



# MWF Benchtop Reverse Osmosis System

## 4 Stage Filtration - R04000

### Reverse Osmosis

Of all methods that purify drinking water for domestic use, the process of Reverse Osmosis is the most advanced, economical and effective.

The R04000 removes all contaminants that are of concern to the consumer - such as chlorine, dissolved solids, fluoride, bacteria, parasites, viruses, inorganic chemicals, pesticides and heavy metals. These impurities are flushed down the drain rather than collected in the filters - preventing any build up, which may be the case with standard filtration systems.

The system is hand built in Australia and has been made using high quality components, filters and parts.

#### CONVENIENT PORTABLE DESIGN

Produce Pure Water Anywhere

#### COMPLETE PROTECTION

Efficient Four Stage Filtration

#### 5 YEAR WARRANTY\*

Hand Built and Factory Tested

The R04000 Countertop Reverse Osmosis System



#### EFFECTIVELY REMOVES

Aluminium
Barium
Cadium
Chlorine
Chromium
Copper
Cryptosporidium
Cysts
e-Coli Bacteria
Fluoride
Giardia
Heavy Metals
Hydrocarbons
Iron
Lead
Manganese
Mercury
Nitrate
PCB's
Potassium
Radium
Selenium
Sodium
Taste & Odour

#### Specifications

Production @60 Psi 25°C	400 litres per day
RO System Dimensions (cm)	34(W) x 17(H) x 16.5(D)
Micron Rating	0.0005 Micron
Warranty	5 years*



**No mains plumbing required!**

Simply attach to your existing kitchen faucet/ aerator.



# RO4000 Assembly

Diagram 1 - Labelled Assembly of Quality Components

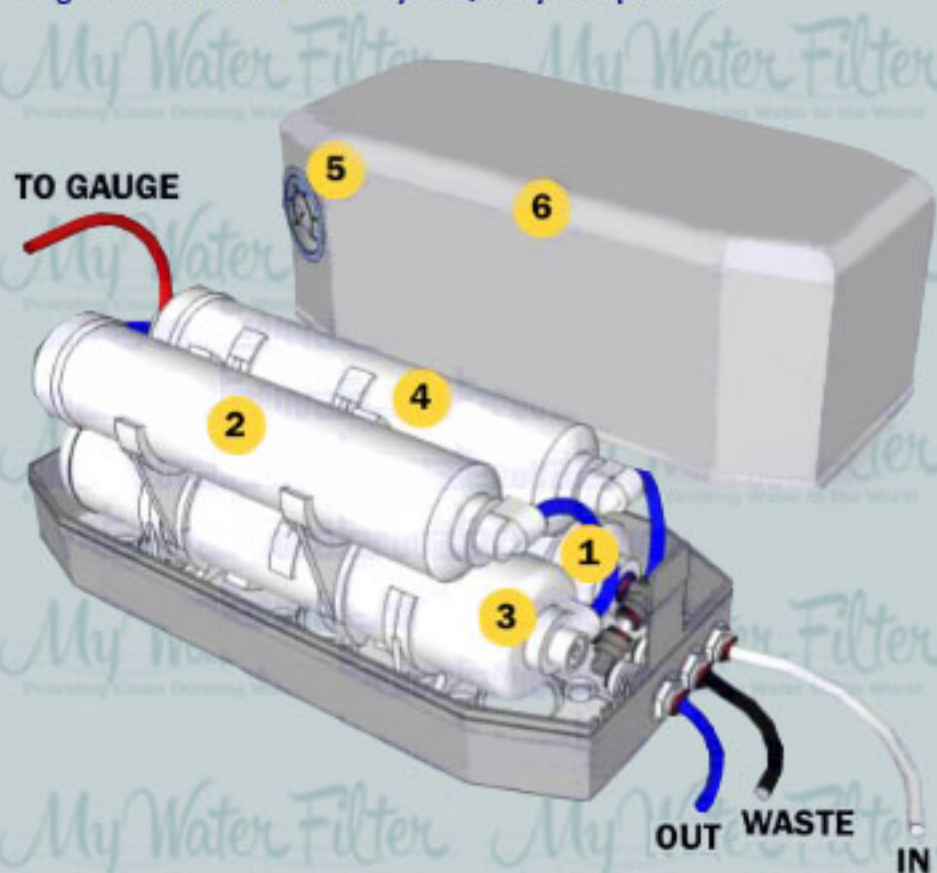
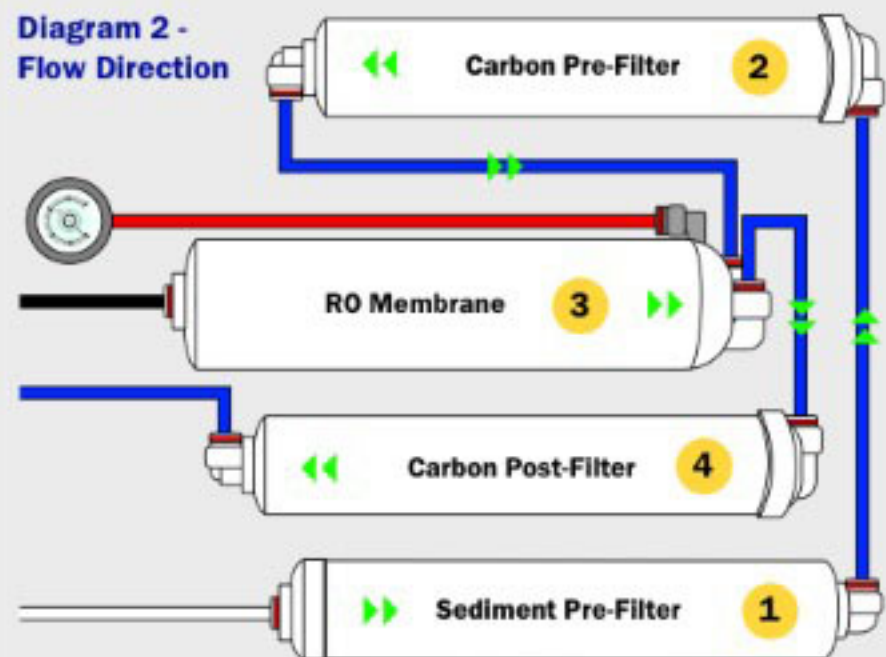


