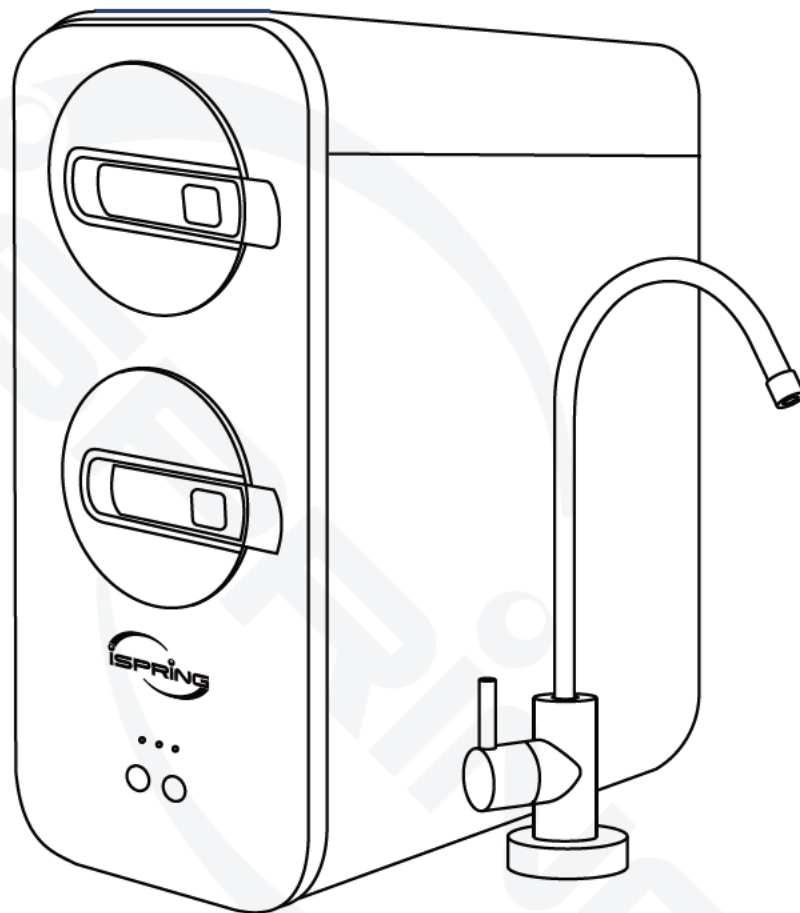


UNDER SINK

iSpring 800 GPD Reverse Osmosis Water Filtration System



Model: RO800G

Installation Instructions & User Manual

Ver. 12/2024



Any questions?
Scan the QR code
for support



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We stand behind our products

Since 2005, 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.

Before Installation

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

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Important User Information

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

- Place the product only on flat surfaces. Do not mount on a wall.
- This product is designed for residential use only. Contact iSpring customer service to inquire about usage in non-residential settings.
- The operating temperature range is 41°F - 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.
- In case of malfunction due to damage or failure of the power outlet, 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 comes with a built-in leak-stop device to prevent internal leaks and minimize the risk of water damage. However, we recommend 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.

Product Introduction

1 Product Knowledge

- For residential use ONLY.
- Applicable water source: municipal.

Parameters	
Inlet Water Pressure	15 - 70 psi
Working Temperature	41–100°F
Flow Rate of Purified Water	Up to 0.6 gal/min
Power Specifications	Input: 100 - 240 V AC
	Output: 24 V DC

