

# PHELPS WATER COMPANY

WATER TREATMENT • WELL PUMP SERVICES



The Microline R.O. drinking water system provides crystal clear water for drinking and cleaning purposes. The R.O. system is a cost-effective way to provide your household with drinking water on a daily basis eliminating the need for bottled water. Water is treated in its membrane and series of filters, which is then held in a storage tank ready to be used to make coffee, clean foods, cook meals, and most importantly drink.

## HOW DOES REVERSE OSMOSIS WORK?

“R.O” is Reverse Osmosis. 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 pressure from a household tap forces water through a Microline semi-permeable membrane. This membrane separates the everyday household water at the molecular level.

The membrane acts like a filter to isolate impurities, reducing them so that the water becomes purer, reverse osmosis water, with substantially reduced dissolved solids and impurities. This cleaner, more refined water is then stored in a holding tank, ready at your convenience.

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

The Microline R.O. drinking water system effectively reduces harmful impurities, turning ordinary tap water into the water that nature intended for us to drink.

## THE PROCESS

The T.F.C-335 RO system features such benefits as three stages of filtration for the ultimate in clean, fresh tasting water as well as larger tubing to provide faster water flow to the Microline faucet.

In the Microline T.F.C-335 RO system, water first enters the system through the sediment/carbon pre-filter. This specialized filter 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.

Water then travels to the operational center of the system—the T.F.C membrane, this is where the “Reverse Osmosis” of the Microline R.O. system happens.

After the membrane, the R.O. water is routed to an activated carbon post filter. At this stage of filtration, the water flows through the filter very slowly to achieve prolonged constant with this specialized carbon. A carbon post filter is designed to reduce any remaining tastes and odors before reaching your glass. This carbon imparts the final “sweet” polish to your water. Water is then plumbed to the holding tank, ready for use.

**The Microline T.F.C.-335 R.O. Drinking Water System will reduce the following (but not limited to):**

- ✓ Arsenic
- ✓ Chromium III
- ✓ Cyst
- ✓ Nitrate
- ✓ Selenium
- ✓ Barium
- ✓ Cadmium
- ✓ Copper
- ✓ Lead
- ✓ Radium
- ✓ Nitrite
- ✓ Chromium VI

