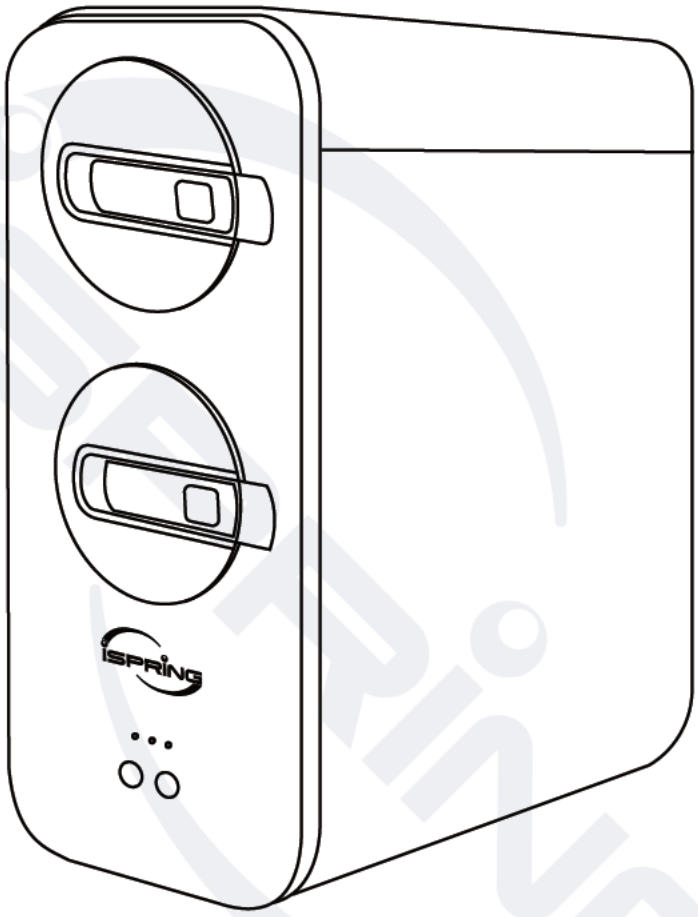
UNDER SINK

iSpring 800 GPD Reverse Osmosis Water Filtration System



Model: RO800G / RO800G-SEA

Installation Instructions & User Manual

Ver. 03/2024

iSpring Water Systems

Any questions?
Scan the QR code
for support.

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We stand behind our products

Since 2005, iSpring has been dedicated to providing high-quality drinking water to families across the United States. We offer various residential faucets and water filtration systems that purify your water in everyday life and deliver pure, healthy, and tasty water to you and your family.

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 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.

- The unit should be placed 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 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 is equipped with a built-in leak-stop device 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.

Product Introduction

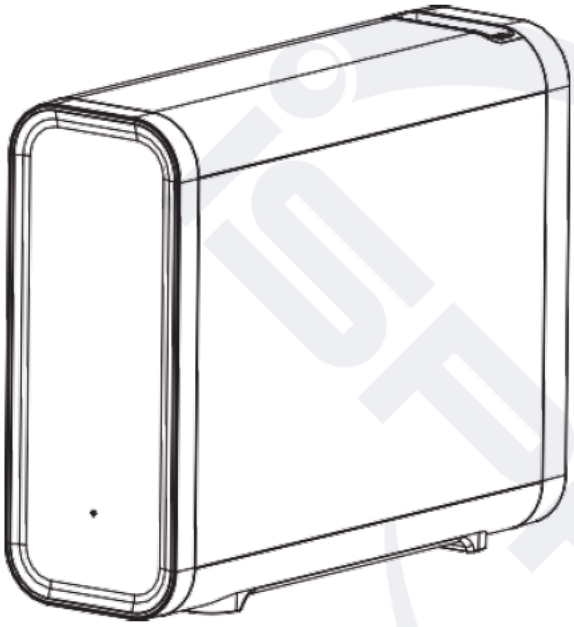
	Specification
Working Pressure	15 - 70 psi
Working Temperature	41–100°F
Flow Rate of Purified Water	Up to 0.6 gal./min.
Power Specifications	Input: 100-240 V AC
	Output: 24 V DC

