

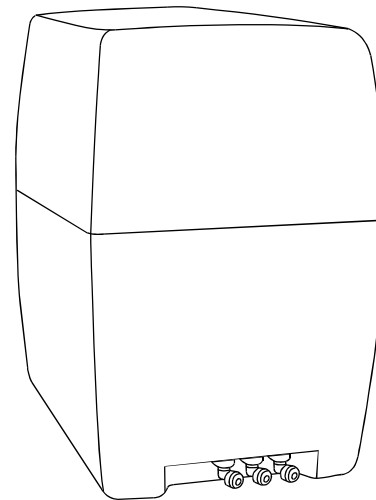
Type of product			
Date of purchase			
Name		Tel	
Address			
S800-Direct Flow Reverse Osmosis Water Systems			



REVERSE OSMOSIS SYSTEM

USER'S MANUAL

- 01 Introduction of-Direct Flow
- 02 What is reverse osmosis
- 03 Components & Selected filters
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FAQ

Q: How will the water affect mixed beverages?

Because reverse osmosis removes invisible contaminants that mask flavor, it allows the natural taste of your beverages to come through. You will be able to use less coffee and still get the full flavor. Concentrated beverages like orange juice will taste tangier. You will probably be drinking a lot more water as well, since many people drink soda, Kool-Aid, concentrated juices, and beer as an alternative to bad-tasting tap water. Also, eliminates most of the lime build up on drip coffee makers, preventing the need for frequent cleaning. No longer will you find the white scum on the inside of pans after boiling water.

Q: How much water does the system produce ?

Under ideal conditions, the RE1812-200 TFC membrane is rated at 400gallons of production per day (400gpd at 80psi). Under the average conditions, the consumer can expect 70-95 gallons of product water per day. But that's still a lot of water for the average household's drinking and cooking requirements.

Q: Don't people need minerals removed from the water ?

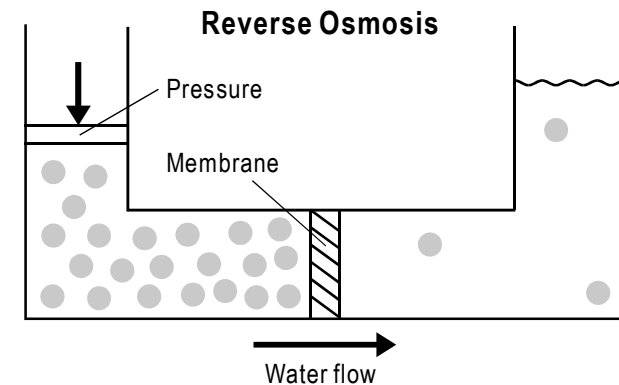
Most of the minerals that we receive are from the foods we eat. Only a very small percentage comes from the water we drink.

Q: What is the maintenance schedule for the System ?

The three pre-filter cartridges should be changed every 6 months. The 5 micron sediment cartridge filter is the first one; the second is a carbon cartridge filter, and the third one is a 1 micron sediment filters. (some systems comes with the Extruded carbon filter.) Failure to change the cartridge every 6 months may cause chlorine to destroy the membrane.

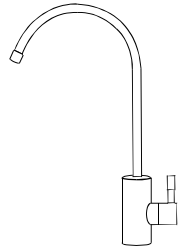
What is reverse osmosis

Reverse osmosis was originally designed to make sea water drinkable for the navy. It is ideal for anyone on a low sodium diet. An R.O. membrane has a pore size much smaller than bacteria virus, or the cryptosporidium parasite. When functioning properly it will remove all microorganisms from tap water and produce sterile water. Reverse osmosis is the reversal of the natural flow of osmosis. In a water purification system, the goal is not to dilute the salt solution, but to separate the pure water from the salt and other contaminants. When the natural osmotic flow is reversed, water from the salt solution is forced to pass through the membrane in the opposite direction by application of pressure-thus the term REVERSE OSMOSIS. Through this process, we are able to produce pure water by screening out the salts and other contaminants.

