



INSTALLATION INSTRUCTIONS

Models FC000, FC005, FC100, FC200, FC205, FC300, FC050, FC150, FC250, FC350, FC355

(Read Carefully Before Proceeding & Save For Future Reference)

INTRODUCTION

Filter units containing sediment cartridges for dirt, rust and algae may be installed on main cold line serving whole house (FC100, FC300, FC150, FC350, FC355). If fitted with the CF2 activated carbon cartridge for reduction of chlorine taste, odour, colour, and sediment, install inline or undersink to serve 1 or 2 drinking outlets (FC200, FC205, FC250).

SOLDERLESS INSTALLATION

For solderless installation, the following kits with instructions are available at your dealer. (see Fig. 2, 3 & 4)

INSTALLATION CAUTIONS

- * **Warning:** Do not use on water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the unit. For effective disinfection install a Rainfresh Drinking Water System 1, 2 or 3 or a Rainfresh UV disinfection system.
- * For use on cold water only.
- * If water pressure will at any time exceed the 100 psi maximum, a pressure regulator and water hammer arrestor must be installed before the filter to prevent **potentially damaging shocks caused by high pressure**. Recommended regulator setting is 75 psi / 5.1 bar/ 517 kPa or less.
- * **Always allow** at least 3 inches above and below the filter for clearance.
- * **Do not** install in direct sunlight.
- * **Only use teflon tape** for fitting connections into unit. **DO NOT USE WICKING OR SEALER.**
- * If water pipes are used to ground electrical system, **install jumper wire** (#4 gauge solid copper wire) across the filter unit.
- * **Protect your unit from freezing** - drain the unit if freezing temperatures exist.

NOTE: IF BRASS OR SOLDER TYPE FITTINGS ARE USED

- * **DO NOT use torch near plastic housing.** All solder joints should be made before joining pipe to filter head.
- * **DO NOT overtighten** metal fittings into plastic filter head or it may crack. Hand tighten fittings plus one turn with wrench to give water tight seal.

System shall comply with province/state and local regulations.

INSTALLATION PROCEDURE

NOTE: On pump systems, whole house filters (FC100, FC300, FC150, FC350, FC355) should be installed after the pump and pressure tank.

1. **Turn off water supply** and depressurize lines before installing filter.
2. Install filter using Rainfresh Connector Kits or standard pipe fittings in desired location making sure water enters inlet side of filter as marked on filter head.
3. Remove sump from head by lifting and rotating it left an eighth turn to stop and lower carefully. Remove the cartridge, unwrap and replace in sump. Replace sump and turn right until locked with index marks in line. With standard unit depress and hold vent button when removing or replacing sump.
4. Standard Unit - Open valves before and after the filter. Deluxe Unit - Turn the control handle to the "ON" position.
5. Turn on water supply and flush unit for 10 minutes and allow to sit overnight to condition. In the morning flush briefly before beginning service. New carbon cartridges give off some carbon dust during the first few minutes of flushing. Note: When filter pressurizes, the sump will move downward slightly. This is normal. **Your filter is now in operation.**