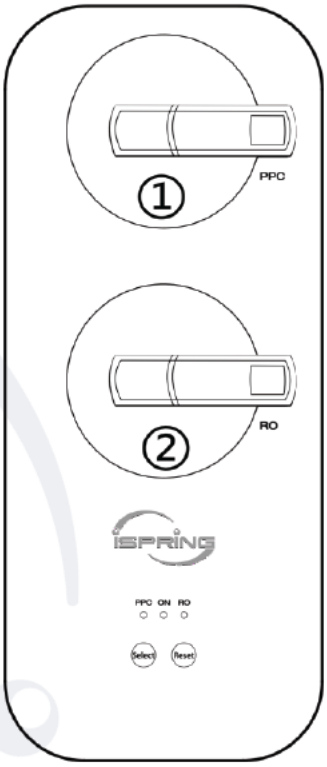
• Instant treated water accessibility – no tank, no wait. Up to 0.6 gallons per minute flow rate.*
• Up to 95% rejection rate.*
• Easy twist-off filters without cutting off the water supply. – Filter changed in seconds.
• Up to 2.5 to 1 pure to drain ratio.*
• Plug and play with automatic pre-flush and filter life reminder, both on the system and faucet.
*Tested at 60 psi water pressure, 150 ppm at the temperature of 77°F. Actual performance varies based on source water quality.

The First Stage PPC composite filter removes dirt, sand, silt, rust, and scale particles; it absorbs THMs, VOCs, and pesticides; it also removes unpleasant chlorine, taste, odors, cloudiness, and colors.

The Second Stage features an 800 GPD reverse osmosis membrane that rejects a wide spectrum of impurities down to 0.0001 microns. It also removes heavy metals and many organic matters.

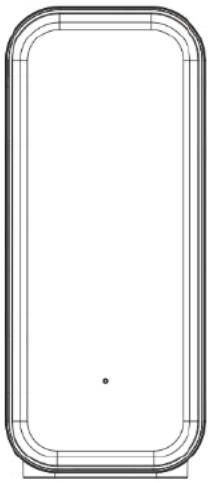
- **Structure Diagram**



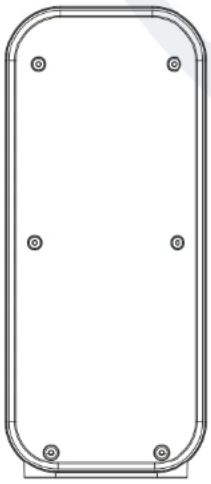


① PPC Composite Filter

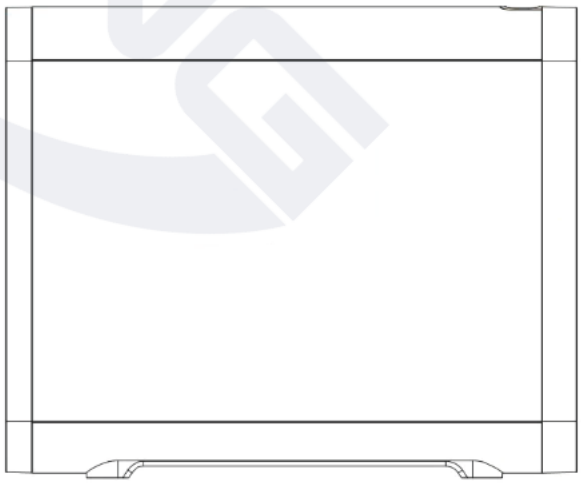
② RO Membrane Filter



Front



Back



Side View

Usage 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, property damage, or both.



