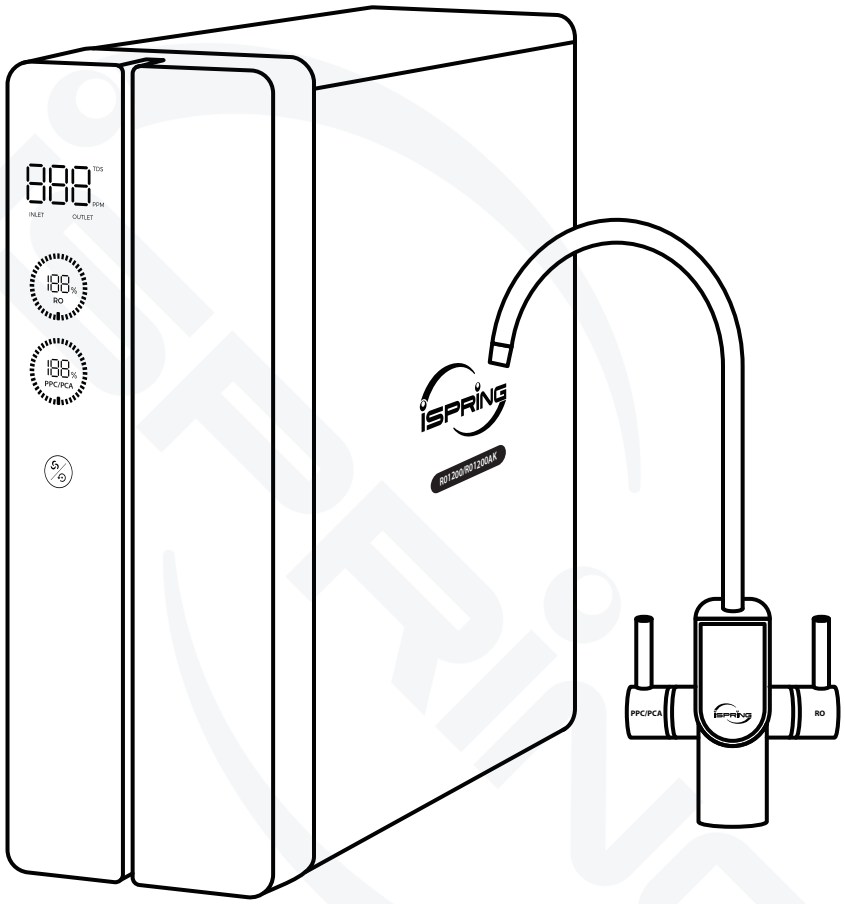
UNDER SINK

iSpring RO1200 Series Reverse Osmosis Water Filtration System With Dual Outlet Faucet



Model: RO1200/RO1200AK

Installation Instructions & User Manual

Ver. 01/2026

iSpring Water Systems

Support & Warranty

Before Installation

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

Table of Contents

User Information

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

- The system should be placed only on flat surfaces. Do not mount the product on a wall.
- This product is designed for residential use only. For inquiries regarding use in non-residential settings, contact iSpring customer service.
- The operating temperature range is 41–100°F (5–38°C). If the water temperature or ambient temperature falls below 39°F, immediately shut off the inline water supply, turn off the inline water adapter, and drain the remaining water from the system.
- In case of malfunction due to damage or failure of the power supply system, unplug the system immediately and contact iSpring customer service for guidance.
- If leaking occurs, shut off the inline 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.
- This product has built-in systems to prevent internal leaks and minimize the risk of water damage. However, it is recommended that users check external fittings and connections regularly to ensure all components are secure and operating correctly.
- Unauthorized modification and disassembly are strictly prohibited and will void the warranty.
- Never touch the power cord connector when your hands are wet, as this may result in electric shock.
- Use only water to clean this product. Do NOT use corrosive cleaning products or any materials that could cause damage.

Product Specification

Rated Power	100–200 V~ / 50–60 Hz, 120 W
Inlet Water Pressure	15–60 psi (1.0–4.1 bar)
Inlet Water Temperature	41–100°F (5–38°C)
Power Current	3.5 A
Dimensions	17 × 6 × 14 inch (418 × 150 × 349 mm)

Operation Specifications

- For water pressure over 60 psi, a pressure regulator is required if there is high water pressure or if water hammer occurs.
- For water pressure below 15 psi, a booster pump is needed before the system inlet for its efficiency.

Filtration Performance

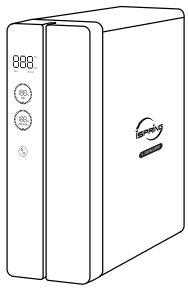
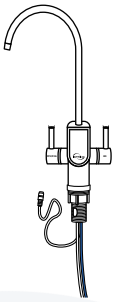
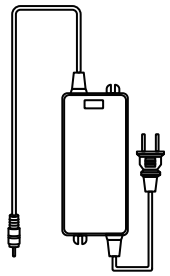
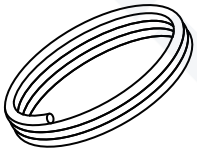
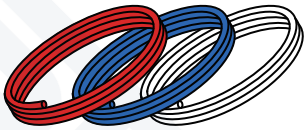
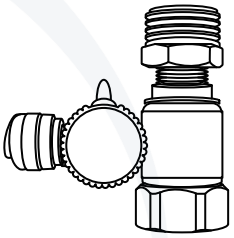
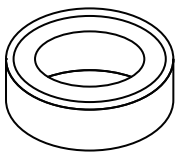
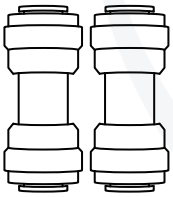
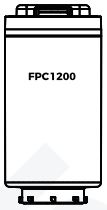
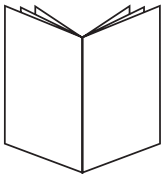
Model	Filter Name	Purpose	Lifespan
FPC1200	PPC Composite Filter	Filters out large particles such as rust, sediment, and suspended solids. Reduces residual chlorine, unpleasant odors, discoloration, and some organic compounds. Enhances the taste for better-tasting drinking and cooking water.	Up to 12 months
FPCA1200	PCA Composite Alkaline Filter	Filters out large particles, including rust, sediment, and suspended solids. Reduces residual chlorine, odors, discoloration, and organic compounds. Restores beneficial minerals and naturally raises the pH of filtered water, helping to improve water taste.	Up to 12 months
MRO1200	RO Membrane	Effectively reduces heavy metal ions, including lead, cadmium, chromium, TDS, and arsenic. Effectively removes microscopic contaminants, delivering clean, safe, and great-tasting water with every drop.	Up to 24 months

