

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, the Reverse Osmosis Drinking Water System provides you with clean and delicious water right from its own dedicated tap.

Bottled water quality - conveniently - at a fraction of the cost!



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, storage tank and under counter installation kit.

Economy RO Model 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.

Economy RO Booster Pump Model Specific Components

Booster Pump - raises and maintains the water pressure at the optimum level to ensure the highest TDS rejection rate with maximum production.

Product Water Pressure Switch - shuts off system when pressure tank has been filled.

Feed Water Pressure Switch - protects pump against run dry situations.

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.

Economy Reverse Osmosis Systems



Model E50TFC-3SF features:

- Reverse osmosis membrane, nominally rated at 50 U.S. 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
- Plastic storage tank

Model E75TFC-3SF features:

- Reverse osmosis membrane, nominally rated at 75 U.S. 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
- Plastic storage tank

Specifications

Item Number	Model Description	Stages	Sediment Filter	Pre-Filter	Membrane	Post-Filter	Output GPD ⁽¹⁾	Rejection % ⁽²⁾	Storage Tank US Gallons ⁽³⁾	Booster Pump
2870	E50TFC-3SF	4	Spun Polypropylene	Activated Carbon	TFC	Activated Carbon	50	up to	3.8	No
2871	E75TFC-3SF	4	Spun Polypropylene	Activated Carbon	TFC	Activated Carbon	75	99%	3.8	No

⁽¹⁾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.

⁽²⁾TDS rejection percentages are dependent on the supply conditions and the substance being measured.

⁽³⁾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.

Economy Reverse Osmosis Systems c/w Booster Pump



Model EBP75TFC-3SF features:

- Reverse osmosis membrane, nominally rated at 75 U.S. gallons per day.
- *Booster Pump*: Mounted on RO to maintain constant water pressure.
- *Pre-filters*: 10" five (5) micron Sediment Cartridge and 10" Activated Carbon Cartridge
- *Post filter*: 10" Activated Carbon Cartridge
- Non air gap faucet
- Plastic storage tank

Specifications

Item Number	Model Description	Stages	Sediment Filter	Pre-Filter	Membrane	Post-Filter	Output GPD ⁽¹⁾	Rejection % ⁽²⁾	Storage Tank US Gallons ⁽³⁾	Booster Pump
2876	EBP75TFC-3SF	4	Spun Polypropylene	Activated Carbon	TFC	Activated Carbon	75	up to 99%	3.8	Yes

⁽¹⁾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.

⁽²⁾TDS rejection percentages are dependent on the supply conditions and the substance being measured.

⁽³⁾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.

Economy Reverse Osmosis Systems WQA Approved



Models E50TFC-3NSF and E75TFC-3NSF are tested and certified by WQA against NSF/ANSI 58 for the reduction of TDS.

Model E75TFC-3NSF features:

- Reverse osmosis membrane, nominally rated at 75 U.S. 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
- Air gap kit
- Plastic storage tank

Model E50TFC-3NSF features:

- Reverse osmosis membrane, nominally rated at 50 U.S. 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
- Air gap kit
- Plastic storage tank

The following Economy Reverse Osmosis Systems conform to NSF/ANSI 58 for the specific performance claims as verified and substantiated by test data.

Specifications

Item Number	Model Description	Storage Tank	# of Vessels	Storage Tank Capacity Litres (gal)	Vessel 1	Vessel 2	Vessel 3	Vessel 4	Daily Production Rate ⁽²⁾ L/day (G/day)	Efficiency Rating ⁽³⁾ %	Recovery Rating ⁽⁴⁾ %
2885	E50TFC-3NSF	Plastic	4	6 (1.6)	Sediment Filter	Carbon Filter	TFC ⁽¹⁾ Membrane	Carbon Filter	45.4 (12)	8.5	17.5
2886	E75TFC-3NSF	Plastic	4	8.7 (2.3)	Sediment Filter	Carbon Filter	TFC ⁽¹⁾ Membrane	Carbon Filter	100 (26.4)	14.5	25.8

⁽¹⁾ TFC refers to reverse osmosis membranes constructed from a THIN FILM COMPOSITE

⁽²⁾ The daily production rate is the volume of product water produced by the system per day and is determined by testing in accordance with the procedure outlined in NSF/ANSI Standard 58.

⁽³⁾ System's Efficiency rating as verified by testing in accordance with NSF/ANSI standard 58. Efficiency rating means the percentage of the influent water to the system that is available to the user as reverse osmosis treated water under operating conditions that approximate typical daily usage.

⁽⁴⁾ System's Recovery rating as verified by testing in accordance with NSF/ANSI Standard 58. System's Recovery rating means the percentage of the influent water to the membrane portion of the system that is available to the user as reverse osmosis treated water when the system is operated without a storage tank or when the storage tank is bypassed.

*PRESSURE REGULATOR IS RECOMMENDED FOR FEED WATER PRESSURES EXCEEDING 552 kPa (80 psig)

Optional Model 92325

RO Booster with Product Water Pressure Switch and Transformer for 35 to 75 Gallon per day Systems



- Raises the water pressure and maintains it at the ideal level for the system to operate at maximum efficiency.
- Recommended for use on rural supplies with low pressure or high concentrations of total dissolved solids (TDS).
- Pump is self priming and is whisper quiet. It runs on a 24VAC transformer (included) from a standard 120VAC electrical outlet.

System includes: Flexible mounting plate, quick connect fittings and a pressure shut-off switch.

Conditions for Use for All Models

Source Water Supply Profile		Chemical Parameters	Max mg/L
Community/Private	Chlorinated/Non-Chlorinated	Hardness (CaCO ₃)	<10 gpg / NSF: <350 (< 20 gpg)
Feed Water Pressure*	242 – 690 kPa (35 – 100 psig)	Iron (Fe)	<0.1
Temperature	4° – 38°C (40° – 100°F)	Manganese (Mn)	<0.05
pH Range	3.0 – 11.0	Hydrogen Sulfide (H ₂ S)	0.00
Maximum TDS Level	2000 mg/L	Residual Chlorine (Cl ₂)	<2.0
Turbidity**	<1.0 NTU		
Maximum SDI***	<4.0		

*Pressure regulator is recommended for feed water pressures exceeding 552 kpa (80 psig)

**Nephelometric Turbidity Unit

***Silt Density Index: Value stated in SDI units.

