

iSpring Whole House Water Filter System

WHOLE HOUSE USER MANUAL

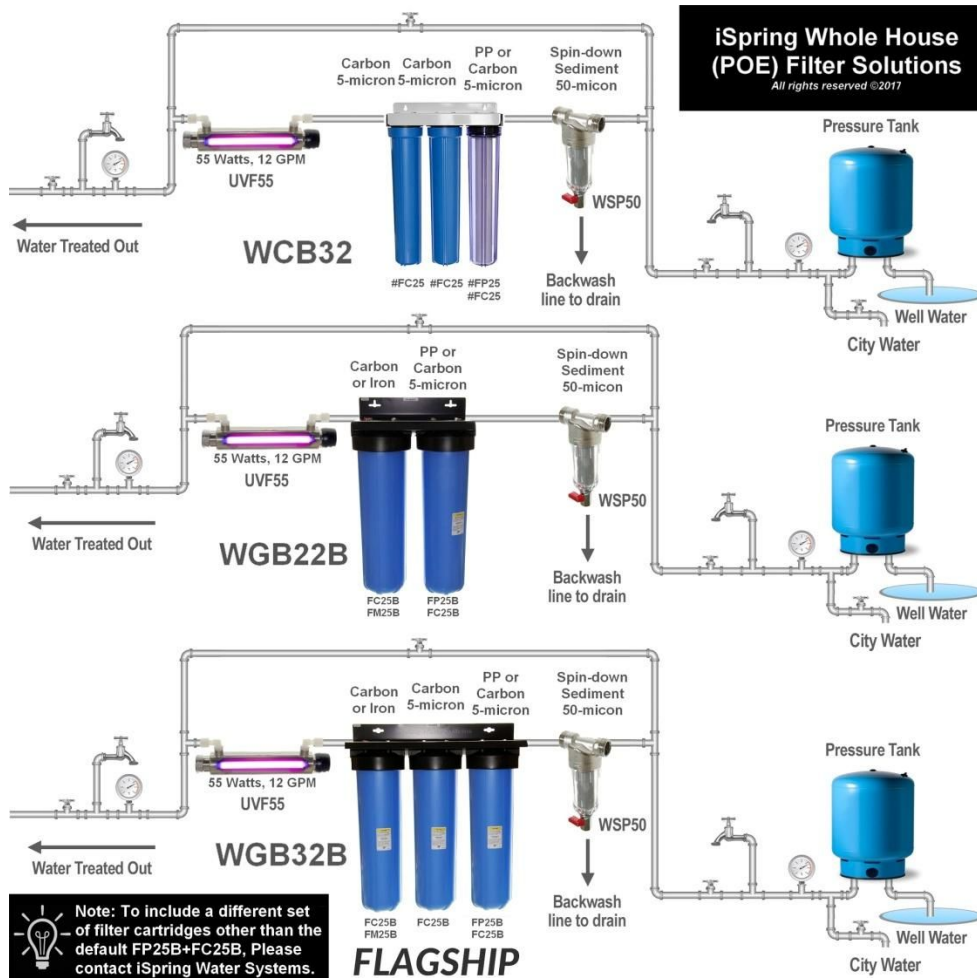
Version 2/2017

Introduction

Congratulations on the purchase of your iSpring Whole House Water Filter system. When used to address its targeted contaminants, it will deliver clean, clear water to every faucet and bath in your home without drastically affecting water pressure. The filter cartridges work together and must be replaced every **3-6 months** depending on source water quality and usage to maintain efficiency and output water quality. Any significant change in performance of the system should be investigated promptly to avoid deterioration to output water quality.

CAUTION: Improperly installed systems can result in water damage due to leaks or flooding. Proper installation of the system requires familiarity with standard plumbing and proper use of common hand and power tools. If you are not familiar with standard plumbing and proper use of common hand and power tools, consult a licensed professional such as a contractor or plumber.

NOTE: This system may need be installed by a licensed professional, such as a contractor or plumber.



System Operating Conditions

Feed water pressure: 25 – 80 psi

Feed water temperature: 40 – 100 degree F (4 – 37 degree C)

Install the system in a sheltered environment; avoid exposure to excessively hot or cold weather and direct sunlight.

Move the system with caution and avoid dragging or dropping.