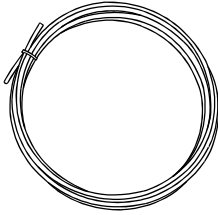


Components & Selected filters

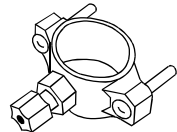
◆ Components



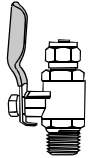
Faucet



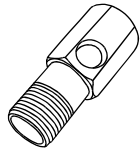
Tubing



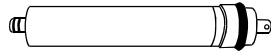
Drain saddle



Deliver-valve

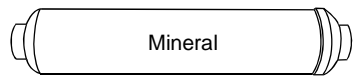


Water supply connector

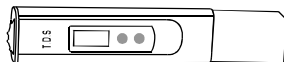


RO membrane x 2

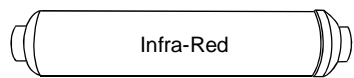
◆ Selected filters



Mineral cartridge filter



TDS meter



Infra-red cartridge filter



UV water sterilizer

FAQ

Q: What is the guarantee on the system ?

The System (excluding filters) is guaranteed for 1 year for material and workmanship. All defective parts will be replaced free within the first year under natural breakdown. The membrane has one year pro-rated guarantee.

Q: What factors affect the quantity and the quality of the water production?

There are four major variables to consider:

1. **Pressure**-The greater the water pressure, the better water quantity and quality it produced. Water pressure of 60 PSI is ideal.
2. **Temperature**-76°F is the ideal water temperature for R.O. 40°F water will cause the production of R.O. water to fall to half of that at 76°F. The maximum water temperature recommended is 85°F.
3. **Total Dissolved Solids (TDS)**-The higher the amount of dissolved contaminants in the water, the lower the quantity of water produced. A high level of TOTAL DISSOLVED SOLIDS can be overcome with additional water pressure.
4. **Membrane**-Different membranes have different characteristics. Some produce more water than others; some have better contaminant rejection capabilities; some have greater resistance to chemical abrasion for longer life. Pure-Pro system includes RE1812-200 The Thin Film Composite (TFC) membranes combine the best of these characteristics and are considered the finest membrane in the world.

Q: Can the system be connected to an extra faucet?

It only takes a 1/4" tee and tubing to run the water to a refrigerator or a extra faucet. Some families run system to all of their bathrooms.

Q: What does the series drinking water taste like?

The taste of the water depends on the amount of contaminants in the tap water originally. If 95% of dissolved minerals and chemicals are removed, the R.O. water may taste like distilled water (no minerals), bottled water (low mineral), or natural spring water (moderate mineral content).

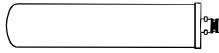


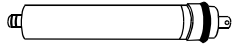
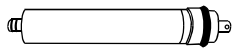
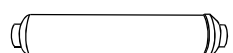
Operation regulation

- A. With everything connected, turn on the water check for leaks.
- B. Make sure the storage tank shut-off valve is "OFF". Open the sink top faucet.
- C. Within a few minutes (up to 15) the water will start to run from the faucet slowly.
- D. Let the water run for at least 30 minutes. This flushes the carbon filters on first time use.
- E. Begin initial flushing.
- F. Close the sink top faucet. The system is now ready for use.
- G. Change filters regularly every 6 to 12 months and have the membrane checked annually.

