

RainSoft Division of Aquion Partners, L.P.

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RainSoft®

Water Treatment Systems

UF SERIES REVERSE OSMOSIS DRINKING WATER SYSTEMS

Owners Manual



Models UF22TCB, UF22N-CB, UF50TCBVOC are tested and validated by WQA against ANSI/NSF Standard 58 for Barium, Cadmium, Chromium (Hexavalent, Trivalent), Copper, Cysts, Turbidity, Radium 226/228, Lead, Selenium, Nitrate, TDS, VOC Reduction. See performance data sheet for actual VOC claims. Model UF10C-GAC is tested and validated by WQA against WQA S-100.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection or after the system. System certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

Models UF10C-GAC, UF22N-CB, UF50N-CBVOC are not registered in the State of California

Part No.: 15417
Revised: 6/01

YOUR NEW REVERSE OSMOSIS DRINKING WATER SYSTEM

You now have the finest Reverse Osmosis Drinking Water System available. 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 pre-set 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 setting may result in poor performance, leaks and/or personal injury.

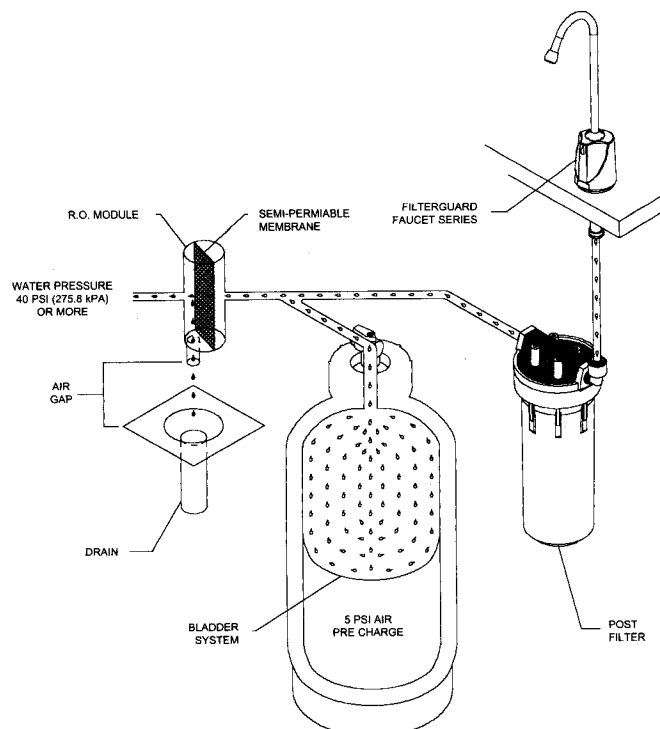
WHAT IS REVERSE OSMOSIS?

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 normal osmosis; thus in reverse osmosis, water flows from a 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 to a less concentrated solution.

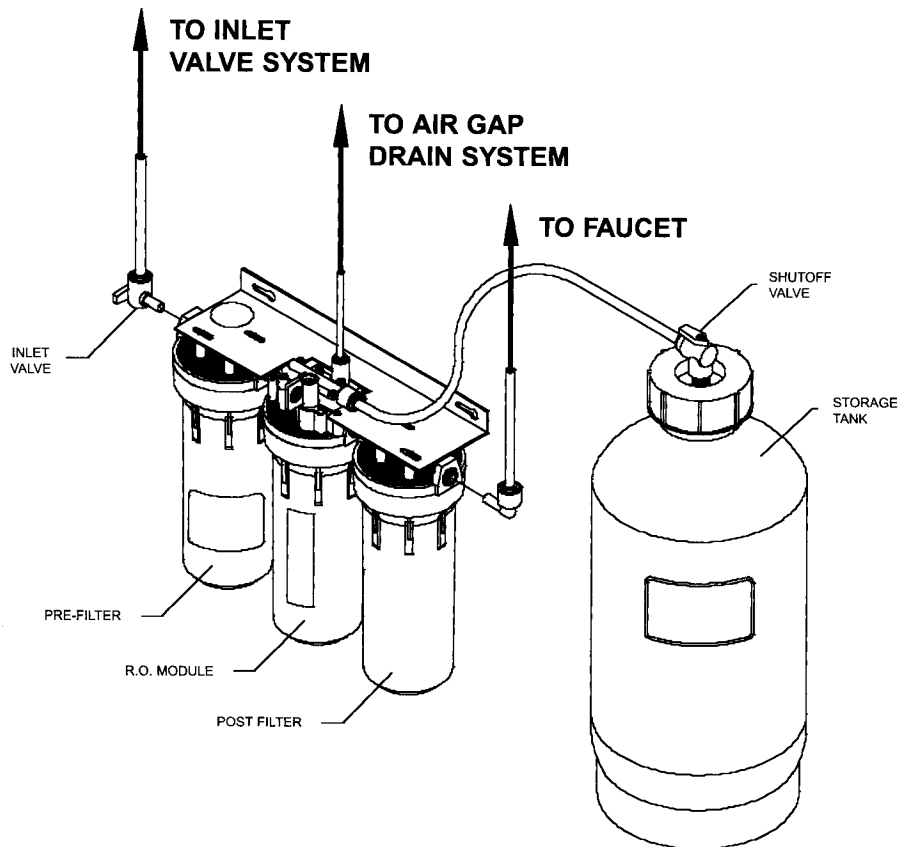
The treated water is stored in a tank that has a bladder in it, pressurized with air to about 5 PSI. This pressure forces the R.O. water through an activated carbon post filter and up to a new R.O. faucet installed on the kitchen sink and wherever else R.O. water is desired.



