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RainSoft®

Water Treatment Systems
Since 1953

UF SERIES REVERSE OSMOSIS DRINKING WATER SYSTEMS

Owners Manual



This product was manufactured in an ISO 9001:2000 certified facility.



Models UF22T-CB*, UF22N-CB, UF50T-CBVOC and UF50N-CBVOC* are tested and certified by the WQA to NSF/ANSI Standard 58. See the performance data sheet for specific reduction claims.

Do not use this product with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Part No.: 15417
Revised: 09/04

YOUR NEW REVERSE OSMOSIS DRINKING WATER SYSTEM

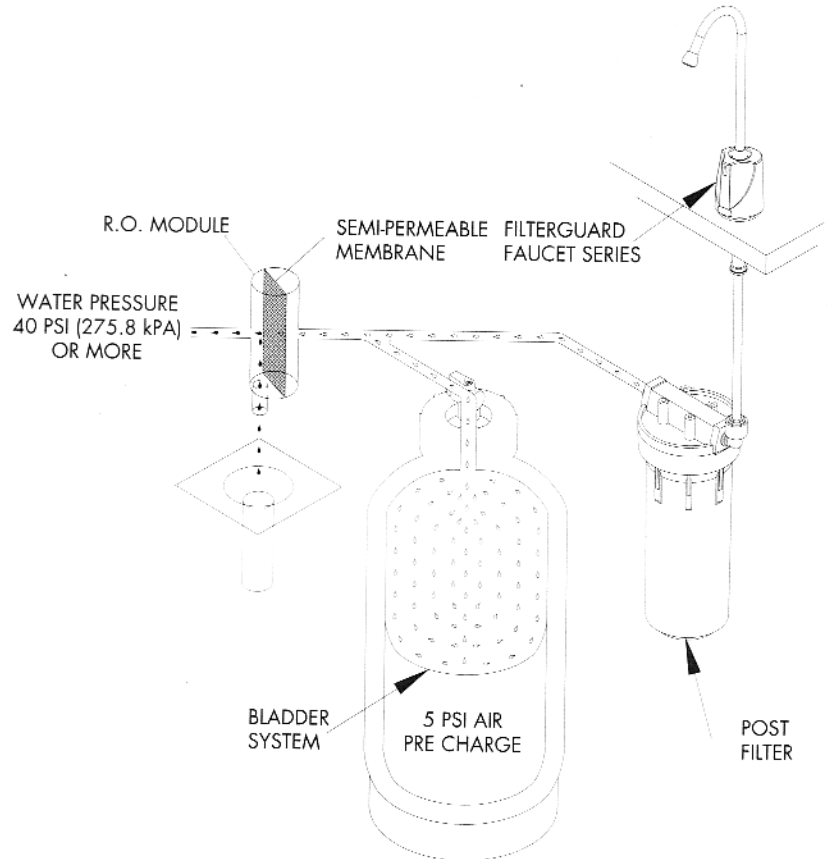
You now own the finest Reverse Osmosis Drinking Water System available to homeowners. To enjoy the maximum benefits of this system, please read the contents of this Owners Manual.

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

WHAT IS REVERSE OSMOSIS?

Osmosis is a natural process that occurs in most living things. In plants, osmosis permits the absorption of water and nutrients through the root system and in people, osmosis permits the absorption of nutrients through the blood stream. To achieve Reverse Osmosis, your RainSoft system will utilize pressure to reverse the normal osmosis process.

In the Reverse Osmosis process, your water supply will flow over the surface of a semi-permeable membrane to a less concentrated solution. The treated water is then stored in the tank bladder. The tank is pressurized with air (5 psi), which forces the Reverse Osmosis water through an activated carbon post-filter and up to the new Reverse Osmosis faucets located throughout your home.



IMPORTANT USER INFORMATION

It is common to experience cloudy water, cloudy or hazy ice cubes and/or air bubbles when the system is new or after the filters/cartridges have been changed. **Note: Air pockets trapped in the filters may last for a few days.**

Cloudy or hazy ice cubes can also be caused by air that is slowly being released from the water during the freezing process, which has nothing to do with the performance of your Reverse Osmosis System.