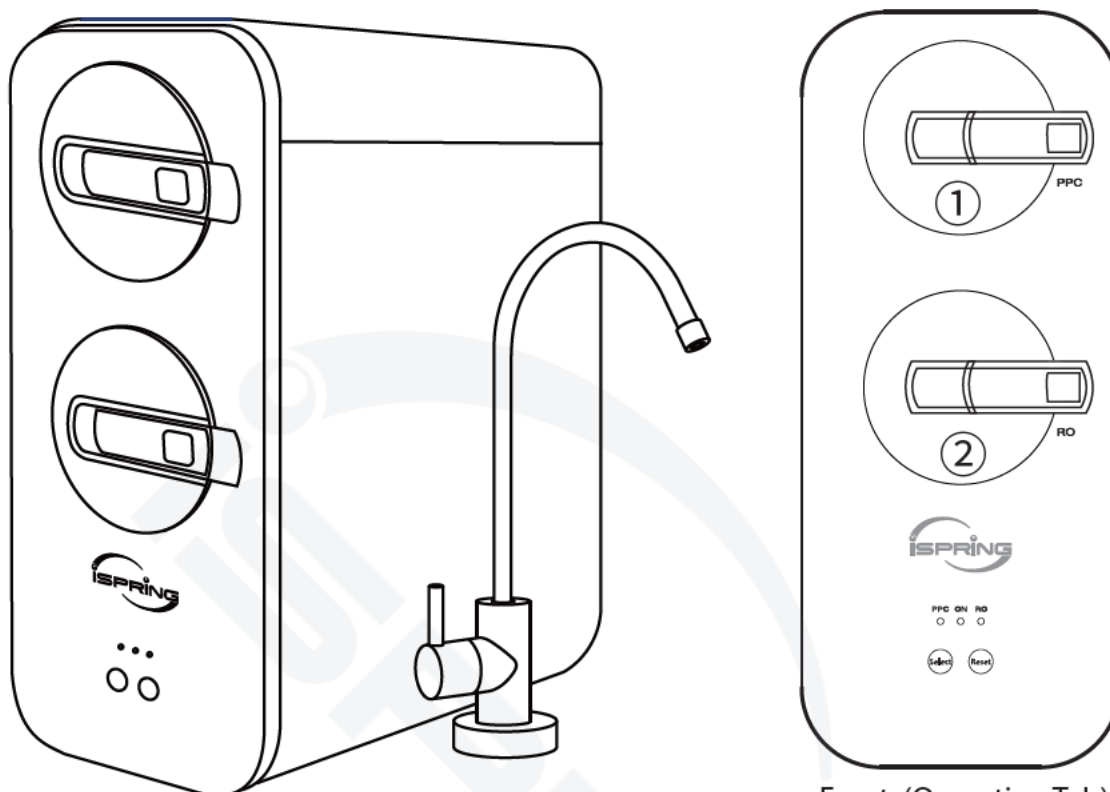
Operating Specifications:

- Up to 0.6 gallons per minute flow rate.
- Up to 95% rejection rate.
- Up to 2.5 to 1 pure to drain ratio.
- Note: Results were tested at 60 psi water pressure and 150 ppm (parts per million) at 77°F. Actual performance varies based on source water quality.

Filtration Specifications:

Stage	Filter Cartridge	Purpose
1 st	PP + CTO (PPC) Composite Filter (Model #FPPC)	Removes chlorine, unpleasant taste and odor, cloudiness, discoloration, dirt, sand, silt, rust, and scale particles. Absorbs Trihalomethanes (THMs) and pesticides.
2 nd	Reverse Osmosis (RO) Membrane (Model #MRO800)	Removes lead, fluoride, arsenic, hormones, asbestos, calcium, sodium, and more using a 0.0001-micron membrane.

2 Structure Diagram

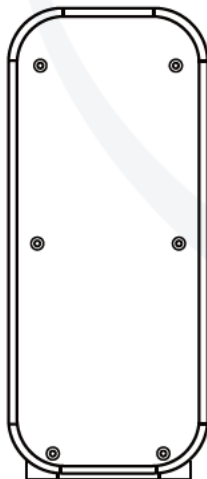


Front (Operation Tab)

- ① PPC Composite Filter (Model #FPPC)
- ② RO Membrane (Model #MRO800)



Top View



Back View



Side View

Product Use Instruction

Warning

This instruction includes essential product safety information. Please read this manual thoroughly before installation. Failure to follow the listed precautions may result in personal injury and property damage.



