

RainSoft Division of Aquion Partners, L.P.

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RainSoft®
Water Treatment Systems

**MODEL 9593
REVERSE OSMOSIS
DRINKING WATER SYSTEMS**

**Owners
Manual**

MODEL 9593 YOUR NEW REVERSE OSMOSIS DRINKING WATER SYSTEM

You now have one of the finest Reverse Osmosis Drinking Water Systems made. It will give you years of cleaner, clearer, better tasting drinking water with only occasional attention.

To make using, operating and maintaining your system as enjoyable as possible, please read this owner's manual. It contains all the information you need, presented in a clear concise manner.

This Reverse Osmosis System has been preset for optimum performance by your RainSoft dealer. Do not attempt to reset, remove or repair any items except as indicated under "Routine Maintenance." Tampering with settings may result in poor performance, leaks and/or personal injury.

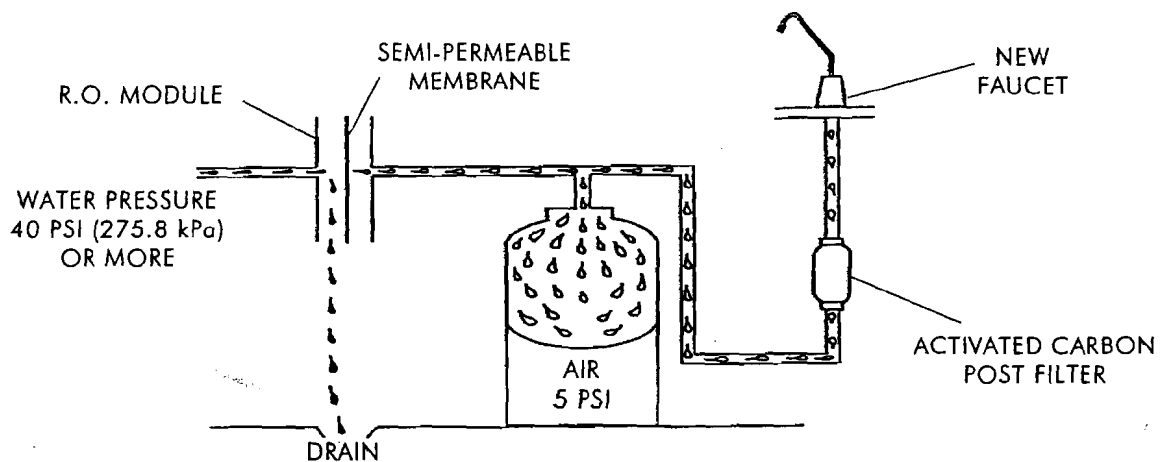
WHAT IS REVERSE OSMOSIS?

To fully understand the technology of Reverse Osmosis (R.O.), one must first understand normal osmosis. Osmosis is a natural process that occurs in living things. In plants, osmosis permits the absorption of water and nutrients through the root system. In people, nutrients are absorbed into the blood stream by osmosis.

Reverse Osmosis utilizes pressure to reverse this normal osmosis; thus in reverse osmosis, water flows from a more concentrated solution through a semi-permeable membrane to a less concentrated solution.

In the RainSoft system the water supply flows over the surface of a semi-permeable membrane which is rolled into the R.O. cartridge. The pressure forces the water through the membrane, while the remaining water, now heavy in contaminants, is flushed down the drain.

The purified water is stored in a storage tank that has a bladder in it, pressurized with about 5 PSI of air pressure. This pressure forces the water through an activated carbon post filter and up to a new R.O. faucet installed on the kitchen sink and wherever else R.O. water is desired.



RAINSOFT MODEL 9593 REVERSE OSMOSIS SYSTEM COMPONENTS

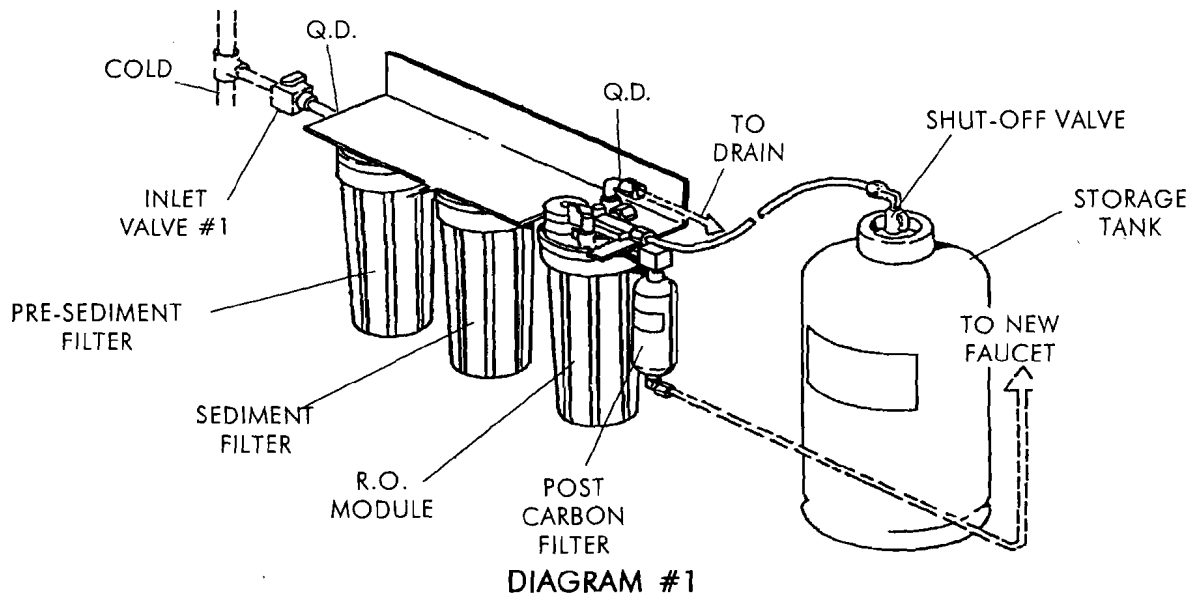
1. **PRE-SEDIMENT FILTER:** A water filter that removes large particles and sediment down to 30 microns in size from the supply stream. The filter cartridge requires periodic replacement, 6 months after installation or sooner, depending upon the quality of the water and the amount used. An order form for replacement filters is located at the end of this manual.