Diagram 2 - Flow Direction



## Components

1 Sediment Pre-Filter	4 Carbon Post Filter
2 Carbon Pre-Filter	5 Pressure Gauge
3 RO Membrane	6 Plastic Cover

## Step by Step Maintenance

- 1 Remove the cover by compressing the clips at each end of the unit.
- 2 Disconnect the red hose that connects the RO Membrane to the pressure gauge.
- 3 Disconnect the Sediment Pre-Filter (1). Taking note of the inlet hose, replace with the **new** Sediment Pre-Filter. Ensure the flow direction is correct (see [Diagram 2](#)).
- 4 Disconnect and dispose of the Carbon Pre-Filter (2) taking note of the inlet hose. Insert hose into inlet of the new Carbon Pre-Filter. Ensure the flow direction is correct (see [Diagram 2](#)). Leaving the outlet **disconnected**, allow to run for a few minutes to flush the cartridge. This will flush the carbon fines inherent in the new Carbon Pre-Filter, preventing premature clogging of the RO Membrane (3).
- 5 Insert hose into the outlet of the new Carbon Pre-Filter (2).
- 6 Disconnect the Carbon Post-Filter (4). Taking note of the hose inlet's, replace with new Carbon Post-Filter. Ensure the flow direction is correct (see [Diagram 2](#)). Flush the system for a few minutes before drinking.

Your TFC RO Membrane (3) should last 3-6 years depending on water quality and usage. Your pure water quality can be tested with a conductivity meter measuring total dissolved solids (TDS) from the RO Membrane (pure water) outlet, this will indicate the rejection of contaminants ratio. TDS Testing is a complimentary service at our show rooms listed below.

Make sure the end of the tube is cut square and straight, ensuring it has an even, clean surface.

