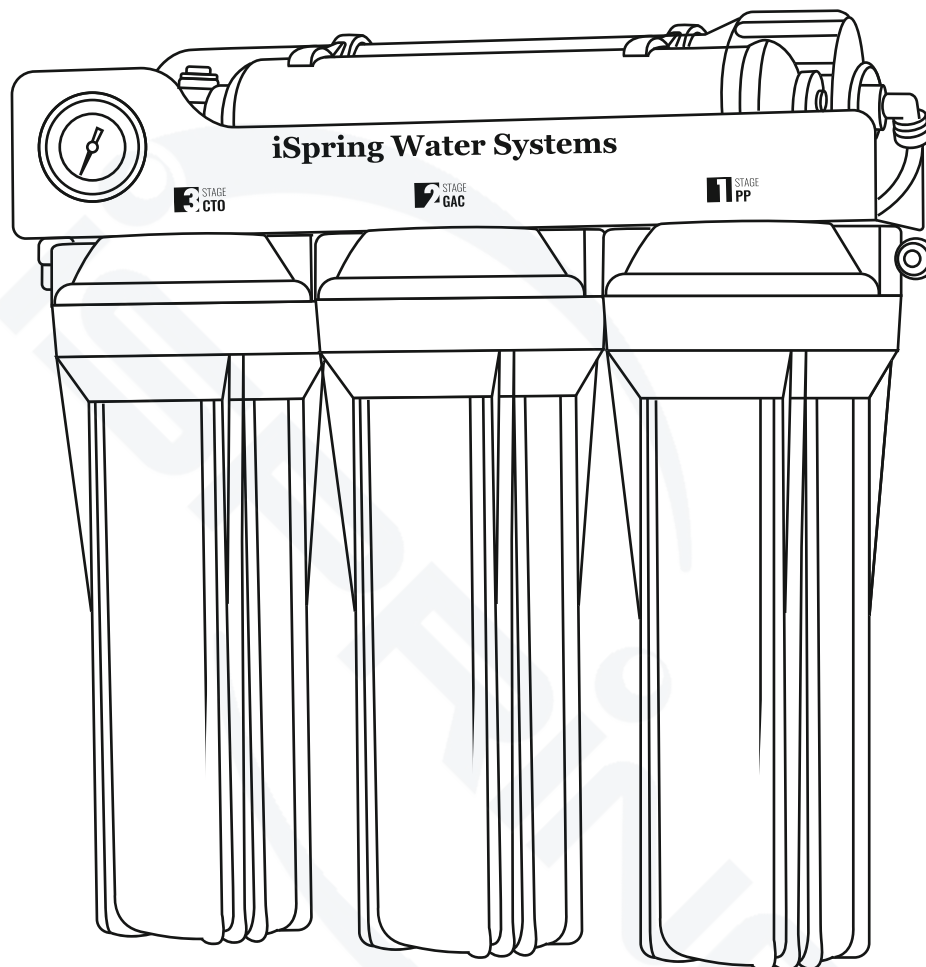


RO / DI

iSpring RCC Series Reverse Osmosis Water Purification System with Deionized Filter



Model: RCC1D / RCC1DP

Installation Instructions & User Manual

Ver. 12/2024



Support
&
Warranty

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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.

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User Information

The user must adhere to the installation specifications described in this Product Installation and Instruction 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.
- The operating temperature range is 40°F - 100°F (5 - 38°C). This RO system is NOT designed for HOT water. If the water temperature or ambient temperature falls below 40°F, immediately shut off the inline water supply and drain the remaining water. Within the range, the warmer the water is, the faster is the RO process.
- 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.
- Please unplug the system and contact iSpring customer service for help if there is any problem caused by damage or failure of the power supply system. If the power adapter is damaged, trained professionals should replace it to ensure safety.
- 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.
- Never touch the power cord connector when your hands are wet, as this may result in electric shock.
- This appliance is not intended for use by persons (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.
- Use the new tubing included in the installation package, and do not reuse any old tubing set you may have.

Product Features

Filtration Performance

Stage	Filter	Purpose
1 st	Polypropylene (PP)	Removes sediments, dust, dirt, sand, silt, rust, and particles.
2 nd	Granular Activated Carbon (GAC)	Removes chlorine, taste, odors, cloudiness, and colors.
3 rd	Carbon Block (CTO)	Provides additional reduction of odors and improves water quality.
4 th	Reverse Osmosis (RO) Membrane	Removes up to 99% of contaminants, such as lead, chlorine, fluoride, arsenic, hormones, asbestos, calcium, sodium, iron, etc.
5 th	Deionize (DI)	Produces filtered water with zero or near zero TDS.

Water Treatment Process

Municipal Tap Water → PP Sediment Filter → GAC Filter → CTO Filter → RO Membrane → Deionize Filter → Purified water

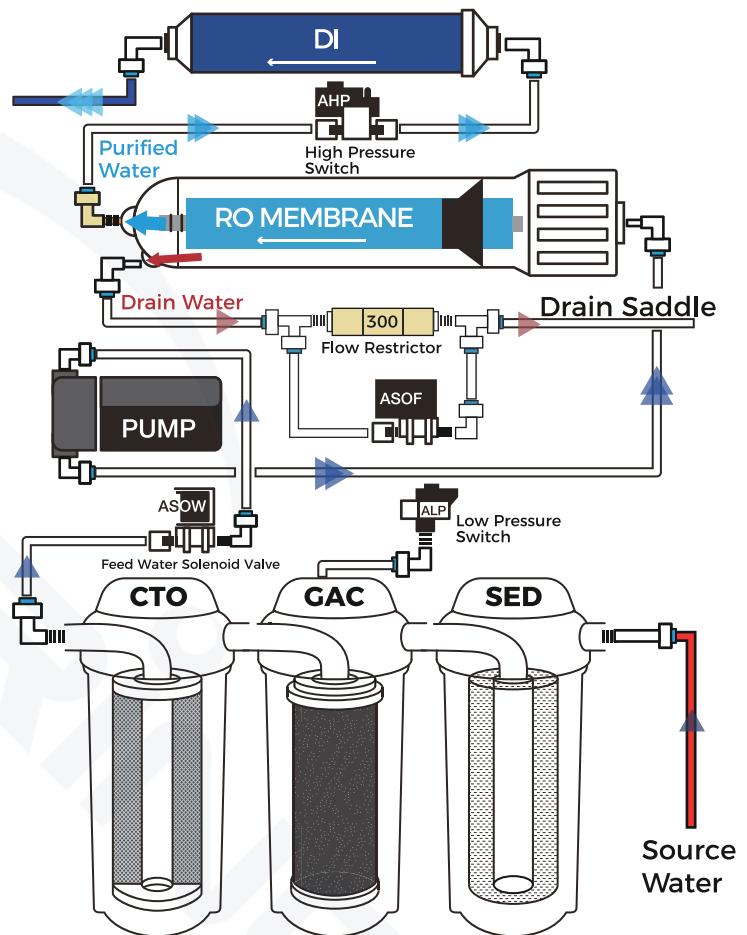
Operating Conditions

Parameter	Specification
Maximum Inlet Water Pressure	70 psi
Minimum Inlet Water Pressure	Model #RCC1D: 45 psi Model #RCC1DP: 30 psi
Incoming Water Temperature	40 - 100°F
Maximum TDS	750 ppm

