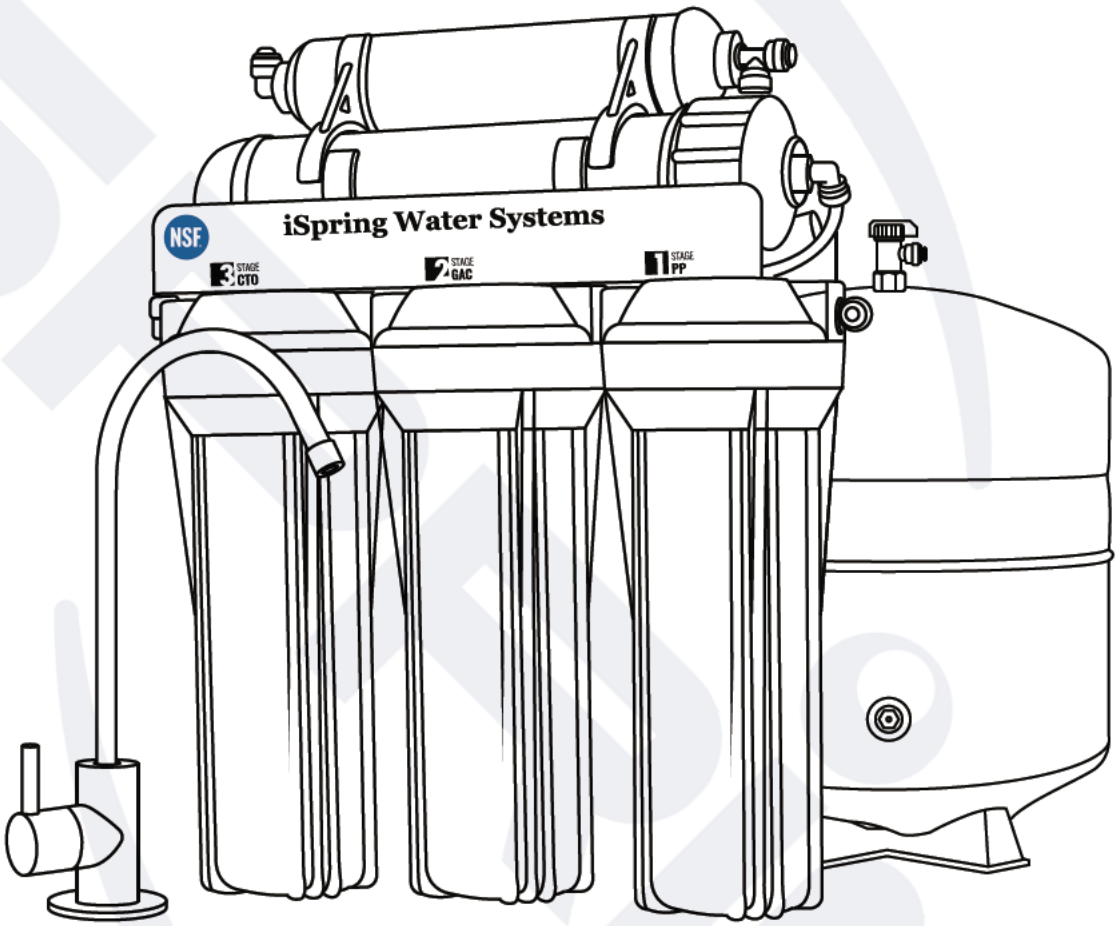
UNDER SINK

iSpring RCC Series Reverse Osmosis Water Purification System



Installation Instructions & User Manual

Ver. 11/2022

iSpring Water Systems

RCC7 / RCC7AK / RCC7AK-UV Tested and Certified
by NSF International against NSF/ANSI 58

We stand behind our products

Since 2005, iSpring has been dedicated to providing high-quality drinking water to families across the United States. We provide 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 of 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 Operation Manual (after this, 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.

- 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 (4 - 37 °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 in-line water supply and drain the remaining water from the system. Within the range, the warmer the water, the faster 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.
- If leaking occurs, shut 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.
- It is recommended that users check external fittings and connections regularly to ensure all components are secure and operating properly.
- 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.
- 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 the use of the appliance by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance.
- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given safe supervision or instruction concerning the use of the appliance and understand the hazards involved. Children shall not play with the appliance. Children shall not conduct cleaning and user maintenance without supervision.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.
- The new hose-sets supplied with the appliance are to be used, and the old hose-sets should not be reused.