Compatible System Models

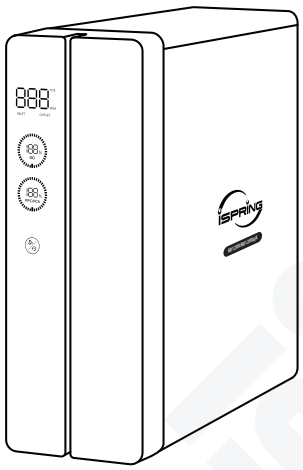
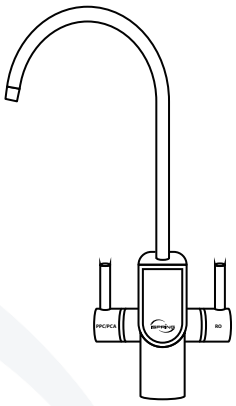
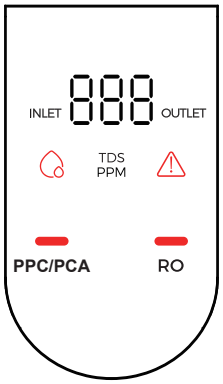
System Model	First Stage	Second Stage
RO1200	FPC1200 (PPC)	MRO1200
RO1200AK	FPCA1200 (PCA)	MRO1200

Please note that the system, faucet, and screen display may vary by model. The RO1200 model comes with a PPC filter and a standard RO membrane, while the RO1200AK model includes a PCA filter and a standard RO membrane.

List of Components

			
Main Unit	Faucet and Installation Kit	Power Adapter	Drain Saddle ADS1K
			
3/8" Tubing	1/4" Tubing Set (Red, Blue, and White)	Feed Water Adapter AFW38	Quick-Connect Removal Tool AQR23
				
Plumber's Tape ATAPE50	1/4" Union Fitting	RO Membrane MRO1200	Composite Filter FPC1200 (For RO1200)	Composite Alkaline Filter FPCA1200 (For RO1200AK)
				
3/8" Elbow Fitting	1/4" Elbow Fitting	3/8" Locking C-Clip	1/4" Locking C-Clip	User Manual

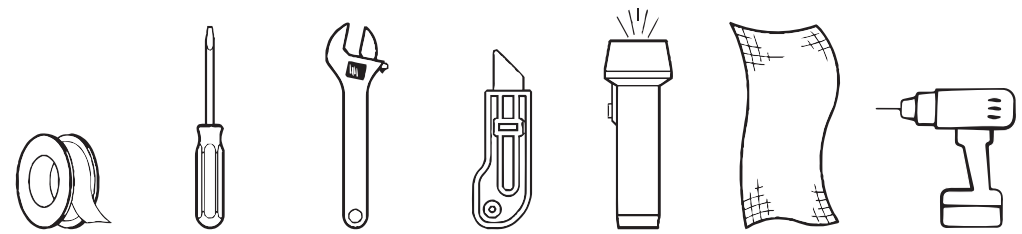
Product Overview

			
Main Unit	Main Unit Display	Faucet	Faucet Display

Installation Preparation

Please check the List of Components to confirm that all accessories are included in the package. If any components are missing, please contact iSpring customer service.

1. Choose a suitable location for the system. It cannot be mounted and must be placed on a flat surface. Ensure the system is installed INDOORS ONLY on a cold-water supply.
2. Ensure that a power outlet is available near the installation location.
3. The inlet water pressure must be at least 15 psi (1 bar).
4. Ensure there is a dedicated installation space for the system and the faucet.
5. Do not install the system in direct sunlight or in areas containing chemical vapors.
6. Before installation, prepare the following tools:

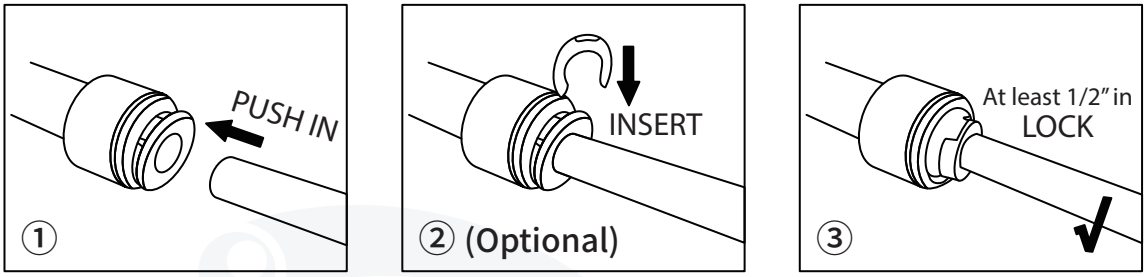


Plumber's Tape | Screw Driver | Spanner Wrench | Utility Knife | Flash Light | Towels | Electric Drill

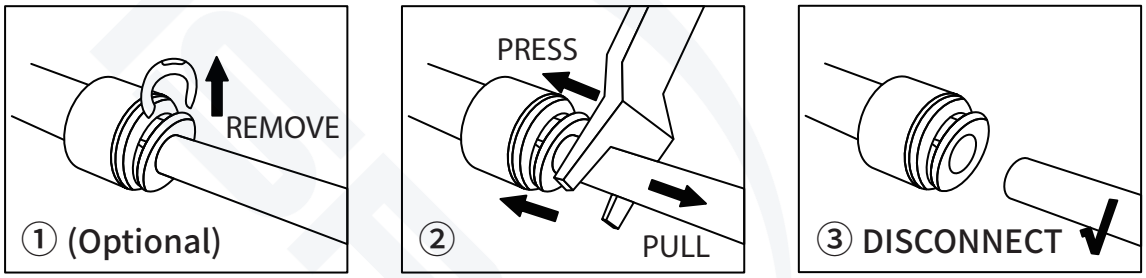
8. Turn off the main water supply and release any residual water pressure from the tubing to prevent leakage when installing.

