



# REVERSE OSMOSIS DRINKING WATER SYSTEMS



With the quality of our drinking water increasingly coming under question, people are now looking for alternative sources of quality water. Reverse Osmosis Drinking Water systems provide the most convenient and economical solution. Neatly stored under the counter or in the basement, the Reverse Osmosis Drinking Water System provides you with clean and delicious water right from its own dedicated tap.

**All models include:** 3/8" outlet tubing for higher flows, thin film composite (TFC) membranes, quick connect fittings for easy installation and servicing, heavy duty powder coated bracket, stainless steel product water check valve, automatic shut-off valve, 17.27 litre (3.8 US gallon) storage tank and under counter installation kit.

## Model E75TFC-3SF

### Features:

- Reverse osmosis membrane, nominally rated at 75 US gallons per day.
- Pre-filters: 10" five (5) micron sediment cartridge and 10" activated carbon cartridge.
- Post filter: 10" activated carbon cartridge.
- Non air gap faucet.



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*Nominal product water ratings are based on the following conditions: Supply TDS of 250 ppm softened tap water, 50 psi (0.36 Mpa), 77°F (25°C), pH 8 and 15% recovery with outlet to atmosphere.*

**Booster Pump** – raises the water pressure and maintains it at the ideal level for the system to operate at maximum efficiency. Recommended for use on all water supplies, especially with those with high concentrations of total dissolved solids (TDS). The pump is self priming and is whisper quiet. It runs on a 24VAC transformer (included) from a standard 120VAC electrical outlet.

System includes Model CDP 6800 pump with flexible mounting plate, transformer and cord, quick connect fittings and a pressure shut-off switch.

## Reverse Osmosis Components

**Reverse Osmosis Membrane** – allows water molecules to pass while dissolved impurities are flushed to the drain.

**Five Micron Pre-Filter** – removes tiny particles of suspended dirt and sediment.

**Activated Carbon Pre-Filter** – protects TFC membrane from chlorine and removes organics.

**Activated Carbon Post Filter** – removes tastes and odors to give water a final “polish” prior to delivery.

**Pressurized Storage Tank** – holds purified drinking and cooking water ready for use.

**Chrome Plated Faucet** – mounts attractively on sink or counter to deliver pure water at the touch of a lever.

**Optional Booster Pump** – raises and maintains the water pressure at the optimum level to ensure the highest rejection rate and maximum production.

**Optional UV Light** – Omni Pure Sterilizer with transformer mounts on the R.O. unit for added protection on product water supply.

## Application Guidelines

Model Number	E75TFC-3S5
Membrane Type	TFC
Max. Feed Water Salinity	2000 ppm
Feed Water Temperature	40 - 110°F
Feed Water Pressure	50 – 100 psi
Feed Water pH	2.0 – 11.0
Feed Water Supply	Chlorinated Unchlorinated
Feed Water Hydrogen Sulphide	None
Feed Water Manganese	<0.05 ppm
Feed Water Iron	<0.1 ppm
Feed Water Hardness	<10 gpg

The performance of a reverse osmosis membrane is highly dependent upon pressure, temperature and TDS. The actual volume of product water and rejection percentage will vary with differences from the test conditions that membrane ratings are based upon. These drinking water systems are not intended to be used for the treatment of water that is microbiologically unsafe or of unknown quality.

## Specifications

Model Number	E75TFC-3SF
Membrane Production Rate	75 USGPD
Rejection %	Up to 99%
Storage Tank US Gallons	3.8

Nominal product water ratings are based on the following conditions: Supply TDS of 250 ppm softened tap water, 50 psi (0.36 Mpa), 77°F (25°C), pH 8 and 15% recovery with outlet to atmosphere.

Rejection percentages are dependent on the supply conditions and the substance being measured.

Storage tank capacity is dependent upon pressure. For example, with a 7 psi precharge, the drawdown volume is 2.16 gallons at 60 psi; 1.79 gallons at 40 psi for the tank shown. Storage tank varies based on market.