CHARGER
Water Treatment Products

CWQC RO Drinking Water *System*

The CWQC50 Reverse Osmosis (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.

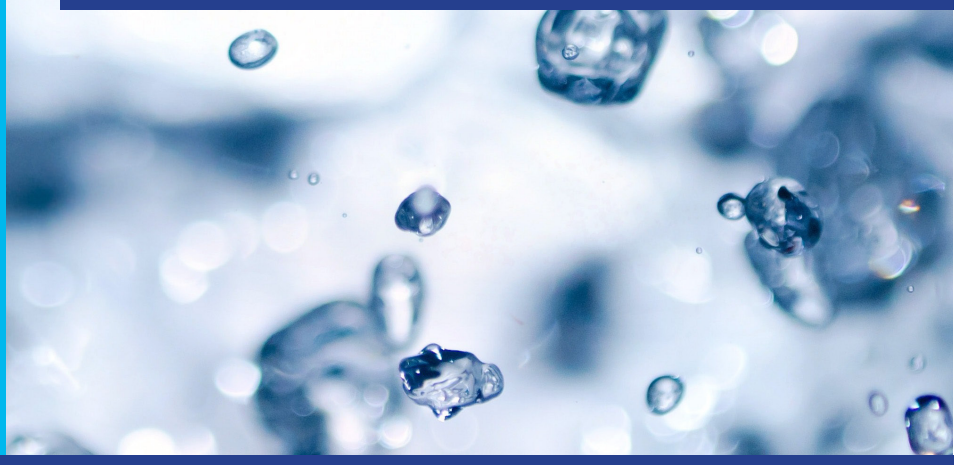
Components of this RO System include:

- 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

Features and Benefits:

- 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 fit

Model: CWQC50



CHARGER
Water Treatment Products

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.

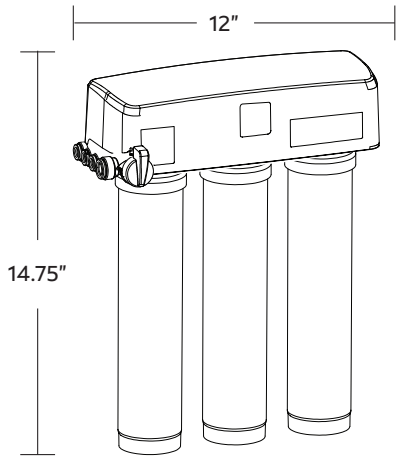
	U.S.	*Metric*
Membrane Production[1]	41-53 gpd	155-201 lpd
Membrane TDS Reduction[1]	96% minimum	96% minimum
Drain (reject water) Flow	3-5 times product flow	3-5 times product flow
Empty Storage Tank Pre-charge	5-7 psig air	35-48kPa air

1: Industry standards measure RO Membranes performance with no backpressure on the product water, at 65 psig (448kPa) and 77°F (25°C). 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.

Recommended Operating Limits for Feed Water

	U.S.	*Metric*
Water Pressure	40 -100 psig	280 - 690 kPa
TDS	2000 ppm max.	2000 mg/l max.
Temperature	40-100°F	4-38°C
pH	4-11 (optimum rejection at pH 7.0-7.5)	
Hardness	<10 g/g or soften	<170 mg/l or soften
Iron	<0.1 ppm	<0.1 mg/l
Manganese	<0.05 ppm	<0.05 mg/l
Hydrogen Sulfide	None	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.	

Parts per Pallet: 39



Charger Water Treatment Products
8150 N. Lehigh Ave., Morton Grove, IL 60053
www.chargerwater.com/FAQ
Part Number: S34211-CS1-CH