Quick-Connect Instruction

HOW TO CONNECT



HOW TO DISCONNECT

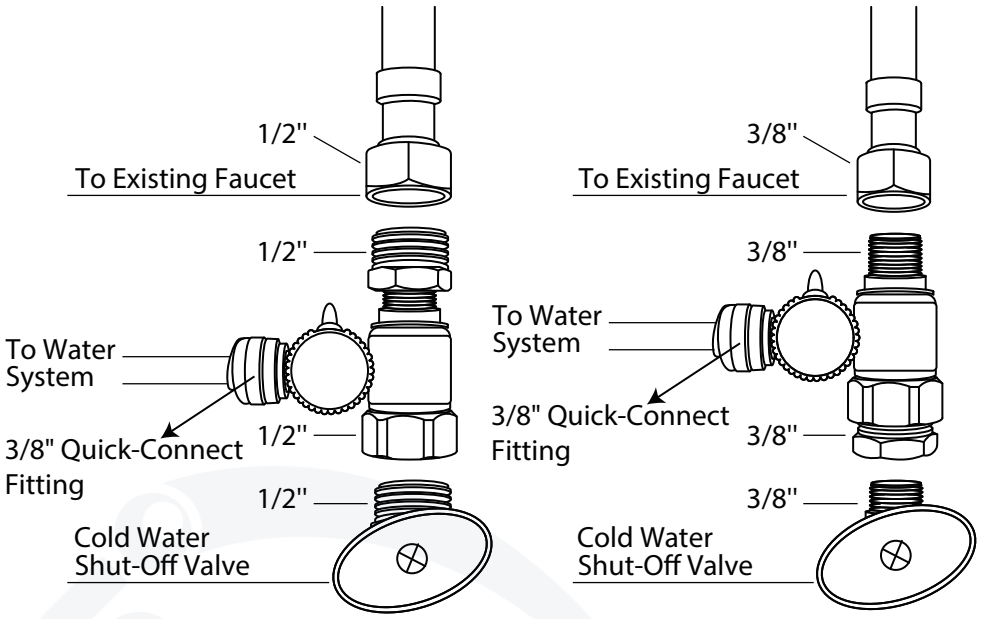


* The quick-connect removal tool (AQR23) can help to disconnect tubing.

Feed Water Adapter Installation

We recommend watching our YouTube video "***How to Install iSpring AFW38 Feed Water Adapter for Reverse Osmosis Systems | Step-by-Step Guide***" for guidance.

A. Turn off the cold-water supply valve under the sink and turn on the kitchen faucet to release pressure. Place a towel or bucket underneath to catch any water drips. Disconnect the kitchen faucet connector pipe from the cold-water supply valve.
B. Attach the feed water adapter to the cold-water supply valve and tighten it securely using a wrench or pliers. Ensure the O-ring seats correctly inside the adapter for a tight seal.
C. Reconnect the kitchen faucet connector pipe to the male end of the Feed Water Adapter. Turn the Feed Water Adapter handle to the perpendicular OFF position, then slowly turn on the cold-water supply valve. Check for leaks to confirm a proper seal.
D. Connect the 3/8'' tubing to the Feed Water Adapter.

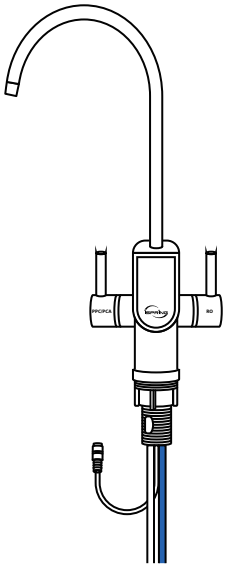


Drilling a Hole in the Sink or Countertop (Optional)

If your kitchen sink does not have an existing hole for the drinking faucet, you may need to drill one or use the existing space for the dishwasher/hand soap dispenser. Choose a suitable location on the sink or countertop and install the drinking faucet on a flat surface.

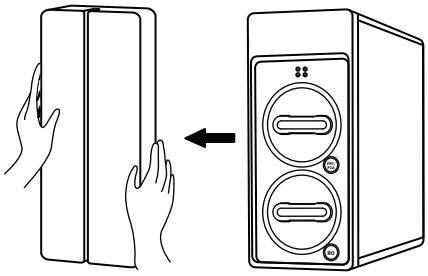
We recommend watching our YouTube video "How to Drill Faucet Holes" to understand this process better. Depending on your countertop, you may want to hire an experienced professional to ensure the hole is drilled correctly.

A. Select a diamond core bit for granite counters and a titanium drill bit for steel. Do NOT use a hammer drill on natural stone, glass, or ceramic. A faucet hole of 1 to 11/2 inches (25–38 mm) in diameter is required for proper installation.
B. Make an indent with a punch before drilling to help guide the bit.
C. Use caution when drilling on a Porcelain sink, as it could be easily chipped. Set drill speed to slow. Press the bit downward firmly until it breaks through the slippery surface. Securely attach the bit by drilling through a piece of wood that is firmly pressed against the surface.
D. Use coolant to disperse heat. Choose water for granite and oil for steel. Use a cup of water to hold the coolant inside and prevent the drill bit from slipping.
E. Starting at the lowest speed, hold the drill firmly and vertically and prevent the drill bit from slipping on the counter.
F. Swirl the drill slightly to apply pressure evenly in a circle once it has broken through the smooth surface. It can take 20–40 minutes to drill through 1" (25 mm).

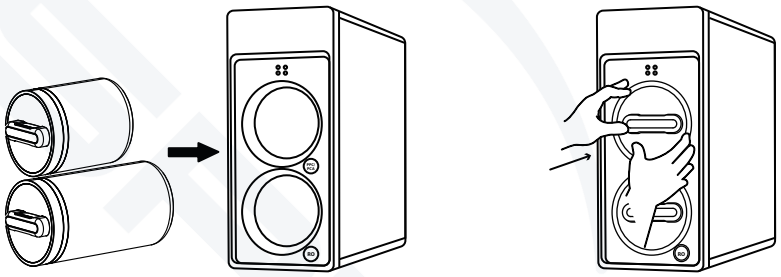


Filter Installation

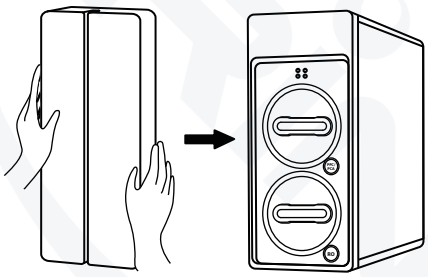
1. Remove front panel of the system.



2. Remove the transparent protective film from both filters.
3. Hold the filters by the handles, insert horizontally into their respective slots, and push until you hear a “click” — indicating the filters are securely installed.