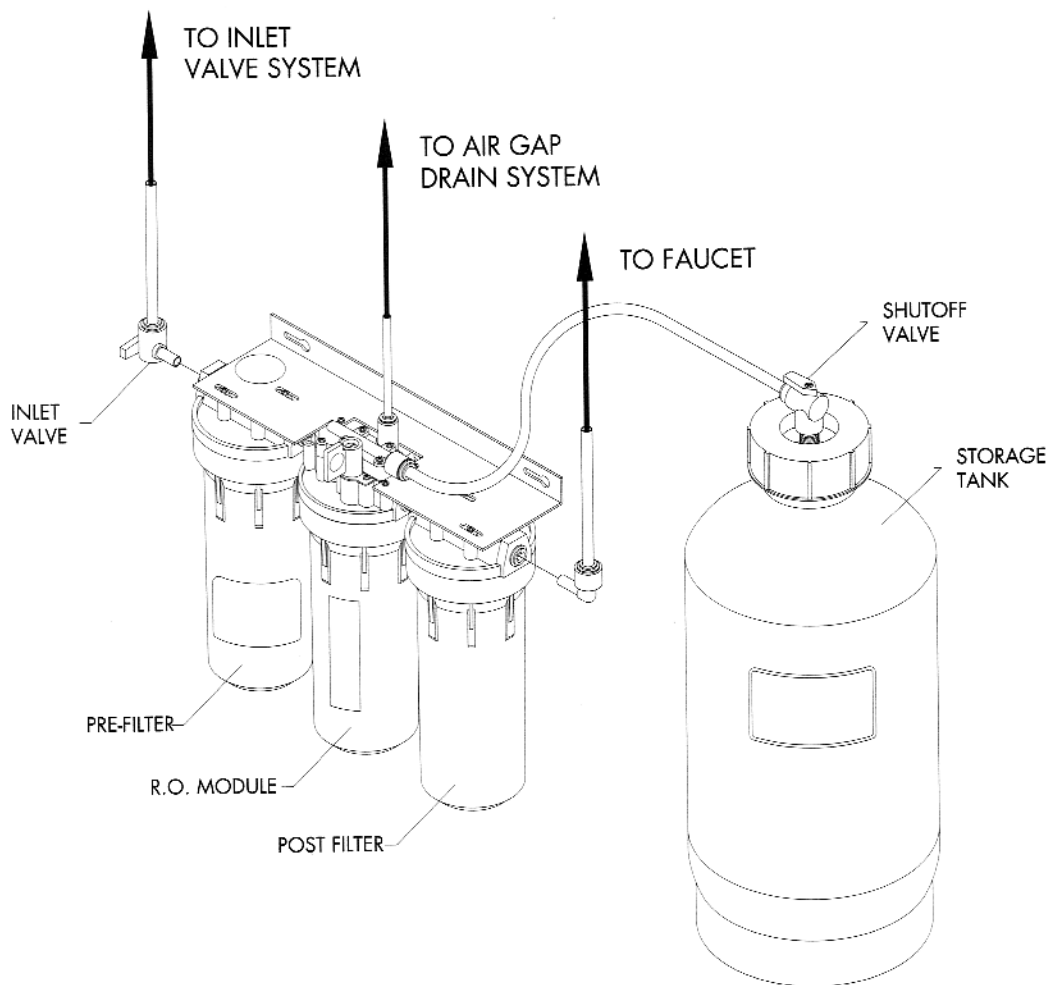
UF SERIES REVERSE OSMOSIS COMPONENTS

1. **PRE-FILTER:** The pre-filter removes particles and sediment as small as 5 microns in size from the water supply stream. The pre-filter requires periodic replacement every 6 months after installation, depending on the quality of your water and the amount of water used in your home. Part numbers for replacement pre-filters are located on page 7.

