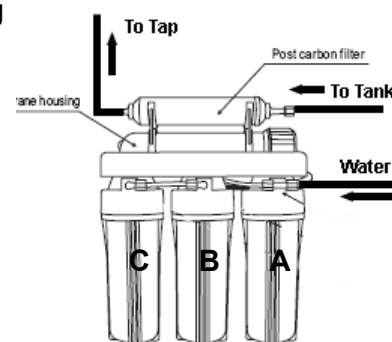
Fit from the right (water inlet) to left in the following order (fig 2)

- 5 micron sediment filter (A)
- Carbon block filter (wide mesh filter or sometimes marked CT1) (B)
- 1 micron sediment filter (marked pp1u or 1u) (C)

After changing each filter, replace the outer housing with its 'o' ring.

Failure to ensure the o ring is in place will result in water leakage.

Now fully tighten all the housings using your wrench.

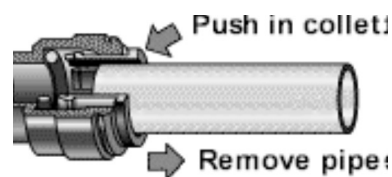


## REPLACING THE MEMBRANE

Your RO membrane will need replacing every 18 months in order for the system to operate correctly. A pair of long nosed pliers may be useful when removing the old membrane.

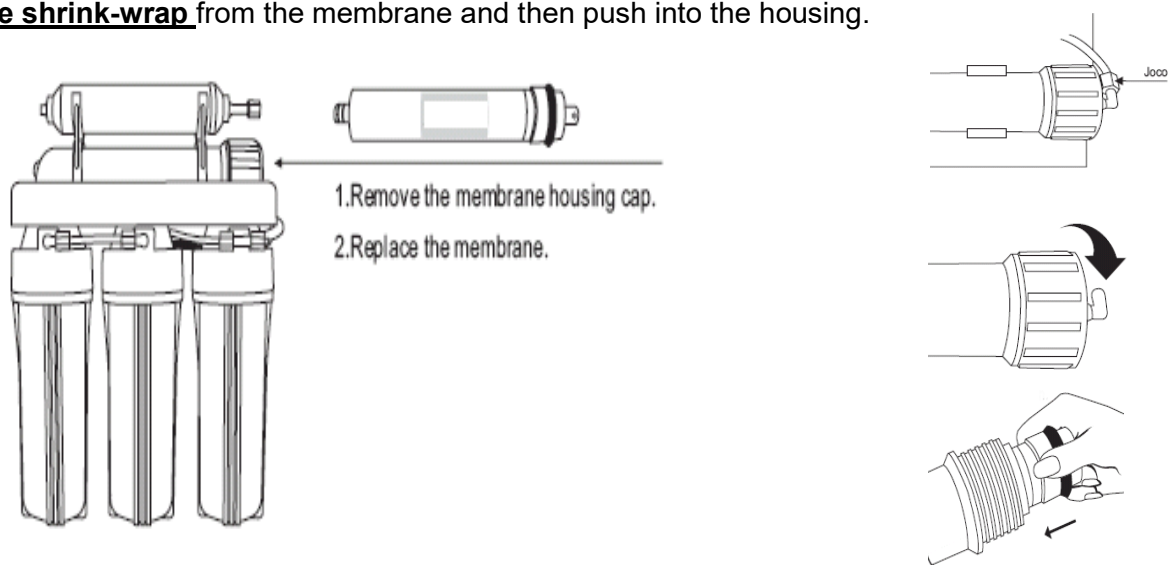
The membrane housing is located on the top part of the system (see overview diagram on page ) and is in a horizontal position with a screw cap end to the right. We advise that the tubing connected to the housing cap is disconnected prior to removing the cap.

Most of the units are fitted with a “Jaco” compression fitting. Simply unscrew the nut and pull out the tubing. Some units may be supplied with a push fit type connector. To remove, push down the collet and at the same time pull the tube out of the fitting.



Once you have removed the tube, unscrew the end cap from the membrane housing.

**Remove the shrink-wrap** from the membrane and then push into the housing.



The large bung should be at the cap end of the housing. Replace the screw cap and tighten, finally replace the tube and retighten the “Jaco” nut if fitted.

