



Membrane Installation Guide



IMPORTANT WARRANTY INFORMATION

CSM residential membrane elements have one (1) year performance warranty from the date of purchase. Any membranes with a manufacture defect must be returned within thirty (30) days to the original retailer for product exchange or a refund. Please note the membrane performance rating on the packaging for operation parameters. It is the customer's responsibility that the parameters stated are not to be exceeded.

1 Turn off incoming water to system. This includes shutting off the feed valve located at the cold water feed line (fig. 1), and shutting off tank ball valve (fig. 2).

2 Relieve pressure in system. Turn on and leave the faucet in the open position. Water should come out with a slow drip and eventually stop.



FIG. 1



FIG. 2

3 Remove the membrane housing from clips and disconnect white tubing from cap. Push down around the tubing to release it from the fitting. Using the membrane housing wrench (available at your local plumbing wholesale store) to remove the cap from the membrane housing by unscrewing counter clockwise).



FIG. 3

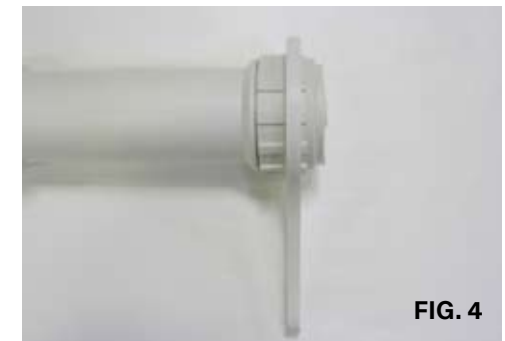


FIG. 4

Warning

1. Do not use RO system to purify non-drinkable sources of water that are unsafe or with water of unknown quality
2. Never use hot water or allow unit to freeze
3. Incorrect installation will void the warranty

4 Remove the existing membrane. Grab the plastic tube with pliers and pull the membrane out. Inspect housing of any parts left inside (i.e. o-rings, debris).

5 Remove new membrane from sealed bag. Inspect for missing o-rings.

6 Insert membrane with the two small stem o-rings going in first. Push all the way in until membrane stops.



FIG. 5

7 Put on cap and tighten by hand. Use the membrane housing wrench to apply a 1/4 turn until the cap is tight.

8 Reconnect white tubing to cap. Simply push all the way in and give a few tugs to make sure it does not slip out.



FIG. 6

9 Turn faucet in closed position and turn on cold water valve 1/2 of the way. Let the system fill with water and check for leaks. After five minutes open the tank valve and completely open the cold water valve.





FIG. 7

5-Stage RO System Filtration Process

LEGEND

- 1 = Sediment Filter
- 2 = Carbon Pre-Filter
- 3 = Auto Shut-off Valve
- 4 = RO Membrane
- 5 = Check Valve
- 6 = Carbon Post-Filter
- 7 = Pressurized Storage Tank
- 8 = Faucet
- 9 = Flow Restrictor

- RO Feed 
- RO Permeate 
- RO Brine 