

# iSpring Whole House Water Filter Systems

## USER'S MANUAL

Version 2014-5

### Introduction

Congratulations on your purchase of the iSpring Whole House Water Filter system. Featuring a three-stage filtration process, it was designed with your comfort and convenience in mind. The iSpring Whole House Water filter treats: sediment, turbidity, iron, manganese, sulfur smell, pesticides, herbicides, and other chemicals. The main purpose of the iSpring whole house water filter is to deliver clean, clear water to every faucet and bath in your home without drawing down water pressure.

The cartridges in the water filter system must be replaced on a regular basis to maintain efficiency and to ensure high water quality. These cartridges work together, and *must* be replaced every **6-12 months** or after **100,000 gallons** per 1 ppm iron. Any significant change in performance of the system should be promptly investigated to avoid the deterioration of water quality.

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

**NOTE:** This system has been designed for installation by licensed professionals, such as a contractor or plumber.

### System Operating Conditions

Feed water pressure: 45 – 80psi (or 30 – 80psi for systems with built-in booster pump).

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

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

Once installed, move the system with caution, and avoid dragging the tubings.

## Installation of Whole House Filtration System (1-stage, 2-stage, or 3-stage)



**USE A LICENSED PLUMBER TO INSTAL THIS PRODUCT**

### Tools required

Safety glasses	Hacksaw
Towels	Soldering iron or torch
Flat head screwdriver	Power drill
Medium Crescent wrench	Teflon tape
Monkey wrench	

### Parts required (not included)

- (2) shut off valves
- (2) hex nipples or pipe nipples
- (2) pipe unions pressure regulator (as needed)
- (1) ground jumper cable
- Optional: pressure gauge(s), bypass valve(s), pipe hangers

### Preliminary Notes

- This installation guide provides a step by step, start to finish procedure for installing your ISpring water filter. .
- All steps provided herein are for typical installations only. Your application may be different.

## Pre-Installation

- The filter should be protected from freezing, direct sunlight, or extreme temperatures, and kept dry and level.
- Make a list of all the plumbing fittings and tools you will need to completely install the system according to your application.
- Turn the water off to your house while installing the system
- Turn off the electricity to your electric water heater during installation. .After the system is installed and pressurized, turn on a few hot and cold water faucets, and let them run until there is no more air in your lines, and then turn the electricity back on to your water heater.
- Use Teflon tape on threaded fittings.
- Be sure to note inlet and outlet markings. The sediment filter is the first stage of the water filter.
- A three valve bypass valve and loop may be installed to loop the entire system, which makes servicing easier.
- Hard copper pipe generally comes in two types. Use the thicker "L" type copper pipe, rather than thinner "M" type copper pipe.
- Follow all local plumbing and building codes.

## Installation

1. Turn off the main line water shutoff valve to the house.
2. Next, open all plumbing fixtures in the house in order to drain the lines of as much water as possible.
3. The filter should be placed on the main water supply line near where it enters the house, at any point past the main shutoff valve for the whole house, but before pipes branch off into multiple directions. However, you may choose to locate the filter after the line branches to the inside and outside plumbing, depending on your desire for filtered water in your outdoor plumbing.
4. Measure, cut, and remove a section of the main incoming water line near 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). Allow this line to drain thoroughly. Smooth the newly cut ends down to avoid jagged points or edges. **Your filter should be located in a dry, level area and protected from freezing, and direct sunlight.**
5. Place a shutoff valve and/or a pressure gauge immediately on either side of the filter for future ease of service.
6. Securely mount the whole house filter using the supplied mounting bracket and bolts. Ensure that the system is level.
7. You may now need to adjust the pipe length or distance. Fit a pipe union onto the cut section of the main Water Line IN. (see diagram).
8. Fit together the pipe union and shut off valve. Use Teflon tape on the threaded fittings.
9. Simultaneously fit together the shut off valve and whole house filter using the pipe nipple or hex nipple to draw them together on the FEED side of the filter.
10. Fit the pipe hanger on the water IN side for additional support.
11. Simultaneously fit together the filter and the shut off valve on the OUTLET side of the filter. Fit the pipe union to the shut off valve on the OUTLET side.

12. Check the pipe length and pipe union length to see if an additional pipe length or union is required. Join the pipe union and pipe.
13. Fit the pipe hanger on the water OUTLET side for additional support. Connect the ground jumper cable (if necessary).

## Turn the water back on

Turn your water on slowly. In 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 some time. This is normal carbon dust. Continue to run water until it runs clear and all air has been purged. Shut the water off, let the unit sit for a while, and then flush it again. It is not unusual for the water to appear "cloudy" for a day or so following installation. This cloudiness is actually tiny air bubbles being purged from the carbon. This is normal, harmless, and will clear up in a day or two.

## 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.
- Water filter systems should never be exposed to freezing temperatures, since severe damage to the filter and housings could result. Such damage is not covered under any warranty.
- After prolonged periods of nonuse (such as a vacation), it is recommended that the system be flushed thoroughly for at least 10 minutes before using the water.

## Filter Change Instructions

1. Turn off the water supply to the system. Depress 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 from the cap 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 aside 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 groove and press it into place. **Make sure the o-ring is seated level.**
7. Remove the filter packaging and insert the new filter cartridge into the housing, making sure that it slips over the standpipe in the bottom of the housing.
8. Fit the bottom of the housing into the cap and hand tighten. Then use the filter wrench to fit snug. **Do not over tighten.**

9. Close any open valves. Slowly turn on the water supply to allow the system to fill with water. **Inspect carefully for leaks.** If a leak is found, first remove the housing and inspect the o-ring to ensure that it is seated properly. 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 initially be cloudy. New activated carbon filter cartridges may contain loose carbon and air bubbles after installation.

## iSpring Warranty Registration Form

Visit [www.123filter.com](http://www.123filter.com) to complete the warranty registration form online.

Or email to [sales@ispringfilter.com](mailto:sales@ispringfilter.com) or mail this Warranty Registration Form to validate your warranty.

iSpring Water Systems, LLC  
 3020 Trotters Pkwy, Suite B  
 Alpharetta, GA 30004  
 Phone: 1 (678) 261-7611

iSpring Warranty Registration Form	
Your Name:	
Your Address:	
Your E-Mail:	
Your Phone:	
Order#:	
Order From:	
Model#:	
Order Date:	
Reviewer ID:	
Notes:	

### Plumber's Information (optional)

We like to recommend good plumbers throughout the U.S.A., If you were happy with your installer, please give us their information so that we can pass it on as a courtesy. Thank you for your time.

Name of Plumbing Company or individual plumber used to install system:

\_\_\_\_\_

Phone #: (\_\_\_\_) - \_\_\_\_\_ of the Plumbing installer.



## Limited Warranty

This Limited Warranty extends only to the original purchaser of the system. This warranty covers only all Manufacturer-supplied items that prove to be defective in material, workmanship or factory preparation. This warranty covers only parts; 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. It 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 to the first full calendar year from the 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 agree that this exclusion STILL apply to you.

Owner's Warranty Responsibilities: As a condition of this Limited Warranty, the owner must ensure that periodic maintenance of the system is performed as described in the literature enclosed with the system. Neglect, improper maintenance, abuse, or 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.

**Service Record**

Date of Purchase: \_\_\_\_\_ Purchased from: \_\_\_\_\_

Reference Order #: \_\_\_\_\_

Date of Installation: \_\_\_\_\_ Installed by: \_\_\_\_\_

Date	1st Stage Sediment	2nd Stage Carbon	3rd Stage Carbon	4th Stage UV/UF

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