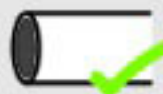
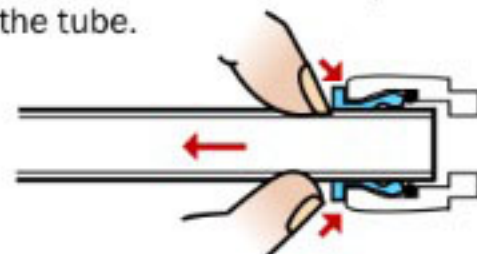
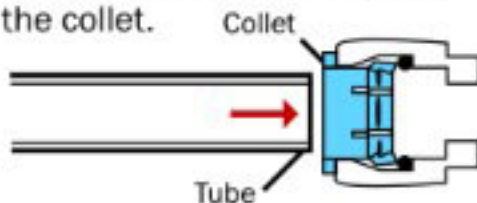


Diagram 3 - Tube Connections

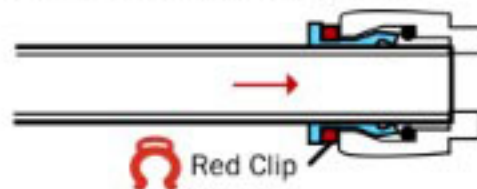
- 1 **To remove the tube** - First remove the red clip. Use two fingers to push onto the collet and at the same time pull out the tube.



- 2 **To make the connection** - push the tube firmly into the collet.