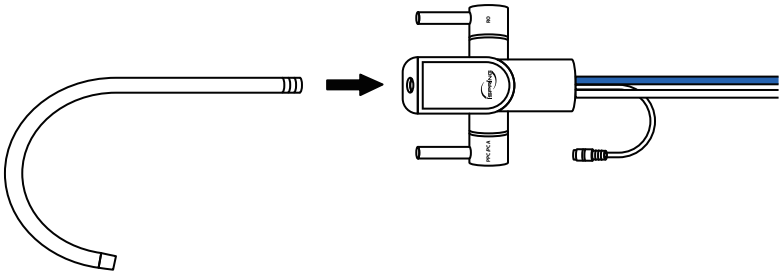


4. Close the front panel.

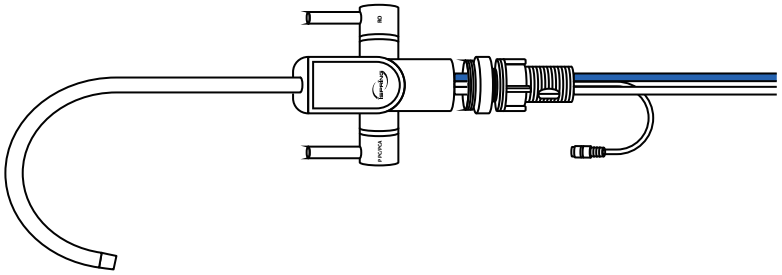


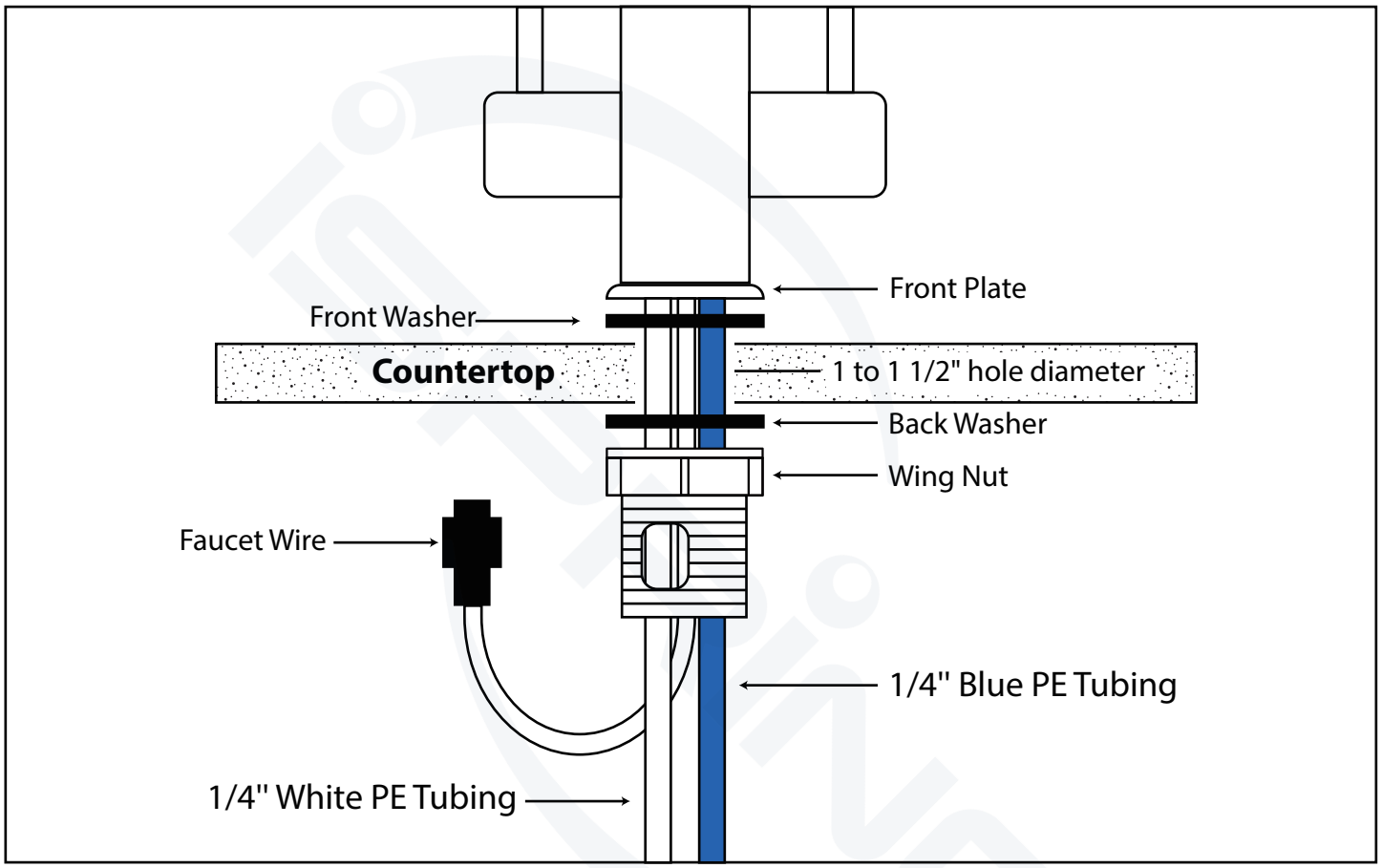
Faucet Installation and Connection

1. Insert the gooseneck spout onto the main faucet body.

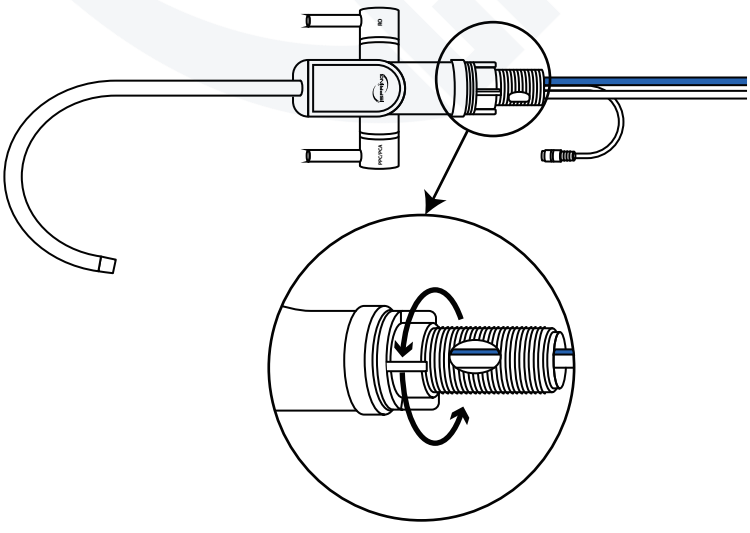


2. Insert the mounting plate with the washer underneath, then secure the faucet body with the mounting nut.

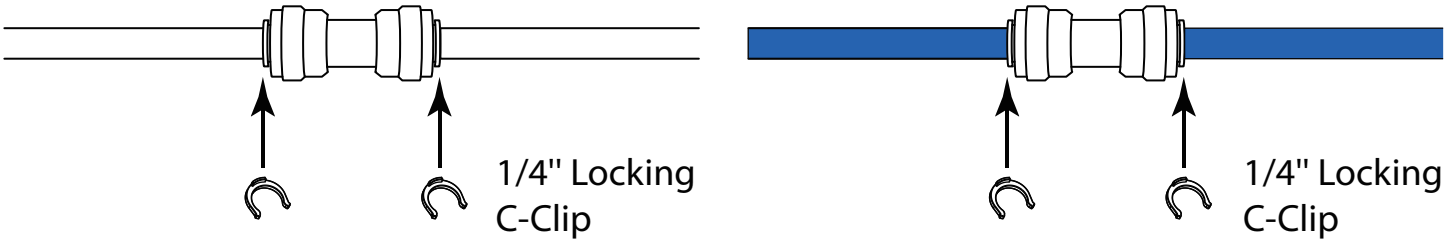




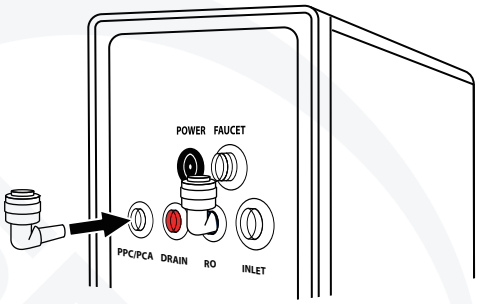
3. Pass the wire and PE tubing through the faucet base, align them in the correct direction for use, and tighten the wing nut.