Keep out of children's reach



Keep away from flammable items



Avoid sunlight and freezing temperatures

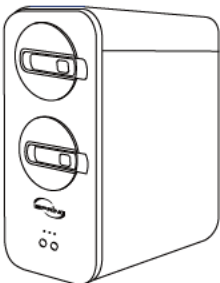


Use with municipal water only

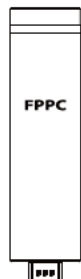


Replace filters on time

Packing List



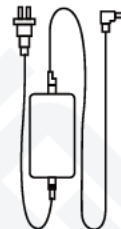
Main System



PPC Composite Filter
(Model #FPPC)



RO Membrane
(Model #MRO800)



Power Adapter



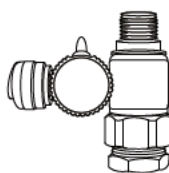
3/8" White PE Tube



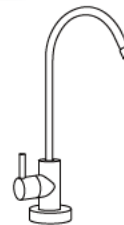
Locking C-Clips



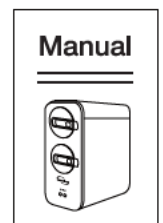
1/4" PE Tube in Red and Blue



Feed Water Adapter
(Model #AFW38)



Faucet



Product Manual

System Installation

Installation Preparation

- We recommend watching our YouTube video **"How to Install iSpring RO800 Series Tankless RO Under Sink Water Filter | DIY Installation"** before beginning the installation.
- Check and ensure the package is in good condition and includes all items on the Product Component List. Contact iSpring Customer Service if any parts are missing.
- Install the system on a flat surface.
- Keep it away from direct sunlight and freezing temperatures with direct access to a power outlet.
- Tools required for installation:



Plumber's Tape



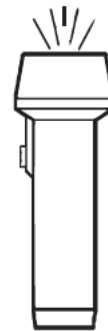
Screw Driver



Spanner Wrench



Utility Knife



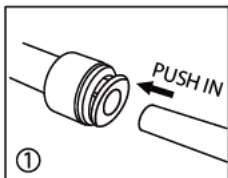
Flash Light



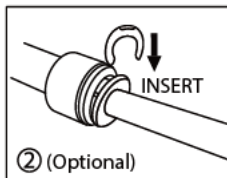
Towels

- Quick-connect Fitting Instruction:

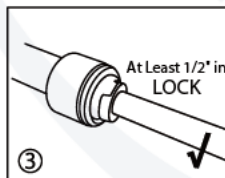
HOW TO CONNECT



①

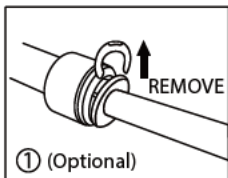


② (Optional)

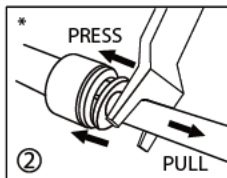


③

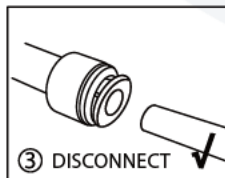
HOW TO DISCONNECT



① (Optional)



②



③

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

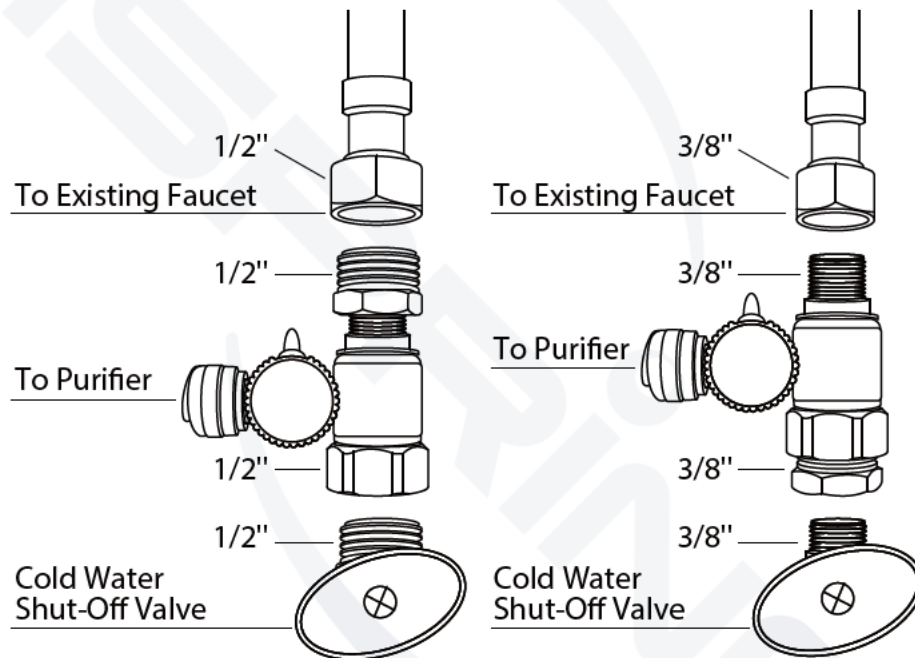
Cut the tubing end evenly with a utility knife or scissors. Insert the tubing into the quick-connect fitting for at least 1/2". Twist the tube slightly and apply pressure to create a seal.