Product Features

1) Product Scope

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

2) Water Treatment Process

5-Stage System: Municipal Tap Water → PP Sediment Filter → GAC Filter → CTO Filter → RO Membrane → Post Activated Carbon Filter → Purified water

6-Stage System: Municipal Tap Water → PP Sediment Filter → GAC Filter → CTO Filter → RO Membrane → Post Activated Carbon Filter → Alkaline Filter / UV Light / DI Filter → Purified water

7-Stage System: Municipal Tap Water → PP Sediment Filter → GAC Filter → CTO Filter → RO Membrane → Post Activated Carbon Filter → Alkaline Filter → UV Light → Purified water

3) Filtration Performance

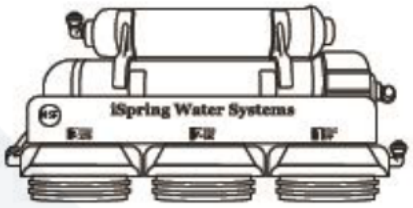
Stage	Filter	Purpose
1st	Polypropylene (PP)	Removes sediments, dust, dirt, sand, silt, rust, and particles.
2nd	Granular Activated Carbon (GAC)	Removes chlorine, taste, odors, cloudiness, and colors.
3rd	Carbon Block (CTO)	Further enhances the sense and taste of the water.
4th	Reverse Osmosis (RO) Membrane	Removes up to 99% of contaminants, such as lead, chlorine, fluoride, arsenic, hormones, asbestos, calcium, sodium, iron, etc.
5th	Post Activated Carbon	Removes any possible residual taste and odors from the tank.
6th/7th	Alkaline	Adds back essential minerals while enhancing the water taste.
	Ultraviolet (UV)	Removes waterborne contaminants.
	Deionize (DI)	Produces filtered water with zero or near zero TDS.

4) Operating Conditions

Parameter	Specification
Minimum Inlet Water Pressure	45 psi
Maximum Inlet Water Pressure	70 psi
Incoming Water Temperature	40 - 100 °F
pH Range	2.0 - 11.0
Maximum TDS	750 ppm
Maximum Chlorine	2.0 ppm
Maximum Hardness at pH 6.9	2,000 ppm

- Maximum water pressure: 70 psi, or a pressure regulator (part# APR70) is required if there is high water pressure or water hammer.
- Minimum water pressure: 45 psi, or a booster pump is needed to improve 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.

Component Identification



RO Machine Head
(membrane not yet installed)

3 Pre-filter Housings

3 Pre-filter Cartridges

RO Membrane

Storage Tank
(Model: T32M)

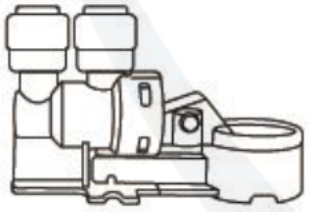
RO Faucet w/
Installation Kit

Feed Water Adapter
(Model: AFW43)

4- color Tubing
Set

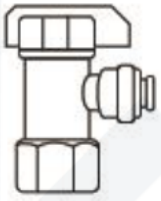
Drain Saddle 1/4"
(Model: ADS1K)

Housing Wrench
(Model: AWR2)



Leak Stop Valve
(Model : ALS1)

Faucet Bracket



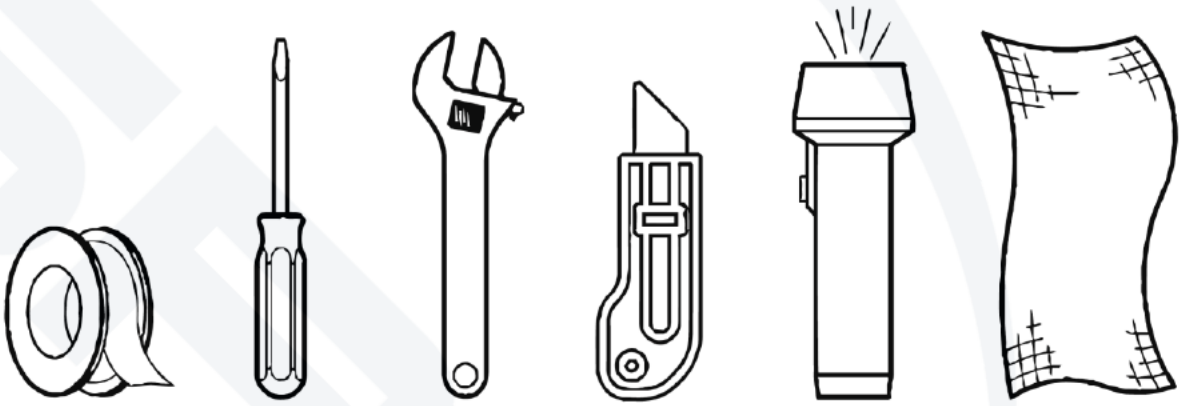
Tank Valve
(Model : ABV2K)

* If your system is a 6-stage or 7-stage with an Alkaline, DI, or UV filter, they are already pre-installed on the machine head.