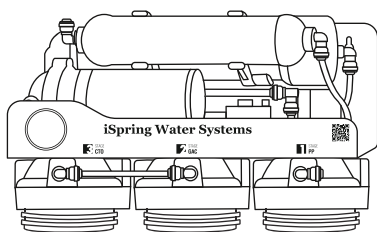
- Maximum water pressure: If psi is over 70 psi, a pressure regulator (Model #APR70) is required if there is high water pressure or water hammer.
- Minimum water pressure: 30 psi is required for Model #RCC1DP and 45 psi for Model #RCC1D. If water pressure falls below the levels, an additional booster pump is needed to maintain optimal RO efficiency.
- Install this RO system where it is protected from hot/cold weather and direct sunlight. Avoid hitting, dropping, or dragging as they may cause cracks and leaks.

Understanding the Booster Pump and RO Process

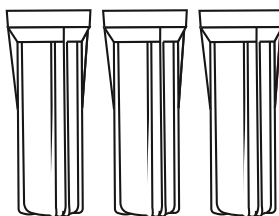
- 1 Initial Filtration:** Source water enters the system, passing through pre-filters in stages 1, 2, and 3. The Low-Pressure Switch, positioned between the pre-filters, activates when incoming water pressure is 6 psi or more.
- 2 Water Flow and Boosting:** Both the Low-Pressure and High-Pressure Switches are installed and will be on when the Feed Water Solenoid Valve opens, allowing water to flow to the Booster Pump. The source water passes through the Booster Pump, bringing it to approximately 100 psi entering the membrane housing.
- 3 Pressure Control:** The High-Pressure Switch activates when the pressure in the storage tank falls below 20 psi and deactivates at 45 psi, which indicates the tank is full.
- 4 Membrane Filtration:** The RO membrane divides the water into two streams: purified water and wastewater. Purified water is pushed through the membrane's 0.0001-micron pores and exits through a one-way Check Valve on the pure water port. Wastewater flows to the drain line, where a flow restriction regulates the outflow to maintain system pressure.



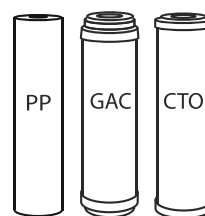
Components List



*RO Machine Head



3 Pre-filter Housings



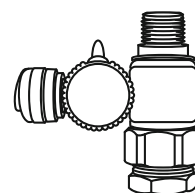
3 Pre-filter Cartridges



RO Membrane
(Model #MC150)



4- color Tubing
Set



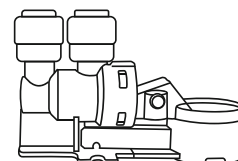
Feed Water Adapter
(Model #AFW43)



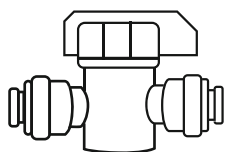
Drain Saddle 1/4"
(Model #ADS1K)



Housing Wrench
(Model #AWR2)



Leak Stop Valve
(Model #ALS1)



1/4" Quick Fitting Ball Valve
(Model #ABV1K)



3/4" GHT to
1/4" Quick Fitting
(Model #34GH14K)



15/16" Female
Tread to 3/4" GHT
(Model #156F34GH)



Plumber's
Tape



*** The actual model may vary. Model #RCC1D does not come with a pump as shown.**

Installation

Before you start the installation

- We recommend watching our video **"iSpring RCCP Series RO System with Booster Pump DIY Installation | Step by Step"** on YouTube for guidance.
- Choose a suitable location for the system, which must be on a flat surface.
- Must ensure this system is installed on an INDOOR cold-water supply ONLY.
- Check the system components 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



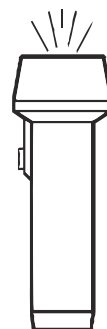
Phillips Head
Screwdriver



Spanner Wrench



Utility Knife



Flash Light

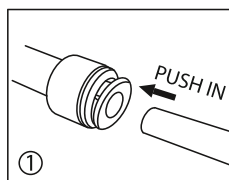


Towels

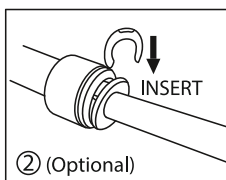
Recommended tools:

- Prepare a multi-speed drill with two bits: 1/4" (for drilling on PVC drainpipe) and 3/4" or 1" hollow diamond (for drilling on the countertop for drinking faucet if needed).
 - Prepare a 5/8", 9/16" open-end wrench, adjustable wrench, or plier.
- Quick-Connect instruction:

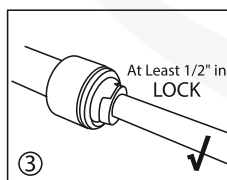
HOW TO CONNECT



①

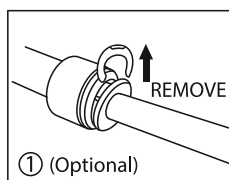


② (Optional)

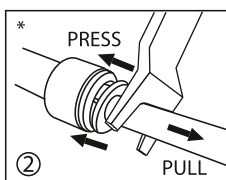


③

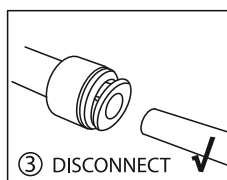
HOW TO DISCONNECT



① (Optional)



②



③ DISCONNECT

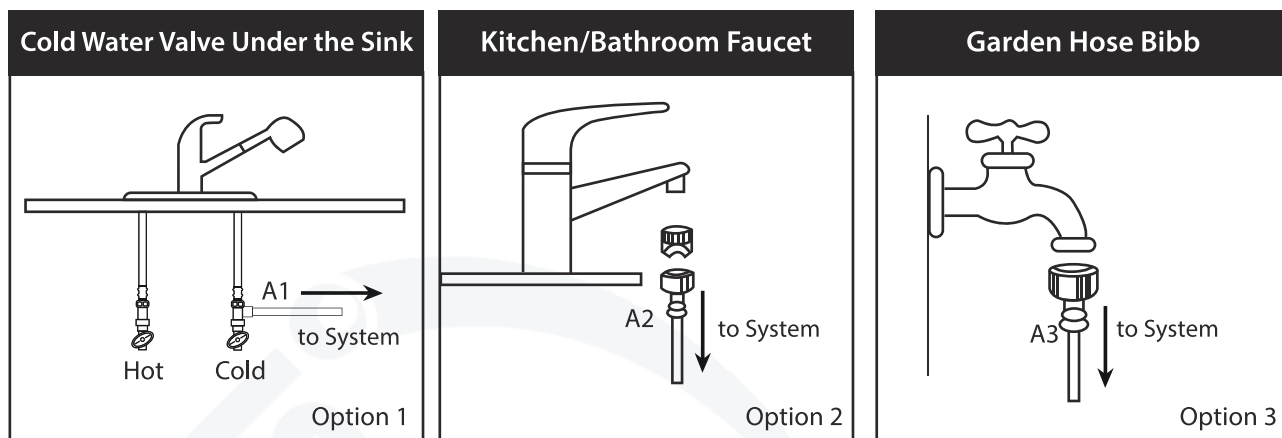
We recommend watching our video **"How to Connect and Disconnect Quick Connect Fittings | DIY Installation"** on YouTube for your reference.

