

UNDER SINK

iSpring RO10001F Reverse Osmosis Drinking Water System



Model: RO10001F

Installation Instructions & User Manual

Ver. 03/2026



iSpring Water Systems

Any questions?
Scan the QR code
for support.



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Prior to Installation

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

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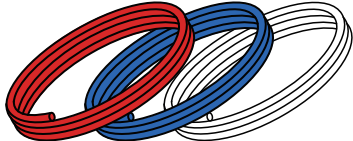
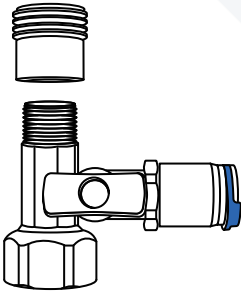
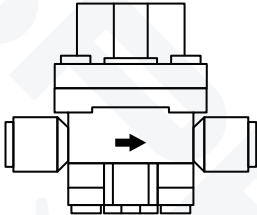
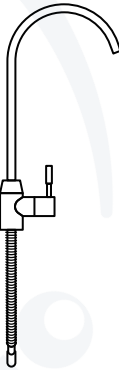
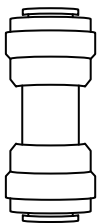
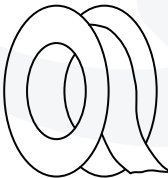
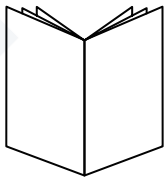
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User Information

Install and operate this product only in accordance with the Product Installation and Operation Manual. iSpring is not responsible for damage, loss, or injury caused by neglect, improper maintenance, or unauthorized modification.

- Place the system on a flat surface only. Do not wall mount.
- 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. If the water temperature or ambient temperature falls below 41°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, shut off the water supply, unplug the system, and contact iSpring customer service.
- 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.

List of Components

			
Main Unit	All-in-One Composite Filter (Model #FPCM1000)	3/8" Tubing Set (Red, Blue, and White)	
			
Feed Water Adapter (Model #AFW38)	3/8" Pressure Regulator (Model #APR50-3)	Faucet with Installation Kit	3/8" Drain Saddle (Model #ADS3K)
			
3/8" Quick-Connect Union Fitting (Model #0606UC)	3/8" Locking C-Clip (Model #ALC2) X 9	Plumber's Tape (Model #ATAPE50)	User Manual

Technical Specifications

Rated Voltage	120 V, 60 Hz
Rated Power	108 W
Rated Current	4.5 A (Max. 5 A)
Net Dimensions	17.7 × 7.1 × 10.3 in.
Inlet Water Temperature	41–100°F
Inlet Water Pressure	15–60 psi
Water Flow Rate	0.69 GPM

Installation Preparation

Please check the packing list 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.
4. Ensure there is a dedicated installation space under the sink. If not, drilling may be required.
5. Do not install the system in direct sunlight or in areas containing chemical vapors.
6. Check the contents of the package to ensure all parts are included (refer to the packing list for details).
7. Before installation, prepare the following tools:



