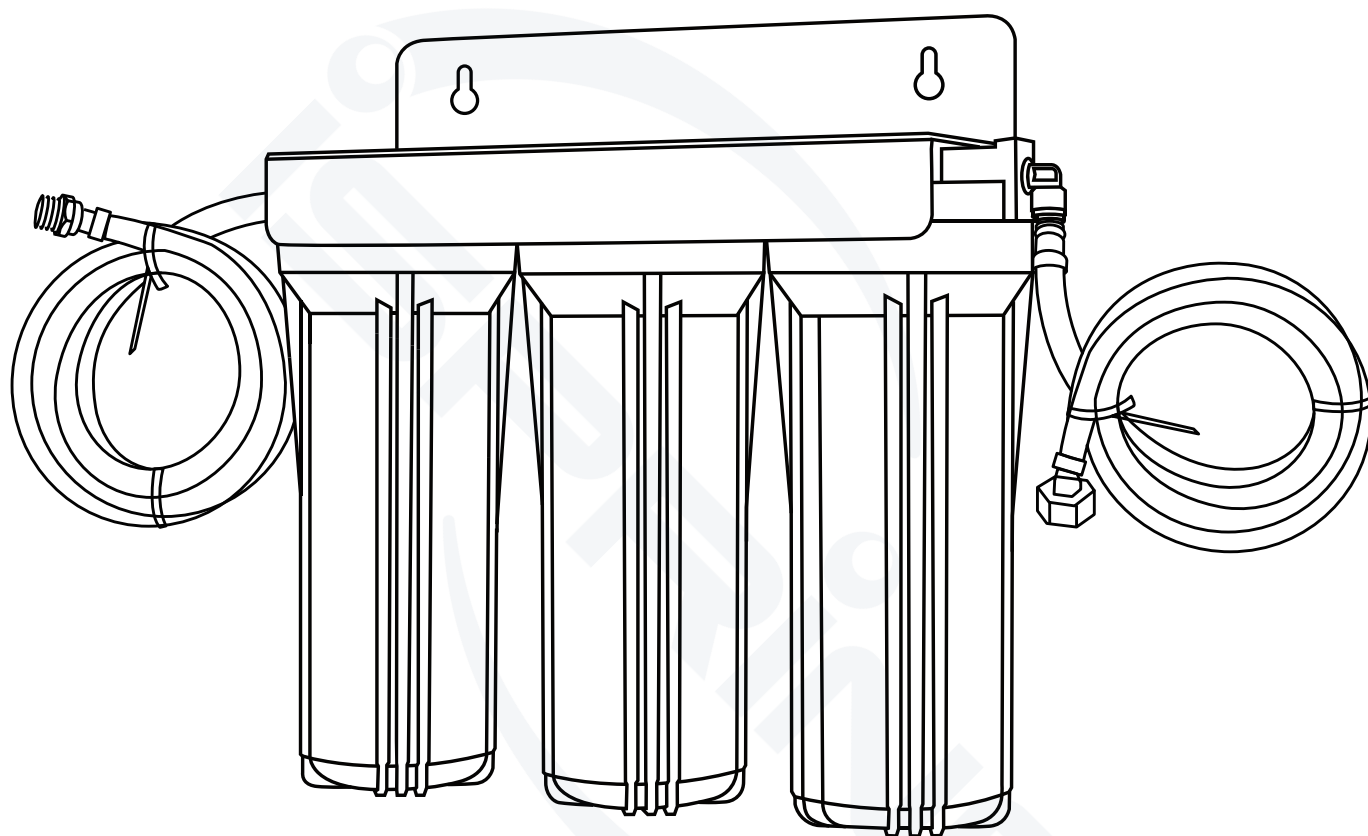


UNDER SINK

iSpring US31KF Series 3-Stage Tankless Water Filtration System



Installation Instructions & User Manual

Ver. 03/2026



Support
&
Warranty



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We stand behind our products

Since 2007, iSpring has been committed to delivering safe and clean water solutions to families and businesses worldwide. We provide a wide range of residential and commercial water filtration systems designed to purify your water, ensuring that you and your family enjoy pure, healthy, and great-tasting water every day.