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.

Step 1: Water Inlet Connection

There are three ways you can connect the water inlet to the RO system. We recommend that you watch our video "**How to Install a Feed Water Adapter for Reverse Osmosis (RO) and Other Applications | iSpring AFW43**" on YouTube for guidance.



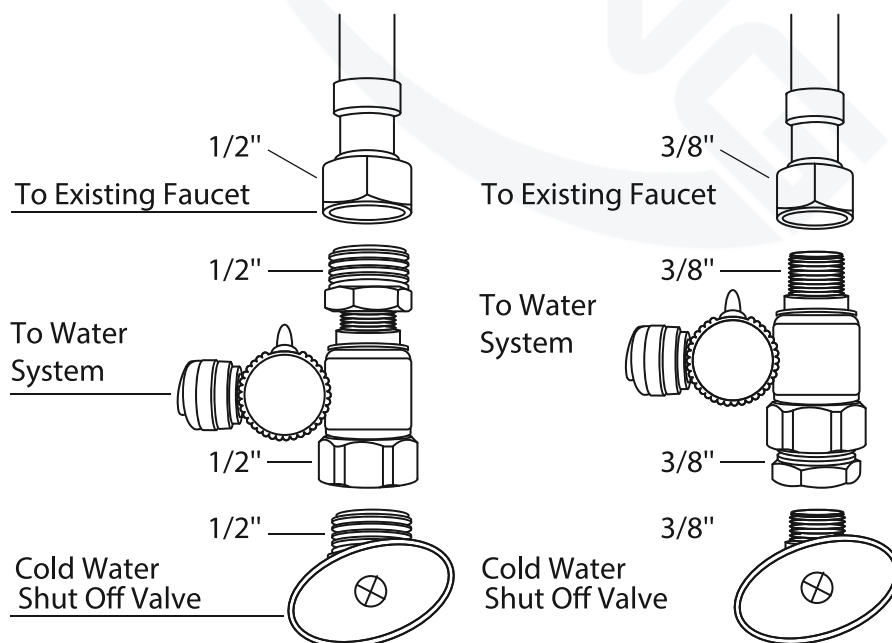
Option 1: Connect to the Cold Water Valve Under Sink using Feed Water Adapter (Model #AFW43)

Step 1. a. Turn off the cold water supply valve under the sink and open the kitchen faucet to release pressure. Place a towel or bucket nearby to catch any water drips. Disconnect the kitchen faucet connector pipe from the cold water supply valve.

Step 1. b. Install the Feed Water Adapter onto the cold water supply valve and tighten it using a wrench or plier. Ensure the O-ring is seated inside the adapter. Plumber's tape may be used to seal the connection.

Step 1. c. Reconnect the kitchen faucet connector pipe onto the male end of the Feed Water Adapter. Turn the handle of the Feed Water Adapter to the perpendicular OFF position. Turn on the cold water supply valve slowly, and ensure a proper seal is made.

Step 1. d. Connect the 1/4" **RED** tubing to the Feed Water Adapter.





Note: The included bushing can be threaded on either side of the Feed Water Adapter to fit 3/8" COMP and 1/2" NPT configurations.

Option 2: Connect the Kitchen or Bathroom Faucet using a Connector (Model #156F34GH) with an Adapter (Model #34GH14K)

Step 1. a. Remove the aerator from the faucet by hand, or use pliers if necessary. Keep the aerator for future use if the system is removed.

Step 1. b. Screw the 156F34GH adapter onto the 34GH14K connector, then attach the entire connector assembly to the faucet. Hand-tighten the connectors as much as possible; if necessary, use pliers. Plumber's tape may be applied to seal the connection.

Step 1. c. Connect the 1/4" **RED** tubing to the 34GH14K connector.

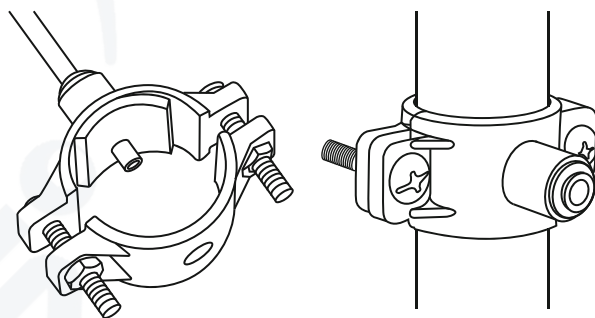
Option 3: Connect to the Garden Hose Bibb using Connector (Model #34GH14K)

Step 1. a. Attach the 34GH14K connector to the garden hose bibb by hand, then use pliers to tighten as needed. Plumber's tape may be applied to seal the connection.

Step 1. b. Connect the 1/4" **RED** tubing to the 34GH14K connector.

Step 2: Install Drain Saddle (Model #ADS1K)

We recommend that you watch our video *"How to Install iSpring Drain Saddle (ADS1K) for Reverse Osmosis (RO) System | DIY Installation"* on YouTube for guidance.



Step 2. a. Select an appropriate location on the drainpipe before the P-trap to install the drain saddle and tubing. Avoid installing the drain saddle after the P-trap to prevent potential microorganism growth.

Step 2. b. Drill a 1/4" hole in the drainpipe and apply the black adhesive pad around the hole.

Step 2. c. Cut the end of the **BLACK** tubing at a 45° angle. Insert the tubing into the 1/4" hole in the drainpipe, install the back plate, and tighten the two screws with hex nuts while the tubing remains in the hole.

Step 2. d. Insert the locking c-clip and pull the tubing lightly to ensure it is secure.

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

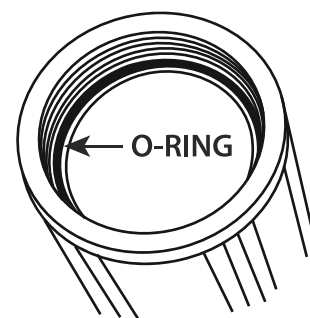
Step 3. a. Make sure that the O-ring is seated inside the groove at the top of each filter housing. Applying food-grade silicone jelly may help the O-ring stay in place and seal better.

Step 3. b. Remove the plastic wrap from the filter cartridges. Observe any directional markings on the sticker before removing the wrap.