Plumber's
Tape



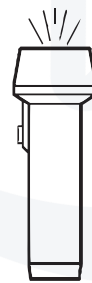
Screw
Driver



Spanner
Wrench



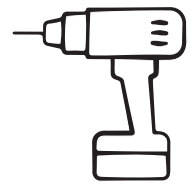
Utility
Knife



Flash
Light



Towels



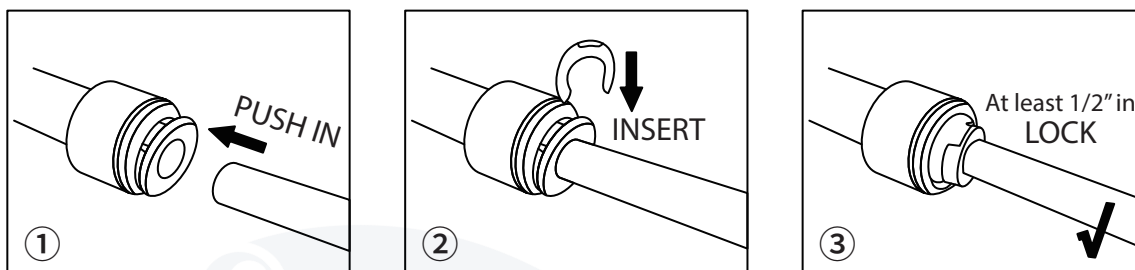
Electric
Drill

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

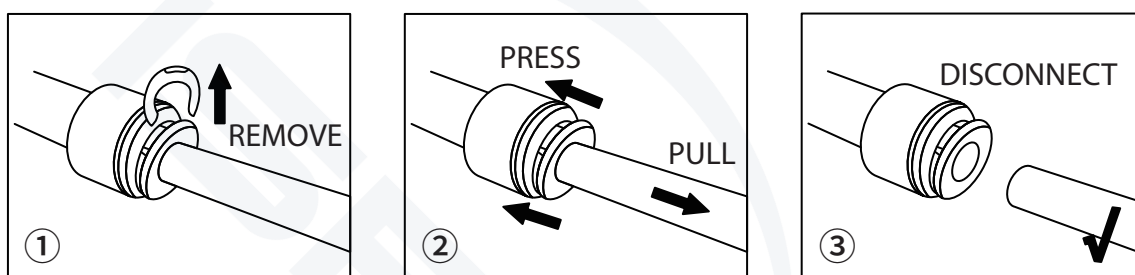
Installation

Quick-Connect Instruction

HOW TO CONNECT



HOW TO DISCONNECT

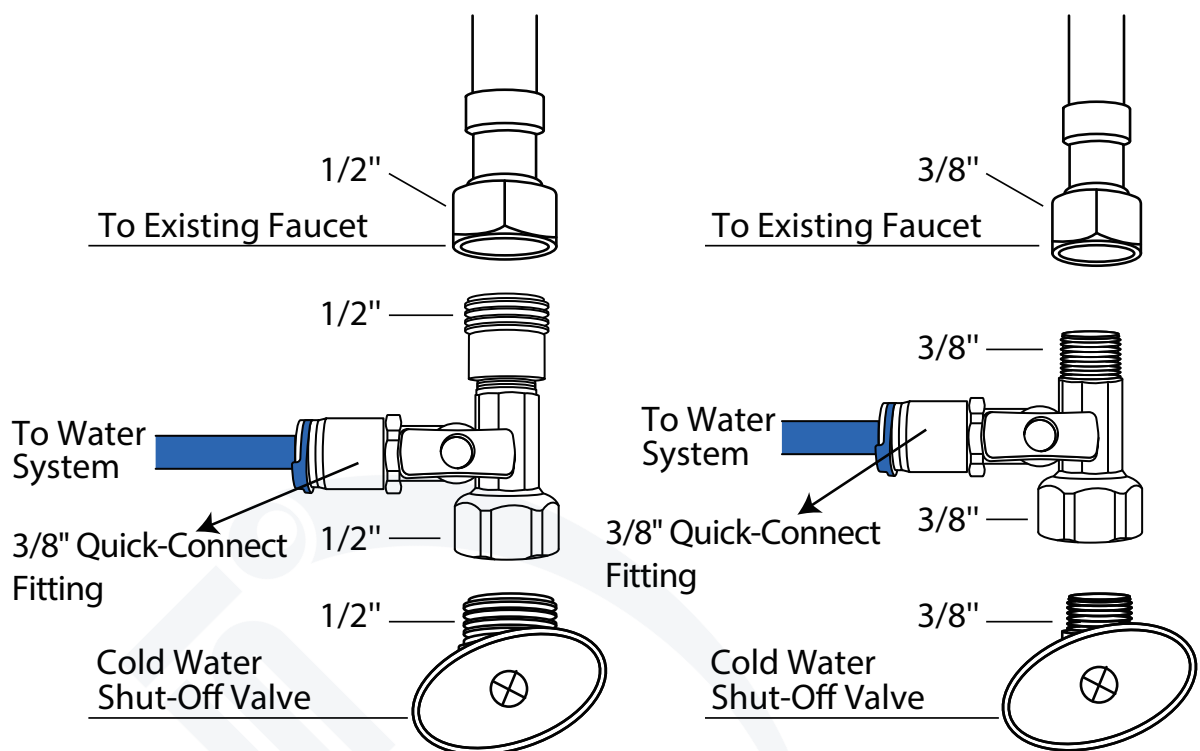


We recommend watching our YouTube video ***"How to Connect and Disconnect Quick Connect Fittings | DIY Installation"*** for your reference.

Feed Water Adapter Installation

We recommend watching our YouTube video ***"How to Install a Feed Water Adapter for Reverse Osmosis (RO) and Other Applications | iSpring AFW38"*** for guidance.

- 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.
- 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 properly inside the adapter to ensure a tight seal.
- 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.
- Connect the blue tubing to the Feed Water Adapter.