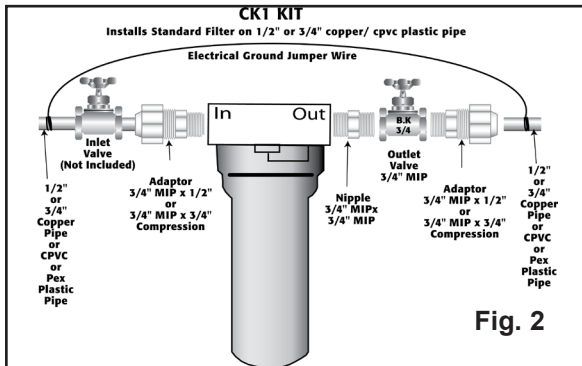


Fig. 2

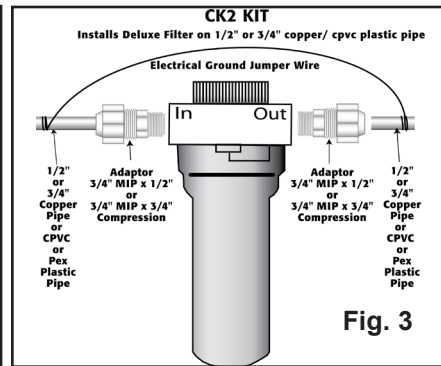


Fig. 3

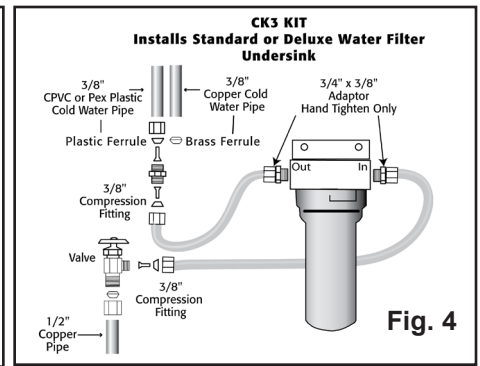


Fig. 4

WHEN AND HOW TO REPLACE YOUR CARTRIDGE

Cartridge Life: Cartridge life depends on amount of water used and degree of contamination. Sediment cartridges: 4-6 months or sooner if sediment is high and the flow rate drops to an unacceptable level as the cartridge gets plugged.

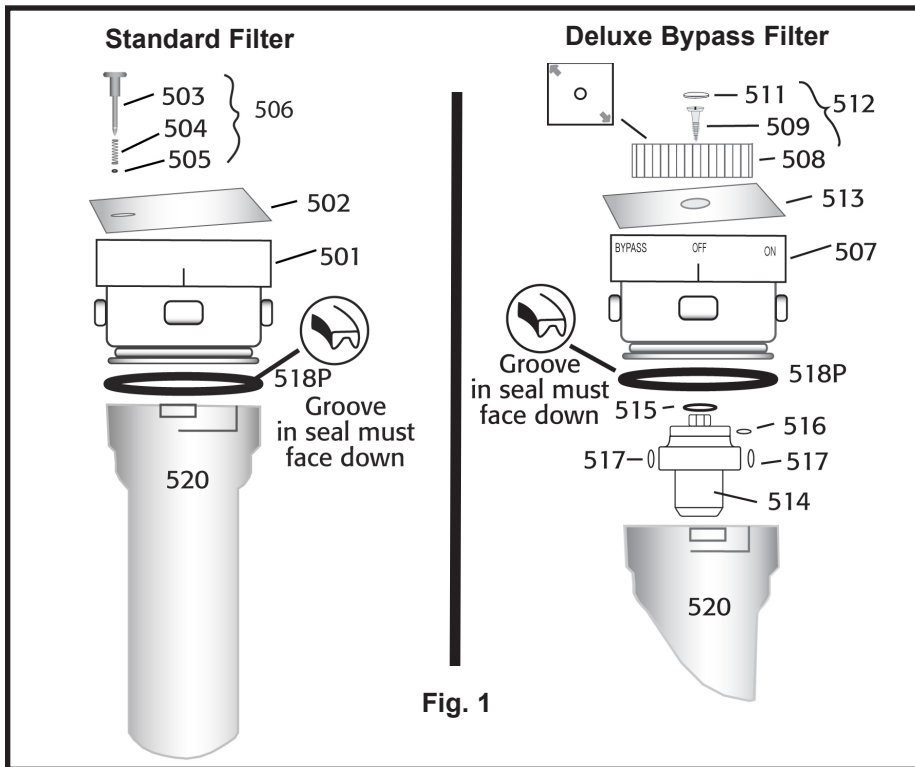
CF2 activated carbon cartridge: up to 6 months or 3785L / 1000 US gal or sooner if taste and odour return to an unacceptable level.

1. Shut off valves securely before and after filter, and depress vent button until pressure is relieved. With Deluxe unit, turn handle to the "OFF" position.
2. Remove sump, replace cartridge coloured cap into head and re-install sump to lock position. With standard unit depress and hold vent button when removing or replacing sump.
3. Open valves before and after filter or turn the Deluxe unit handle completely to "ON" position.
4. Open faucet and allow water to run until clear.

DELUXE FILTER BYPASS MODE - Turn handle completely to "BYPASS" position. Unfiltered water will bypass the unit. Use for watering lawns, gardens, filling pools or washing cars to extend cartridge life, or in the event of sump damage.

