microline® Reverse Osmosis Drinking Water System

- Delicious, sparkling-clear drinking water
- Convenience: Fresh, clean water ready at your faucet
- Pristine, flavorful coffee, tea and juice
- Quality water for your aquarium
- Cleanly 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
- Great for your pets

Model T.F.C.-435

Four High Performance Filtration Stages...

Stage 1	Stage 2	Stage 3	Stage 4
The Sediment/Carbon Prefilter protects the automatic shut–off and Membrane from clogging with debris, and is also designed to reduce chlorine, to protect the refined T.F.C. Membrane.	Reverse Osmosis. This is the heart of the system. The T.F.C. Membrane substantially reduces dissolved solids and other unwanted impurities (specified on the performance data sheet) from the water stream.	The R.O. water is then routed to an Activated Carbon Filter, where the water flows through the filter very slowly to achieve prolonged contact with this specialized carbon.	The final stage of filtration, an Inline Carbon Filter, is designed to reduce 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 2 gallons of water without taking up a lot of space.
- Compact System: Space-saving design is ideal for undersink 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).
- Optional Water Quality Monitor: An optional Water Quality Monitor allows you to ensure your system is working by simply pushing a button.

Model T.F.C.-435 Technical Support Information

Primary Assembly Components			
Prefilter: Sediment/Carbon Filter	**Membrane:** Thin Film Composite (T.F.C.)	**Post Filter #1:** Activated Carbon Filter	**Post Filter #2:** Inline Carbon Filter

Performance Specifications

Membrane Rating	
Membrane Production[1]	41-53 gallons per day (155-201 lpd)
Membrane T.D.S. Reduction[1]	96% minimum

System Rating	
System Production[2]	produces 11 gpd (41 lpd)
System Average T.D.S. Reduction[2]	94%

Incoming Water Specifications

Water Pressure	40–100 psig (280–690 kPa)
Total Dissolved Solids (T.D.S.)	2000 ppm (mg/l) maximum
Water Temperature	40–100°F (4–38°C)
pH	4–11 (optimum rejection at pH 7.0 - 7.5)
Hardness	less than 10 gpg (170 mg/l) or soften
Iron	less than 0.1 ppm (mg/l)
Manganese	less than 0.05 ppm (mg/l)
Hydrogen Sulfide	none
Chlorine[3]	see note below
Bacteria[4]	water source must be potable

[1] Measured at industry standard condition of 65 psig (448 kPa), 77°F (25°C), 250 ppm (mg/l) T.D.S., and discharging to atmosphere.

[2] Actual capacity measured at 50 psig (345 kPa), 77°± 2° F (24°- 26° C), and 750 ± 40 ppm (mg/l) TDS per section 6 of NSF/ANSI Standard 58 product water to pressurized storage tank.

[3] Chlorine will damage a T.F.C. Membrane. The Sediment/Carbon Prefilter Cartridge is designed to reduce chlorine from the incoming water. Change cartridge every 6 to 12 months, more often if the water contains more than 1 ppm chlorine.

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

Tested and Certified by NSF International against NSF/ANSI Standard 58 for the reduction of: Arsenic (Pentavalent), Barium, Cadmium, Chromium (Hexavalent), Chromium (Trivalent), Copper, Fluoride, Lead, Nitrate, Nitrite, Radium 226/228, Selenium and TDS.

microline®

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