Tools Required

Safety glasses	Hacksaw
Towels	Teflon tape
Crescent wrench	

Parts Required (not included)

- (2x) Shut off valves
- (2x) Hex nipples or pipe nipples
- (2x) Pipe hangers
- Optional: Pressure gauge(s), bypass valve(s), ground jumper cable

Pre-Installation Notes

- This installation guide provides a step by step procedure for installing your iSpring whole house water system. All steps provided herein are for typical installations only. Your specific application may vary.
- The system should be kept in a sheltered location and protected from freezing or extreme temperatures and direct sunlight.
- Compile the fittings and tools you will need to install the system according to your application.
- The system's bracket can be flipped to fit either direction as long as the filters are installed in their proper order. The sediment filter is always the first stage, followed by the carbon block filter, then followed by either another carbon block filter or a heavy metal filter depending on the system.
- A three valve bypass and loop may be installed to loop the entire system to make servicing easier.
- Hard copper pipe generally comes in two types. Use the thicker "L" type copper pipe rather than thinner "M" type copper pipe to create this bypass.
- Follow all local plumbing and building codes.

Installation

Your filter should be located in a dry, level area and protected from freezing temperatures and direct sunlight.

1. Turn off the water supply to your house before beginning the installation.
2. Turn off the electricity to your water heater before beginning the installation.
3. Open all plumbing fixtures in the house to release the lines of pressure.
4. The filter should be placed on the main water supply line at any point past the main shutoff valve for the whole house, but before pipes branch off in multiple directions. However, you may choose to locate the filter on an individual line that branches off depending on your filtration intent.
5. Measure, cut, and remove the section of water line where the system is to be installed. When determining the length of pipe to cut, account for filter width, shut off valves, union fittings, nipple fittings, pressure gauges (if used) and bypass valve (if used).
6. Allow the cut line to drain. Smooth the newly cut ends down to avoid jagged points or edges.
7. Place a shutoff valve and/or a pressure gauge on either side of the filter for ease of monitoring and ease of service.
8. Securely mount the whole house filter using supplied mounting bracket. Ensure the system is level.
9. You may need to adjust pipe length or distance. Fit a pipe union onto the cut sections of the main water line.
10. Fit together the pipe unions and shut off valve(s). **Use Teflon tape or plumbing sealant on the threaded male fittings.**
11. Simultaneously fit together the shut off valve and whole house filter using a pipe nipple or hex nipple to draw them together on the INLET side of the filter.
12. Fit a pipe hanger on the INLET side for additional support.
13. Simultaneously fit together the filter and the shut off valve on the OUTLET side of the filter. Fit a pipe union to the shut off valve on the OUTLET side.
14. Check the pipe length and pipe union length to see if additional pipe length or union length is required.
15. Join the pipe union and pipe.
16. Fit a pipe hanger on the OUTLET side for additional support.
17. Connect ground jumper cable (if necessary).

Turning the water back on

Turn your water back on slowly. After a few minutes, the sound of water entering the system will stop. After the unit is installed, it is necessary to flush the unit thoroughly. Do this at the nearest **COLD** water faucet. **DO NOT USE A HOT WATER FAUCET TO PERFORM THE INITIAL SYSTEM FLUSH.** The water will be blackish in color for the initial flush. This is residual carbon dust and is to be expected. Continue to run water until it runs clear and all air has been purged. Shut the water off and let the unit sit for a while, and then flush again. It is not unusual for the water to appear "cloudy" for a couple days following the installation. This cloudiness is caused by tiny air bubbles being purged from the filters. This is normal and will clear up.

Notes

- Even though there is filtered water in the cold water lines, the hot water heater is still full of raw water. Through normal use, this water will be replaced with filtered water in about 2 or 3 days.
- This filter system should not be used with water that is microbiologically unsafe or of unknown quality without adequate disinfection before and/or after the system.
- The system should never be exposed to freezing temperatures. Damage from temperature is not covered under warranty.
- After prolonged periods of nonuse (such as a vacation), it is recommended that the system be flushed for at least 10 minutes before using the water.