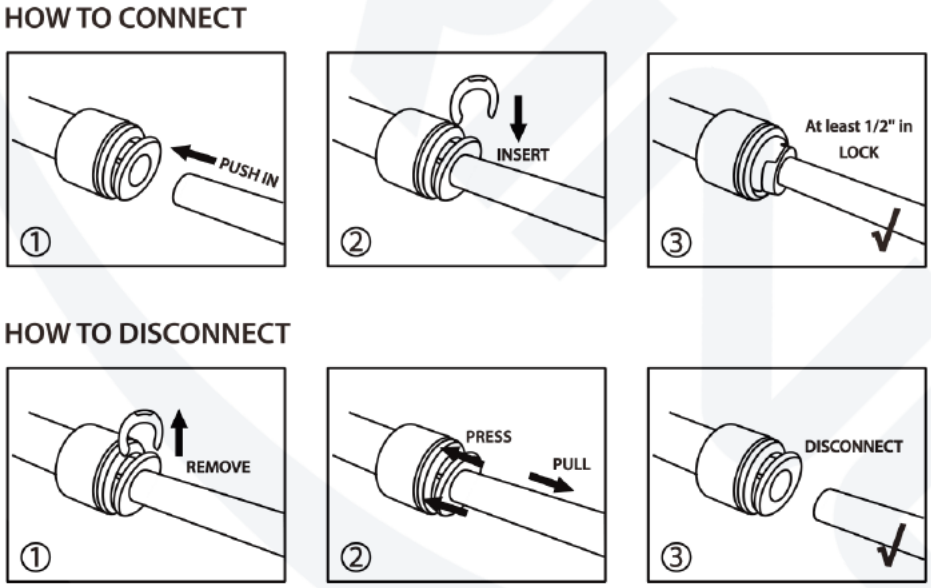
Installation

Before you start the installation

- It is highly recommended that you watch the video **"iSpring RCC7 Series RO System DIY Installation | Step by Step | Latest Edition"** on **YouTube.**
- Choose a suitable location for the system. Again, it must be placed on a flat surface and make sure this system is to be installed on an INDOOR cold-water supply ONLY.
- Check the packing list to confirm that all accessories are included in the package. Contact iSpring customer service if any components are missing.
- Required tools:



- Recommended tools:
  - Variable speed drill with two bits: 1/4" (for drilling a hole on PVC drain pipe), 1/2" hollow diamond (for drilling a hole on the counter-top for drinking faucet)
  - 5/8", 9/16" open-end wrench, or adjustable wrench, pliers
- Quick connect instruction:



It is highly recommended that you watch the video **"How to Connect and Disconnect Quick Connect Fittings | DIY Installation"** on **YouTube.**

Cut the tubing end squarely using a utility knife or scissors. Insert the tubing into the quick connect fitting for at least 1/2". You will need to wiggle the tube and apply additional pressure to create a seal.

Step 1: Install Feed Water Adapter (AFW43)

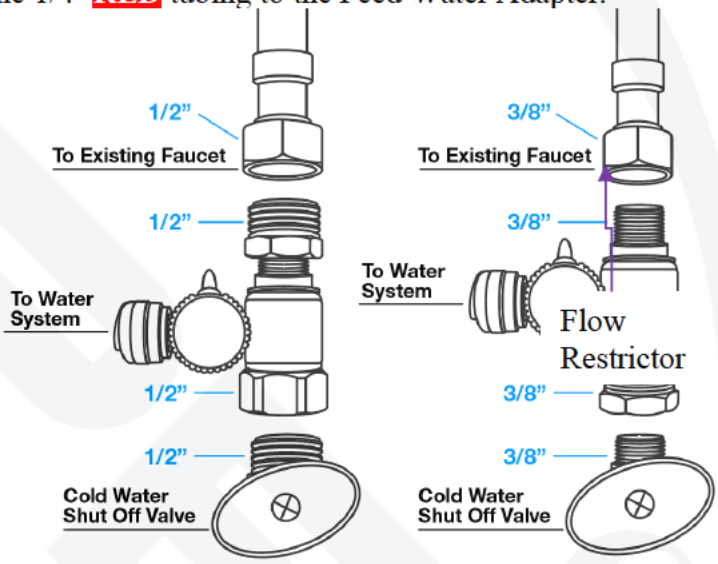
It is highly recommended that you watch the video **"How to Install a Feed Water Adapter for Reverse Osmosis (RO) and Other Applications | iSpring AFW43"** on **YouTube.**

Step 1. a. Turn off the Cold Water Supply Valve (CWSV) under the sink and open the kitchen faucet to release pressure. Grab a towel or bucket to catch any water drips. Disconnect the kitchen faucet connector pipe from the CWSV.