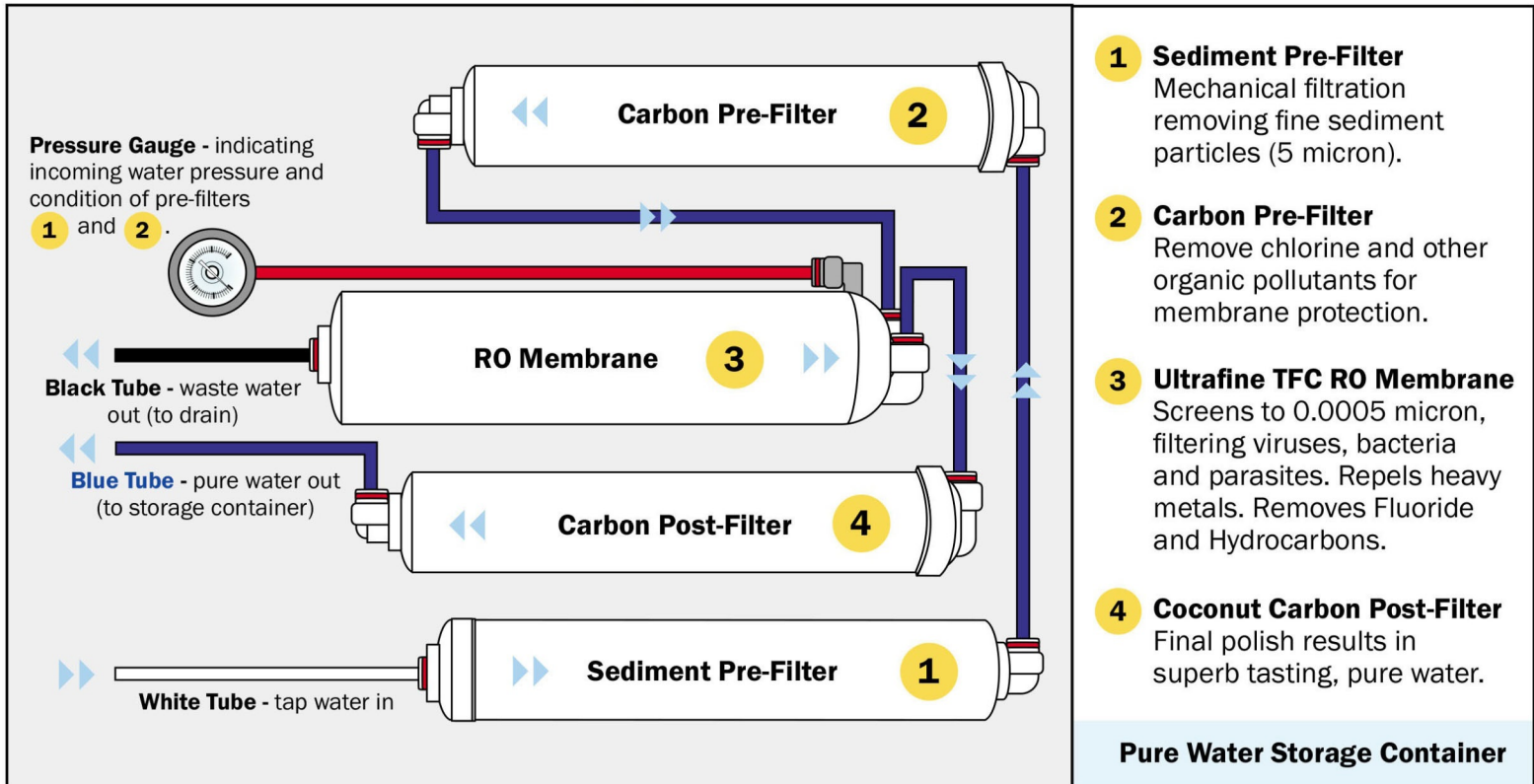


- 3 Make sure the tube is pushed as far as it can go and secure with a red clip.



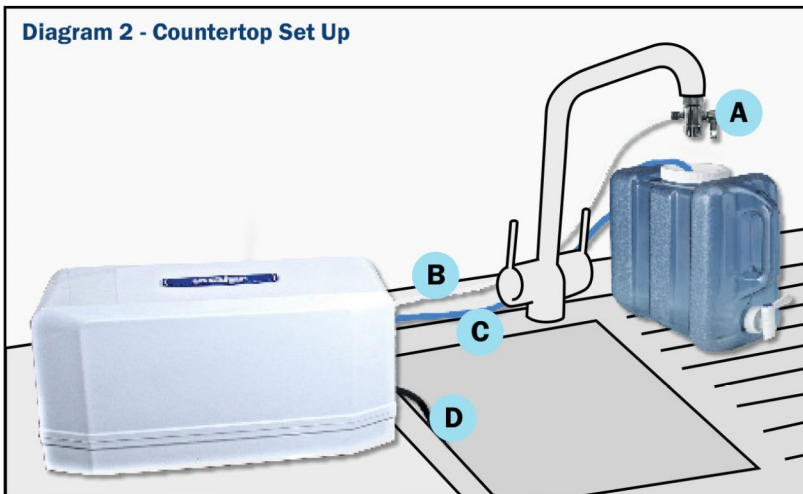


## RO 4-Stage Filtration Process Diagram 1



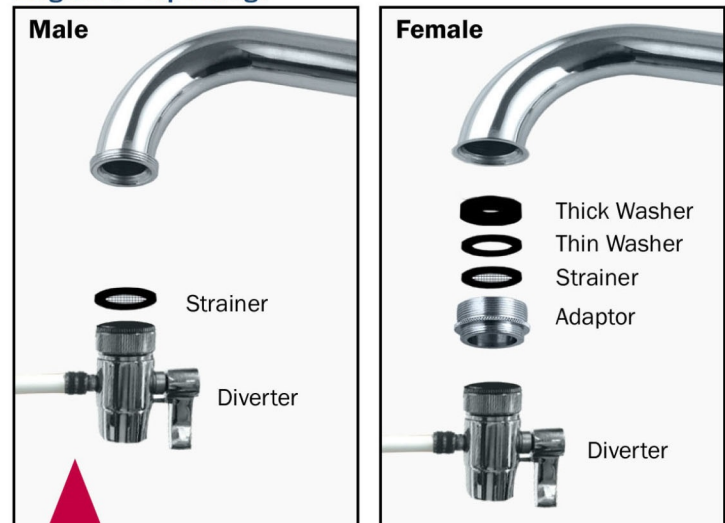
## Simple Self Installation

**Diagram 2 - Countertop Set Up**



- A** **Diverter** connects the kitchen faucet to the white tube.
- B** 1/4" **white tube** connects the diverter to the filter system.
- C** 1/4" **blue tube** feeds pure water to the storage container.
- D** 1/4" **black tube** feeds waste water to the drain.

**Diagram 3 - Tap Fittings**



**NOTE:** An external thread indicates a male fitting. An internal thread indicates a female fitting.

- Find a convenient location on your bench top to place the filtration system in reach of your chosen faucet.
- Remove/unscrew the existing aerator off your existing faucet.
- Ensure you have assembled the correct fittings within the diverter (depending on the male/female thread of your kitchen faucet, **please refer to Diagram 3**). Simply connect/screw on the diverter valve to the faucet.

For further informaton and assistance assistance on the installation and maintenance of the RO4000 system, please contact us. We will be glad to help you in any way we can.