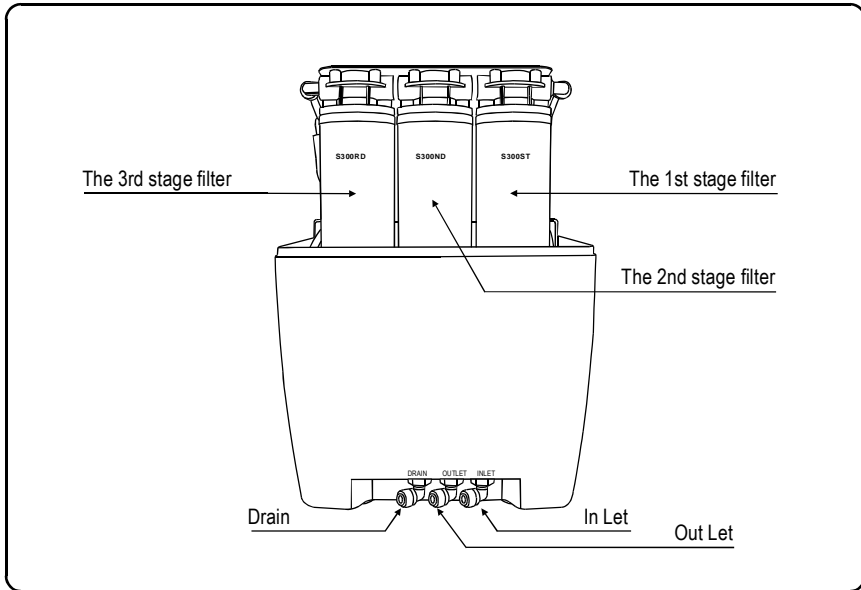
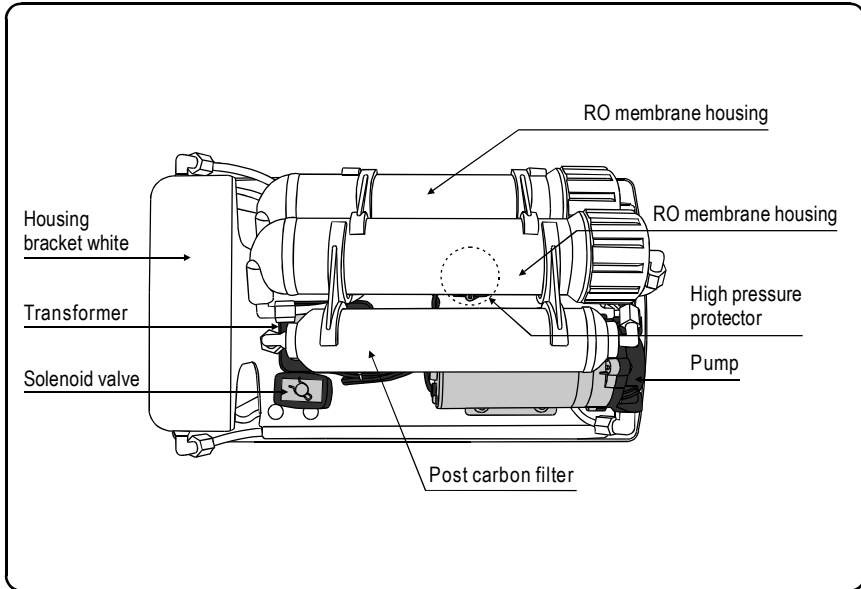
Caution

1. Do not use hot water (over 45°C)!
2. Do not freeze the machine!
3. Switch off electricity and water source if away for more than 5 days, and drain out pure water.

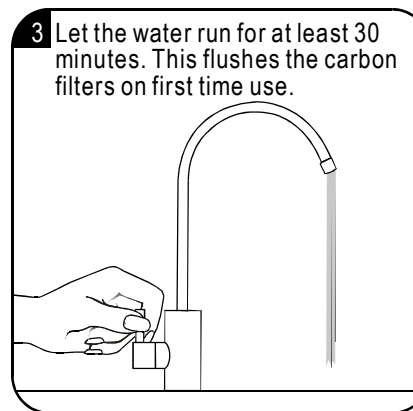
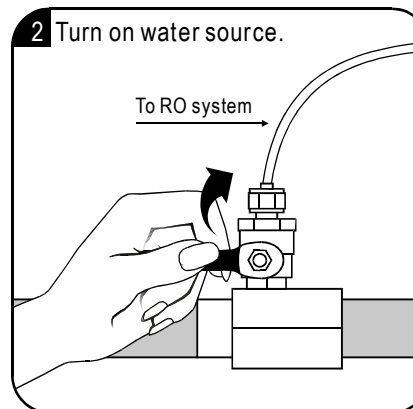
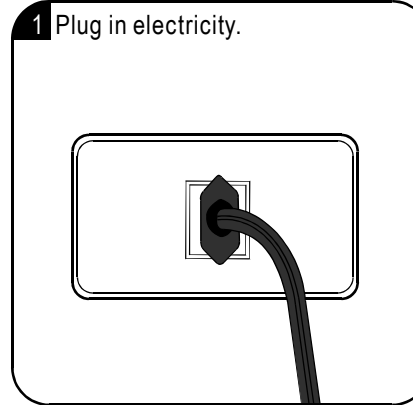
Cartridge Filters