Step 1. b. Install the Feed Water Adapter onto the CWSV and tighten it using a wrench or pliers. Ensure the O-ring is seated inside the adaptor.

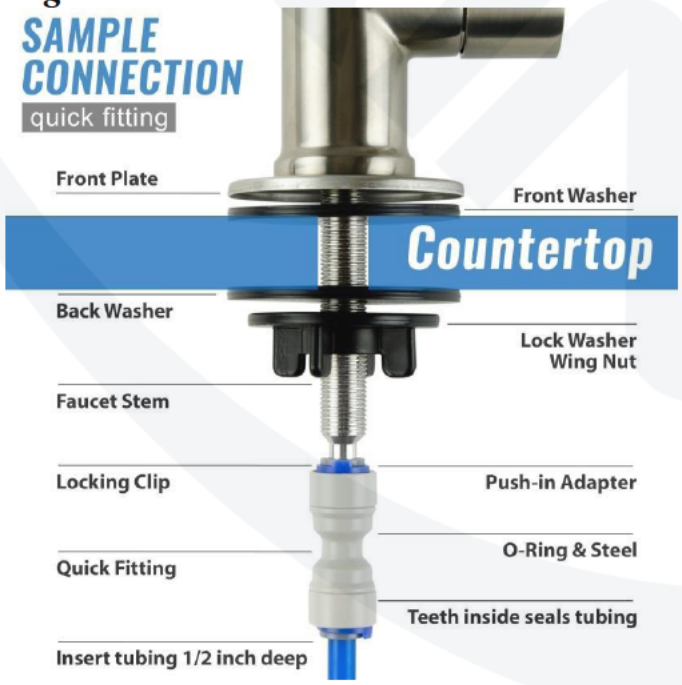
Step 1. c. Re-install the kitchen faucet connector pipe onto the male end of the Feed Water Adapter. Turn the handle of the Feed Water Adapter to the perpendicular OFF position. Turn on the CWSV slowly, and ensure you get a proper seal.

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



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

Step 2: Install Drinking Water Faucet



If your kitchen sink does not have an existing 1/2" faucet hole, you can either drill a hole (Refer to ***How to drill a Hole on Sink or Counter-top***), or use the enclosed faucet bracket (Refer to ***Installing the Faucet Bracket***).

How to Drill a Hole in Sink or Counter-top

1. You are highly recommended to watch the YouTube video "How to Drill Faucet Holes."
2. Choose a 1/2" Diamond Core Bit for granite and a titanium drill bit for steel. Do NOT use a hammer drill on natural stone, glass, and ceramic.
3. An indent should be made with a punch on steel before drilling to help guide the bit.
4. 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 it breaks through the slippery surface.
5. Use a coolant to disperse the 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.
6. Hold the drill firmly and vertically at the slowest speed to prevent the drill bit from slipping on the counter.
7. Once you break through the smooth surface, swirl the drill a little to apply pressure evenly in a circle. Be patient and deliberate. It can take 20 – 40 minutes to drill through 1".

Step 2. a. Wipe clean, and dry the area.

Step 2. b. Slip the front plate on the faucet stem, followed by the rubber washer. Insert the faucet stem into the hole on the counter-top. Under the sink, slip on the back rubber washer, and tighten the nut with the plastic wing.

Step 2. c. Slide the quick fitting up into the faucet stem, ensure it sits securely on the base, and then lock it in place by sliding the blue clip under the collet.

Step 2. d. Insert the **BLUE** tubing about 1/2" into the push-in fitting, and secure it with the blue clip.

Installing the Faucet Bracket

1. Mount the bracket to the sidewall of the cabinet.
2. Insert the faucet stem into the hole on the bracket. Slip on the back rubber washer.
3. Tighten the nut with the plastic wing.

Step 3: Install Drain Saddle (ADS1K)

It is highly recommended that you watch the video **"How to Install iSpring Drain Saddle (ADS1K) for Reverse Osmosis (RO) System | DIY Installation"** on **YouTube.**

Step 3. a. Choose a proper spot anywhere before the P-trap on the drain pipe to install the drain saddle and tubing. Remember that the drain saddle should NOT be installed after the P-trap to prevent potential microorganism growth.

Step 3. b. Drill a 1 /4" hole in the drain pipe, and paste the black sticky pad around the hole.

Step 3. c. Cut the **BLACK** tubing end to make a 45° angle. Insert the tubing into the 1/4" hole in the drain pipe, install the back plate, and tighten the two screws with hex nuts while the tubing remains in the hole.

Step 3. d. Insert the Lock Clip. Pull the tubing lightly to make sure it is secure.

Step 4: Install the Vertical Filters: Stages 1, 2, and 3

Step 4. a. Ensure that the O-ring is seated inside the groove at the top of the filter housing. Food-grade silicone jelly may help the O-ring stay in place and seal better.

