

INSTALLATION INSTRUCTIONS

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

Rainfresh®



SCAN FOR INSTALLATION VIDEO

Thank you for purchasing a Rainfresh Water Filter.
We are committed to ensuring that you are totally satisfied.
If you have any problems, don't go back to the store – **please contact us !**

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).

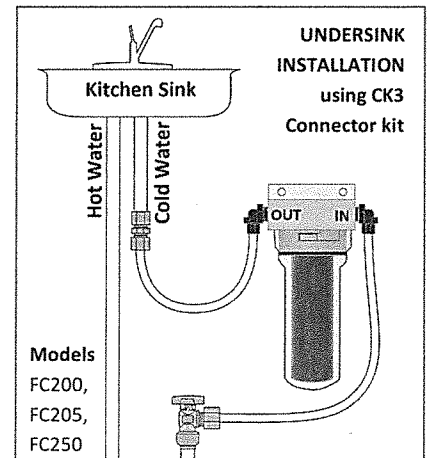
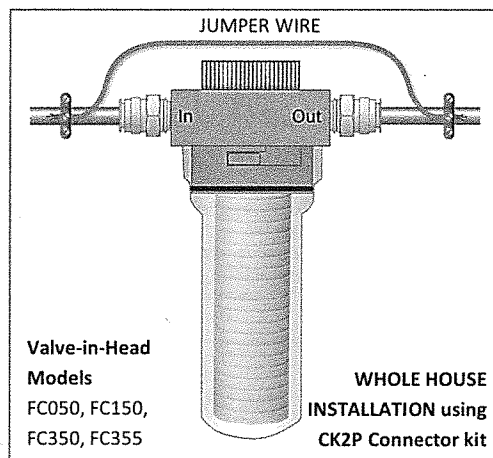
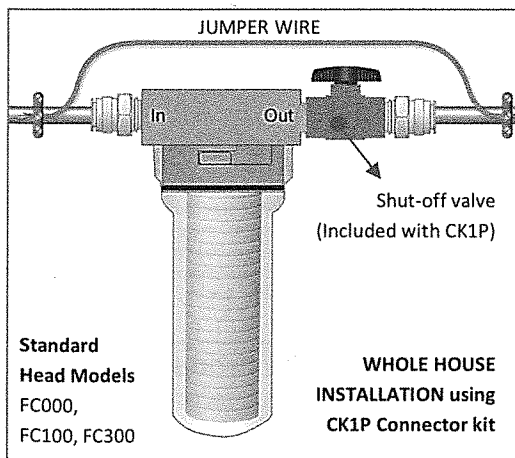
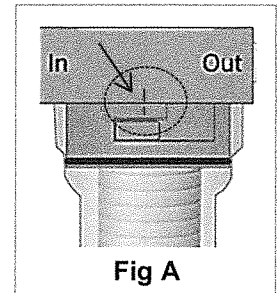
INSTALLATION CAUTIONS

- **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 Rainfresh Drinking Water System 1, 2 or 3 or a Rainfresh UV system for whole house.
- For whole house installation - **Always install after your pump and pressure tank (well or lake water) or after your meter and your main shut off valve (city water). NEVER INSTALL FILTER HOUSING BETWEEN YOUR WELL PUMP & PRESSURE TANK as that can cause damage to the unit and/or your well pump.**
- **Warning:** Do not over tighten metal fittings into plastic filter head or it may crack.
- **Warning:** Do not use torch/heat near plastic housing. If necessary, wrap a wet cloth around the pipe and head to absorb heat. All solder joints should be made before joining pipe to the filter head.
- Do not install in direct sunlight.
- **Warning:** Do not use thread sealing compounds such as **PIPE DOPE, WICKING OR SEALER**. Use only thread seal tape.
- **Warning:** Do not use petroleum based lubricants on the seals or unit as that can damage the unit and cause leaks. Use only food grade silicone lubricant available at most retail stores.
- Allow at least three (3) inches above and below filter for clearance.
- For use on cold water only. **Prevent unit from freezing** - drain the unit if freezing temperatures exist.
- **ELECTRICAL GROUNDING:** If water pipes are used for grounding, install jumper wire (not included) across the filter unit.
- 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.
- Do not install in multi-storeyed buildings over 4 storeys high.
- Installation shall comply with province/state and local regulations.