At iSpring, we strive to develop products to the highest standards and aim to make excellent drinking water accessible for all households. With affordable pricing, reliable quality, prompt delivery, and top-notch customer service, we hope to assist in bringing you great water for years to come.

Prior to Installation

Read this instruction manual carefully prior to installation.
Keep this manual readily available for future reference.

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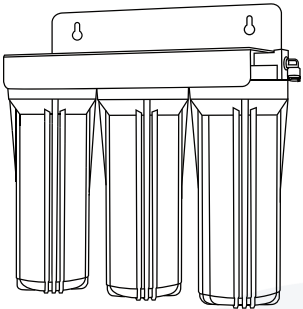
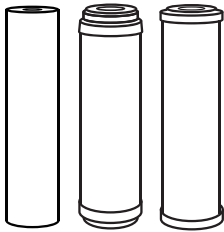
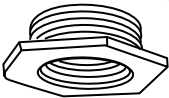
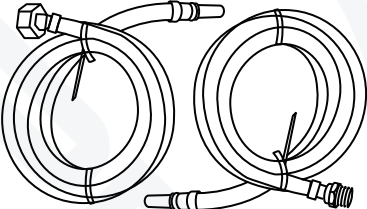
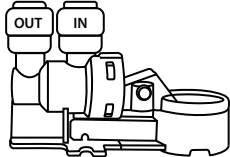
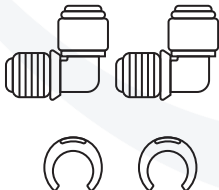
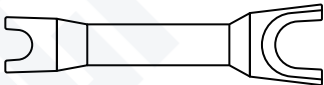
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User Information

The user must adhere to the installation specifications described in this Product Installation and Operation Manual. iSpring is not responsible for damage, loss, or injury resulting from neglect, improper maintenance, or unauthorized modification of products.

- This product is designed for residential use only. Contact iSpring customer service to inquire about usage in non-residential settings.
- This system is NOT designed for HOT water or extreme COLD weather. If the water or ambient temperature falls below 40°F, immediately turn off the in-line water supply and drain the remaining water.
- If a leak occurs, turn off the in-line water supply by turning off the adapter. Then unplug the system and contact iSpring customer service.
- Use only authorized iSpring parts and filters. Using unauthorized or aftermarket components will void the product warranty.
- Unauthorized modification and disassembly are strictly prohibited and will void the warranty.
- It is recommended that users check external fittings and connections regularly to ensure all components are secure.
- This system is not intended for use by people (including children) with reduced physical, sensory, or mental capabilities or lack of experience and knowledge unless they have been given supervision or instruction concerning its use by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance.
- Do not use this system with microbiologically unsafe water or water that has been potentially inadequately disinfected.
- This system is designed to be used on a cold supply only and kept away from freezing environments.
- The installation must comply with local plumbing codes and regulations.
- The package contains small parts, which can be a choking hazard. Please keep the package out of the reach of small children at all times.
- This system DOES NOT reduce TDS concentration.

Packing List

		
Filter Housing Assembly	Filter Cartridges	Filter Housing Wrench
		
1/2" to 9/16" Bushing	Hose with 1/2" Male Thread & Hose with 9/16" Female Thread	Leak Stop Valve
		
3/8" Tubing	Quick-Connect Fittings	Quick-Connect Removal Tool

Product Features

Specifications	
Minimum Inlet Water Pressure	30 psi (2.1 bar)
Maximum Inlet Water Pressure	70 psi (4.8 bar); 65 psi (4.5 bar) for US31KF-PF
Inlet Water Temperature	40–100°F (4–38°C)

- For water pressure over 70 psi, a pressure regulator (Model# APR70) is required if there is high water pressure or water hammer occurs.

If you have any questions or concerns, please contact us at support@ispringwater.com or visit our help page at ispringwater.com/support

Before Installation

Before you start the installation

- We recommend watching our video **"How to Install iSpring US31KF Under Sink Water Filtration System | Step by Step Easy DIY"** on YouTube for guidance.
- Choose a suitable location for the system, which must be on a flat surface.
- Ensure this system will be installed **ONLY** on the **INDOOR** cold water supply.
- Check the packing list to confirm that all accessories are included in the package. If any components are missing, contact iSpring customer service.