Step 3. c. When placing the filter cartridge into its housing, make sure it is centered. The knob protruding from the bottom of the housing should align with the central hole in the filter.

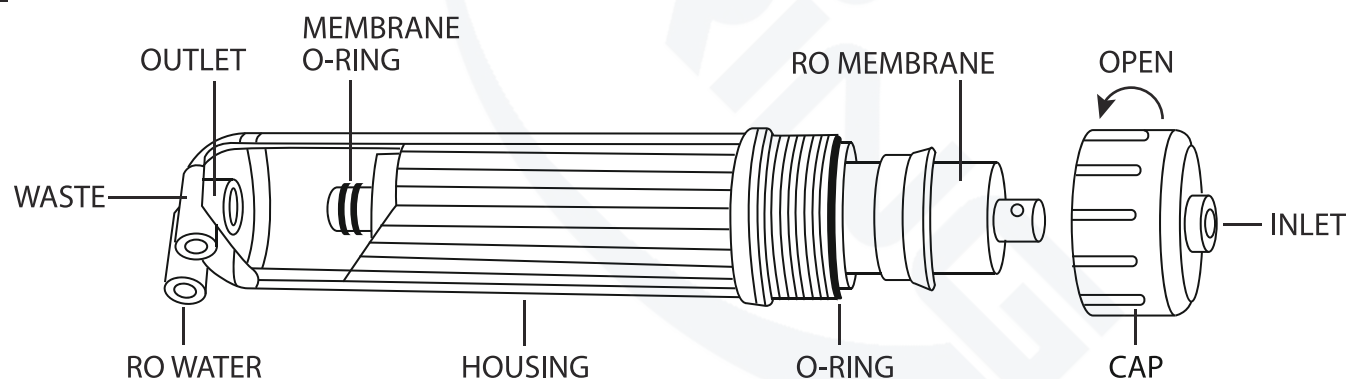
Step 3. d. Screw the housing with the filter attached onto the housing caps (the caps are pre-assembled on the machine head). Each cap has a center knob that should be inserted into the central hole of the filter cartridge. Twist the housing on in a counterclockwise direction by hand, then use a housing wrench to tighten it an additional 1/4 to 1/2 turn.

Avoid overtightening, as it may cause leaks or make it difficult to remove the housing during filter replacement.



Note: The second stage GAC filter is the only filter that must go in a specific direction. Make sure that the end with the rubber washer faces up and attaches to the housing cap.

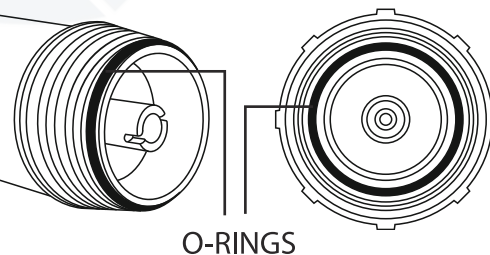
Step 4: Install the Reverse Osmosis Membrane



Step 4. a. Disconnect the tubing from the quick-fitting connection on the membrane cap.

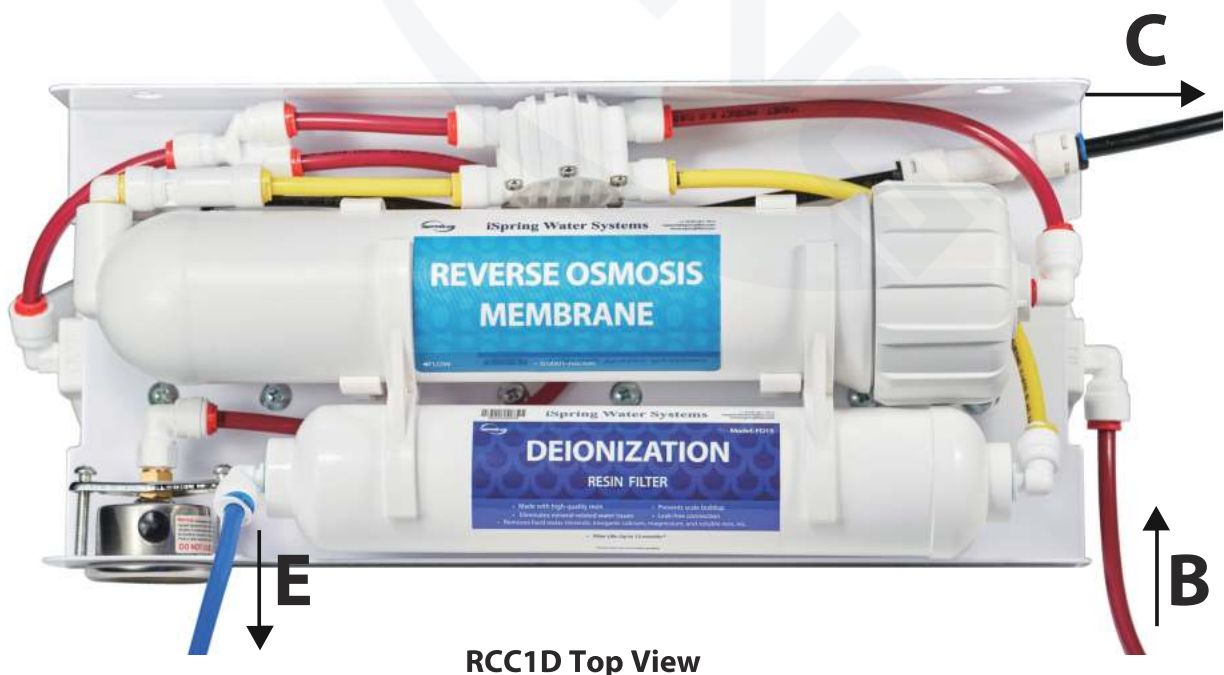
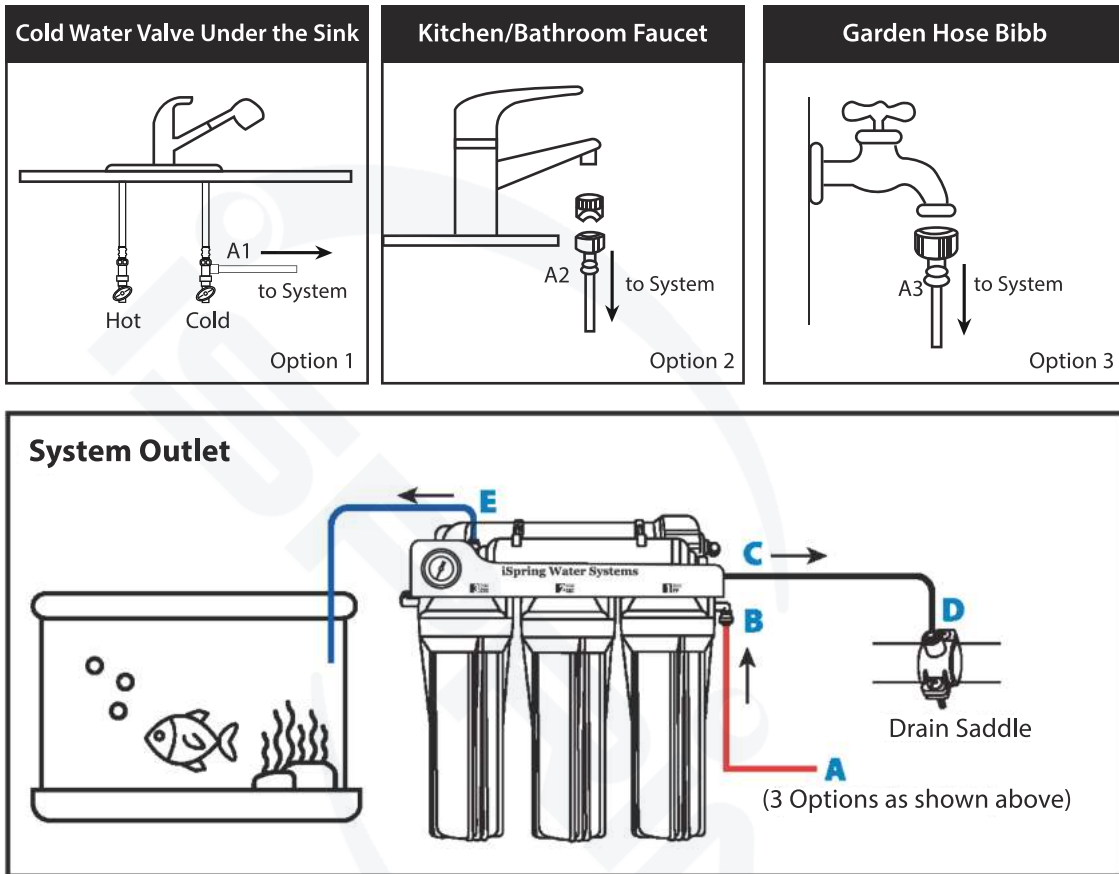
Step 4. b. Unscrew and remove the membrane housing cap. For a better grip, use a thick rubber band around the housing body.