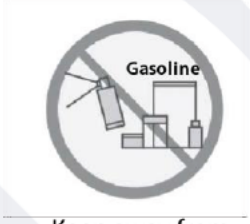
Keep children out of reach replace

Check the filter life and replace on time

Please install the machine to a position that is away from direct sunlight and freezing environment



To be installed and used on municipal water supply only



Keep away from inflammable and volatile items

▪ Packing List

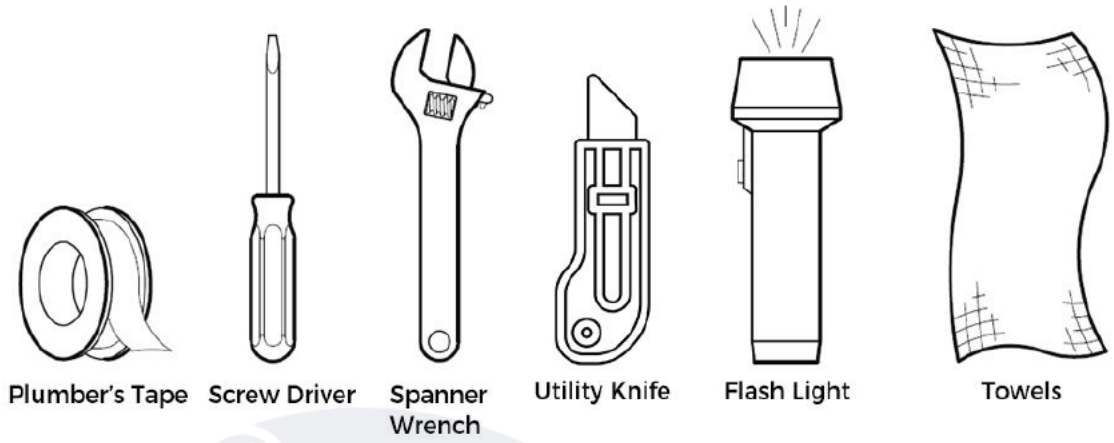
Description	Quantity	Description	Quantity
RO Water Purifier	1 set	Power Adapter	1 pc
PPC Composite Filter	1 pc	1/4-inch PE Tube in Red and Blue	5 ft. each
RO Membrane	1 pc	3/8-inch PE Tube	5 ft.
Inlet Three-way Ball Valve	1 pc	Locking Clips	12 pcs
Faucet	1 pc	Product Manual	1 pc

System Installation

▪ Installation Preparation

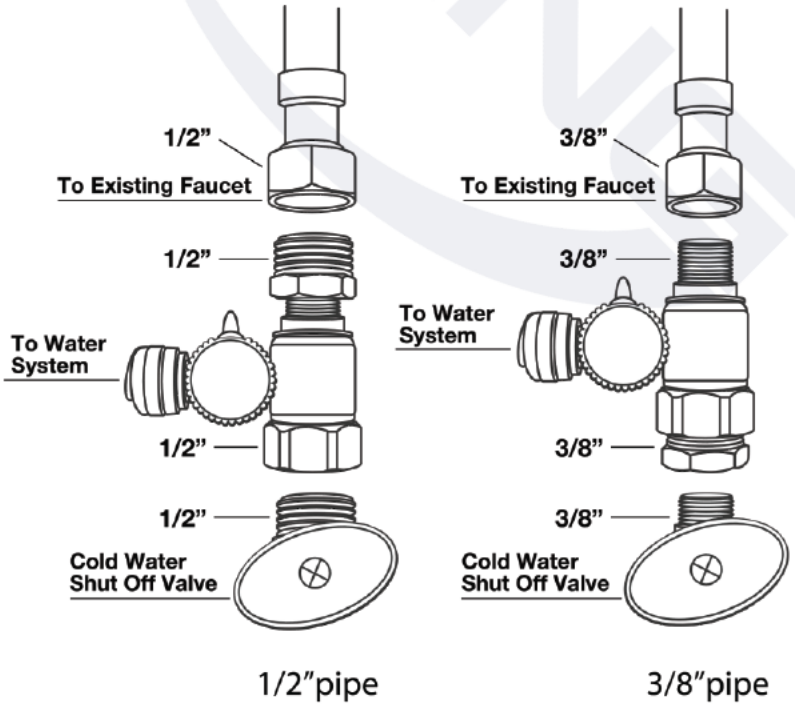
1. It is strongly recommended to watch the video "How to Install iSpring RO800 Series Tankless RO Under Sink Water Filter | DIY Installation" on Youtube.com before installation.
2. Check and ensure the package is in good condition and everything in the packing list is included. Contact iSpring Customer Service if there is any missing part.
3. The system must be installed at a location with access to the power plug, with a flat surface kept away from direct sunlight or a freezing environment. The incoming water pressure must be at least 15 psi.