Step 4. b. Filter cartridges are preserved in shrink wrap. Note the direction sign on the sticker before removing the wrap.

Step 4. c. When placing the filter cartridge into its housing, ensure it is centered, and the knob protruding from the bottom of the housing fits in the central hole of the filter.

Step 4. d. Screw the housing, with filters attached, onto the housing caps (the caps are pre-assembled on the machine head). The cap also has a center knob to insert into the center hole of the filter cartridge. Twist the housing on in a counter-clockwise direction by hand, and then use a housing wrench to tighten it up for about 1/4 – 1/2 turn. **Do not overtighten, as this can cause leaks and make it difficult to unscrew the housing when replacing filters.**

Note the second stage GAC is the only filter that must go in a certain direction. Make sure that the end with the rubber washer faces up, attaching to the housing cap.

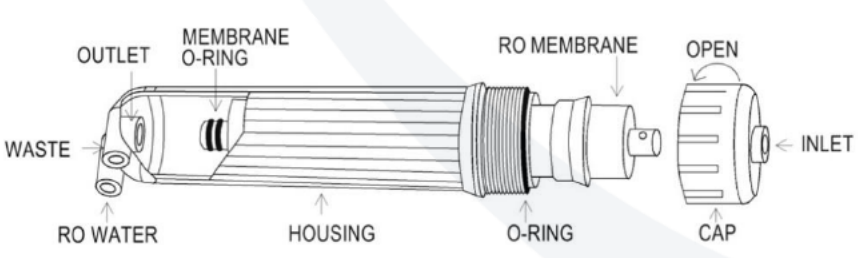
Step 5: Installing Tank Shut-off Valve (ABV2K)

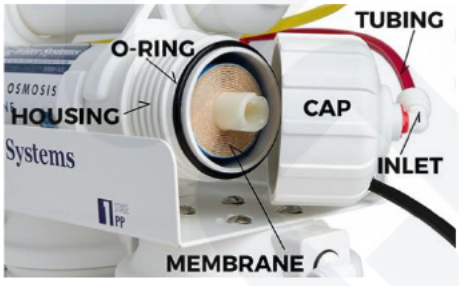
Step 5. a. Add 10 - 15 wraps of Plumber's tape clockwise (when looking from above) onto the metal thread at the top of the tank.

Step 5. b. Screw the Tank Shut-off Valve onto the tank and tighten it by hand. **Do not overtighten**.

Step 5. c. Connect the **YELLOW** tubing into the Quick-Fitting on the TSV.

Step 6: Installing the Reverse Osmosis Membrane





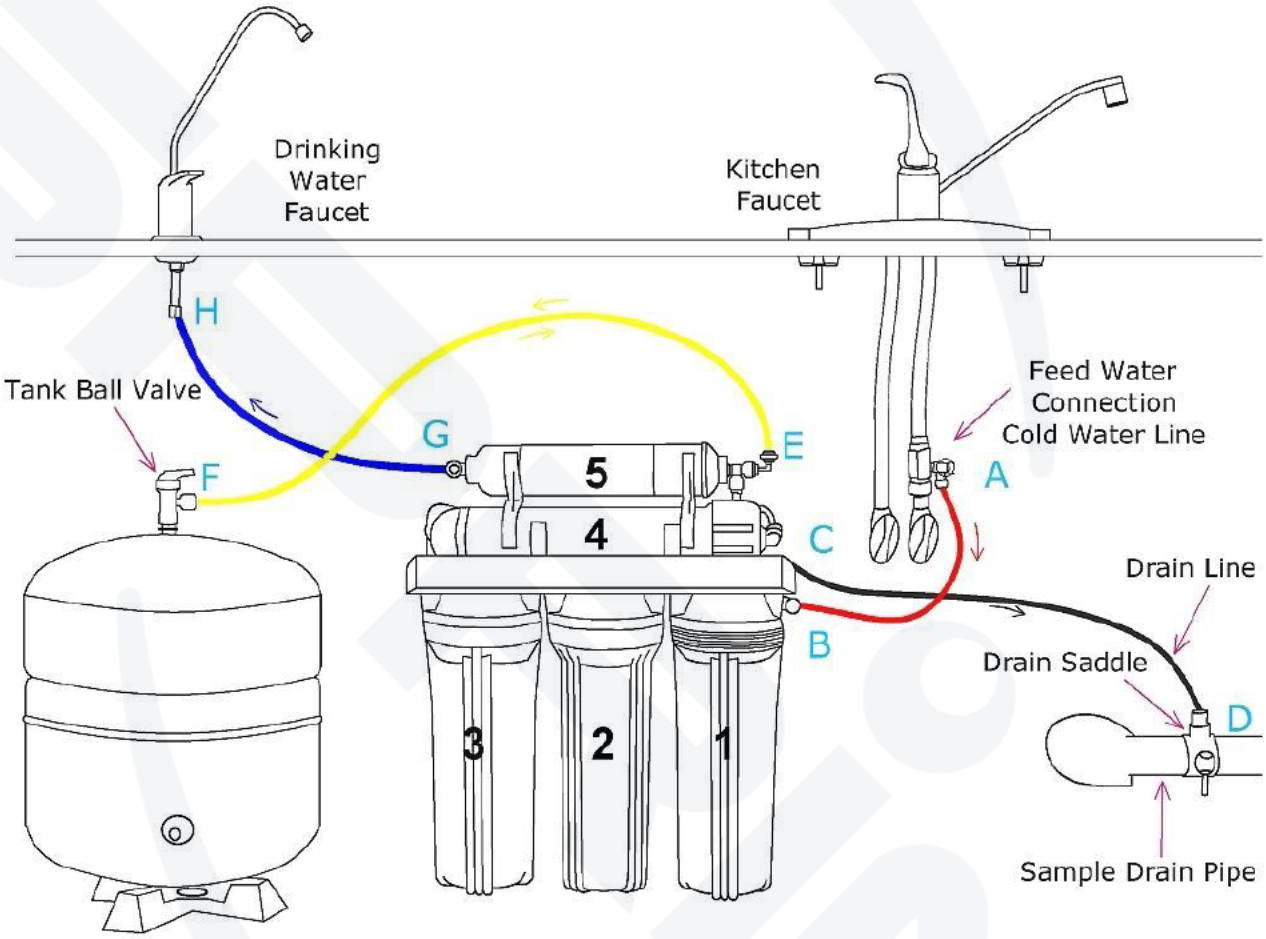
Step 6. a. Disconnect the tubing from the quick-fitting connection on the membrane cap.