2. **SEDIMENT FILTER:** A water filter that removes particles and sediment as small as 5 microns in size from the supply stream. The filter cartridge requires periodic replacement, 6 months after installation or sooner, depending upon the quality of the water and the amount used. An order form for replacement filters is located at the end of this manual.

3. **R.O. MEMBRANE CARTRIDGE:** A spiral wound, cellulose tri-acetate (CTA), semi-permeable membrane R.O. cartridge. The R.O. cartridge requires periodic replacement, 18 months after installation or sooner depending upon the water and the amount used. An order form for a replacement R.O. cartridge is located at the end of this manual.

4. **ACTIVATED POST CARBON FILTER:** An activated carbon filter to remove unwanted tastes, odors and other impurities. The activated carbon post filter requires periodic replacement, 6 months after installation or sooner depending upon the quality of the water and the amount used. An order form for replacement filters is located at the end of this manual.

MODEL 9593 R.O. SYSTEM

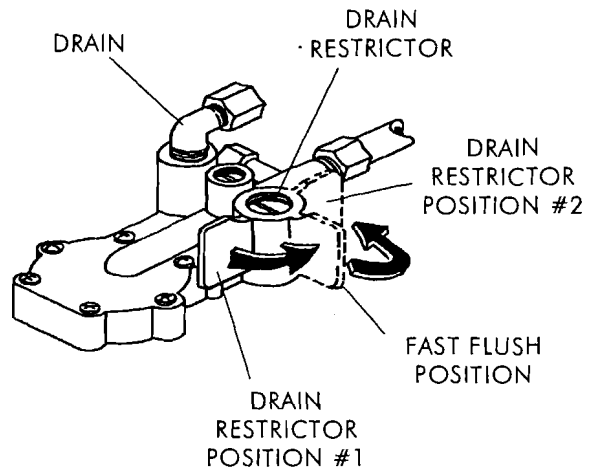


PRE-SEDIMENT FILTER ASSEMBLY = HOUSING ASSEMBLY & CARTRIDGE
 SEDIMENT FILTER ASSEMBLY = HOUSING ASSEMBLY & CARTRIDGE
 R.O. MODULE ASSEMBLY = HOUSING ASSEMBLY & MEMBRANE CARTRIDGE

ROUTINE SYSTEM MAINTENANCE

AT LEAST ONCE A WEEK: The storage tank should be drained and the system should be fast flushed. This will maintain a fresh water supply in the storage tank and promote better operation of the R.O. cartridge.

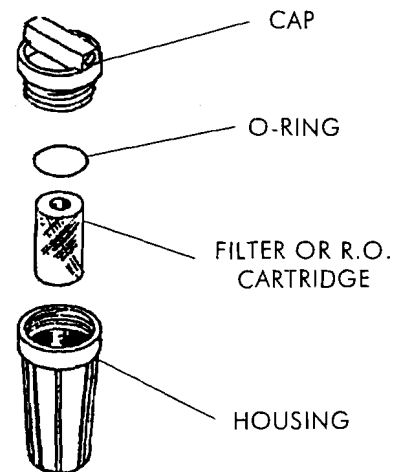
To drain the storage tank, open the R.O. faucet. Let the water run until there is only a dripping coming from the faucet. Then close the R.O. faucet and rotate the drain restrictor to the fast flush position (shown at right). The sound of rushing water should be heard. Allow the system to fast flush for 5 to 7 minutes. Then rotate the drain restrictor to position #2. The next time you drain the tank, reverse the rotation of the drain restrictor.