Cartridge Filters	Filter Description	Service Life
<p>Stage 1 5 Micron Sediment Filter</p> 	<p>S300ST With only five micron rating. It is effective in removing dirt, rust and sand particles.</p>	6 Months
<p>Stage 2 GAC Carbon Filter</p> 	<p>S300ND It takes out 99% of the chlorine and organic chemicals. It provides enhanced reduction of taste, odor, and color.</p>	6 Months
<p>Stage 3 GAC Carbon Filter</p> 	<p>S300RD It takes out 99% of the chlorine and organic chemicals. It provides enhanced reduction of taste, odor, and color.</p>	6 Months
<p>Stage 4 TFC Membrane</p> 	<p>200 Gallon Per Day Membranes are now available in residential sizes. Designed to perform in operating conditions similar to most standard under-the-counter home RO units, the TW30-1812-200 forms a tight fit in most standard residential housings.</p>	2 Years
<p>Stage 5 TFC Membrane</p> 	<p>200 Gallon Per Day Membranes are now available in residential sizes. Designed to perform in operating conditions similar to most standard under-the-counter home RO units, the TW30-1812-200 forms a tight fit in most standard residential housings.</p>	2 Years
<p>Stage 6 Post Carbon Filter</p> 	<p>This carbon post filter removes objectionable tastes and odors to enhance the quality of your drinking water. We are using NSF approved post carbon to guarantee the taste of water.</p>	1 Year

The parts of-Direct Flow

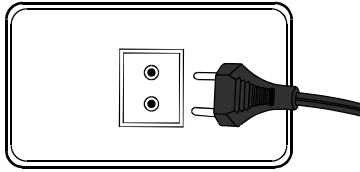


Operation regulation

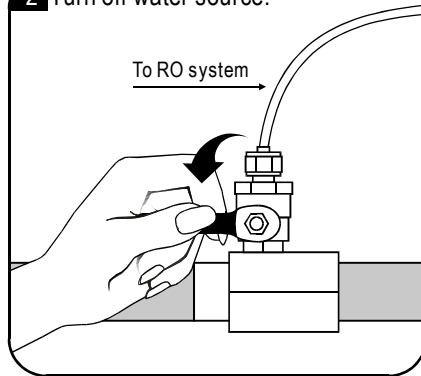


Change membrane

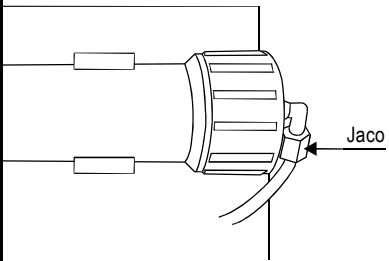
1 Unplug electricity.



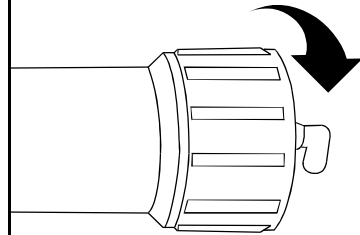
2 Turn off water source.



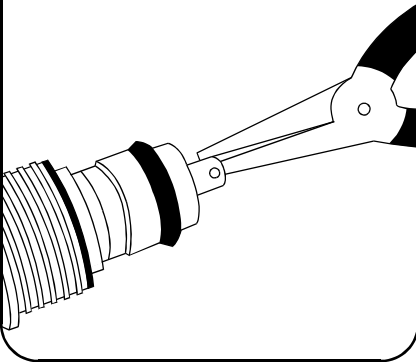
3 Loosen the Jaco fitting anticlockwise.