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

Install the Feed Water Adapter (Model #AFW38)

We recommend watching our video **"How to Install a Feed Water Adapter for Reverse Osmosis (RO) and Other Applications | iSpring AFW43"** on YouTube for your reference.

- Shut off the cold-water shut-off valve and unscrew the kitchen faucet connector pipe.
- Install the feed water adapter on the cold-water shut-off valve and tighten it with a wrench. An O-ring should sit inside the adapter.
- Reinstall the kitchen faucet connector pipe on the feed water adapter and tighten it. An O-ring should sit inside the hose cap.
- Refer to the diagram below and make sure the connection is correct. Note that the bushing is installed in separate locations based on the actual plumbing setup (3/8" pipe and 1/2" pipe). The 3/8" quick-connect fitting end should ALWAYS connect to the white PE tube that goes to the water inlet port and is not dependent on the existing fitting size.



The included bushing can be threaded on either side of the AFW38 to the 3/8" COMP and 1/2" NPT configuration.

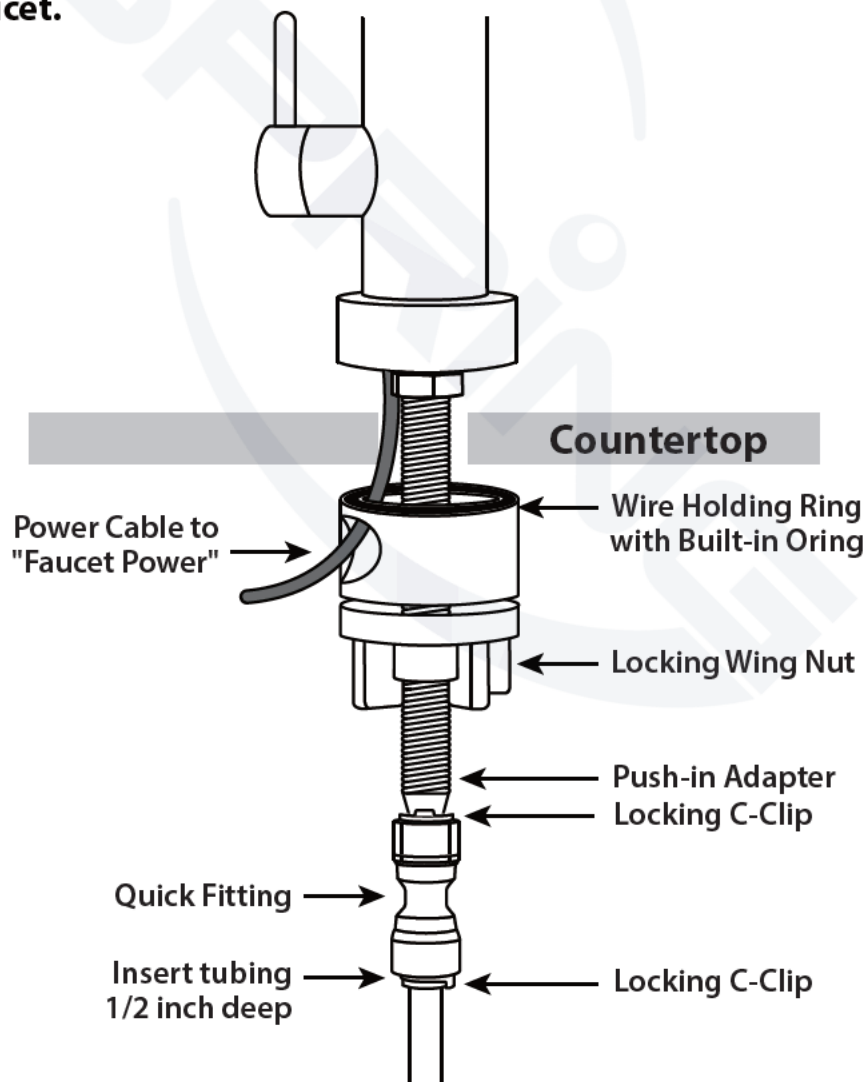
Install the Faucet

