

DOMESTIC RO SYSTEM

Features of the RO are:

- Removes 95% of impurities from potable water.
- Patented Manifold design with internal channelling to reduce tubing required.
- High capacity tank holding 8 litres of water, with automatic shut off.
- Compact space saving design is ideal for under sink installation.
- Maximum production high performance membrane with up to 91 litres per day available.



Domestic RO System

The main stages of the RO are:-

- 1 **5 Micron Filter** - to remove any fine particles within the water supply.
- 2 **Carbon Filter** - the water passes through a carbon block/sediment filter to protect the membrane from any chlorine that may be present.
- 3 **Reverse Osmosis** - This is the heart of the system. The membrane rejects approximately 95% of all impurities and contaminants from the water, using only mains pressure, and rejects them to drain, providing quality pure water at any time day or night.
- 4 **Polishing Filter** - This final filter reduces unwanted tastes and odours and “polishes” the water to give that bottled water taste direct from a tap.

Clean Drinking Water

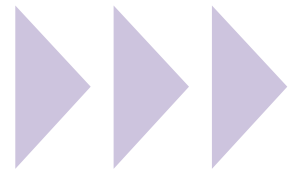
Around 2% of water supplied to a household is used for drinking and cooking. Tap water supplied by municipal companies has to be 'fit for drinking' and is regulated under law. Even so, tap water varies from region to region, with the taste, chemical composition and appearance leading many people to spend extra money on 'bottled' water.

Your water contains Chlorine and can have a variety of dissolved minerals and metals, including Iron, Nitrates, Chlorides and Sodium. The water picks up most of these as it falls as rain on the land, and some (in particular Chlorine) are added by the water companies.

Reverse Osmosis is the optimum way to rid water of these impurities. The RO system will remove approximately 95% of the contaminants in water, such as Chlorine, Lead, Fluorides, bacteria, viruses and unpleasant tastes and odours, and provide you with water 'as nature intended' direct from the tap. No more expensive bottled water required!

The system works by filtering the water, using mains pressure, through a semi-permeable membrane that rejects all the impurities, and flushes them to drain. The pure water is then stored in the tank and provides you with quality water, day or night.

**The Right Product
 ...At the Right Price
 ...At the Right Time**



DOMESTIC RO SYSTEM

TECHNICAL SUPPORT INFORMATION

| Primary Assembly Components | | | |
|---|---|---|---|
| Prefilter (Filter 1): 5 micron sediment filter | Prefilter (Filter 2): Sediment/activated carbon block filter | Membrane: Thin Film Composite (T.F.C.) | Post Filter: In-line activated carbon filter |

| R.O. Membrane Information | |
|---|--|
| Type: | T.F.C.-24 |
| Rated Membrane Production ¹ : | produces 24 +/- 4 gpd (76-106 lpd) |
| Rated Membrane TDS Reduction ¹ : | 95% minimum |
| ¹ Measured at Industry Standard condition of 65 psig, 77°F (25°C), 500mg/L TDS and discharging to atmosphere. NOTE: Actual system production and contaminant reduction will depend upon water temperature and pressure, TDS level, membrane variation and usage pattern. | |
| Conditions of Use | |
| Water Supply: | Potable chlorinated or non-chlorinated |
| Water Pressure: | 40-100 psig |
| Water Temperature: | 40-100°F (4-38°C) |
| Water Supply Parameters | |
| Hardness: | less than 170 mg/L or softened |
| Iron: | less than 0.1 mg/L |
| Manganese: | less than 0.05 mg/L |
| Hydrogen Sulphide: | None |
| pH Range: | 6-9 |
| TDS Level: | no more than 1500 mg/L |
| Chlorine: | see note below |
| Bacteria: | water source must be potable |
| Chlorine will damage a TFC Membrane. The Carbon Block Pre-filter will remove chlorine from the incoming water. Carbon Filter to be changed every six months, more often if water contains more than 1 ppm chlorine. Sediment Pre-Filter should be changed every 6 months. Membrane to be changed at least every two years. Do not use with water that is microbiologically unsafe or of unknown quality; without adequate disinfection before or after the system. | |

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