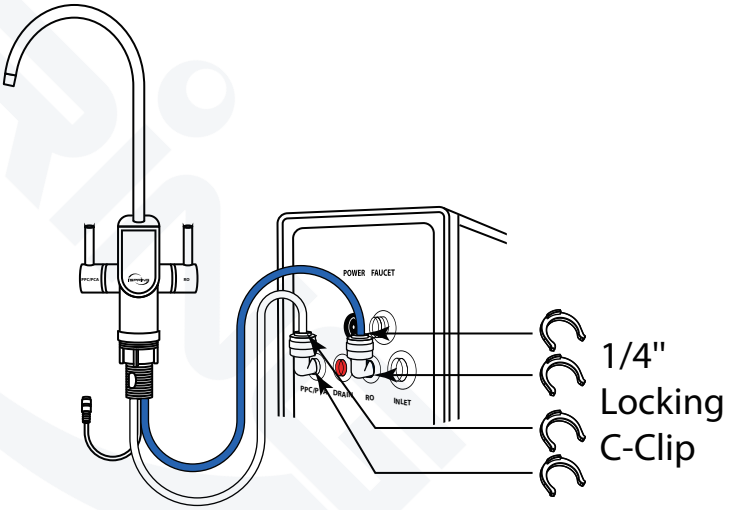
4. Connect the white and blue PE Tubing on the faucet with a 1/4" Union Fitting and 1/4" PE Tubing in the corresponding color, and secure the connection by inserting the 1/4" locking C-clip.



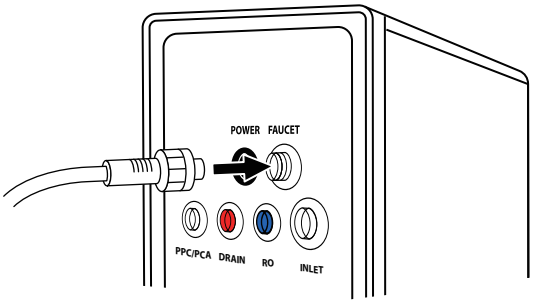
5. Insert two 1/4" Elbow Fittings on the PPC/PCA and RO port on the system.



6. Plug the end of the blue tubing into the RO outlet on the system, and the white tubing to the PPC/PCA outlet on the system, and connect it with the matching end on the faucet. Secure the connection by inserting the 1/4" locking C-clips.



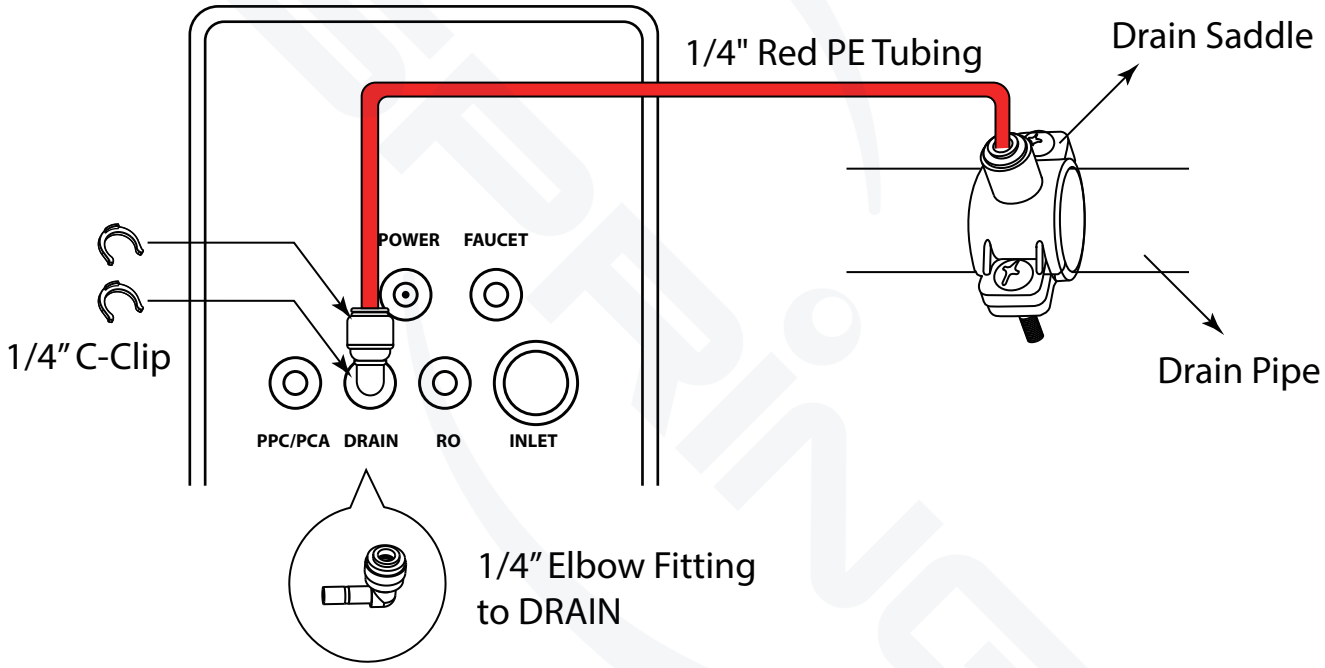
7. Plug the faucet wire to the system.