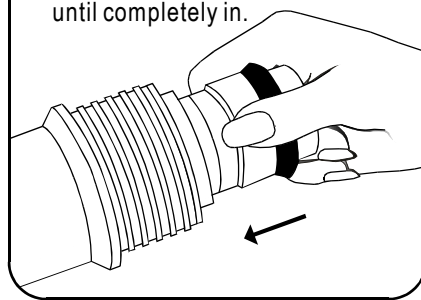
4 Remove the membrane housing cap anticlockwise.



5 Remove the membrane by a pincer.



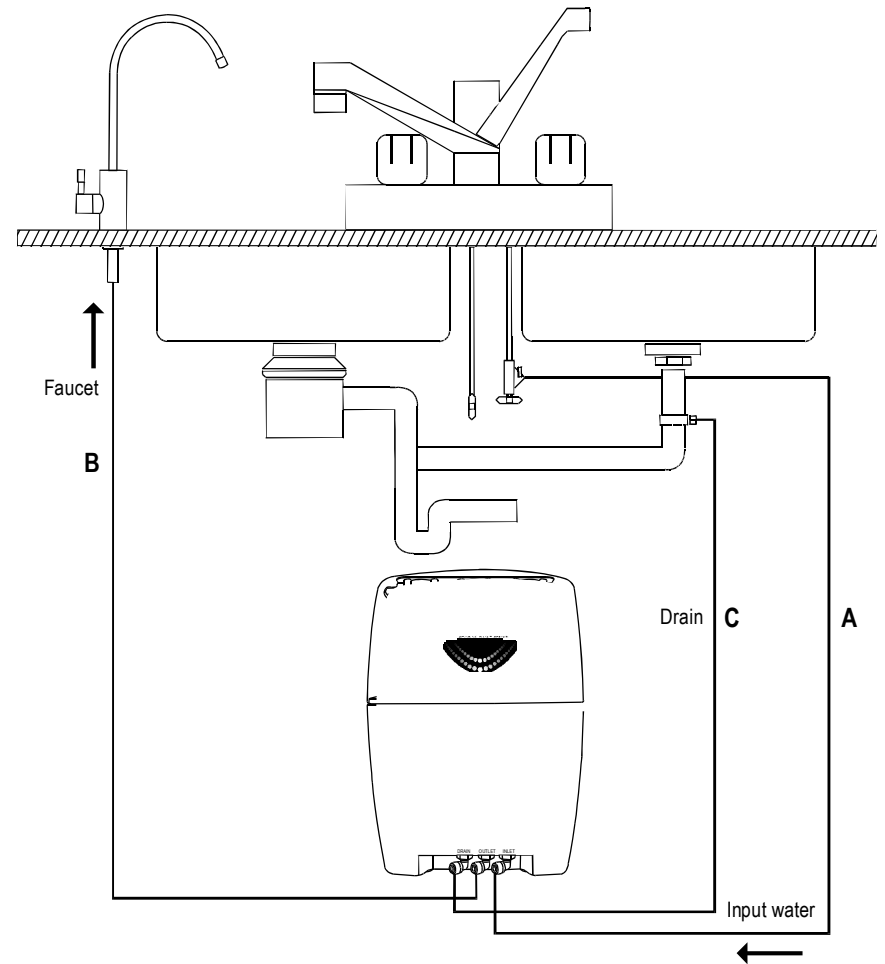
6 Install the membrane by carefully pushing the spigot end into the socket at the far end of the housing until completely in.