MAINTENANCE / TROUBLESHOOTING

1. Lubricate head seal (518P) at least once a year and when draining for winter. Use food grade silicone lubricant or **non petroleum lubricant**. Water conditions can be hard on rubber seals. Head seal replacement at least every two years is recommended to minimize wear and tear and prevent leakage.
2. **Caution:** Due to a limited product service life and to prevent costly repairs or possible water damage, we strongly recommend that the sump (520) be replaced every 5 years. Date the bottom of any new sump to indicate next replacement date.
3. **Do Not** clean housing with solvents such as those found in household cleaner sprays. These may cause cracking or crazing and lead to failure and leakage.
4. If sump is difficult to remove, the unit is still under pressure. Depress vent button on Standard unit again or turn handle to "OFF" position with Deluxe unit. This will ensure release of pressure buildup.
5. If leakage occurs around the head seal:
 - a) Seal may have become twisted during cartridge change. Reinstall the seal with groove facing down and then recheck for leaks.
 - b) Sediment has caused a seal interference. Remove seal and clean off head seal and sealing area of head and sump with a soft cloth to remove any sediment. Then apply new silicone lubricant to the head seal and sump sealing area. Replace head seal with groove facing down, replace sump and check for leaks.**NOTE:** If leak persists after trying a) or b), replace seal.
 - c) The seal is cracked and should be replaced.
6. If leakage occurs around top of unit, Vent Valve assembly is not closing. Replace the assembly.



Parts List

Standard Head	501
Standard Top Plate	502
Vent Pin	503
Vent Spring	504
Vent O-ring	505
Vent Pin Assembly	506
Deluxe Bypass Head	507
Handle	508
Handle Screw	509
Handle Disc	511
Handle & Screw Assembly	512
Deluxe Top Plate	513
Valve Body	514
Valve O-ring	515
Bypass Vent O-ring	516
Inlet/Outlet O-ring	517
Head Seal	518P
Sump	520

SPECIFICATIONS

Maximum Operating Pressure: 100 psi / 6 bar / 690 kPa
Maximum Operating Temperature: 100°F / 38°C
Inlet/Outlet threads: 3/4" FIP
Unit height
- Standard: 12-5/8"
- Deluxe: 13-5/8"
Rated Service Flow: CF2 cartridge 2.8Lpm / .75 US gpm
Sediment cartridges - N/A



Drinking Water

Models FC200, FC205, FC250 systems tested and certified by CSA International to CSA B483.1 and to NSF/ANSI 42 for reduction of chlorine, taste and odour.

Models FC000, FC005, FC050 - Point of entry component tested and certified by CSA International to CSA B483.1 and to NSF/ANSI 61 for material and structural integrity requirements only.

Models FC100, FC150, FC300, FC350 & FC355 - Point of entry system tested and certified by CSA International to CSA B483.1 and to NSF/ANSI 61 for material and structural integrity requirements only.

Limited 5 Year Warranty

This Envirogard/Rainfresh housing is warranted, to the original consumer purchaser/owner for a period of five (5) years, from the original date of purchase, against defects in material or workmanship. Head seals and O-rings are warranted for a period of one (1) year from the original date of purchase. Envirogard's obligation under this warranty shall consist of repair, replacement or credit (at our option) of any part found by company inspection to be defective, provided that the product has not been misused, abused, altered or damaged in any way as determined by the company, and provided that only approved Envirogard/Rainfresh replacement cartridges and seals have been used in the housing. This warranty does NOT apply to the cartridge which by nature will diminish in performance through normal use and requires regular replacement. This warranty does NOT cover, and is intended to exclude, any liability on the part of Envirogard for any incidental damages, consequential damages, labour charges or any other costs incurred in connection with the purchase, installation, use, maintenance or repair of the product, whether under this warranty or any other warranty implied by law. Some provinces/states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from province to province/state to state. This warranty applies only to equipment purchased and installed in domestic residential applications in Canada or the U.S.A. This warranty does NOT apply to commercial/industrial installations.

Thank you for purchasing one of our Rainfresh products. We are committed to ensuring that you are totally satisfied.

If you have a problem, don't go back to the store - please contact us !

HELPLINE: 1-800-667-8072 TORONTO & AREA: 1-905-884-9388 Web Site: www.rainfresh.ca



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