INSTALLATION

For solderless installation on copper, CPVC or PEX pipe using Rainfresh connector kits (not included), see Fig 1, 2 & 3 below. Kits can be ordered online at www.rainfreshstore.ca.

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 with coloured gasket facing up**. Replace sump and **turn right until locked with index marks in line (Fig A)**. With standard unit depress and hold vent button when removing or replacing sump.
4. Standard Unit - Open valves before and after the filter. Valve-in-head Unit - Turn the control handle to the "ON" position.
5. Turn on water supply and flush unit for 10 minutes and allow sitting 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.**



FILTER CARTRIDGE REPLACEMENT

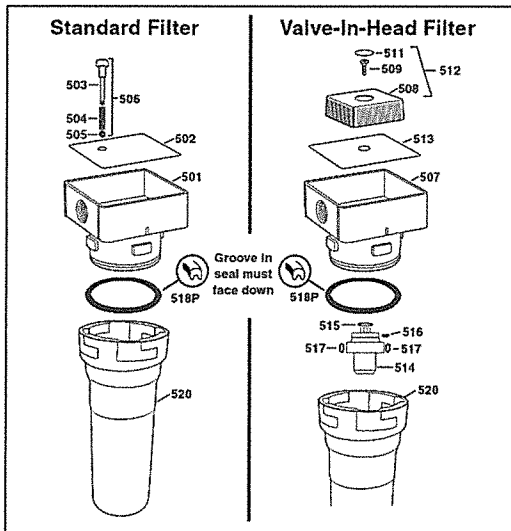
See filter sump label for cartridge life. Cartridge life depends on amount of water used and degree of contamination.

1. Shut off valves securely before and after filter, and depress vent button until pressure is relieved. For valve-in-head models, turn handle to "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 handle on valve-in-head models completely to "ON" position.
4. Open faucet and allow water to run until clear.

VALVE-IN-HEAD 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 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. For standard filter unit, ensure that the supply valve is turned off and then depress vent button until pressure is fully released. For Deluxe filter unit, simply turn handle to "OFF" position
 5. If leakage occurs around the head seal:
 - a. Seal may have 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 food-grade 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), or if seal is cracked, replace seal.
6. If leakage occurs around top of unit, Vent Valve assembly is not closing. Replace the assembly.



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

SPECIFICATIONS	
Operating Pressure:	15 psi min to 100 psi max (103-690 kPa)
Max Operating Temp:	100°F / 38°C
Inlet/Outlet :	¾" FNPT
Std Unit Height :	12 – 5/8"
VIH Unit Height :	13 – 5/8"
Service Flow (whole house):	7.2 GPM (27.2 LPM) @ 60 psi
Service Flow (Carbon cartridge):	0.75 GPM – 1.0 (2.8 – 3.8 LPM)

Order parts online at:
www.rainfreshstore.ca



Models FC200, FC205, FC250 systems tested & certified by CSA Group to CSA B483.1, to NSF/ANSI 42 for reduction of chlorine, taste and odour and to NSF/ANSI 372.

Models FC000, FC005, FC050 - Point of entry component tested and certified by CSA Group to CSA B483.1, to NSF/ANSI 61 for material and structural integrity requirements only, and to NSF/ANSI 372.

Models FC100, FC150, FC300, FC350 & FC355 – Point of entry system tested and certified by CSA Group to CSA B483.1, to NSF/ANSI 61 for material and structural integrity requirements only, and to NSF/ANSI 372.

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.



Aug 2022

Envirogard Products Limited

446 MAJOR MACKENZIE DRIVE EAST, RICHMOND HILL, ON L4C 1J2, CANADA
 TEL: (905) 884 9388 HELPLINE: 1800 667 8072 WEB: WWW.RAINFRESH.CA