Drain Saddle Installation

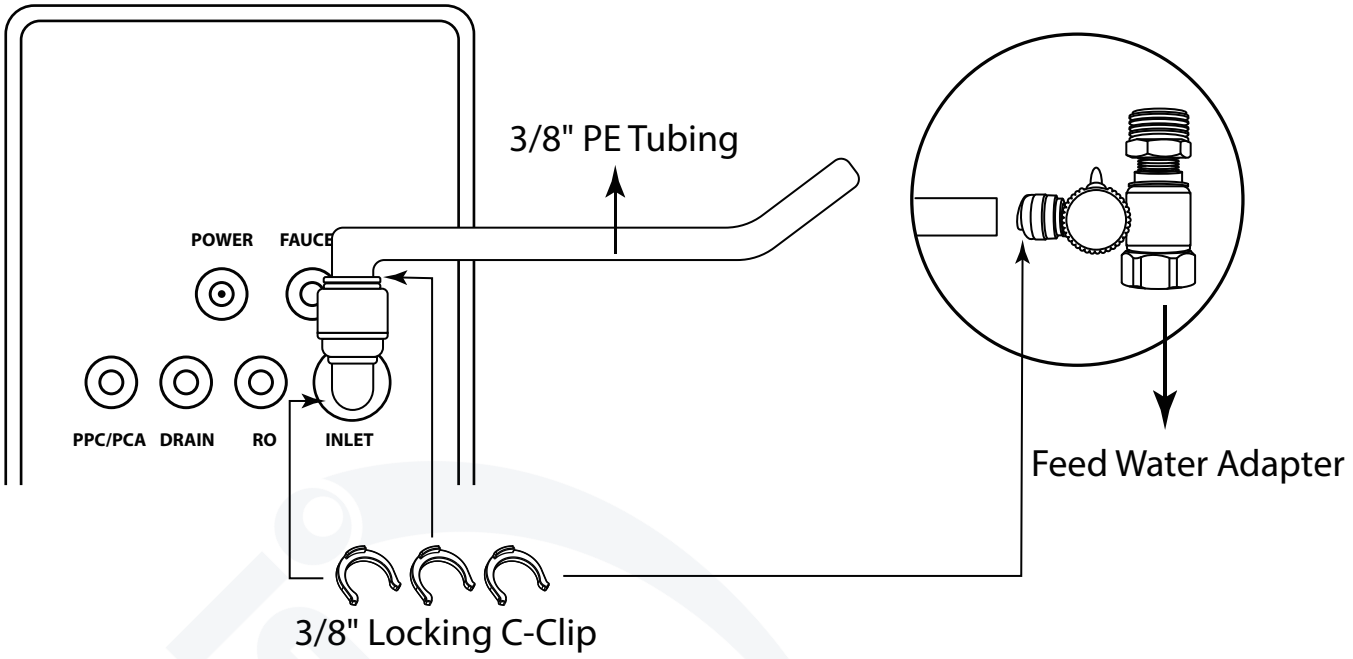
We recommend watching our video ***"iSpring RO System Drain Saddle ADS1K DIY Installation"*** on YouTube to better understand this process.

A. Choose a spot on the drainpipe that is convenient for installing the drain saddle and tubing. A horizontal pipe is recommended to minimize dripping sounds during use.
B. Drill a 1/4" hole in the drainpipe and paste the black sticky pad around the hole.
C. Cut the 1/4" red tubing end tip to make a 45-degree angle. Insert the tubing through the hole into the drainpipe. Then install the backplate and tighten the two screws with hex nuts while the tubing remains in the hole.
D. Insert the other end of the red tubing into the 1/4" elbow fitting, then insert the fitting stem into the port marked "Drain" on the system and secure it using the locking C-clips.

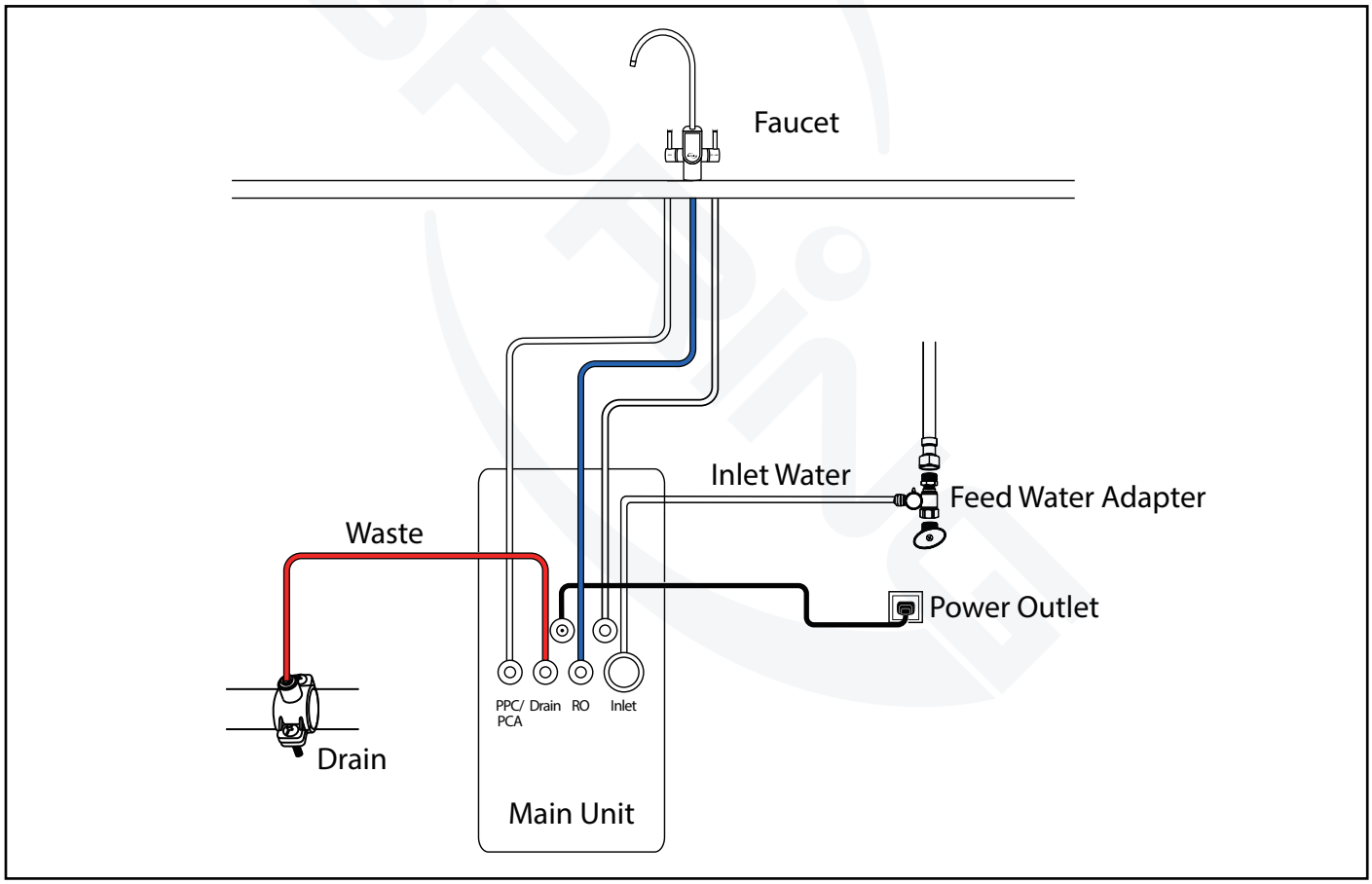


Inlet Water Tubing Connection

1. Turn off the feed water adapter.
2. Cut the 3/8" PE tubing to the appropriate length using a utility knife to connect it to the feed water adapter.
3. Insert the other end of the tube into the 3/8" elbow fitting, then plug the fitting stem end into the port marked "INLET" at the back of the system.
4. Secure the connection by inserting the enclosed 3/8" locking C-clips.