## REPLACING THE POST CARBON FILTER (EVERY SIX MONTHS)

The replacement post carbon filter provided is supplied as a generic filter and can be used with either push or jaco (screw) fittings. You will first need to remove the tubes attached to the fittings on the installed filter. For jaco fittings simply unscrew the jaco nut and pull out the tube. For push fittings, push the collet into the fitting and whilst the collet is depressed pull out the tube. Once you have removed the tubing unclip the filter from the RO system. Unscrew the fittings from the filter and screw into the new filter. Then simply clip the filter back onto the RO unit and replace the tube. For push fittings simply push the tube into the fitting. For jaco style, push the tube into the fitting and secure using the jaco nut.

Clip the new filter onto the RO and replace the tube. Secure as per the type of fitting you have (screw or push fit).

## PUTTING BACK INTO SERVICE

Ensure that all your connections are fully watertight.

Fully open the water diverter valve located on the cold water pipe.

Switch any electrical apparatus connected to the Reverse Osmosis system back to **ON**. Allow the water to run for several minutes before turning the tap connected to the RO unit off and turning the tank valve back to the on position.

Allow the tank to fill (approximately 1.5 hours or more on an unpumped system)

**YOU WILL NEED TO EMPTY THE TANK ON THE INITIAL START UP AFTER FITTING NEW FILTERS.**

Discard this tank of water by running the RO tap until the tank is empty.

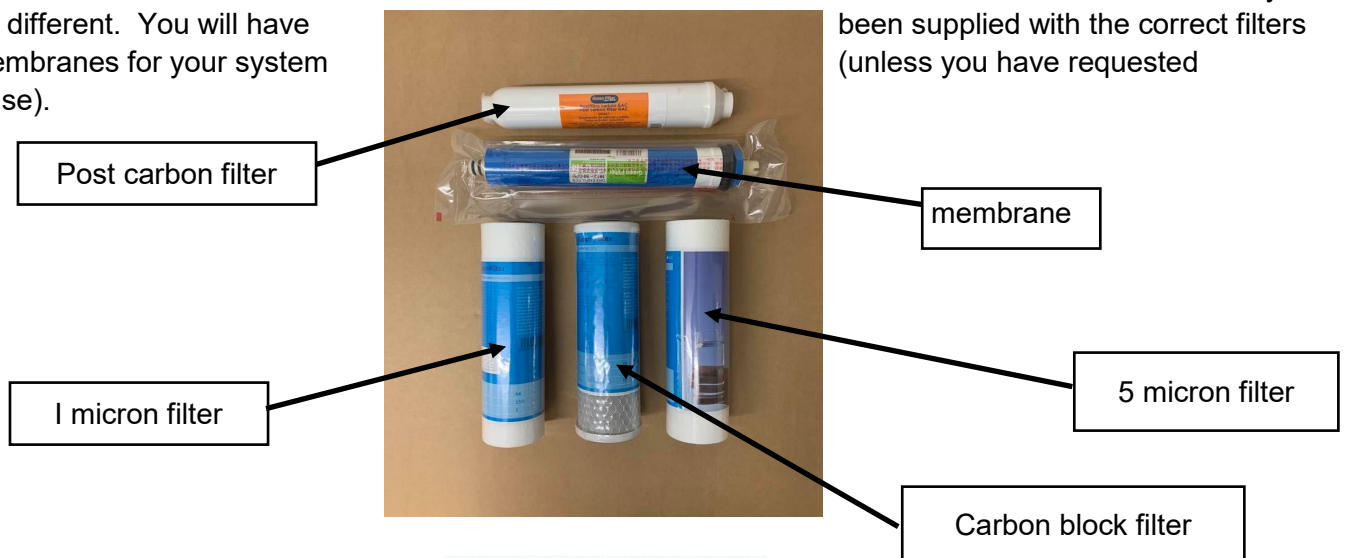
Allow the system to refill completely.

You can now enjoy your RO water again



Please note: We use a number of suppliers for our Reverse Osmosis filters and membranes, all with their own labels and in various colours which means that sometimes they appear different. You will have and membranes for your system otherwise).

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# INSTALLATION OVERVIEW - GENERIC SET UP