2. **R.O. MEMBRANE CARTRIDGE:** The R.O. membrane cartridge is a spiral wound, semi-permeable membrane cartridge. The R.O. membrane cartridge requires periodic replacement approximately every 18 months after installation, depending on the quality of your water and the amount of water used in your home. Part numbers for replacement R.O. membrane cartridges are located on page 7.

3. **POST-FILTER:** The post-filter will remove unwanted tastes and odors from the water. The post-filter requires periodic replacement every 6 months after installation, depending upon the quality of your water and the amount of water used in your home. Part numbers for replacement post-filters are located on page 7.

UF SERIES REVERSE OSMOSIS SYSTEM



IMPORTANT INFORMATION ON FILTER/CARTRIDGE REPLACEMENT

It is important to maintain the quality of your system by using only genuine RainSoft replacement filters and cartridges. Other "made-to-fit" alternative filters and cartridges claim to perform the same duties as the original RainSoft parts, but these alternative items are not approved for use in your system! "Made-to-fit" alternative filters and cartridges will increase the probability of leaks, putting your entire system at risk!

WARNING! When "made-to-fit" alternative filters and cartridges are placed into your RainSoft Reverse Osmosis System, the product warranty will become null and void and the system will lose the NSF/WQA certification. To guarantee proper operation and certification of your RainSoft Reverse Osmosis System, please use genuine RainSoft parts.

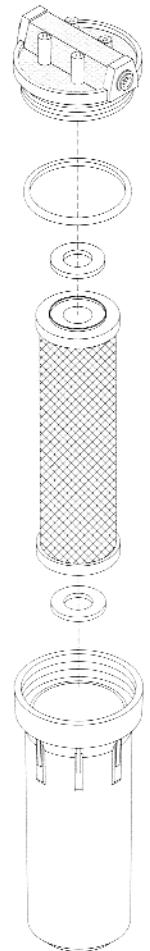
HOW TO CHANGE THE FILTERS AND R.O. MEMBRANE CARTRIDGE

WARNING! The use of non-RainSoft replacement parts will VOID your warranty!

1. Shut off the water at the inlet valve (see "UF Series Reverse Osmosis System") and open the faucet to completely drain the storage tank.
2. Remove the R.O. unit from the hanger and place it over a drip pan (to prevent water spillage). Extra tubing has been provided to facilitate this process.

Note: When changing the R.O. membrane cartridge, verify that the rubber brine seal and O-rings are secure and in place. Always lubricate the O-rings with a non-petroleum based lubricant to ensure the longevity of the O-rings. Never over-tighten the housing to the cap - **HAND TIGHT ONLY!**

3. TO REPLACE THE PRE-FILTER ONLY: Unscrew the housing from its cap. Replace the pre-filter and reassemble.
TO CHANGE THE R.O. MEMBRANE CARTRIDGE ONLY: Leave the sediment filters in place and unscrew the R.O. housing from the Unibody. Replace the R.O. membrane cartridge and reassemble.
TO REPLACE BOTH FILTERS AND MEMBRANE CARTRIDGE: Unscrew all the housings from their caps. Follow the above steps in consecutive order.
TO REPLACE THE POST-FILTER: Unscrew the housing from its cap. Replace the post-filter and reassemble.



WHEN GOING ON VACATION

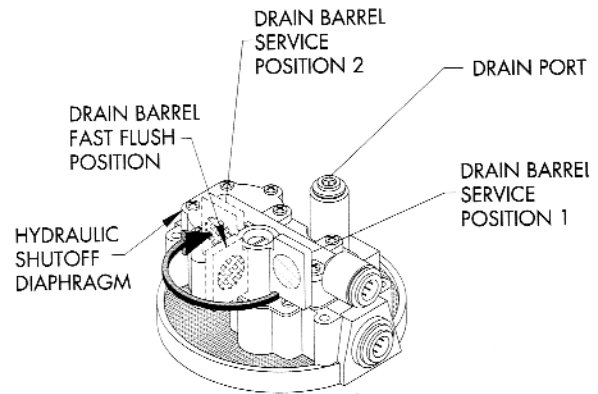
When you go on vacation, close the cold water inlet valve.