Step 4. c. Carefully hold the RO membrane by the sealed bag to avoid contamination. Insert the membrane's end with the two O-rings firmly into the housing until the end without an O-ring is fully inside the housing (see figure above).

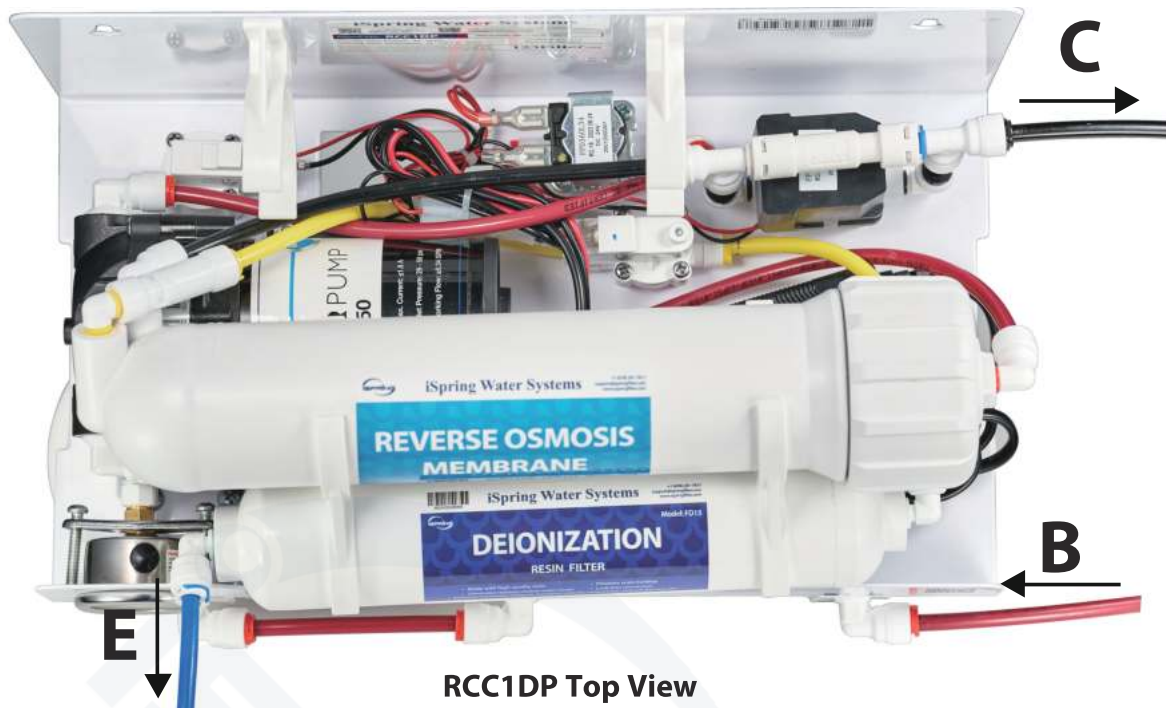


Step 4. d. Check that the O-ring is properly seated in the membrane housing before tightening the housing cap. Use a plastic housing wrench to twist the cap back on, tightening it about 1/4 to 1/2 turns without overtightening. Do not reconnect the tubing to the cap inlet at this point; this will be done during the system start-up.

Step 5: Tubing Hook Up



RCC1D Top View



Note: The sequence of connection for different tubing can be adjusted.

RED Tubing: connect source water (Point A) to the 1st stage water inlet elbow fitting (Point B)

BLACK Tubing: connect wastewater from the Flow Restrictor (Point C) to the Drain Saddle/ drain pipe (Point D)

BLUE Tubing: 5th Stage DI Filter (Point E) to the pure water outlet

You may neatly organize the tubing, but leave enough length so the filter system can be moved freely in and out of the cabinet when replacing filters.