Required Tools:



Plumber's Tape



Screw Driver



Spanner Wrench



Utility Knife



Flash Light



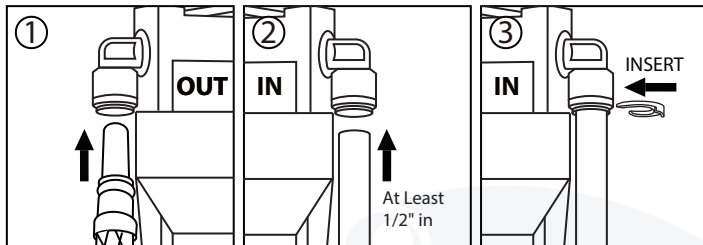
Towels

Optional Tools:

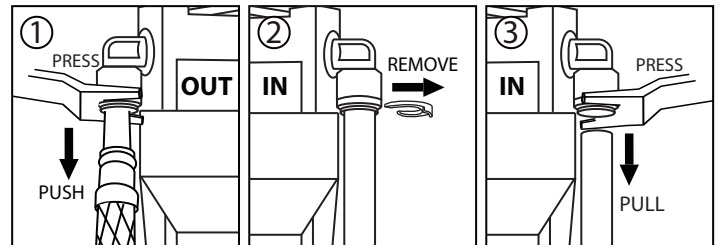
- Prepare a 5/8", 9/16" open-end wrench or adjustable wrench and pliers.

Quick-Connect Fitting Instruction:

HOW TO CONNECT



HOW TO DISCONNECT

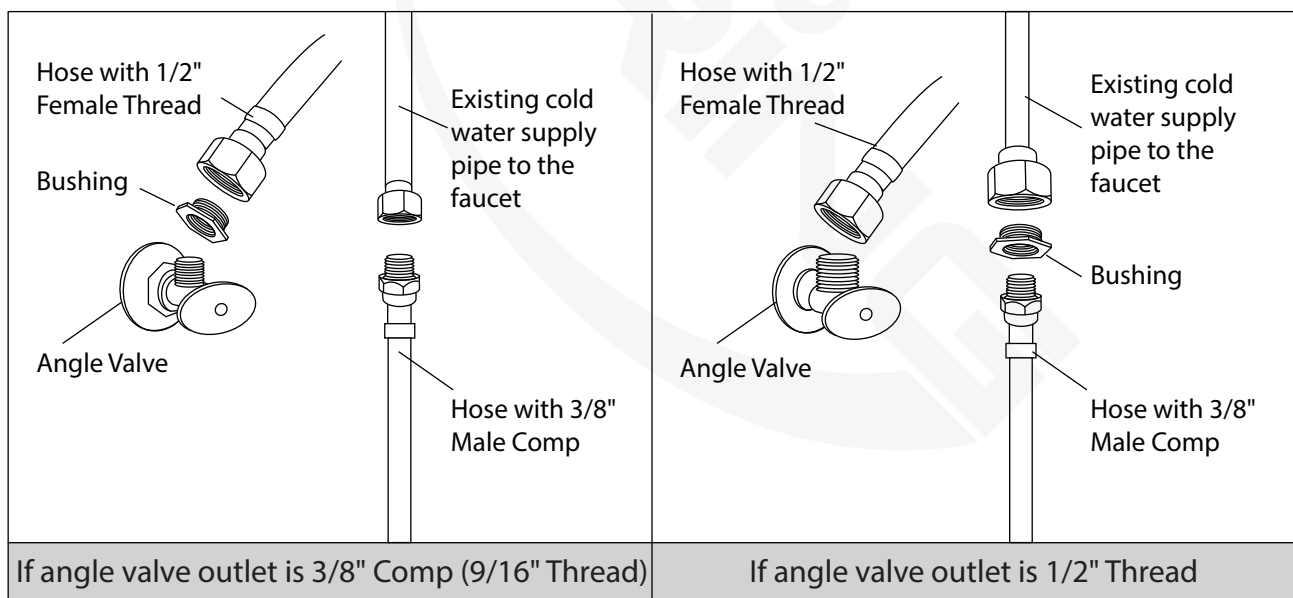


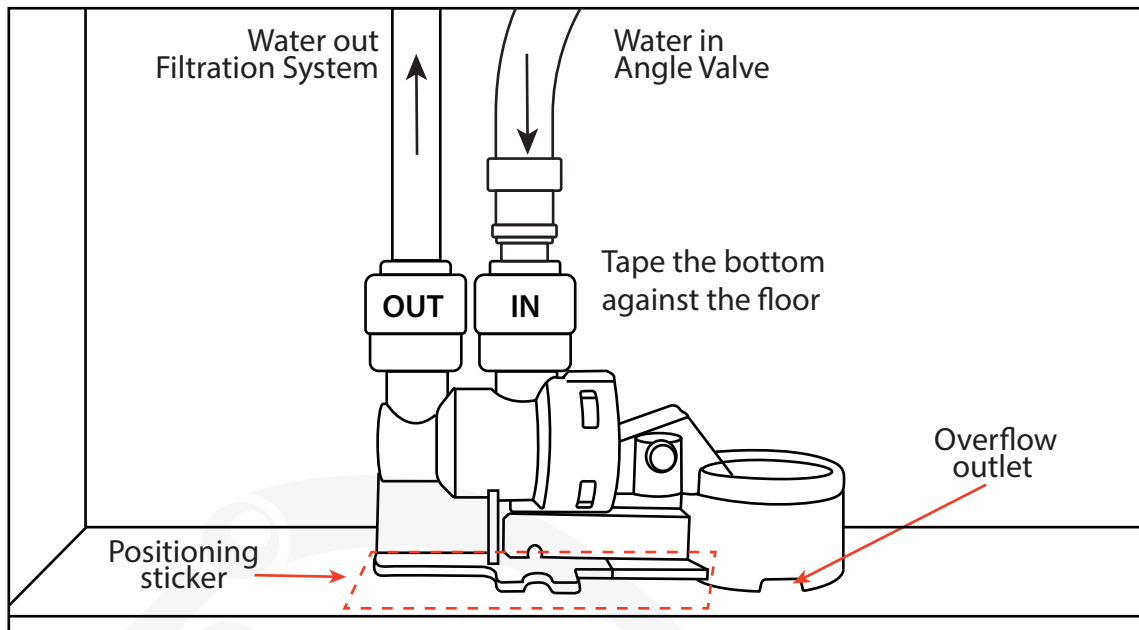
* The quick-connect removal tool can help to disconnect more easily.
The tool should fit snugly around the tubing.

We recommend watching our video **"How to Connect and Disconnect Quick Connect Fittings | DIY Installation"** on YouTube for your reference.

Cut the tubing end squarely using a utility knife or scissors. Insert the tubing into the quick connect fitting for at least 1/2". You will need to wiggle the tube and apply additional pressure to create a seal.

Hose Connection Guide





Leak Stop Valve Installation (Optional but strongly recommended)

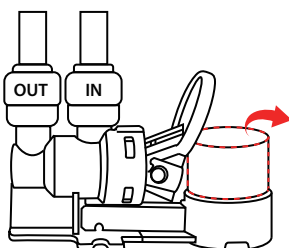
The Leak Stop Valve is a reusable mechanical leakage protector. Whenever a water leak is detected, it automatically shuts down the feed water.

1. Make sure the end of the tubing is cut square before connecting it to the fitting.
2. Follow the water flow direction on the Leak Stop Valve to connect it to the water inlet pipeline.
3. Secure the Leak Stop Valve to the cabinet floor near the system installation area.
 - Apply a small amount of adhesive to the bottom of the valve and press it firmly onto a clean, dry surface.
 - Use the included positioning sticker to hold the valve in place while the adhesive cures.
 - Allow 24–48 hours for the adhesive to fully set before normal operation.