When you return from vacation, open the cold water inlet valve, drain the storage tank and fast flush the system (see page 6 "Routine System Maintenance").

ROUTINE SYSTEM MAINTENANCE

1-2 TIMES A WEEK: The storage tank should be drained and the R.O. system should be fast flushed 1 to 2 times per week. This process will help to maintain a fresh water supply in the storage tank and will promote better operation of the R.O. membrane cartridge.

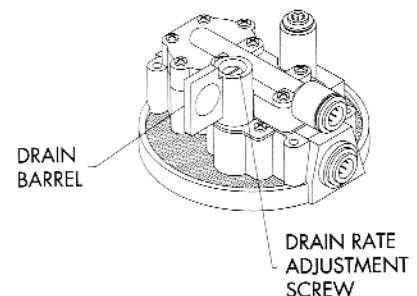
To drain the storage tank, open the R.O. faucet. Let the water run from the faucet until the flow turns into small drips. Close the R.O. faucet and rotate the drain barrel 90° to the fast flush position. The sound of rushing water should now be heard. Allow the system to fast flush for 5 to 7 minutes and then rotate the drain barrel to position #2. **Note: The next time you drain the storage tank, reverse the rotation of the drain barrel.**



TROUBLESHOOTING YOUR UNIT

SYMPTOM	CAUSE	SOLUTION
1. No water	1.The water supply is turned off. 2.Faulty valve. 3.The water supply is blocked. 4.Fouled R.O. cartridge. 5.The product line is crimped. 6.The bladder is leaking. 7.The air valve leaks.	1.Turn on the water. 2.Replace or repair the valve. 3.Clear the blockage. 4.Replace the cartridge. 5.Remove the crimp. 6.Replace the bladder. 7.Replace and recharge to 5 psi.
2. Film on water or cloudy water	1.Excess air in the water.	1.Common at time of installation or after a filter change. The air will dissipate as the filter becomes saturated. Several tanks of water may be used before this process is complete .

Note: Do not attempt to reset or remove the drain barrel screw. The drain barrel screw is preset by your RainSoft Dealer and should only be adjusted by a qualified RainSoft Technician. Tampering with this part may result in poor system performance, leaks in the equipment and/or personal injury.



RAINSOFT REPLACEMENT PARTS

WARNING! The use of non-RainSoft replacement parts will VOID your warranty!

The following RainSoft replacement parts are available through your local RainSoft Dealer:

Model Number	Pre-filter	Membrane Cartridge	Post-filter
UF10C-GAC	12461	12446	12464
UF22T-CB	18557	12448	18557
UF50T-CBVOC	18557	18644	18773

If you are unable to order replacement parts from your local RainSoft Dealer, please contact RainSoft at 1-800-811-3503 to place your parts order.

SPECIFICATIONS

Daily Production Rates:

UF10C-GAC	5.0 GPD, 18.9 L/Day
UF22T-CB, UF22N-CB	11.0 GPD, 41.6 L/Day
UF50T-CBVOC, UF50N-CBVOC	24.8 GPD, 93.8 L/Day

Working Pressure: 40 psi - 100 psi (275 kPa - 689 kPa)

Operating Temperatures:

Model UF10C-GAC: 50° F - 85° F (10° C - 29° C)

Models UF22T-CB, UF22N-CB, UF50T-CBVOC, UF50N-CBVOC: 50° F - 100° F (10° C - 38° C)

Certifications:

Models UF22T-CB*, UF22N-CB, UF50T-CBVOC and UF50N-CBVOC* are tested and certified by the WQA to NSF/ANSI Standard 58. See the performance data sheet for specific reduction claims.

Only the following models are certified by the State of California: UF22T-CB* Certificate #00-1438 and UF50N-CBVOC* Certificate #02-1522.

Do not use this product with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction by the WQA can be used on disinfected waters that may contain filterable cysts.**

This system must be installed in accordance with all applicable state and local laws and regulations.

*For health claims certified by the California Department of Health Services, conditions of use and replacement parts, please refer to the product data sheet.

**Only the UF22T-CB is certified for cyst reduction in the State of California.