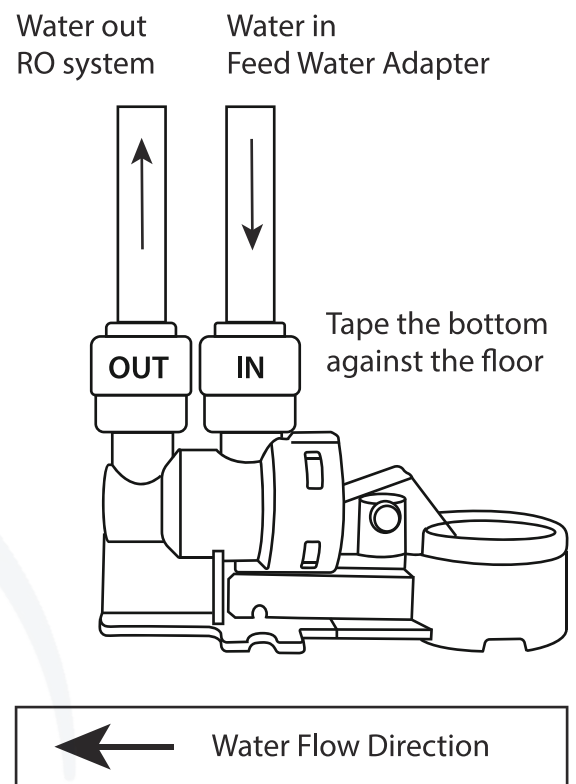
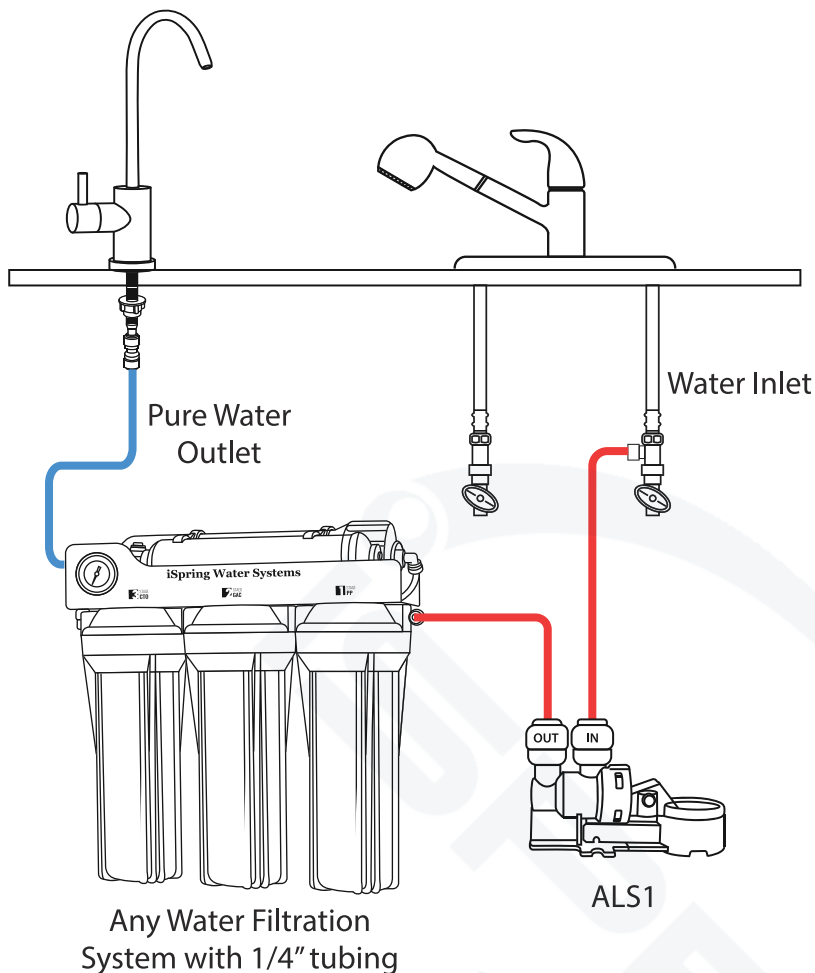
Step 6: Leak Stop Valve (Model #ALS1) Installation

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

Step 6. a. Make sure the end of the tubing is cut square before connecting it to the fitting.

Step 6. b. Follow the water flow direction indicated on the Leak Stop Valve to connect it to the water inlet pipeline.

Step 6. c. Tape the bottom of the Leak Stop Valve against the floor.



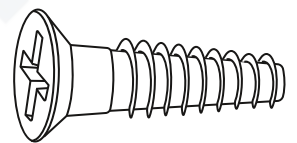
Warning: Pulp is for ONE TIME USE only.



In case of any leak incidence and the pulp is expanded, please shut off incoming water supply completely, fix the leak, and replace the expanded pulp before turning the water supply back on.

Step 7: Mounting the System (Optional)

- Mounting the system is NOT required. The system does NOT need to be mounted to work correctly.
- Please note if the system is to be mounted, it is recommended to use two 10 x 1-1/4 Phillips Flat Wood Screws (not included). This will make replacing filter cartridges easier.



Note: If you plan on mounting/hanging the system, it is highly recommended to include supports under each of the bottom three housings. Supports under the housings will take the water weight off the housing threads and ensure the thread strength does not decay over the years.

Step 8: System Start-up

For Model #RCC1DP: Plug the booster pump into an outlet. The pump will activate only once water

Step 8. a. Ensure all tubing is free of kinks. Place a towel beneath the system to catch any potential leaks.

Step 8. b. Disconnect the inlet tubing from the RO membrane housing cap. Turn on the water inlet and flush the first three filter stages into a bucket until the water runs clear. Initially, the water may appear black due to residual carbon from the new filters.

Step 8. c. Once clear, turn off the water inlet and reconnect the tubing to the RO membrane housing cap. Repeat this flush procedure after each filter change.

Step 8. d. Open the pure water outlet. Slowly open the water inlet and inspect for leaks. The three most common causes are:

- Tubing is not fully inserted into the quick-connect fitting
- O-ring is misaligned or kinked
- Housing/cap is improperly tightened or cross-threaded

Step 8. e. Within 5 minutes, the booster pump on Model #RCC1DP should engage, and RO water will start trickling from the pure water outlet. Allow it to trickle for at least 15 minutes to flush the system. The water will gradually turn clear as small air bubbles leave the system.

Step 8. f. Shut off the system.

Step 8. g. Periodically test the TDS of the water to ensure the system is performing effectively.

Step 8. h. Check for leaks daily for the first two weeks after installation to ensure the system is functioning properly. Install the Flood Alarm (optional, Model #WD01) to provide additional peace of mind and protection.

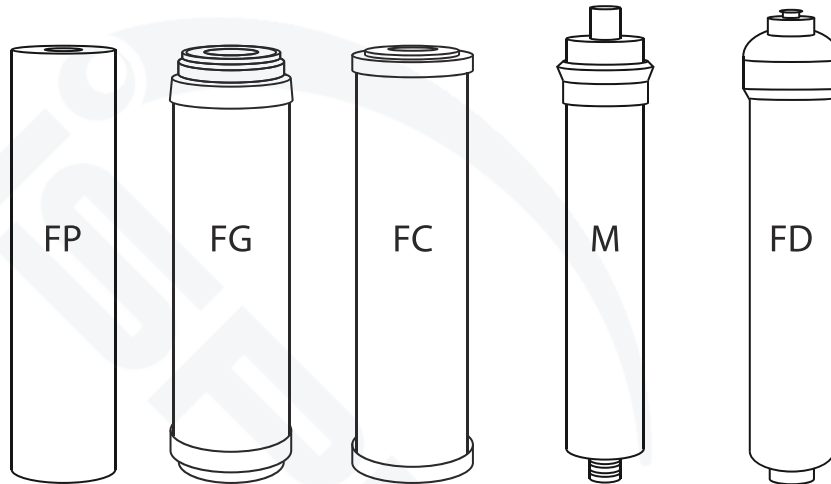


Note: Do not use microbiologically unsafe water or unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.