Tubing connection diagram

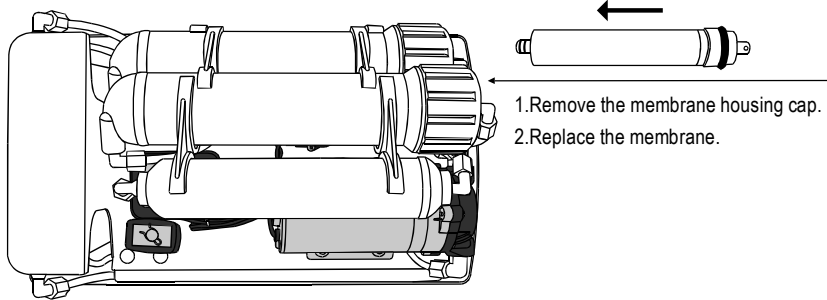
CONNECTING THE COLOR TUBING:

- A. Connect the WHITE tubing to the water supply connector.
- B. Connect the BLUE tubing to the sink top faucet.
- C. Connect the BLACK tubing to the drain saddle.

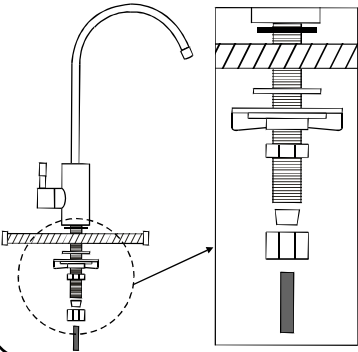


Installation diagram

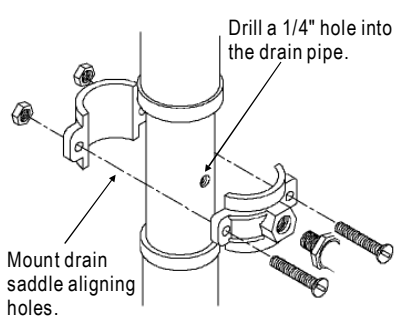
Assemble membrane :



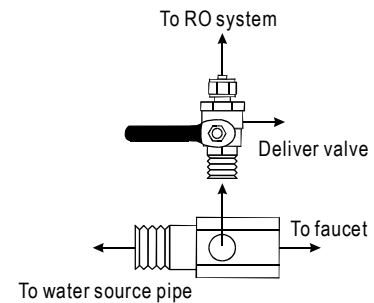
Install European ceramic faucet :



Install drain saddle :

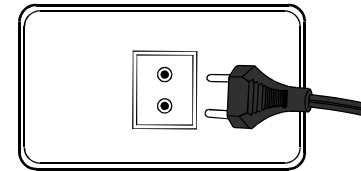


Input water :

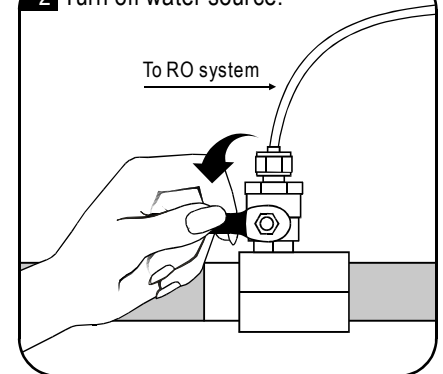


Change filters

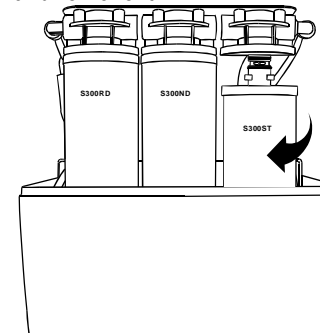
1 Unplug electricity.



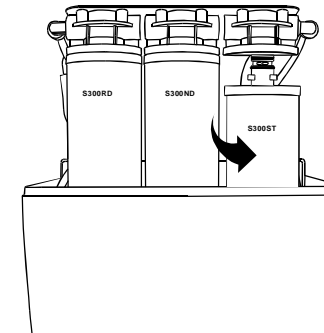
2 Turn off water source.



3 Loosen the used pre-filter clockwise and remove it.



4 Screw in and install the new filter anticlockwise.



5 Drain out 1 Gallon of water to purify replacement filters.