RAINSOFT UF SERIES R.O. SYSTEM COMPONENTS

- 1. PRE-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 every 6 months after installation depending upon the quality of the water and the amount used. Part numbers for replacement filters are located at the end of this manual.
- 2. R.O. MEMBRANE CARTRIDGE:** A spiral wound, semi-permeable membrane cartridge. The R.O. cartridge requires periodic replacement every 18 months after installation, depending upon the quality of the water supply and the amount used. Part numbers for a replacement R.O. cartridge are located at the end of this manual.
- 3. POST FILTER:** The post filter will remove unwanted tastes, odors and other impurities. The post filter requires periodic replacement every 6 months after installation, depending upon the quality of the water supply and the amount used. Part numbers for replacement filters are located at the end of this manual.

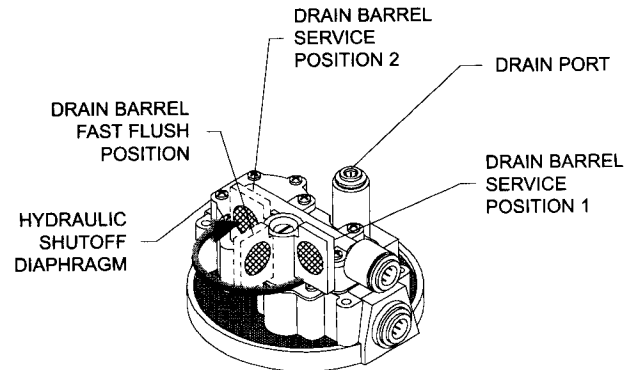
UF SERIES R.O. SYSTEM



ROUTINE SYSTEM MAINTENANCE

1-2 TIMES 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 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 90 ° to the fast flush position (shown at the 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 on the drain restrictor.



TO CHANGE THE CARTRIDGE FILTERS OR R.O. CARTRIDGE

(USE ONLY RAINSOFT REPLACEMENT PARTS)

1. Shut of the water at the inlet valve #1 (see diagram #1) and open the faucet to drain the storage tank completely.
2. Remove unit from hanger and place over a drip pan for water spillage. Extra tubing has been provided to facilitate this process.
3. Notice: When changing filters of the R.O. membrane be sure that the o-ring and rubber brine seal are secure and in place. Always lubricate all the o-rings with a non-petroleum base lubricant to ensure longevity of the o-ring. Never over tighten the housing to the cap, **HAND TIGHTEN ONLY**.
4. **To replace pre-filter only:** Unscrew housing from its cap. Replace the filter cartridge and reassemble.
To change R.O. membrane only: Leave the sediment filters in place, unscrew the R.O. housing from the Unibody, replace the membrane and reassemble.
To replace both filters and membrane: Unscrew all housings from their caps. Follow the above steps in consecutive order.
To replace the post filter: Unscrew housing from its cap. Replace the filter cartridge and reassemble.



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

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

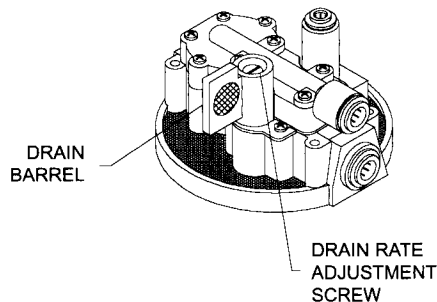
1. Open the R.O. water faucet and let it run until it is merely dripping.
2. Place a glass under your faucet and catch the water droplets. Rinse the glass in R.O. water. Discard the rinse water.
3. Take another sample of the R.O. water as instructed above (do not discard the water, save the sample) and take it to your dealer's office during normal working hours. Call the dealer and schedule an appointment.

NOTE: This reverse osmosis system contains replaceable treatment components critical for effective removal of contaminants. The water should be tested frequently to verify the system is working satisfactorily. (NSF specifies at least once every six months.)

TROUBLE SHOOTING GUIDE

SYMPTOM	PROBABLE CAUSE	SOLUTION
No water	Water supply turned off Faulty valve Water supply blocked Fouled R.O. cartridge Product line crimped Bladder leaking Air valve leaks	Turn on Replace or Repair Clear blockage Replace Remove crimp Replace Replace and recharge to 5 PSI
Film on water or cloudy water	Excess air in water	Common at time of install or (minimum) after filter change. This will dissipate as the filter becomes saturated. This could take several tanks of water.

Warning: Do not attempt to reset or remove 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 dealer.)
3. **NOTIFY CUSTOMER SERVICE-DAMAGE CLAIM DEPARTMENT,** Elk Grove Village, immediately by calling 1-800-860-7638 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 AVENUE
ELK GROVE VILLAGE, ILLINOIS 60007

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

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