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 3/8" hole in the drainpipe and paste the sticky pad around the hole.
- C. Cut the red tubing evenly. 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 port marked "Drain" on the system and secure it using the locking C-clip.

Faucet Installation

If your kitchen sink does not have an existing hole for the drinking faucet, you may need to drill one (Refer to **How to Drill a Hole in a Sink or Countertop**) 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, as shown in the image below.

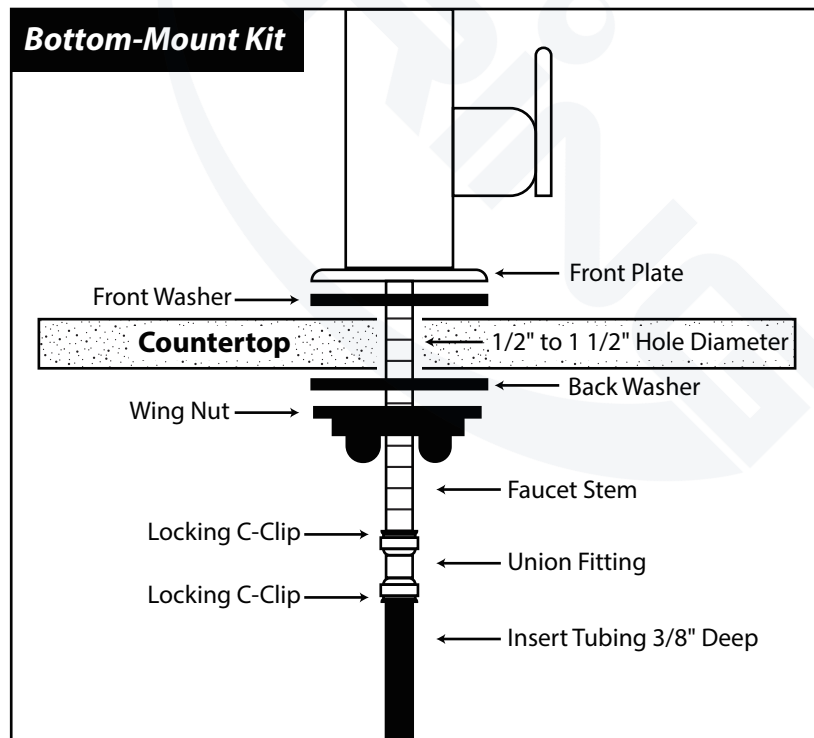
Drilling a Hole in the Sink or Countertop (Optional)

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 1 1/2 inches 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".

■ Faucet Connection

- 1. Insert the mounting plate with the washer underneath, then secure the faucet body with the mounting nut.
- 2. Insert the union connector on the faucet and connect it with the white tubing. Secure all connections using locking C-clips.
- 3. Insert the white tubing into the port marked "OUT" on the system.



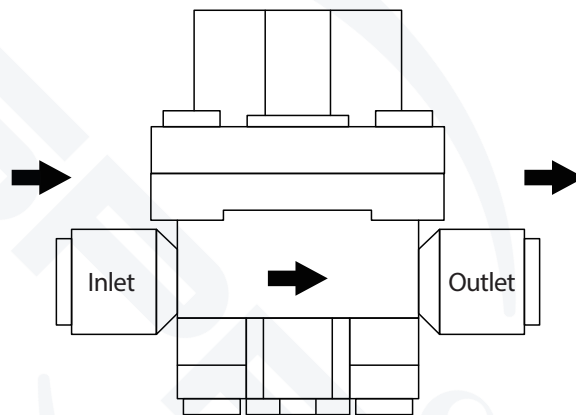
- 4. Secure all connections using locking C-clips.

