

Residential Under Sink Reverse Osmosis Drinking Water Purifier

Owner's Manual

Reverse osmosis RO membrane water filtering technology introduction:

A reverse osmosis membrane consists of several thin layers of films that are bonded together and rolled in a spiral configuration around a plastic tube. (this is also known as a thin film composite or TFC membrane) Splish Water Filters' reverse osmosis series purifying system is for drinking, industrial & laboratory water purifying that uses the principle of reverse osmosis membranes to remove 95-99% of minerals and chemical contaminants from water. They provide you with good quality distilled water without the negative elements of distilled water, i.e. high electricity costs & substances with a lower boiling point than water is concentrated. The table below shows the rejection rate from a reverse osmosis membrane.

Element / Compound	% removed	Element / Compound	% removed
Barium	97%	Potassium	100%
Bicarbonate	100%	Radium	97%
Cadmium	97%	Selenium	97%
Calcium	99.90%	Silicate	99.00%
Chromate	95%	Silver	99%
Copper	97%	Sodium	98%
Detergents	97%	Strontium	97%
Fluoride	100%	Sulfate	100%
Lead	97%	PCBs	97%
Magnesium	100%	Insecticides	97%
Nickel	97%	Herbicides	97%
Total Dissolved Solids			99%

How reverse osmosis, RO works ?

A reverse osmosis water purifier improves your water for home, commercial or industrial use. 5 stage filtering scheme as detailed below.

- Pre-filter stages from the first to the third stage removes solids, sands, rust, corrosive, alga, floats, and improves turbidity in water. Reverse osmosis also removes pesticide, VOCs, chlorine to improve taste, reduce odours and protects the membrane.
- Reverse osmosis membrane: filters 0.0001 of a micron. Removes viruses, bacteria, heavy metal, dissolved solids, chemicals, inorganic and organic compounds in water.
- Post filtering improves taste, eg: a sweet taste is derived from bamboo activated carbon, clearer water from coconut shell activated carbon, alkaline adjustments from ceramic balls or bamboo activated carbon. The product water is collected in a storage tank for instant availability.

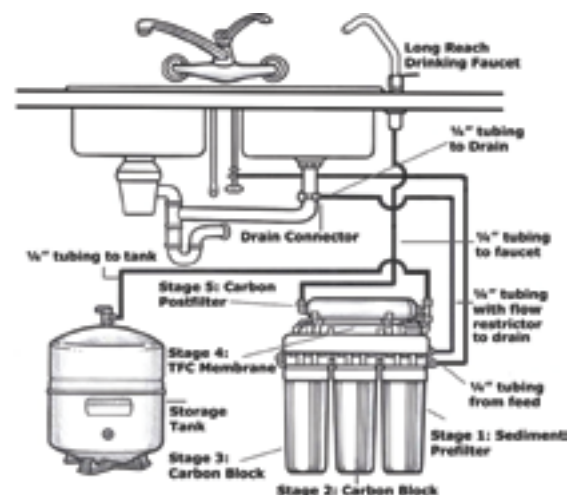
System maintenance of under sink reverse osmosis:

- H₂O filter cartridge replacement life span (recommended):
- Pre-filtering:
 - Sediment spun water filter of carbon: 6 months
 - Activated carbon granular block water filter: 6 months
- Membrane: 2-3 years
- Post filter cartridges: 6 months

If you follow above replacement recommendations, you'll optimise the condition of your system. To maximise the life of your system, you'll need to do the following:

1. The inlet H₂O pressure should be less than 2 bar.
2. The inlet H₂O temperature should be between 10°C to 40°C.
3. Keep away from Sun or heat exposure.
4. Use the original spare parts.

Installation Figure:



Pure Water
for Pure Health

www.splishwater.com.au

info@splishwater.com.au

(07) 5443 3130

Unit 4, East Alamode, 13 Newspaper Place, Maroochydore