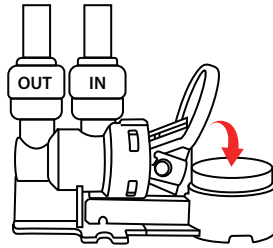
! Note: Do not block the overflow outlet on the Leak Stop Valve during installation.

Leak Stop Valve Pads (ALS1P3) Replacement (If Installed)

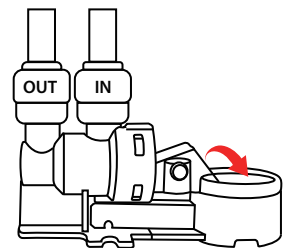
We recommend watching our video **“Absorb Pad Replacement of iSpring Leak Stop Valve | Easy DIY | Step by Step”** on YouTube for reference.



- 1 Shutoff the inlet water supply. Lift the pad cover, remove the expanded pad.



- 2 Drop in the new pad.



- 3 Close the pad cover, the replacement is now completed.

Installation

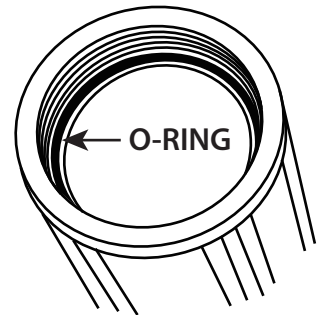
Step 1. Install the Filters: Stages 1, 2, and 3

Step 1. a. Make sure the O-ring is seated inside the groove at the top of the filter housing. Food-grade silicone jelly may help the O-ring stay in place and seal better.

Step 1. b. Filter cartridges are preserved in shrink wrap. Before removing the wrap, note the direction sign on the sticker.

Step 1. c. When placing the filter cartridge into its housing, make sure it is centered, and the knob protruding from the bottom of the housing fits in the central hole of the filter.

Step 1. d. Screw the housing onto the housing caps (caps are pre-assembled on the machine head). The cap also has a center knob that should be inserted into the center hole of the filter cartridge. Twist the housing on in a counter-clockwise direction by hand, then use a housing wrench to tighten it up for about 1/4 - 1/2 turn. Do not over-tighten. This can cause leaks and make it difficult to unscrew the housing when replacing filters.