Pressure Regulator Installation

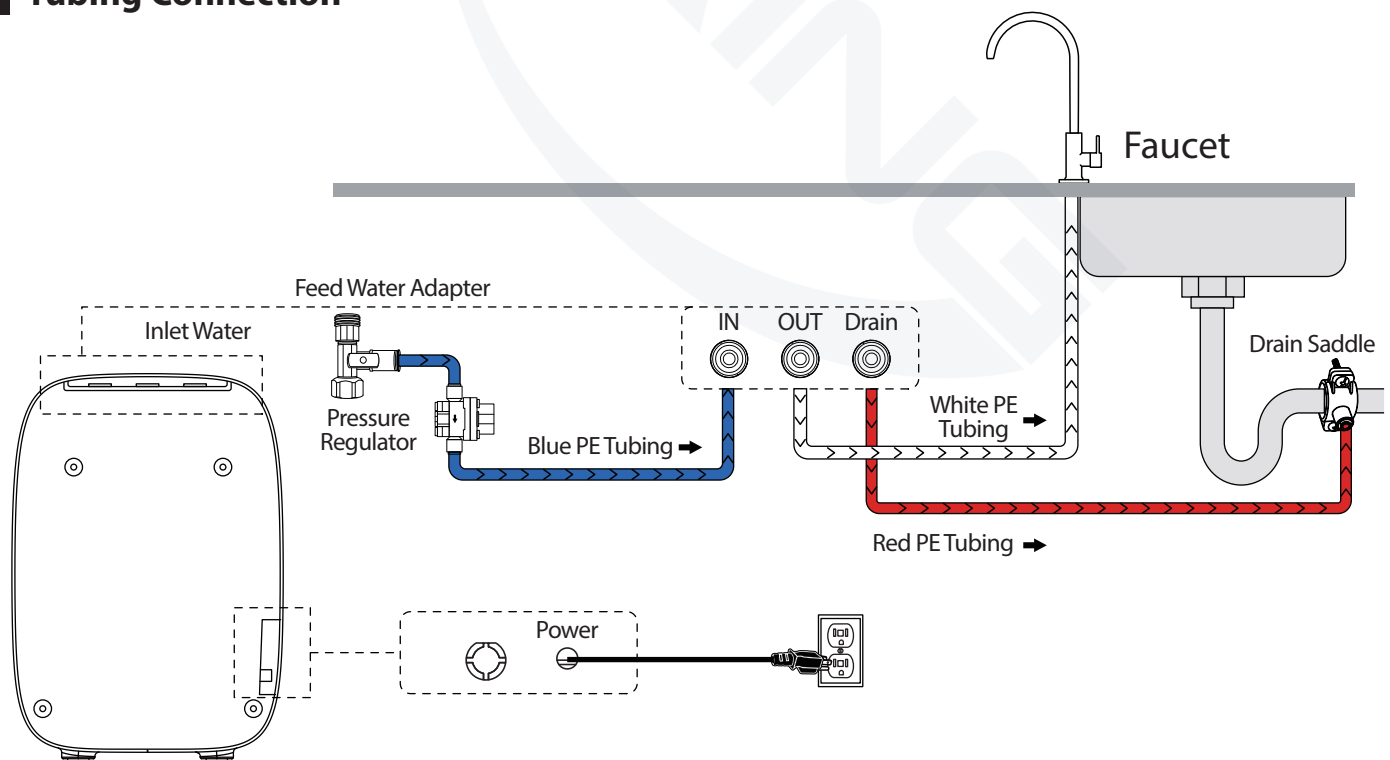
A Pressure Regulator is included to help support optimal system performance. Install the regulator on the inlet water line to ensure the system runs within the recommended inlet water pressure range.

1. Measure the length of the blue 3/8" PE tubing and cut it to the appropriate length using a utility knife to connect the regulator inlet (IN) with the feed water adapter.
2. Connect the regulator outlet (OUT) with the port marked "IN" on the system using the rest of the blue tubing.
3. Secure the connection by inserting the enclosed 3/8" locking C-clip.

! Note: The inlet water pressure range for the Pressure Regulator is 14.5–174 psi.



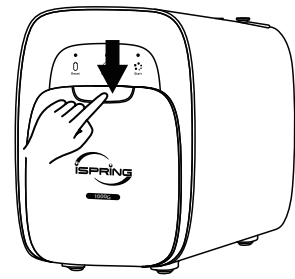
Tubing Connection



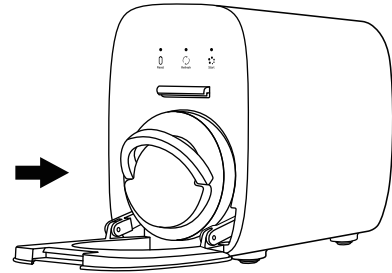
Filter Installation and Replacement

The filter is already pre-installed in the system and needs to be unwrapped before using.

A. Press down firmly on the **front panel**. The filter will be released as the panel opens.



B. To replace the filter, remove the used filter cartridge by pulling the ring attached to the filter. Then insert the new **filter cartridge** into the system until it is securely seated.