System Maintenance

All iSpring RO systems are designed with ease of use and low maintenance in mind. If the filter cartridges are changed on schedule as suggested, the system will work properly for years to come. See the chart below for the filter pack model numbers for your system. The filter packs can be found on ispringfilter.com.

1-Year Filter Pack	2-Year Filter Pack
F7D	F15D150



STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5
PP	GAC	CTO	RO Membrane	DI
#FP15	#FG15	#FC15	#MC150	#FD15
Up to 6 Months	Up to 1 Year	Up to 1 Year	Up to 3 Years	Up to 1 Year

Note:

- The general filter cartridge replacement schedule is for reference only. Not all filters are included in the same filter pack, choose the filter pack that suits your RO system.
- Filter replacement schedule may vary depending on the quality of your source water.

When to Change the Filters?

The filters are highly suggested to be replaced when they reach their recommended replacement cycle. However, the actual lifespan of filters may vary depending on the source water quality and daily usage. If you notice a great decrease in the tap water flow or detect an unpleasant smell, taste, and odor, it would be a good time to get your filters changed.

How to Change the Filters?

Carefully follow the instructions that come with the filter package.

O-rings Replacement (Every 3 Years)

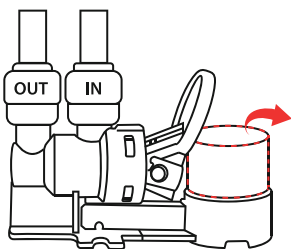
The package comes with spare O-rings for the pre-filter housing and the membrane housing. Please save them with this manual.

How Do I Prepare the System Before Extended Time Away?

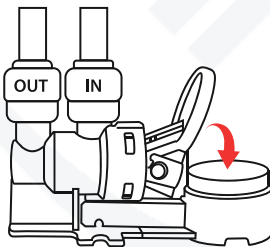
When leaving for an extended time, you will want to turn off the water supply to the system and empty the tank. To do this, close the knob on the feed water adapter, and open the drinking faucet until it stops running. This will signify that the tank is empty. If you expect to be gone for over a week, you will want to remove the RO membrane, wrap it with plastic wrap, and store it in a Ziploc bag in the refrigerator.

Leak Stop Valve Pads (Model #ALS1P3) Replacement

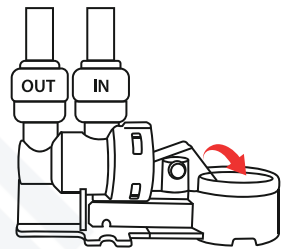
We recommend that you watch our video "[*Absorb Pad Replacement of iSpring Leak Stop Valve | Easy DIY | Step by Step*](#)" on YouTube for guidance.



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

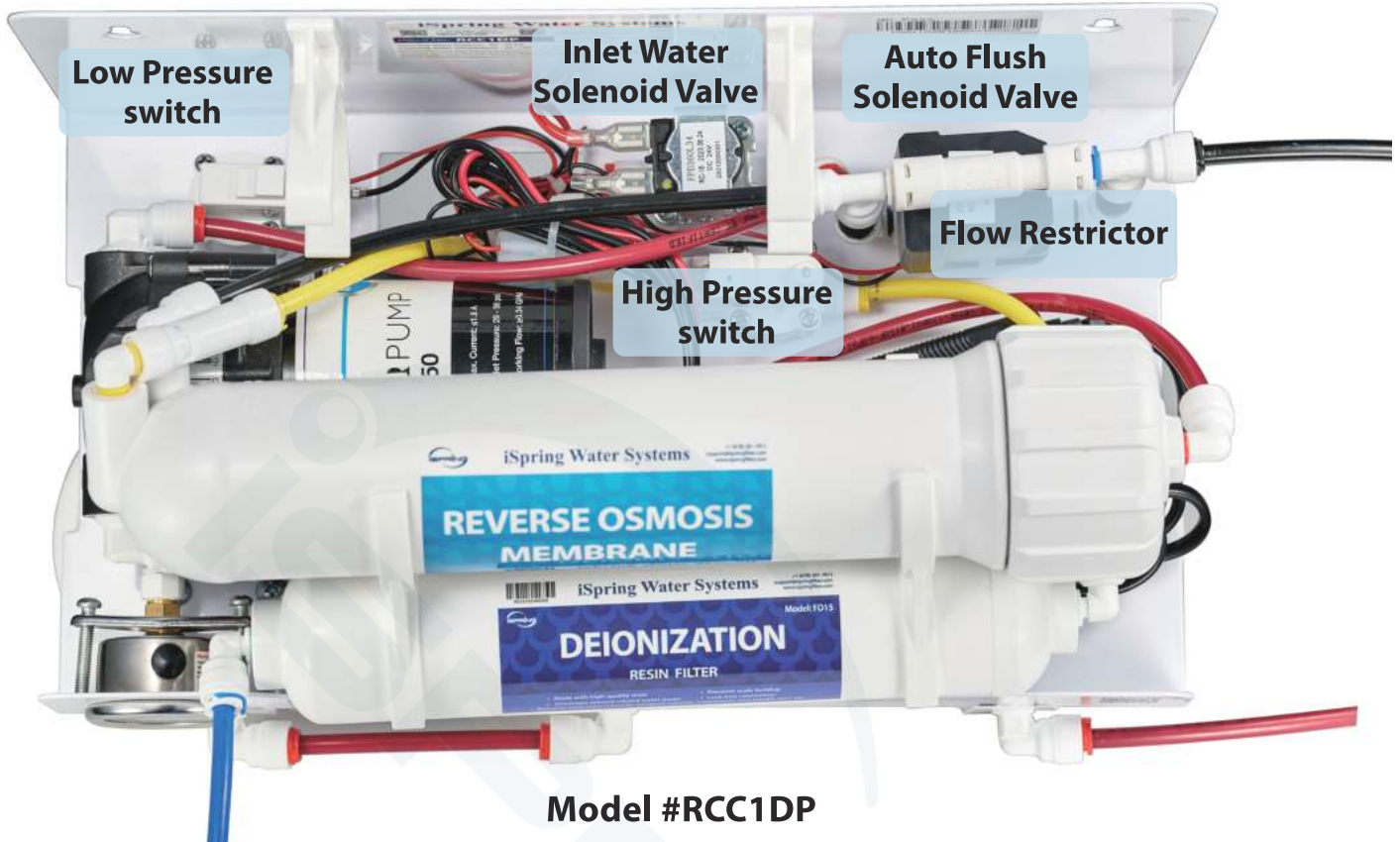


- 2 Drop in the new pad.