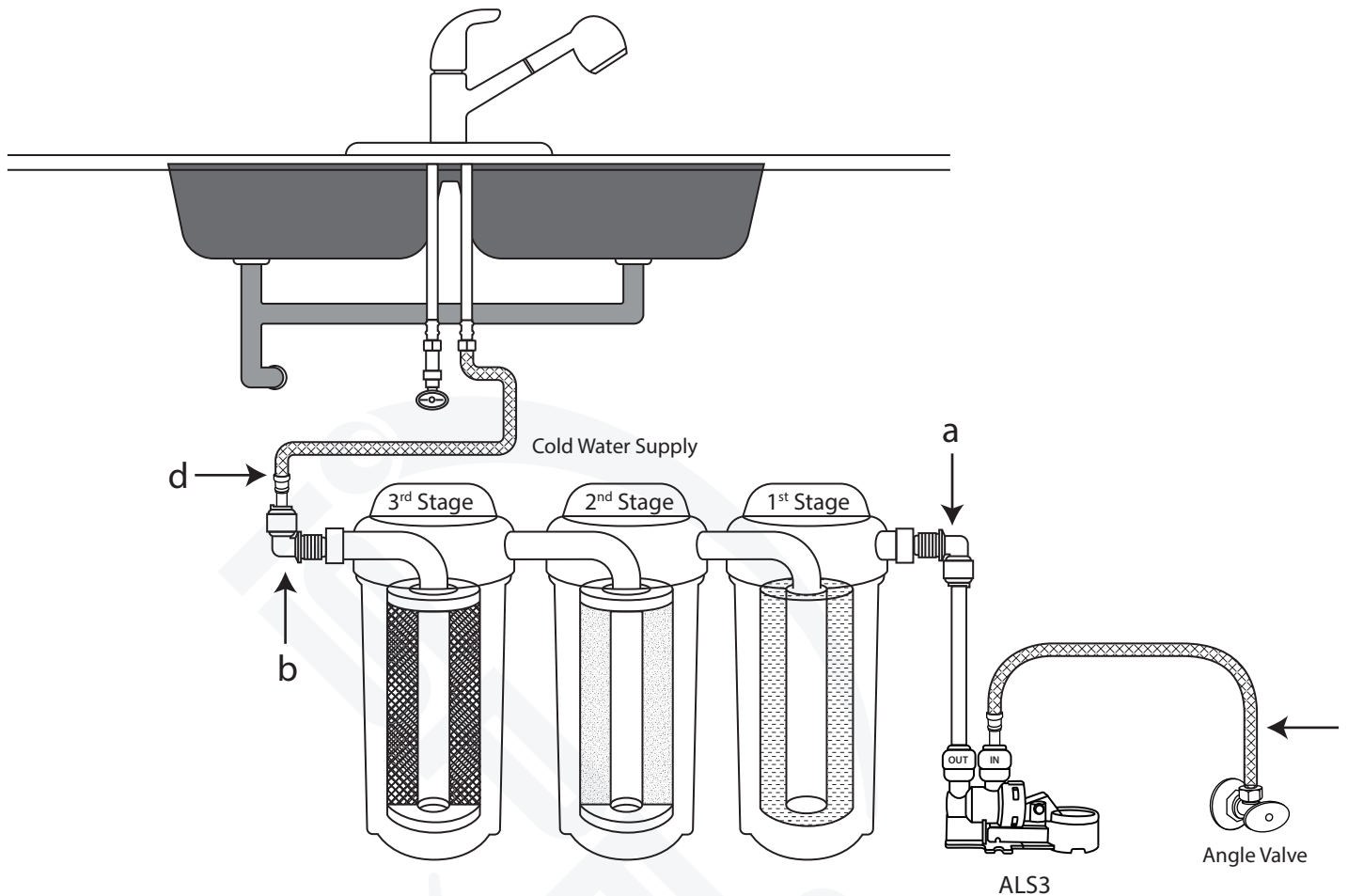
Note: The GAC filter is the only filter that must go in a specific direction. Carefully follow the instructions on the GAC filter.

Step 2. Tubing Connection

Step 2. a. Install the fittings (A and B) onto the inlet and outlet of the system. Wrap the male end of the fittings with 4-5 wraps of plumber's tape to ensure a proper seal and screw them into each side of the system. Do not over-tighten.

Step 2. b. Insert the supply tubing (C) onto the inlet side (A).

Step 2. c. Insert the faucet tubing (D) onto the outlet side (B).



Step 3. System Start-up

Step 3. a. Make sure no tubing is kinked. Place a towel under the system to catch any possible water leaks.

Step 3. b. Open the drinking water faucet. Slowly turn on the feed water adapter and check for leaks. The top 3 causes of leaks are: 1) The tubing is not fully inserted into the quick-connect fitting. 2) The O-ring is not in the correct place or is kinked. 3) The filter housing or cap is not tightened correctly or is misaligned with threads.

Step 3. c. Rinse the system for at least 5 minutes. When flushing the system for the first time, residual carbon and fine air bubbles in the water are normal.

Step 3. d. Check for leaks daily for the first two weeks after installation to ensure the system functions properly.

**Congratulations, you have successfully installed your
iSpring US31KF Under Sink Water Filtration System!**

Troubleshooting Guide

1 Zero output water from drinking water faucet

- The water supply valve is closed. Turn on the water supply to the system.
- Incorrect installation. Verify all tubing connections.
- A tubing is kinked or pinched, blocking water flow. Check all tubing and straighten any kinks or pinched sections.

2 Low water flow from the drinking water faucet

- One or more filters are clogged and need replacement. Replace filters as needed.
- The water supply is not on. Turn on the water supply to the system.

3 Cloudy water

- After installing the system or changing filters, tiny air bubbles may form in the treated water, making it appear cloudy. This is normal and will clear as the system purges trapped air.