4. Tools required for installation:



▪ Install the Feed Water Adapter

- Shut off the cold-water supply valve and unscrew the kitchen faucet connector pipe.
- Install the feed water adapter on the cold-water supply valve and tighten it with a spanner wrench (ensure the O-ring is seated inside the adapter).
- Re-install the cold-water hose on the feed water adapter, then tighten it with a spanner wrench (ensure the O-ring is seated inside the hose cap).
- Refer to the below diagram and make sure the connection is correct. Please note that the bushing is installed at different locations based on the actual plumbing setup (3/8" pipe and 1/2" pipe). The 3/8" quick-fitting end should ALWAYS be connected to the white PE tubing that goes to the system water inlet port and has nothing to do with the existing fitting size.



- **Install the Faucet**

Drill a hole on the countertop if there is not one available.

1. Choose a suitable location on the sink or countertop and install the faucet on a flat surface, as shown in the image below. You will need to drill an 1" hole (no larger than 1 1/2") if your kitchen sink has no existing one.

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

a. Depending on the type and thickness of the countertop where the hole will be drilled, you may consider hiring an experienced professional to ensure the hole is drilled correctly.

b. Choose a half-inch Diamond Core Bit for granite and a titanium drill bit for steel. Do NOT hammer drill on natural stone, glass, or ceramic.

c. An indent should be made with a punch on steel before drilling to help guide the bit.

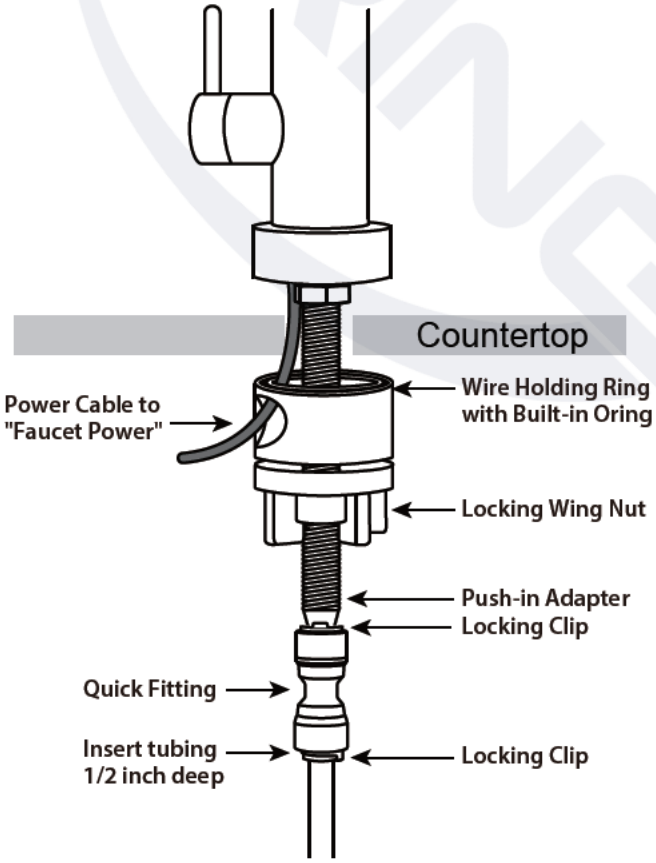
d. Use caution when drilling on a Porcelain sink, as it could be easily chipped. Set drill speed on slow. Press the bit downward firmly until breaking through the slippery surface. Some people found it easier to secure the bit by drilling through a piece of wood firmly pressed on the surface.

e. Use coolant to disperse heat. Choose water for granite and oil for steel. Use the Water Suction Cup to hold the coolant inside and prevent the drill bit from slipping.