Step 6. b. Open the membrane housing cap. A thick rubber band can be slipped on the housing body for better grip.

Step 6. c. Find **the inner end with 2 O-rings**, cut open the end of the sealed bag, use it to hold the RO membrane to avoid contamination, and firmly insert the membrane into the housing until the outer end without O-ring is entirely inside the housing. See Figure above.

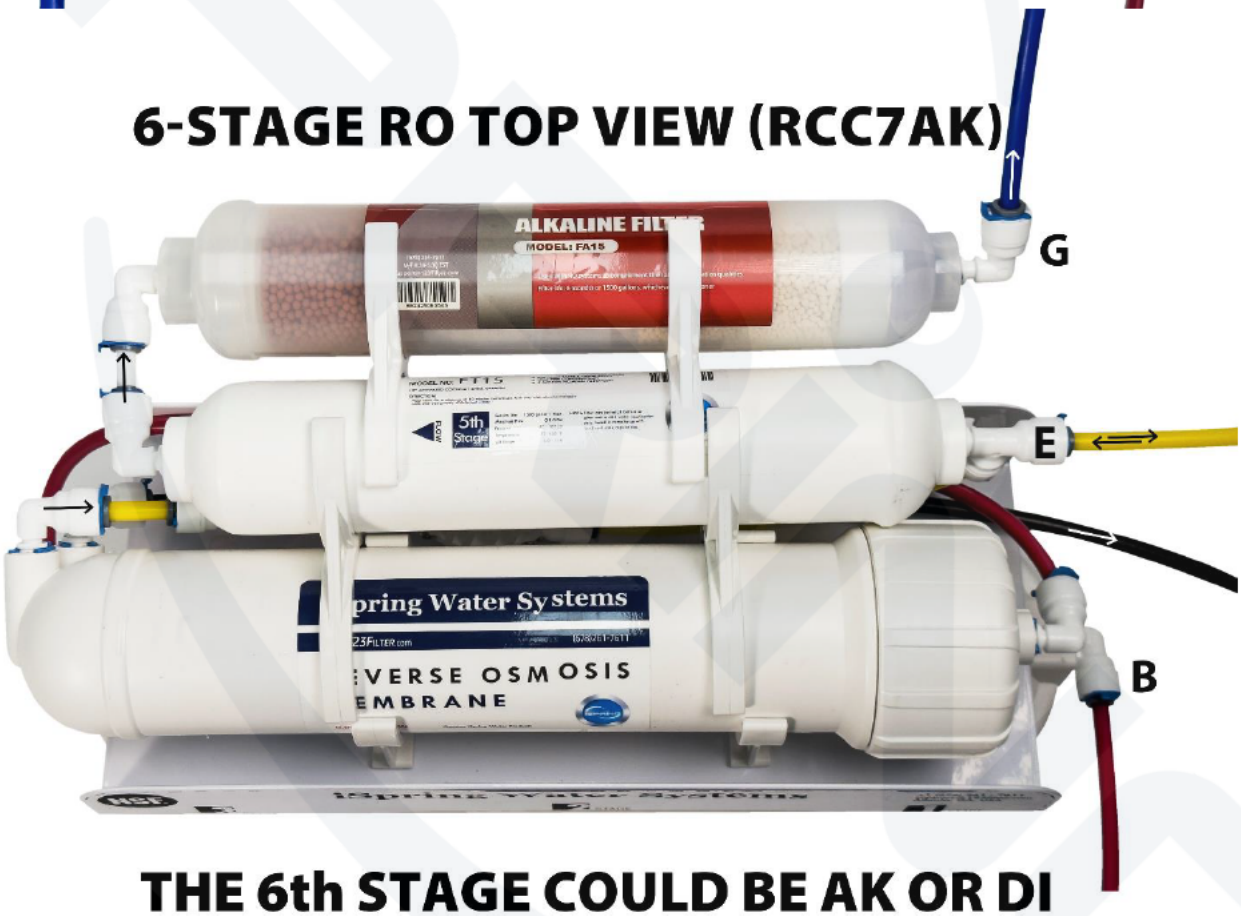
Step 6. d. Before twisting the housing cap back on, check that the **O-ring is evenly snagged on the membrane housing**. Hand tighten it, then tighten up for about 1/4 – 1/2 turns using a small plastic housing wrench, but do not over-tighten. DO NOT reconnect the tubing to the inlet on the cap at this point (this will be done in the system startup).