4 Water from the system tastes the same as tap water

- The installation was incorrect. Verify all connections on the system.
- The filter has reached its lifespan and needs replacement. Check the filter replacement schedule on the label.

5 Leaking from where the tubing is inserted into the fittings

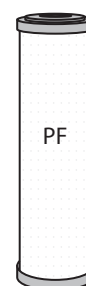
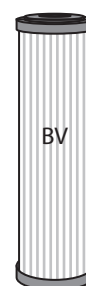
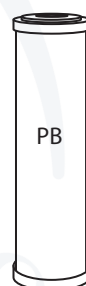
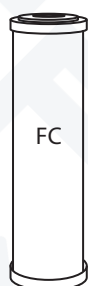
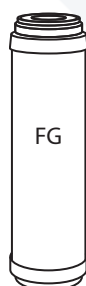
- The tubing is not fully inserted past the O-ring. Ensure the tubing is pushed at least 1.25 cm into the fitting. Apply firm pressure until it is securely seated.
- The O-ring is not sealing correctly. Unscrew the elbow fitting, replace it with a new one, and wrap the threads with 4-5 layers of plumber's tape before reinstalling.

Maintenance

All iSpring Water Filter Systems are designed for easy use and minimal maintenance. If the filter cartridges are replaced on schedule, the system will operate efficiently for years.

Please refer to the chart below for your system's filter pack model numbers. Replacement filters can be found at ispringwater.com.

Model Number	Filter Set Name	Content
US31KF	F3	FP15 + FG15 + FC15
US31KF-NC	F3-NC	FP15 + FC15-NC + FC15
US31KF-PB	F3-PB	FP15 + FC15 + FC15-PB
US31KF-BV	F3-BV	FP15 + FC15 + FC15-BV
US31KF-PF	F3-PF	FP15 + FC15 + FC15-PF



PP	GAC	CTO	CTO	CTO	CTO	Carbon Fiber
#FP15	#FG15	#FC15	#FC15-NC	#FC15-PB	#FC15-BV	#FC15-PF
Up to 6 Months	Up to 12 Months	Up to 12 Months	Up to 12 Months	Up to 12 Months	Up to 12 Months	Up to 12 Months



Note: The general filter cartridge replacement schedule is for reference only. Not all filters included in the same filter pack, carefully choose the filter pack that suits your system.

Filter replacement schedule may vary depending on the quality of your source water.

Replacing the Filters

Filters should be replaced as recommended. However, lifespan may vary depending on water quality and daily usage. If water flow decreases significantly or an unpleasant taste or odor develops, replace the filters immediately.

Filter Replacement

- 1 Turn off the cold water supply valve and open the drinking faucets to release pressure.
- 2 With a towel or bucket underneath, twist the filter cartridge wrench clockwise to remove.
- 3 Install the new filter and twist the housing back on.
- 4 Check the tubing connection. Open the inlet cold water valve and rinse the system for at least 5 minutes.

O-rings: Replace every 3 years or if any leakage occurs

The package includes spare O-rings for the pre-filter and membrane housing. Please keep them with this manual.

What to Do When Leaving for an Extended Time

When you leave for an extended time, you will want to shut off the water supply and empty the system. To do this, close the knob on the feed water adapter, and open the faucet until it stops running. This will signify that the system is empty of water. If the system is not used for over a week, the filters should be replaced, as they have been sitting in stagnant water.

Optional Add-on

Automatic Filter Replacement Reminder (Model #AFLT4)

The AFLT4 is a programmable timer that allows you to set filter replacement reminders by day, month, or year. It provides alerts to help you stay on schedule with maintenance.

Water Filtration System Slide-out Mounting Kit (Model #ASKRCC)

This sliding rail kit allows the system to slide out smoothly, making filter replacement quicker and more convenient.

Ice Maker Connection Kit (Model# ICEK)

The iSpring ICEK can be purchased separately to feed water to your refrigerator for crystal-clear ice cubes and great-tasting water. It can be easily installed to connect the US31KF system to your fridge's ice maker or water dispenser.

Tubing (Model# T14B or T14W)

1/4" food-grade tubing for tubing replacement and extension as needed.



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