Use the diagram at the end of this section to install your faucet if your countertop has a 1" faucet hole. If your sink or countertop doesn't have a 1" hole, follow the steps below.

How to drill a 1" hole in your sink or counter-top

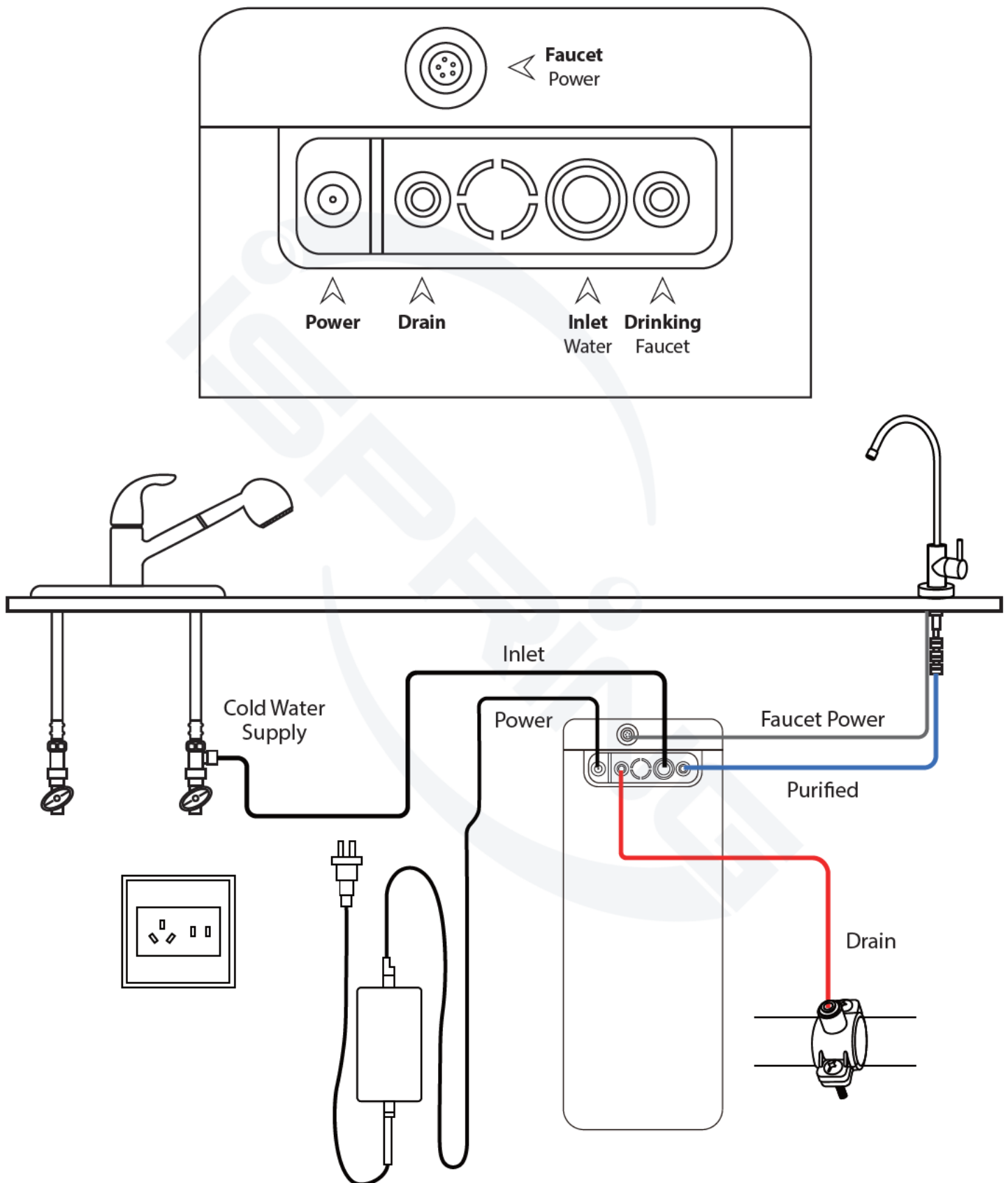
- a** Depending on the type and thickness of your countertop where the hole will be drilled, you may ask an experienced professional to ensure the hole is drilled correctly.
- b** Choose a 0.5-inch Diamond Core Bit for granite and a titanium drill bit for steel.
- c** Make an indent with a punch before drilling to help guide the bit. *
* Do NOT hammer drill on natural stone, glass, or ceramic.
- d** Be careful when drilling on a Porcelain sink, as it can easily chip. Set the drill speed to the lowest and press the bit vertically to the countertop until it breaks through the surface. Some people find it easier to secure the bit by drilling through a piece of wood firmly pressed on the surface.
- e** Use coolant to disperse heat: water for granite and oil for steel. Use a Water Suction Cup to hold the coolant inside and prevent the drill bit from slipping.
- f** Once you break through the smooth surface, swirl the drill slightly to apply pressure evenly in a circle. Drilling one inch can take 20 to 40 minutes.