C. Make sure the panel is securely closed and latched to the system.

Filter Replacement

1. Turn off the feed water adapter and disconnect the power adapter.
2. Press down firmly on the front panel to open. Remove the filter.
3. Insert the corresponding filter into the slot. Close the front cover.
4. Press and hold the filter reset button until you hear a beep and the filter lifespan indicator turns solid blue.
5. Connect the system back to power to perform a system startup flushing.

System Startup

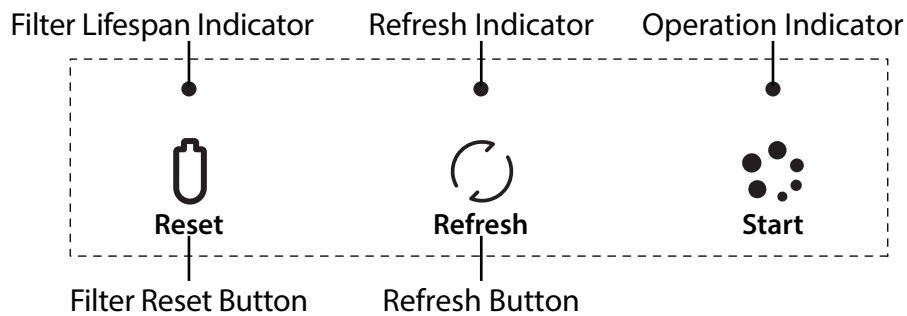
When using the system for the first time or after replacing the filter cartridge, the filter **must be flushed** before regular use.

- Turn on the faucet and keep the system running for at least 20 minutes. Do not consume the water during system startup.

If the above procedure cannot be followed:

The system is preset to operate with Refresh Mode, which automatically refreshes the system every 24 hours of inactivity. To disable Refresh Mode, press and hold the Refresh indicator for 3 seconds. The indicator light will turn off, confirming that the function has been disabled.

System Display



Indicator/Button	Status/Function	Description
Filter Lifespan Indicator	Solid blue	Filter Lifespan is normal
	Flashing red	Filter replacement is recommended soon
	Solid red	Replace filter immediately
Refresh Indicator	OFF	Refresh mode is disabled
	Solid blue	Refresh mode is active
Operation Indicator	OFF	Unit is not powered
	Solid blue	Unit is powered and operating normally
	Flashing red	Leakage detected
 Reset Filter Reset Button	Reset filter	To reset the filter, press and hold the button until you hear a beep and the filter life indicator turns solid blue.
 Refresh Refresh Button	Enable or disable refresh mode	To turn the refresh mode on or off, press and hold the button until you hear a beep and the refresh indicator turns solid blue. The indicator will be off when the refresh mode is off.

Maintenance

Cleaning

Before cleaning, disconnect the power supply.

- Use water and a soft cloth to clean the exterior surfaces.
- Avoid using harsh chemicals to prevent discoloration or damage.

Daily Maintenance

- 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.
- To resume using, reconnect the power and open the water faucet. Flush until the water is clean before drinking.

Timeout Protection

- When the system is powered on for the first time, or after the filter cartridge has been reset, **timeout protection** is activated if the system runs continuously for **1 hour**.
- During normal operation (not first-time use and not after a filter reset), timeout protection is activated if the system runs continuously for **15 minutes**.

When timeout protection is triggered, the system will automatically stop operation to protect internal components.

Troubleshooting

Issue	Possible Cause	Solution
System does not start	Power supply not connected	Check whether the power plug is loose or unplugged.
System leaking	Damaged component	Immediately disconnect the power supply, shut off or feed water adapter, and contact iSpring Customer Service.
	PE tubing not properly connected	Check whether all tubing connections are secure.

Issue	Possible Cause	Solution
System starts but no water from faucet	Cold-water supply valve or feed water adapter is closed	Open the corresponding valve fully.
	Water tubing is bent or kinked	Check inlet, drain, and tubing connections for bends or incorrect connections.
	Feed water adapter not fully open	Ensure the feed water adapter is fully open.
	Filter cartridge clogged	Replace the filter cartridge or contact iSpring Customer Service.
Poor water quality	Filter cartridge exhausted	Replace the filter cartridge or contact iSpring Customer Service.
	Poor inlet water quality	Confirm municipal water quality conditions and consider installing a pre-treatment system.
System does not stop or cycles ON/OFF repeatedly	Faucet not fully closed	Fully close the faucet.
System beeps and all indicators flash red	Timeout Protection	Unplug the power and reconnect the system to resume normal use.
System beeps and operation Indicator flashes red	Leak Protection	Unplug the power and check if there's any leakage.



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