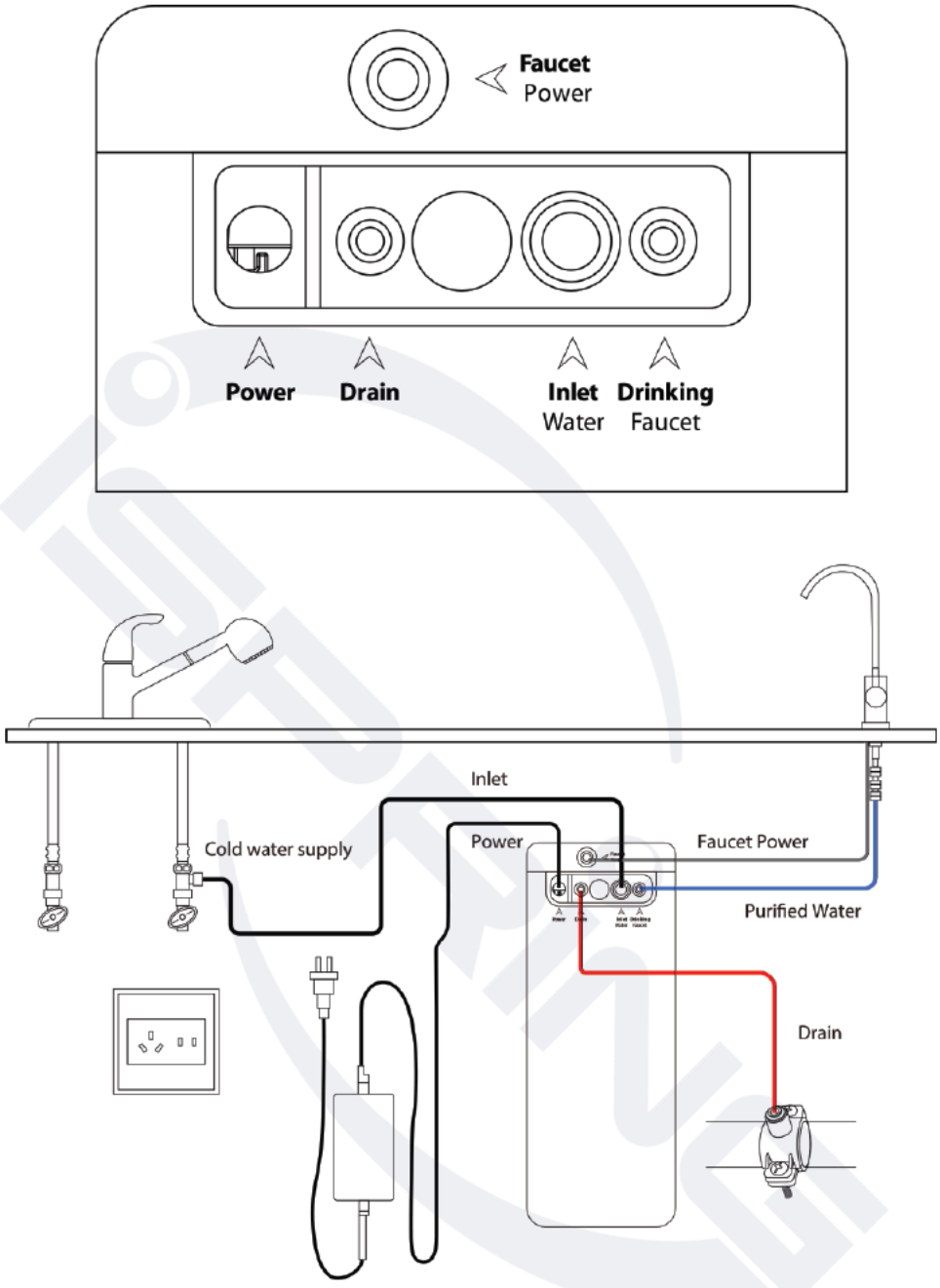
f. Starting at the slowest speed, hold the drill firmly and vertically and prevent the drill bit from slipping on the counter.

