

REVERSE OSMOSIS DRINKING WATER SYSTEM

The 'RO' of the system is the secret

RO is Reverse Osmosis. This is the natural process which sets the foundation of RO 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 **ClearConnect RO Drinking Water System** uses a combination of filtration technologies to reduce unwanted contaminants in a water supply. This unit is designed to reduce the dissolved mineral content of the water. In the RO process, dissolved minerals are separated from the incoming water to produce the product water. The excess minerals are rinsed to drain.

Reverse Osmosis (RO) works like this:

The pressure from a household tap forces water through a semipermeable membrane. This membrane separates the water at the molecular level. The membrane acts like a filter, assuring the RO water has substantially reduced impurities and dissolved solids. This cleaner, more refined water is then stored in a holding tank, ready at your convenience.

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- 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 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 RO water
- Cost-effective: no more bottled water costs
- Better tasting soups, sauces, and meals
- Environmentally sound: no chemicals
- Great for family pets



For Reduction of:

- | | |
|----------|-----------------|
| Arsenic | Lead |
| Barium | Nitrate/Nitrite |
| Cadmium | Radium 226/228 |
| Chromium | Selenium |
| Copper | TDS |
| Fluoride | |



NSF/ANSI 58
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Why Choose the ChargerPro™ ClearConnect™ SYSTEM?

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

ClearConnect™

Reverse Osmosis System



Delivering Cleaner, Healthier
Water Across America

www.chargerwater.com

Qualified System Performance: Because the performance of an RO Membrane is highly dependent upon pressure, temperature, pH, and TDS, the following should be used for comparison purposes only.

Reverse Osmosis	Model #	Membrane Production ¹	Membrane TDS Reduction ¹	Drain (Reject Water) Flow	Empty Storage Tank Pre-charge
	CC50	41-53 gpd	96% minimum	3-5 times product flow	5-7 psig air



1: Industry standards measure RO Membranes performance with no backpressure on the product water, at 65 psig and 77°F. Further conditions on the above are 600 ppm TDS. Production rate and TDS reduction figures are for a new membrane that has been rinsed for 24 hours. The production rate of a new membrane can decrease by 10% per year or more, depending upon the scaling and fouling tendencies of the feed water.

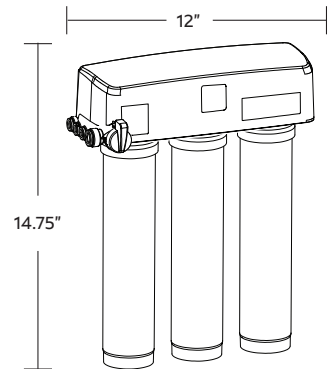
ClearConnect RO Drinking Water System

Features:

- Twist-off filter cartridges
- High capacity 50 gpd RO membrane assembly for easy replacement
- Automatic shutoff valve to prevent excess reject water from going to drain when the unit is not producing water
- Compact size for an easier under-the-counter unit

Components of this RO System include:

- An RO manifold assembly
- A drinking water holding tank
- A dispensing faucet
- A feed water saddle valve
- A drain clamp
- Plastic tubing and tube connectors
- An RO membrane module
- Two sediment/carbon modules
- RO system cover
- Other items necessary for installation



Recommended Operating Limits for Feed Water

Water Pressure	TDS	Temperature	pH	Iron	Manganese	Hydrogen Sulfide
10-100 psig	2000 ppm max	40-100°F	4-11 (optimum rejection at pH 7.0-7.5)	<0.1 ppm	<0.05 ppm	None

Chlorine: Chlorine will damage a TFC Membrane. The Sediment/Carbon Module has been designed to reduce chlorine from the incoming water. Change filter every 6 to 12 months, more often if the water contains more than 1 ppm chlorine.

Bacteria: Must be potable. DO NOT USE WITH WATER THAT IS MICROBIOLOGICALLY UNSAFE OR OF UNKNOWN QUALITY, WITHOUT ADEQUATE DISINFECTION BEFORE THE SYSTEM.



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