Step 7: Tubing Hook Up



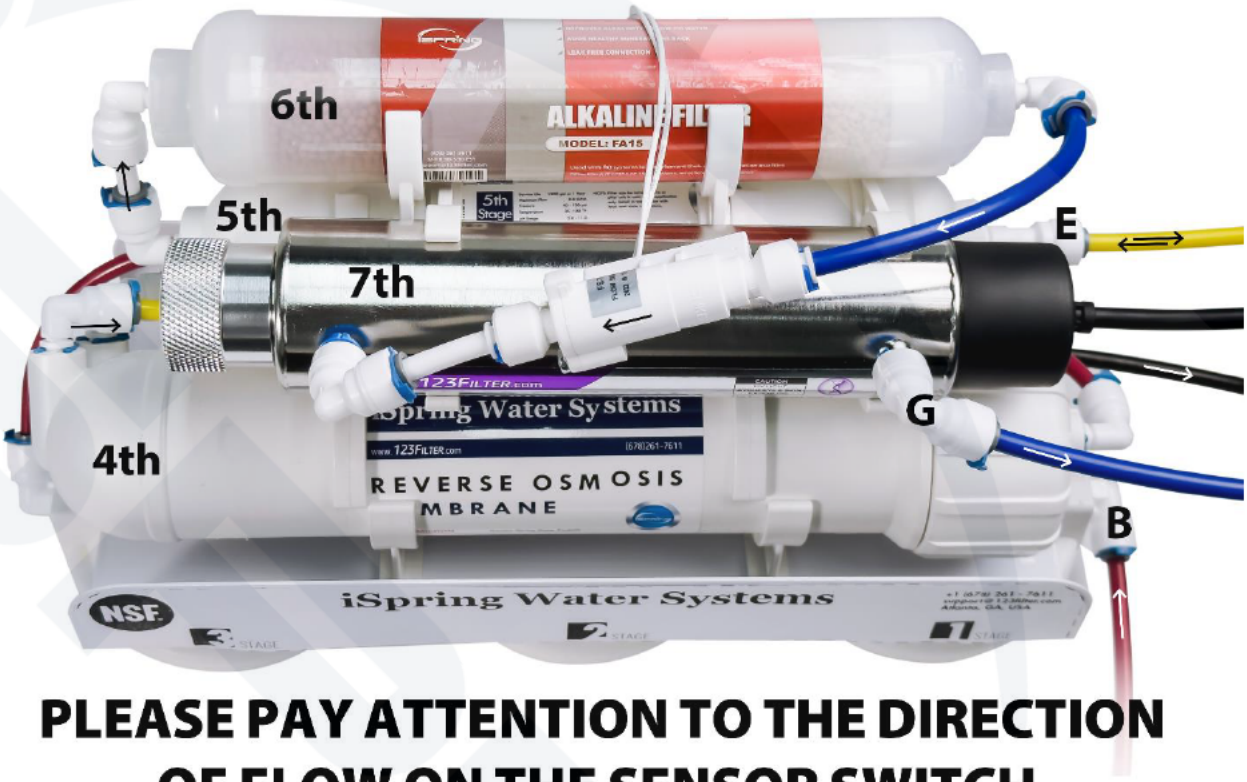
5-STAGE RO TOP VIEW (RCC7)