Filter Change Instructions

1. Turn off the water supply to the system. Press the red pressure release button on the top of the filter housing to relieve system pressure. If your system was not equipped with a pressure relief valve, leave open a nearby faucet. This will make removing the filter housing easier.
2. Unscrew the housing using the filter wrench included with your system, or a commercially available “strap” type wrench.
3. Locate and remove the large O-ring using a small, clean flat head screw driver. Try not to remove any of the lubricant. Set it aside in a clean, safe place.
4. Remove and discard the old filter cartridge.
5. Scrub the housing and cap with warm water mixed with about 2 tablespoons of household bleach using a sponge or soft rag. Wear rubber gloves. **Rinse all parts very thoroughly!**
6. Lubricate the O-ring with clean silicon grease if needed. **DO NOT USE PETROLEUM JELLY.** Insert the O-ring in the filter groove and press into place. **Make sure the O-ring is seated correctly.**
7. Remove the filter packaging and insert the filter cartridges into the housings, making sure they slip over the standpipe in the bottom of the housing.
8. Align the top of the housing into the cap and hand tighten, then use the filter wrench to fit it snug.
9. Close any open valves. Turn on the water supply slowly to allow the system to fill with water. **Inspect carefully for leaks.** If a leak is found, remove the housing and inspect the O-ring to ensure that it is seated properly, and then retighten.
10. Flush the system by turning on a few cold-water faucets. Allow the water to run until the air and carbon has been purged. Water may be cloudy initially as the filters and system clear of trapped air. New activated carbon filter cartridges may contain loose carbon and air bubbles after installation.

Limited Warranty

This Limited Warranty extends to the original purchaser of the system only. This warranty covers all Manufacturer-supplied items only that prove to be defective in material, workmanship or factory preparation. This warranty covers parts only; all labor is excluded from this warranty, including, but not limited to, services related to the removal, replacement, installation, adjustment, maintenance and/or repair of the unit or its components items. excludes all non-Manufacturer labor required for any servicing of the unit, including, but not limited to, servicing related to installation, adjustment, maintenance and repair of the unit. This warranty applies only for the first full calendar year from date of purchase. The following items are excluded from this warranty: membranes, filters, O-rings, and all other parts or components that require regular replacement as a result of ordinary usage.

Disclaimers: This Limited Warranty applies only if the system is installed, used and maintained in compliance with all instructions and requirements enclosed with the system. This warranty will be void for failure to observe the following conditions:

1. The system is to be used with potable water supply only.
2. Feed water pressure to the unit is no less than 45 PSI (30 PSI for systems with built-in booster pump) and no greater than 80 PSI.
3. The system is to be used on water supplies with chlorine concentrations of 1.0 mg/L (ppm) or less.
4. Feed water temperature to the unit must be no less than 40°F and no more than 100°F.
5. Feed water must have a pH between 4 and 8.
6. Turbidity must be less than 1.0 NTU.
7. SDI must be less than 5.
8. Feed water must be completely free of iron, manganese or hydrogen sulfide.

The Manufacturer does not know the characteristics of your water supply. The quality of water supplies may vary seasonally or over a period of time. Your water usage may vary as well. Water characteristics can also change if the drinking water appliance is moved to a new location. The Manufacturer assumes no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligation on our behalf.

This Limited Warranty does not cover any Manufacturer-supplied items that are defective as a result of the use of improper parts, equipment or materials. This warranty does not cover alterations or modifications of the unit, or failure of a unit caused by such alterations and modifications.

This Limited Warranty does not cover malfunctions of the unit due to tampering, misuse, alteration, lack of regular maintenance, misapplication, fouling due to hydrogen sulfide, manganese or iron, scaling from excessive hardness, turbidity greater than 1.0 NTU, Silt Density Index (SDI) greater than 5.0 SDI, or excessive membrane hydrolysis due to chlorine levels in excess of 1.0 mg/L (ppm). In addition, damage to the unit due to fire, accident, negligence, act of God, or events beyond the control of the Manufacturer are not covered by this warranty.

Incidental and Consequential Damages Limitation: The Manufacturer will not be responsible for any incidental or consequential damages as a result of the failure of this unit to comply with express or implied warranties or any defect in the unit, including but not limited to, lost time, inconvenience, damage to personal property, loss of revenue, commercial losses, postage, travel, telephone expenditures, or other losses of this nature. In case some states do not allow the exclusion or limitation of incidental or consequential damages, you may choose to return the system. If you choose to keep it, you insist this exclusion STILL apply to you.

Owner's Warranty Responsibilities: As a condition of this Limited Warranty, the owner must ensure periodic maintenance of the system is performed as described in the literature enclosed with the system. Neglect, improper maintenance, abuse, modification or alteration of the unit will invalidate this Warranty. Should your unit develop a defect or otherwise fail to perform in accordance with this warranty, you should contact the retailer from whom the product was originally purchased.

Warranty Registration

Visit www.123filter.com to complete warranty registration form online.

To register your product for the warranty, visit our website **123filter.com** and go to the **“Warranty Registration”** tab. If you have any questions or concerns about your product, please do not hesitate to call or email us, or put it in the notes/comments upon your warranty registration. Your satisfaction is our business!

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