Once you have cleaned up the surface and have a 1" hole ready, use the diagram above to install your faucet.



Connect the System to the Power Cable and PE Tube

Refer to the following diagram for installation



- a** Cut the **WHITE** 3/8" tube to the length needed for connection using a utility knife.
- b** Insert one end of the tube into the feed water adapter with quick-connect fitting. Ensure at least 1/2" of the tube is inserted. Secure the connection with a 3/8" locking C-clip.

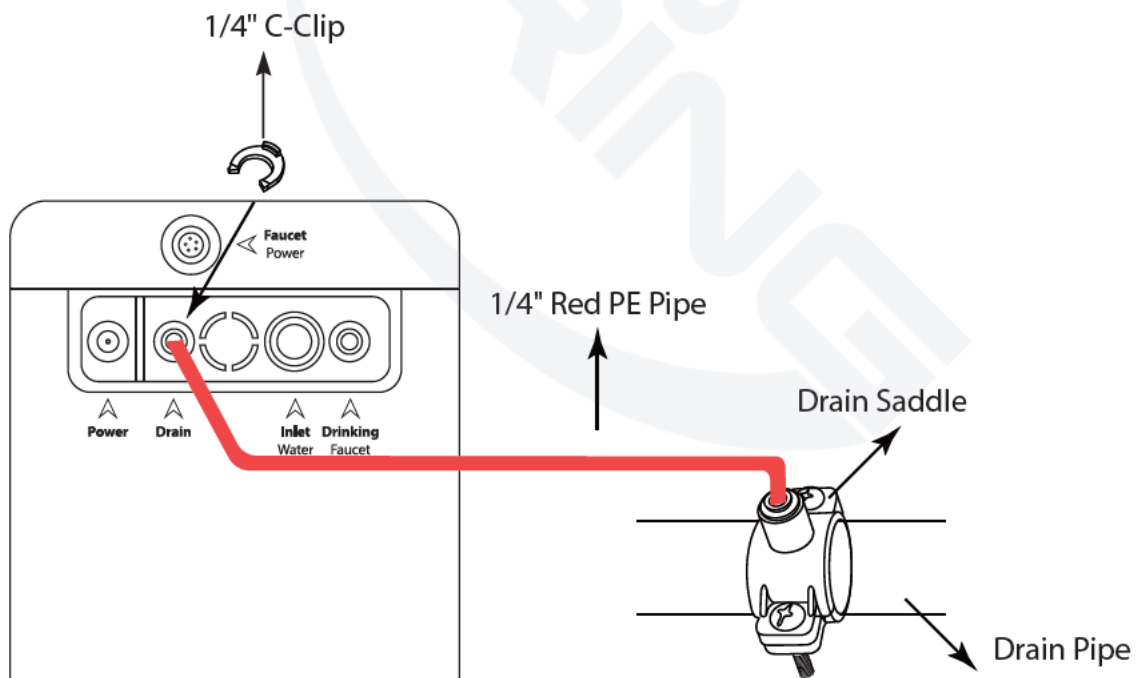


Note: You should not be able to pull out the tube without releasing the quick-connect fitting connection.

- c** Insert the other end of the WHITE tube into the 3/8" port labeled "Inlet Water". Ensure at least 1/2" of the tube is inserted. Secure the connection with 3/8" locking C-clips.
- d** Cut the 1/4" **BLUE** tube and 1/4" **RED** tube to the length needed. Connect the blue tube to the faucet and the red tube to the drain.
- e** Insert the blue tube into the 1/4" port labeled "Drinking Faucet". Insert the red tube to the port labeled "Drain" at the top of the system. Secure both with 1/4" locking C-clips.
- f** Connect the other end of the blue tube to the smart faucet installed with a 1/4" quick-connect fitting. Ensure at least 1/2" of the tube is inserted into the faucet fitting. Secure the connection by inserting a 1/4" locking C-clip.

Choose a spot on the drainpipe for the drain saddle. A horizontal section is recommended to avoid dripping sounds during operation.

- a** Drill a 1/4" hole in an ideal location on your drainpipe.