g. Once breaking through the smooth surface, swirl the drill a little to evenly apply pressure in a circle. Be patient and deliberate. It can take 20 – 40 minutes to drill through one inch.

Place the faucet in the hole and refer to the following image.



- **Connect the System with the Power Cable and PE Water Tubing**
  Refer to the following diagram for water tubing and power cable connections.



a. Cut the WHITE 3/8" PE tubing to the appropriate length using a utility knife based on the system position.

b. Insert one end of the tubing into the feed water adapter quick fitting. Make sure at least 1/2" of the tubing is inserted. The tubing should not be able to be pulled out by hand. Put on the locking clip after the tubing is secured.

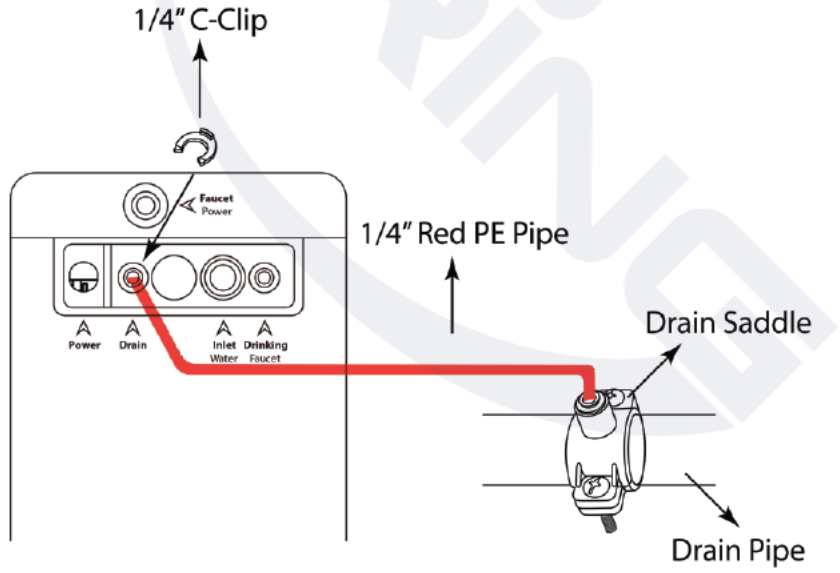
c. Insert the other end of the WHITE tubing into the 3/8" port marked with "Inlet water" at the top rear of the system. Again, make sure at least 1/2" of the tubing is inserted. The tubing should not be able to be pulled out by hand. Secure the connection by inserting the enclosed 3/8" C-clip.

d. Cut the 1/4" BLUE tubing and 1/4" RED tubing with a utility knife to an appropriate length. The blue tubing will be used as the tubing to the faucet, and the red tubing will be used as the tubing to the drain.

e. Insert the blue tubing into the 1/4" port marked "Drinking Faucet". Insert the RED tubing to the port marked "Drain" at the top of the system. Insert the 1/4" C-clips to lock the connection.

f. Connect the other end of the 1/4" BLUE tubing to the previously installed smart faucet, Which came with a 1/4" quick fitting. Like other quick fitting installations, make sure at least 1/2" of the tubing is inserted into the faucet fitting. The tubing should not be able to be pulled out by hand. Secure the connection by inserting the enclosed 1/4" locking clip.

g. Choose a spot on the drainpipe that is convenient for installing the drain saddle and tubing. A horizontal pipe is recommended to minimize the dripping sound. Drill a 1/4" hole in the drainpipe and paste the black sticky pad around the hole. Cut the 1/4" RED tubing end tip to make a 45-degree angle. Insert the tubing through the hole to the drain pipe, install the backplate, and tighten the two screws with hex nuts while the tubing remains in the hole. Pull the tubing lightly to make sure it is secure. It is shown below.