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

Troubleshooting Guide



Issue	Possible Cause	Solution
No water output from pure water outlet	a. Water supply is turned off. b. Incorrect installation. c. Tubing is kinked, restricting flow. d. The pump is not running, blocking water flow.	a. Turn on the water supply. b. Verify all tubing connections. c. Check and straighten any kinked tubing. d. Ensure the pump is plugged into a continuous power source.
Leakage in connections	a. Tubing is not fully inserted into the port. b. The O-ring in the fitting isn't sealing. c. Insufficient plumber's tape on threads. d. Housing or cap isn't properly tightened or aligned.	a. Reinsert tubing 1/2" into the port. b. Inspect the O-ring; replace if needed. c. Reapply and add the plumber's tape to ensure a seal. d. Realign and tighten housing or cap.

Issue	Possible Cause	Solution
Leaking from between the membrane cap and membrane housing	a. The O-ring is not seated correctly.	a. Ensure the O-ring sits at the start of the membrane housing threads. Proper positioning will prevent gaps or O-ring damage.
High TDS	a. Incorrect installation. b. The RO membrane is not installed.	a. Verify all tubing connections and the direction of filter installation. Contact the iSpring Customer Service Team if the problem still exists. b. Ensure the RO membrane is installed in stage 4. Contact iSpring Customer Service if issues persist.
Continuous water drainage	a. Incoming water pressure is below 45 psi (Model #RCC1D) or 30 psi (Model #RCC1DP). b. Automatic Shut-Off Valve or check valve is defective. c. Inlet solenoid valve is faulty and cannot shut off incoming water.	a. Increase incoming water pressure by adding a booster pump if necessary. b. Contact iSpring Customer Service to replace the valve. c. Contact iSpring Customer Service to replace the valve.
Cloudy water after installation	a. Tiny air bubbles in the RO water after installation or filter change give a "cloudy" look.	a. Air bubbles will naturally dissipate as the system clears itself of trapped air and pose no health risk.
Pump does not start	a. No power. b. Incoming water pressure is below 30 psi. c. Low-pressure switch is not working correctly.	a. Ensure the pump is plugged in and check that it is not in the garbage disposal outlet, which may not have constant power. b. Increase incoming water pressure. c. Contact Customer Service to replace the switch.
Pump runs continuously	a. High-pressure switch failure allows constant pump operation. b. Low or no water output suggests a check valve or pump malfunction.	a. Contact iSpring Customer Service to replace the high-pressure switch. b. For additional assistance, contact Customer Service for troubleshooting.

For questions or concerns, please contact us at support@ispringfilter.com or visit our help page at ispringfilter.com/support.

Glossary

Add-On Kit (#ACL1): Filter add-on kit for adding additional inline filters to an existing system. It comes with quick-connect elbow fittings, filter clamps, and extra tubing.

Auto Flush Solenoid Valve (#ASOF7): Automatically flushes the RO membrane to preserve membrane life and efficiency.

Booster Pump (#PMP150): 24-volt booster pump for iSpring RO systems.

Check Valve (#ACV1K): One-way valve preventing water from flowing back into the membrane housing. It is located on the RO water port of the membrane housing.

CTO or Carbon Block Filter (#FC15): 3rd stage. 5-micron 10" carbon block filter that reduces chlorine, tastes, and odors before the water reaches the RO membrane.

Drain Saddle (#ADS1K): This saddle attaches to the under-sink drainpipe to secure the drain tube from the system.

Elbow Fittings (#4044K): Quick-connect elbow fittings used on the system (except the membrane housing and cap). 1/4" tubing connection and 1/4" NPT male thread.

Feed Water Adapter (#AFW43): This adapter connects to your cold water line and branches off a water supply line to the RO system. It fits 3/8" and 1/2" cold water lines.

Feed Water Solenoid Valve (#ASOW7): This valve controls the booster pump's water supply based on pressure switches set to low or high.

Flow Restrictor (#AFR300): Limits the drain water flow to maintain the pressure in the system for the RO process.

GAC Filter (#FG15): 2nd stage. 5-micron 10" granulated activated carbon filter that reduces chlorine, tastes, and odors from the water.

GPD: Gallons Per Day.

High-Pressure Switch (#AHP1): Receives pressure signals from the pure water line. It turns on when the pure water line pressure is below 20 psi and turns off when pure water line pressure reaches 45 psi.

Housing Wrench for Membrane and Stages 1, 2, and 3 Housings (#AWR2): A housing wrench is used to screw on and unscrew the membrane housing cap and filter housings.

Leak Stopper (#ALS1): Protects the system from any possible leaks by cutting off the water supply when the sponge absorbs water.

Low-Pressure Switch (#ALP1): Turns on when the source water pressure reaches 6 psi, turns off when source water pressure drops below 6 psi.

Membrane Housing and Cap (#NW12): Horizontal housing that the RO membrane is inserted into.

Membrane Housing O-Ring (#ORM): 2 1/2" O.D. The O-ring creates a seal between the membrane housing and the membrane cap.

PPM: Parts Per Million, mg/L.

PSI: Pounds Per Square Inch, a measure of water pressure.

Quick-connect Fitting: Easy-to-connect/disconnect fitting. Tubing is inserted past the O-ring, locked by the spider lock, and locking C-clip.

Reverse Osmosis (RO) Membrane (#MC150): 4th stage. A high rejection rate, 0.0001 microns, thin-film composite (TFC), is essential for reverse osmosis.

stage 1, 2, and 3 housing O-rings (#ORF): 3 5/8" O.D. O-rings create seals for the filter housings.

Stage 1 See-Through PP Filter Housing (#HC12): This transparent housing for the sediment filter allows visual inspection.

Stage 2 GAC Filter Housing (#HW12): Solid white housing that holds the stage 2 GAC filter.

Stage 3 CTO Filter Housing (#HW12): Solid white housing that holds the stage 3 CTO filter.

Stage 2 GAC Filter Housing (#HW12): Solid white housing that holds the stage 2 GAC filter.

Stage 3 CTO Filter Housing (#HW12): Solid white housing that holds the stage 3 CTO filter.

TDS: Total Dissolved Solids, a measure of the contamination level of a water source.

Transformer for Booster Pump (#ATRF150): A power supply used for the PMP150 booster pump on residential iSpring RO systems.

Optional Add-on

■ Ice Maker Connection Kit (Model #ICEK)

The iSpring ICEK can be purchased separately to supply RO water directly to your refrigerator, ensuring crystal-clear ice cubes. It's simple to install and connects your RO system to your fridge's ice maker or water dispenser.

■ TDS Test Meter (Model #TDS2 or TDS3)

The TDS test meter allows you to regularly check your water quality and helps determine the appropriate time for filter replacement.

■ Tubing (Model #T14B or T14W)

1/4" food-grade tubing available in 50-foot rolls for convenient tubing replacement or system extensions.

■ iSpring Tanks

This RO system can be used with a storage tank of 20 to 200 gallons. A tank helps meet the impulsive high-volume demand and build a commercial Reverse Osmosis solution.



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