



Water.  
The crucial element.

**microline**<sup>®</sup>

*The element of quality.*



- A SIMPLE,
- BASIC, PURE
- NECESSITY...
- WATER.
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### An essential flow of life.

Water is essential. Water sustains life. We all need water. The earth we inhabit is three-fourths water. Our body weight is almost three-fourths water.

### Vital water.

Water is a daily, life-sustaining requirement. It is one of the pure and basic necessities in life.

Ensuring that the water we drink everyday is the safe, natural water that our bodies demand is as vital as the water itself.

Unfortunately, not all of the water we use from our taps is the pure, fresh water that our bodies desire.

The Microline® R.O. Drinking Water Systems effectively reduce harmful impurities,\* turning ordinary tap water into the water that nature intended for us to drink...fresh, natural, life-sustaining water.

### Replenish What Is Vital... Water.



### Some clear benefits of Microline® R.O. water:

- Delicious, sparkling-clear drinking water.
- Pristine, flavorful coffee, tea and juice.
- Cleanly rinsed fresh fruits and vegetables.
- Crystalline, harder and clearer ice cubes.
- Better tasting soups, sauces and meals when prepared with R.O. water.
- Cost effective. The daily cost of bottled water will no longer be a concern.
- Convenient. Fresh, clean water, ready at your tap.

### Even more uses of R.O. water:

- Rinse your glassware in R.O. water for spotless, sparkling results.
- Nourish your plants and flowers with fresh water.
- Fill your aquarium with clean, clear water.
- Prolong the life of your humidifier or steam iron.

Microline® R.O. water is water the way that it's supposed to be. Water that looks, smells and tastes like drinking water.

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- HOW
- DOES THE
- MICROLINE®
- R.O. SYSTEM
- WORK?
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### The "R.O." of the Microline® System is the secret.

"R.O." is Reverse Osmosis. This is the natural process which sets the foundation of Microline® R.O. Systems. It may sound technical, but osmosis is a natural, organic phenomenon, a process that occurs in nature on a continuous basis. Vegetation, like trees, plants and flowers attain their nutrients by using osmosis to draw water from the soil.

### The Microline® process of Reverse Osmosis (R.O.) works like this:

The pressure from a household tap forces water through a Microline® semipermeable Membrane. This Membrane separates the water at the molecular level. The Membrane acts like a filter so that the Reverse Osmosis water has substantially reduced dissolved solids and impurities\*. This cleaner, more refined water is then stored in a holding tank, ready at your convenience.



- T.F.C.
- THE
- TECHNOLOGY
- OF CHOICE.
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**Another Microline® secret: innovative technology.**

With the unique features of a Microline® R.O. System, the quality is evident in the finest of details, the smallest of parts, and naturally...in the water.

The Microline® R.O. System contains the patented manifold plate which directs the flow of water through each of the filtration steps. The manifold design simplifies as it enhances the system by eliminating the need for individual connections between filtration stages.

The Microline® R.O. System is designed to produce worry-free R.O. water with less waste. When the holding tank is full, the automatic shut-off device is triggered and signals the system to automatically cease production until more water is needed. These technologies have been the secret to the success of the Microline® R.O. System. With over 60 years of water treatment experience behind the Microline® name, there is a long-standing tradition of excellence and quality.

**Microline® offers two models, both featuring its sophisticated Membrane technology:**

**Thin Film Composite Membrane (T.F.C.)** is the technology of choice, producing high quality drinking water at a fast rate. Since T.F.C. Membranes are not chlorine-resistant, the advanced Microline® T.F.C. system features a sediment-carbon prefilter. The carbon prefilter is designed to reduce the concentration of chlorine in feed water, in order to protect the Membrane, allowing T.F.C. systems to be installed on both municipal and private well supplied water systems.

With two models to choose from that both incorporate special features, Microline® offers a system to meet your particular water needs.

Contact your local water treatment professional to have your water tested and to help you determine the system that's right for you.



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The T.F.C.-335 and T.F.C.-435 R.O. Drinking Water Systems have been Tested and Certified by NSF International against NSF/ANSI Standard 58 for the reduction of: Arsenic V, Barium, Cadmium, Chromium III, Chromium VI, Copper, Cyst, Fluoride, Lead, Nitrate, Nitrite, Radium 226/228, Selenium and TDS.

\* For specific percentages of reduction, consult the performance data sheets for models T.F.C.-335 and T.F.C.-435. Do not use with water that is microbiologically unsafe or of unknown quality, without adequate disinfection before or after the system. Systems conform to NSF/ANSI Standard 58 for pentavalent arsenic reduction. See the Performance Data Sheet and Arsenic Facts section for an explanation of reduction performance. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.

These systems are 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.

Canadian Patent Numbers: 2,078,209\2,142,424

*Start your day clean, fresh and clear...*



- TECHNICALY
- SPEAKING...
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**Prefiltration:**

When water first enters the Microline® R.O. System, it flows through a prefilter that protects the automatic shut-off and Membrane from clogging with debris. The job of the prefilter is to filter out larger particles such as silt, rust or scale, extending the life of your R.O. Membrane and allowing it to reduce impurities\*.

In the Microline® T.F.C. Systems, the prefilter also has activated carbon in it. Activated carbon is used to reduce chlorine, which is necessary to protect the refined T.F.C. Membrane.

**The Membrane:**

Water then travels to the operational center of the system—the Membrane. Here, most particles too small to be trapped by the prefilter are removed from the water stream and rinsed to the drain.

The Membrane’s microscopic pores allow Hydrogen and Oxygen molecules through, (and water is H<sub>2</sub>O). The majority of the dissolved solids and impurities\* are flushed into the drain’s water stream and exit the system.

All Microline® R.O. Systems have our patented seal on each Membrane. The seal is designed to assure worry free installation, simplify system maintenance and reduce your service costs.



**The "Final Polish":**

After the Membrane, the R.O. water is routed to the holding tank. Our tank holds approximately 2 gallons of fresh, clean water and the automatic shut off tells the system when it’s time to make more. When you turn on the Microline® faucet and draw water from the holding

tank, it then goes through its final stage of filtration, a carbon filter, designed to reduce any remaining tastes and odors before reaching your glass. The carbon imparts the final “sweet” polish to your water.

**The Element Of Quality.  
Microline® R.O. Drinking Water Systems**

Your local water treatment professional:

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Form No. S1455 03/10/2010