- b** Paste the black sticky pad that comes with the drain saddle package around the hole.



- c** Cut the end of the 1/4" RED tube in a 45-degree angle.
- d** Insert the tube on the quick-connect fitting connection on the drain saddle.
- e** Insert the tube through the hole on the drainpipe and lock the connection with a locking C-clip.
- f** Install the backplate and tighten it with 2 screws with hex nuts while the tube is in place.
- g** Once the backplate is installed, lightly pull the tube to ensure it is secure.

System Operation and Maintenance

System Startup

When using your RO system for the first time, you are always advised to flush the membrane by running the system.

- 1** Plug the system into an outlet and turn on the feed water adapter. Proceed to turn on the faucet. Slight vibrations are expected as the built-in pump starts.
- 2** Turn on the faucet and let the faucet water run for 30 minutes.



Note: Step 2 should be done each time a PPC filter is replaced. Refer to the "Operation Tab" section below for more information about flushing the system after replacing the membrane.

- 3** Carefully check all fittings for a secure connection. Wipe clean with a paper towel and verify that there are no connection leaks.
- 4** The system is ready for use once manual flushing is completed and no leaks are presented.

Operation Tab

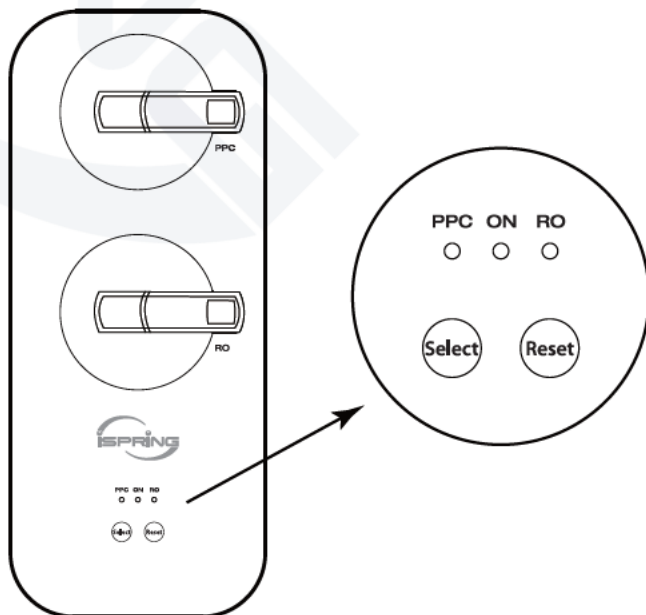
The operation tab is on the system's front surface. It has 3 indicators indicating system performance and filter life and 2 buttons at the bottom.