5. The complete connection is shown below.



System Startup

1. To start the system, plug in the power adapter, then turn on the feed water adapter. Turn on the faucet. Vibrations can be expected as the pump starts.
2. Turn on the faucet and let it run for about 15 minutes to flush the system. This should be done each time the filters are changed.
3. The system enters standby mode if the faucet is turned off.

Flushing and Water Production

1. System Startup Flush

Each time the system is powered on, it performs a 30-second automatic flush.

2. Automatic Flush During Standby

A. The system will perform an automatic 15-second flush when it has continuously produced water for 20 minutes and enters standby.

B. The system will perform a 30-second automatic flush after being on standby for every 24 hours.

C. The system will perform a 60-second automatic flushing once when the faucet has been turned off for 20 minutes.

3. Water Production

During water production, the filter lifespan indicator will be on. During this process, carefully check all fittings for secure connections. Once the rinsing is completed, turn it off and check for leaks again. If no leaks are present, the system is ready for use.

Screen Display and Control

Main System Display

Indicator and Button	Name	Indication and Operation
TDS	TDS (Total Dissolved Solids)	The total amount of dissolved solids in water.
PPM	PPM (Parts Per Million)	This value indicates how many milligrams of dissolved solids are present in one liter of water.
	TDS and Error Code Display	Indicates the TDS concentration and error code.
INLET/OUTLET	Inlet and Outlet Water Indicator	When the RO faucet is turned on, the system first displays the inlet water TDS, followed by the RO-filtered water TDS. The sensor may require up to 15 seconds to stabilize and recalibrate before providing an accurate measurement.
	RO Light and Filter Lifespan Indicator	Indicates filter lifespan by percentage. RO light flashes during system flushing. The RO light and lifespan indicator will be red when the lifespan is below 10%. The system beeps 5 times during operation if the filter lifespan indicator is red.
	PPC or PCA Light and Filter Lifespan Indicator	Indicates filter lifespan by percentage. PPC or PCA light flashes during system flushing. The PPC or PCA light and lifespan indicator will be red when the filter lifespan is below 10%. The system beeps 5 times during operation if the filter lifespan indicator is red.
	Flush and Filter Lifespan Indicator Reset Button	When the button is enabled, the buzzer will beep once.

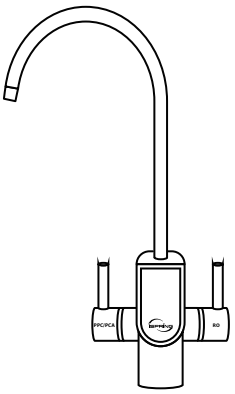
Faucet Display

Indicator	Name	Indication and Operation
	TDS and Error Code Display	Shows the TDS concentration and error code.
INLET/OUTLET	Inlet and Outlet Water Indicator	When the RO faucet is turned on, the system first displays the inlet water TDS, followed by the RO-filtered water TDS. The sensor may require up to 15 seconds to stabilize and recalibrate before providing an accurate measurement.
TDS	TDS (Total Dissolved Solids)	The total amount of dissolved solids in water.
PPM	PPM (Parts Per Million)	This value indicates how many milligrams of dissolved solids are present in one liter of water.
	Water Production Indicator	Flashes when the system starts up. Stays on during water production and stays off when the production is complete.
	Error Indicator	Stays on or flashes during system error. View the Troubleshooting chart to identify the error.
	PPC or PCA Filter Indicator	Stays on when the faucet is on for the PPC or PCA filtered water.
	RO Filter Indicator	Stays on when the faucet is on for the RO filtered water.

Faucet and Filtration Operation

This faucet features two independent outlets, each providing a different level of water filtration to suit various household needs.

- Left Handle – PPC or PCA Filtered Water
  - Filtration: Water passes through the PPC or PCA composite filter (first-stage filtration).
  - Recommended Use: Ideal for everyday tasks such as washing fruits and vegetables, or general cleaning.
  - TDS Display: When turning on PPC or PCA water, the system does not display the TDS.



Faucet

- Right Handle – RO Filtered Water
  - Filtration: Water is filtered through both the PPC or PCA composite filter and the RO (Reverse Osmosis) membrane for maximum purification.
  - Recommended Use: Suitable for direct consumption, including drinking, making tea or coffee, and preparing baby formula.
  - TDS Display: When the RO faucet is turned on, the system first displays the inlet water TDS, followed by the RO-filtered water TDS. The sensor may require up to 15 seconds to stabilize and recalibrate before providing an accurate measurement.

Handle	Filtration Level	Suggested Use
Left	PPC/PCA Only	Washing/Cleaning
Right	PPC/PCA + RO	Drinking/Cooking/Brewing

Filter Replacement

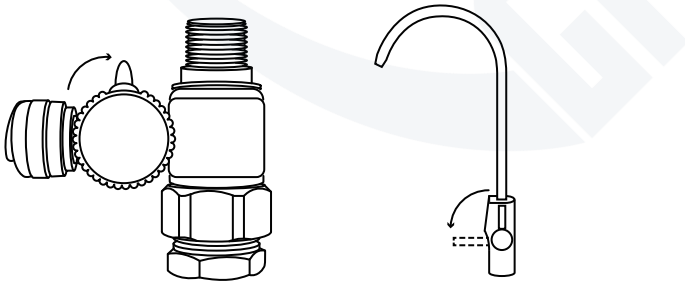
Filter Replacement Schedule

The filter lifespan varies depending on the water usage and source water quality. Follow the filter lifespan indicator on the system to replace filters accordingly.

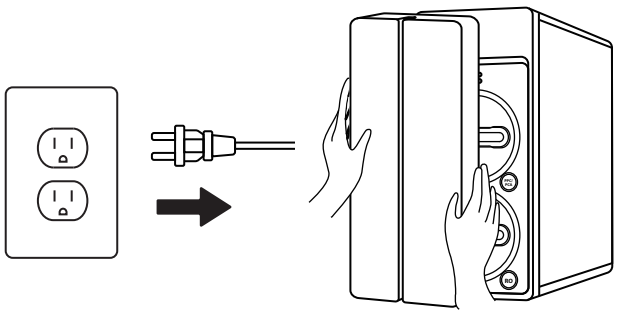
Filter Replacement Steps

The filter lifespan varies depending on the source water quality (e.g., family size, usage frequency). Follow the filter lifespan indicator on the system to replace filters accordingly.