TO CHANGE THE CARTRIDGE FILTERS OR R.O. CARTRIDGE

(Use only RainSoft replacement parts)

1. Shut-off the water at inlet valve #1 (see diagram #1) and open the faucet to drain the storage tank completely.
2. Remove the unit from hanger and place over a drip pan for water spillage. Extra tubing has been provided to facilitate this process.
3. Unscrew the pre-filter or R.O. housing from the cap.
4. Replace the filter or R.O. cartridge.
Note: When changing the R.O. cartridge be sure that the O-Ring and rubber brine seal are securely in place. If it has been longer than 6 months since the filter has been changed, lubricate all the O-Rings with a non-petroleum base lubricant.
5. Screw the housing back onto the cap. **HAND TIGHTEN ONLY!**
6. Open inlet valve #1 and check for leaks.



WHEN GOING ON VACATION: Close the cold water inlet valve. When you return, open the cold water inlet valve, fast flush the system and drain the storage tank, as indicated above.

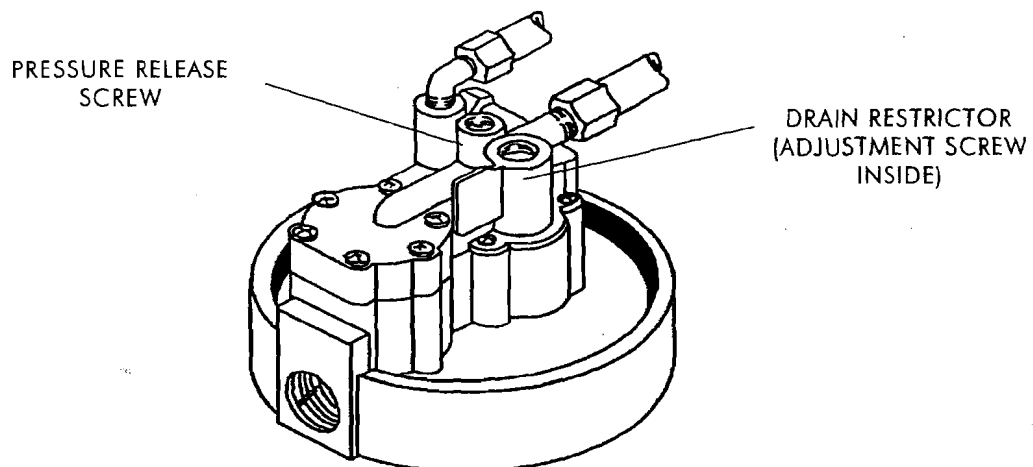
YOUR RAINSOFT DEALER WILL TEST A SAMPLE OF YOUR R.O. WATER AT ANY TIME AT NO CHARGE

1. Open the R.O. water faucet and let it run until it is merely dripping.
2. Catch the R.O. water drips in a clean glass. Rinse the glass in the R.O. water. Discard the rinse water.
3. Catch another sample of R.O. water, as above, and take it to your dealers office during normal working hours. Phone him/her first.

TROUBLE SHOOTING GUIDE

SYMPTOM	PROBABLE CAUSE	SOLUTION
No water	Bladder over pressurized Water supply turned off Faulty valve Water supply blocked Fouled R.O. cartridge Product line crimped Bladder leaking Air Valve leaks	Relieve pressure to 5 PSI Turn on Replace or repair Clear blockage Replace Remove crimp Replace Replace & recharge to 5 PSI
High TDS water	Drain Restrictor blocked Low water pressure Fouled R.O. cartridge Fouled Pre-filters	Rotate Drain Restrictor 180° Unit requires 40 PSI supply (minimum) Replace Replace
Bad taste	Various	Call your RainSoft Dealer

WARNING: Do not attempt to reset or remove the Pressure Release Screw or the Drain Restrictor Screw. These items are pre-set by your RainSoft dealer. Tampering with these settings could result in poor system performance, leaks and/or personal injury.



**IF YOU REQUIRE SERVICE ON YOUR RAINSOFT PRODUCT
PLEASE CALL YOUR LOCAL DEALER.**

**IF THERE IS DAMAGE TO YOUR PERSONAL PROPERTY DUE TO
PRODUCT MALFUNCTION PLEASE
FOLLOW THESE INSTRUCTIONS:**

1. **DO NOT REPAIR UNIT.**
Shut off the R.O. inlet valve. Open R.O. faucet to exhaust pressure.
2. **DO NOT REPAIR DAMAGED PROPERTY OR MERCHANDISE.**
Damaged property or merchandise should be preserved "as is" for inspection by a properly
credentialed Factory Representative. (Not a dealer or agent of a dealer).
3. **NOTIFY CUSTOMER SERVICE-DAMAGE CLAIM DEPARTMENT, Elk Grove Village, immediately by
calling 1-800-560-7638 or 847-437-5539, followed by a confirming letter sent by registered mail to:**

CUSTOMER SERVICE-DAMAGE CLAIM DEPARTMENT
RAINSOFT DIVISION OF AQUION PARTNERS L.P.
2080 E. LUNT AVE
ELK GROVE VILLAGE, IL 60007

4. **A FACTORY REPRESENTATIVE will examine damage and determine company liability.**

**POSITIVELY NO CLAIMS WILL BE HONORED BY THE FACTORY UNLESS
THE ABOVE PROCEDURE IS FOLLOWED!**