Flush Option:

Press the "Select" button for 5 seconds. The machine will start the flush process that lasts for 30 seconds. During the process, the red light will flash.

System "ON" Indicator:

The white light flashes when the system is running and dispenses filtered water. This light remains on when the system is in standby mode.



Filter Lifespan Indicators:

The PPC and RO indicators on the operation tab indicate the lifespan of the corresponding filter. The indicators remain white during normal operations and blink when the lifespan is less than 10%. They turn red when the lifespan ends and must be replaced immediately.



Note: The filter lifespan indicator must be reset each time a filter is replaced; otherwise, the indicators will not respond to filter replacement.

To replace a filter:

- 1 Shut off the water supply and turn on the faucet to drain the remaining water.
- 2 Unplug the power adapter.
- 3 Press the button on the filter to unlock the filter.
- 4 Remove the new filter package and insert it into the system, ensuring it is locked.
- 5 After replacing the filter, press and hold the "Reset" button for 3 seconds to enter the reset mode; by default, the indicator light of the "PPC" filter will flash red and beep once.
- 6 Short-press the "Select" button and select the filter that needs to be reset. **If you are replacing another filter, repeat this step for the reset.**

Filter Lifespan Display:

Lifespan	Filter Life Indicators	Faucet Light When the System is on	Buzzer
Normal	Solid White	Solid Blue	None
<10%	Flashing White	Flashing Red	None
End	Solid Red	Solid Red	Sounds 10 times

Routine Maintenance

The filter lifespan varies depending on the source water quality (such as family size, usage frequency, etc.). Filters should not be used after the maximum suggested data.

Filter Lifespan	
PP + CTO Composite Filter (Model #FPPC)	6-12 months
RO Membrane (Model #MRO800)	24-36 months



Note: Failure to replace the filters on time will void the warranty and may damage or leak the system, leading to further damage to the property where the system is installed.

Malfunction Inspection

Error Codes	Reminder			Solution
	"On" Light	Faucet Light	Buzzer	
E1: Timeout protection for continuous pump operation. Water Dispensing >30 min.	Flashing Red	Flashing Red	The buzzer will sound for 1 minute.	Shut off the faucet, then reconnect the power supply.
E2: Water leakage protection.	Solid Red	Flashing Red	The buzzer will sound for 1 minute.	Identify leakage source. Once corrected, reconnect the power supply.

Malfunction	Possible Issue	Possible Solution
No water output	The water inlet valve might be off	Turn on the water supply
	The filter was not installed correctly	Correct assemble the filter
	The system is not connected to the power supply	Check the power source
Less water output	The connection tube is twisted or bent	Check all connections
	The inlet valve is too small and not entirely open	Open the water inlet valve completely
	Low water temperature	When the temperature decreases, the water purified amount will decrease accordingly, which is a normal phenomenon
	The filter exceeds its service life	Replace the filter
System keeps running	Fitting issue	Close the inlet valve and unplug the system; contact iSpring customer service
No output through the drain	The drain is blocked	Close the inlet valve and unplug the system; contact iSpring customer service
	The filter exceeds its service life	Replace the filter
Smell in water	System have not been used for too long	Run the system to dispense water for 20 minutes; repeat twice before you can drink the water
Leakage in connections	The tube is not fully inserted into the bottom of the quick-connect fitting	Reconnect the tube to the quick-connect fitting



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