

Model GRO-450

Technical Support Information

Primary Assembly Components

Prefilter Filter #1: Sediment Filter	Prefilter #2: Activated Carbon Block Filter	Membrane: Thin Film Composite (T.F.C.)	Post Filter: In-line Carbon Filter
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Performance Specifications

Membrane Rating	
Membrane Production ¹	50 ± 10 gallons per day (151-227 lpd)
Membrane T.D.S. Reduction ¹	93% minimum

Incoming Water Specifications

Water Pressure:	40-100 psig (280-690 kPa)
Total Dissolved Solids (T.D.S.)	2000 ppm (mg/l) maximum
pH	4-11 (optimum rejection at pH 7.0 - 7.5)
Hardness:	Less than 10 gpg (170 mg/l) or conditioner softened
Iron:	Less than 0.1 ppm (also mg/l)
Manganese:	Less than 0.05 ppm (also mg/l)
Hydrogen Sulfide:	None
Chlorine ² :	See note below
Bacteria ³ :	Water source must be potable

1 Measured at industry standard condition of 65 psig (448 kPa), 77°F (25°C), 600 ppm (mg/l) T.D.S., and discharging to atmosphere.

2 Chlorine will damage a T.F.C. Membrane. The Activated Carbon Block Filter will remove chlorine from the incoming water.

Change cartridge every 6 months, more often if the water contains more than 1 ppm chlorine.

3 Do not use with water that is microbiologically unsafe or of unknown quality, without adequate disinfection before or after the system.



Manufactured by The LeverEdge, Tampa, FL
www.TheLeverEdge.com

The Guardian™ REVERSE OSMOSIS Drinking Water System

Model GRO-450



- Delicious, sparkling-clear drinking water
 - Convenience: fresh, clean water ready for your tap
 - Pristine, flavorful coffee, tea and juice
 - Clean rinsed, fresh fruits and vegetables
 - Crystalline, harder and clearer ice cubes
 - Prolong the life of your humidifier or steam iron
 - Spotless glassware, when rinsed with R.O. water
 - Cost effective: no more bottled water costs
 - Better tasting soups, sauces and meals
 - Environmentally sound: no chemicals!
- Quality water for your aquarium
- Great for your pets!



Four High Performance Filtration Stages...

Stage 1

The Sediment Prefilter protects the automatic shut-off, Activated Carbon Block Filter and membrane from clogging with debris.

Stage 2

The water is then routed to an Activated Carbon Block Filter, where the chlorine is taken out to protect the refined T.F.C. membrane.

Stage 3

Reverse Osmosis. This is the heart of the system. Most particles too small to be trapped by the prefilters are removed by the T.F.C. membrane, reducing unwanted contaminants from the water stream.

Stage 4

The final stage of filtration, an Inline Carbon Filter, removes any remaining tastes and odors before the water reaches your glass, adding a final "polish" to your filtered water.

State-Of-The-Art Features...

Patented Design:

Exclusive manifold plate with patented channel design reduces tubing connections and simplifies installation.

High Capacity Tank:

Holds approximately 3 gallons of water without taking up a lot of space.

Compact System:

Space-saving design is

ideal for under sink installations and uses a minimum of space.

Automatic Shut-Off:

Signals the system to stop making water until more is needed.

Maximum Production:

High performance T.F.C. membrane with a rating of 50 gallons per day (189 liters per day).