

## REVERSE OSMOSIS DRINKING WATER SYSTEM

### Four High Performance Filtration Stages

#### Stage 1

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.

#### Stage 2

**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.

#### Stage 3

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.

#### Stage 4

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.

### The 'RO' of the system is the secret

- Delicious, sparkling-clear drinking water
- Convenience: fresher, cleaner water at your faucet
- Reduces single-use plastic bottles (go green)
- Pristine, flavorful coffee, tea, and juice
- Quality water for most aquariums
- 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 RO water
- Cost-effective: no more bottled water costs
- Better tasting soups, sauces, and meals
- Environmentally sound: no chemicals
- Great for family pets



### Why Choose the ChargerPro™ **Microline RO** SYSTEM?




**microline**®  
Reverse Osmosis System

- **Durability and Reliability:** Known for its longevity and minimal maintenance requirements.
- **Consistent Water Quality**
- **Environmentally Friendly**
- **Advanced Technology**



Delivering Cleaner, Healthier  
Water Across America

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<b>Reverse Osmosis</b>	<b>Model #</b> TFC 435
 <p style="text-align: center;">Sediment/Carbon Prefilter Membrane Type Carbon Post Filter In-Line Carbon Post Filter</p>	<p><b>State-of-the Art Features:</b></p> <ul style="list-style-type: none"> <li>• <b>Patented Design:</b> Exclusive manifold plate with patented channel design reduces tubing connections and simplifies installation.</li> <li>• <b>High Capacity Tank:</b> Holds approximately 2 gallons of water without taking up a lot of space.</li> <li>• <b>Compact System:</b> Space-saving design is ideal for undersink installations and uses a minimum of space.</li> <li>• <b>Automatic Shut-Off:</b> Signals the system to stop making water until more is needed.</li> <li>• <b>Maximum Production:</b> High performance T.F.C. Membrane with a rating of 50 gallons per day, (189 liters per day).</li> <li>• <b>Optional Water Quality Monitor:</b> An optional Water Quality Monitor allows you to ensure your system is working by simply pushing a button.</li> </ul>

### Application Guidelines

Water Pressure	TDS (Max)	Temp	pH	Hardness	Iron	Manganese	Hydrogen Sulfide
40 - 100 psig	2000 ppm	40 - 100°F	4-11	<170 mg/l	<0.1 mg/l	<0.05 mg/l	0

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

**REDUCTION PERFORMANCE CLAIMS:** This system has been tested according to NSF/ANSI 58 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 58. Retesting occurs every five years. Testing was performed under standard laboratory conditions. Actual performance may vary.

Test Parameters:		Influent Challenge	Maximum Allowable Product	Average %	
		Concentration (mg/l) <sup>1</sup>	Water Concentration (mg/l) <sup>1</sup>	Reduction <sup>2</sup>	
pH	7.5±0.5	Arsenic (Pentavalent)	3 0.30 + 10%	0.010	97
Turbidity	< 1 NTU	Barium	10.0 + 10%	2.0	96
Temperature	77°±2° F	Cadmium	0.03 + 10%	0.005	98
Pressure	50 psig	Chromium (Hexavalent)	0.30 + 10%	0.1	96
		Chromium (Trivalent)	0.30 + 10%	0.1	98
		Copper	3.0 + 10%	1.3	99
		Fluoride	8.0 + 10%	1.5	94
		Lead	0.15 + 10%	0.010	99
		Nitrate + Nitrite (both as N) <sup>4</sup>	30.0 + 10%	10.0	86
		Nitrate (as N) <sup>4</sup>	27.0 + 10%	10.0 7	0
		Nitrite (as N) <sup>4</sup>	3.0 + 10%	1.0	75
		Radium 226/228 <sup>5</sup>	25 pCi/l + 10%	5 pCi/l	80
		Selenium	0.1 + 10%	0.05	97
		Total Dissolved Solids	750 + 40 mg/l	187	94

<sup>1</sup> Unless otherwise indicated. <sup>2</sup> Average based upon actual test data. <sup>3</sup> This system has been tested for the treatment of water containing pentavalent arsenic (also known as As(V), As(+5), or arsenate) at concentrations of 0.30 mg/L or less. This system reduces pentavalent arsenic, but may not remove other forms of arsenic. This system is to be used on water supplies containing a detectable freechlorine residual at the system inlet or on water supplies that have been demonstrated to contain only pentavalent arsenic. Treatment with chloramine (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic. Please see the Arsenic Facts section of the Performance Data Sheet for further information.

<sup>4</sup> This system is acceptable for treatment of influent concentrations of no more than 27 mg/L nitrate and 3 mg/L nitrite in combination measured as N and is certified for nitrate/nitrite reduction only for water supplies with a pressure of 280 kPa (40 psig) or greater. <sup>5</sup> The reduction of Radium was verified by using Barium as a surrogate under NSF/ANSI Standard 58.