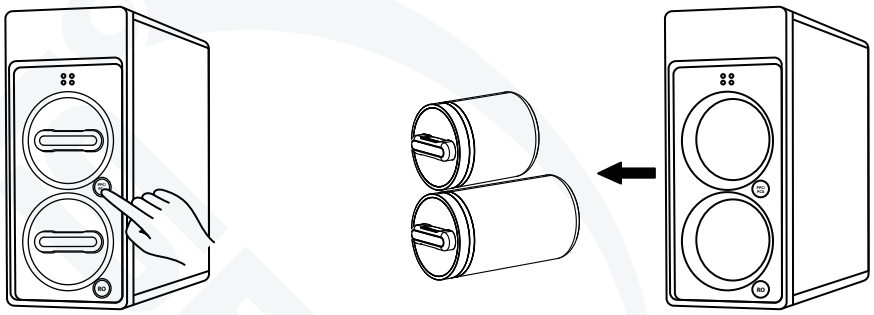
A. Shut off the water supply through the feed water adapter and turn on the faucet to drain the remaining water in the system.



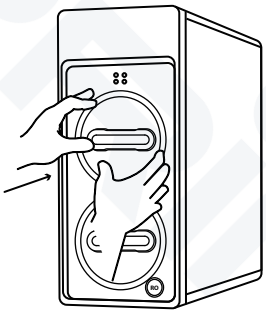
B. Unplug the system from the power supply and remove the front panel.



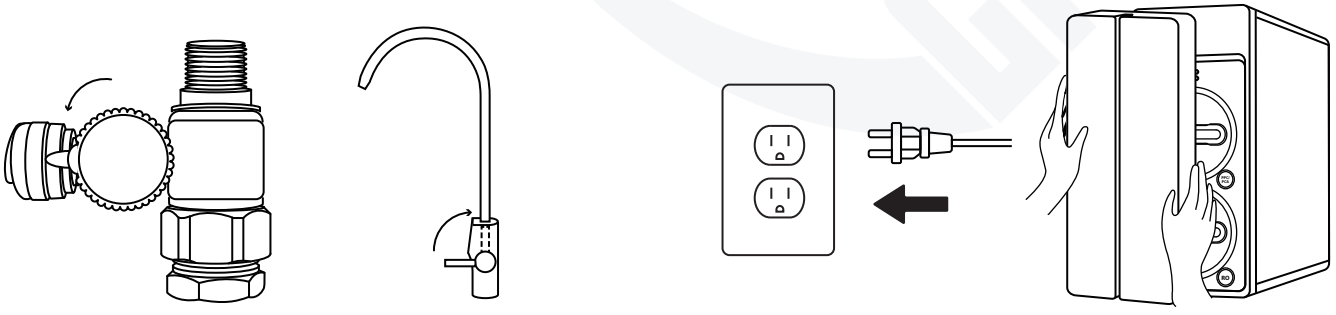
C. Firmly press the filter release button on the right for the corresponding filter; the filter will release and pop out. Then, remove the used filter from the slot.



D. Insert the new filter into the slot to the end.

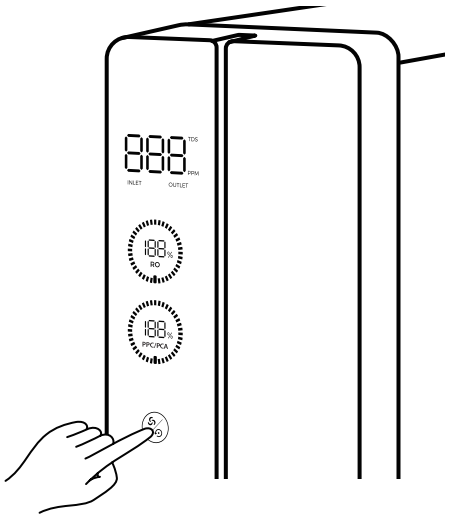


E. Turn on the water supply and plug the system into the power outlet.



Filter Replacement Steps

A. Reset the filter lifespan indicator by pressing the " " button on the screen. Press and hold the button until the filter icons flash. The system will beep to indicate that it has entered filter reset mode.
B. Press the " " button again to select the corresponding filter.
C. Once selected, press and hold " " to confirm reset. The system will beep, and the filter lifespan indicator will display 100%, indicating that the reset is complete.



Maintenance

Cleaning

Before cleaning, disconnect the power supply.

- Use only mild detergent or rubbing alcohol to clean the exterior surfaces.
- Avoid using harsh chemicals to prevent discoloration or damage.
- Confirm proper outlet flow after cleaning and power connection.

Daily Maintenance

- If the product has not been used for more than two days, open the purified water faucet and flush for 5 minutes before drinking.
- If the product will not be used for an extended period, turn off the water supply, disconnect the power, and open the faucet to drain any remaining water.

Troubleshooting

Issue	Possible Cause	Solution
No water output	Water supply not turned on	Turn on the water supply.
	Filter not installed correctly.	Reinstall the filter properly.
	System not fully connected to power.	Check the power connection.
	Loose wiring or poor contact	Check wire connections.
	Inlet solenoid valve not opening	Ensure the water supply valve is fully open.
Low water output	Filter expired	Replace the filter cartridge.
	Water pressure is too low, or the temperature is too low	Adjust feed water pressure or allow water to warm naturally.
	Tubing kinked	Straighten tubing or adjust routing.
	Filter flow reduction	Replace the filter.
The system does not stop producing water for a long time	Component failure	Shut off the water supply and power, contact iSpring customer service.
No raw water output	Drain line blockage	Close the feed water adapter and contact iSpring customer service.
Water tastes unusual	First-time use or long-term idle	After 20 minutes of flushing, the taste will return to normal. If not, replace the filter.
Leaking at the tubing connection	Tubing not fully inserted or fittings loose	Reconnect and install the tubing and the fittings.

Error Code and System Warning

Error Display	Possible Cause	System Warning	Solution
E05	Continuous water production for more than 60 minutes.	Buzzer beeps, and both faucet filter indicator and system filter light turn solid red. The faucet error indicator turns red.	Check for causes of long water-making time (low inlet pressure, clogged filters, etc.). Turn off the power, wait a few seconds, and restart the system to reset the error.
E06	The leak sensor detected a water leak.	Buzzer beeps, and both faucet filter indicator and system filter light turn solid red. The faucet error indicator turns red.	Inspect the system for leaks. • Fix leaking tubing or fittings. • Dry leak sensor area. • Once the leak sensor opens, the system auto-recovers.
E07	Inadequate inlet pressure	Buzzer beeps, and both faucet filter indicator and system filter light turn solid red. The faucet error indicator turns red.	Check household water supply; ensure inlet valve is open; remove kinks/blocks in tubing; when pressure returns, system operates normally.
E09	The front panel display may be off.	The front panel is poorly connected.	• Remove and reinstall the front panel to reseat connectors. • Ensure all contact points are firmly engaged. • After good contact is restored, the error clears automatically.

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