The system installation is now completed.

Using the system

- **System Startup**

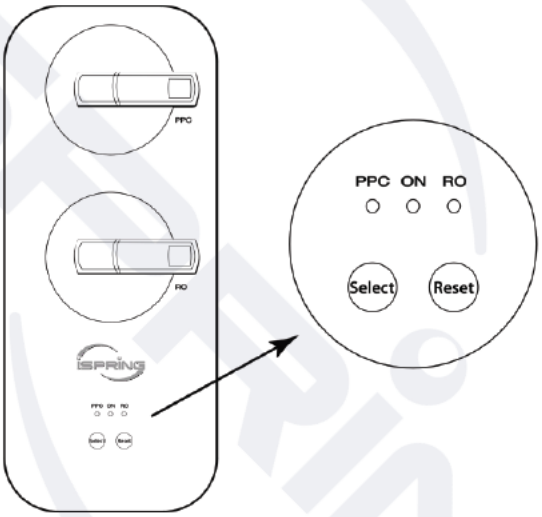
a. To start the system, plug it in, turn on the feed water adapter, then turn on the faucet. Vibrations can be expected as the pump starts.

b. Turn on the faucet and let it run for at least 30 minutes to rinse the system. This should be done each time the PPC filter is replaced. Refer to the "Display and Operating Area" section below for more information about manually flushing the system after replacing the membrane.

c. Carefully check all fittings for a secure connection. Use a damp paper towel to wipe clean and verify that there are no connection leaks.

d. Once the rinsing is completed and no leaks are presented, the system is ready for use.

- **Display and Operating Area**



The display/Operating area is located on the lower front side of the system and is made with a combination of 3 indicating lights and 2 buttons.

To manually Flush the system:

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

"On" Light:

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

Reset filter:

Filter life indicates lights remain white and start to blink in white when the corresponding filter life has less than 10% remaining, then turn red when the filter needs to be replaced ASAP.

The filter life indicator must be reset each time the filter is replaced.

To replace the 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 release the filter lock. Remove the new filter package, then insert the filter into the system firmly, making sure the filter is locked in place.
4. 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 be flashing red with one beep.
5. Short press "select/flush", select the RO filter indicator light, and select the filter that needs a reset. Repeat the process for a different filter light if needed.

Filter Service Life Display

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

▪ Routine Maintenance

The filter replacement cycle varies depending on the source water quality (family size, usage frequency, etc.). The time between filter replacements should not exceed the maximum suggested data. Failure to replace the filters on time will void the warranty and may cause damage/leaking to the system, leading to further damage to the property where the system is installed.

Description	PP+C composite filter	RO membrane filter
Filter replacement cycle	6-12 months	24-36 months

▪ Malfunction Inspection

Fault Codes

Type	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	Is the water inlet valve turned on?	Turn on the water supply
	The filter was not installed correctly	Correct assemble the filter
	The system is not connected to the power	Check the power
Less water output	The connection tube is twisted or bent	Check the connections
	The inlet valve opens too small	Open the water inlet valve completely
	Low temperature, especially in winter	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
Long-running non-stop	Fitting's problem	Close the inlet valve and turn off the power; contact a professional worker to deal with
Domestic water cannot be discharged	The drain is blocked	Close the inlet valve and turn off the power; contact a professional worker to deal with
	The filter exceeds its service life	Replace the filter
Smell in water	Long time no usage	The machine reproduces water for 20 minutes; make it twice and then normal usage
Leakage in connections	The tubing is not inserted into the bottom of the quick connector	Reinstall the quick connector in the correct way

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Thank you!

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