6-STAGE RO TOP VIEW (RCC7AK)



THE 6th STAGE COULD BE AK OR DI

7-STAGE RO TOP VIEW (RCC7AK-UV)



PLEASE PAY ATTENTION TO THE DIRECTION OF FLOW ON THE SENSOR SWITCH

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

RED tubing: connect source water from the Feed Water Adapter (**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**)
YELLOW tubing: install the T-fitting to the 5th Stage Post Carbon Filter (**Point E**) and then connect it to the Storage Tank Valve (**Point F**)
BLUE tubing: connect the 5th Stage Post Carbon Filter (**Point G**) and the drinking faucet (**Point H**)

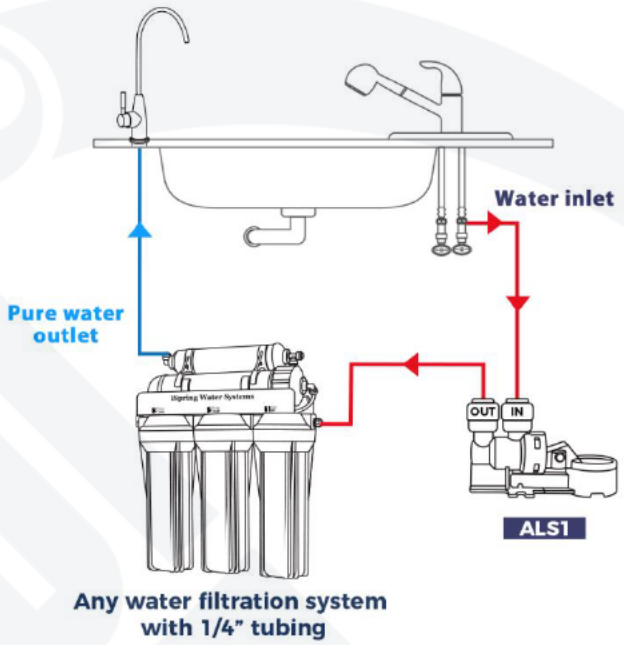
Note: For models with AK/DI/UV filters, the **BLUE** tubing should be used to connect the output of the final stage and RO faucet (**Point H**).

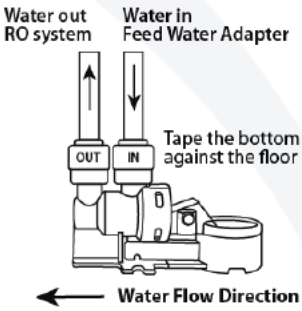
You may neatly organize the tubing, but leave enough length so the filter system can be moved freely in and out of the cabinet when replacing filters.

Step 8: Leak Stop Valve (ALS1) Installation

The Leak Stop Valve is a reusable mechanical leakage protector. It will shut down the feed water whenever a water leakage is detected.

Step 8. a. Make sure the end of the tubing is cut square before connecting it to the fitting.
Step 8. b. Follow the water flow direction indicated on the Leak Stop Valve to connect it to the water inlet pipeline.
Step 8. 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 9: Mounting the System (Optional)

- Mounting the system is NOT required. The system does NOT need to be mounted to work correctly.
- Please note that 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 10: System Start-up (model specific sub-steps are marked with a *)*

Note:
If your model has a UV stage, do not plug in the UV power until the system has been fully flushed.

Step 10. a. Make sure no tubings are kinked. **Turn the Tank Shut-off Valve OFF (perpendicular to the YELLOW tube).** Place a towel under the system to catch any water leaks.

Step 10. b. Disconnect the RO membrane housing cap inlet tubing. Open the Feed Water Adapter Valve (AFW43) and Cold Water Supply Valve (CWSV), and flush the first three stages into a bucket until the water turns clear.

Step 10. c. Once the water is clear, shut off the AFW43 and reconnect the tubing to the RO membrane housing cap. **You will want to flush the first three stages like this whenever they are changed.**

Step 10. d. Open the RO faucet. Slowly open the AFW43 and **check for any leaks. The top 3 causes of leaks are 1) The tubing is not fully inserted into the quick-connect fitting. 2) The O-ring is not in the correct place or is kinked. 3) The Housing/Cap is not tightened properly or is misaligned with the threads.**

Step 10. e. Water will start slowly trickling from the RO faucet within 5 minutes. Let the faucet trickle for at least 15 minutes to flush out the entire system apart from the tank. The water may appear black at first due to loose carbon from new carbon filters. It will eventually turn clear apart from many tiny air bubbles leaving the system.

Step 10. f. Shut off the RO Drinking Faucet. Open the Tank Shut-off Valve. Wait for the tank to fill up completely. This will take 1 to 2 hours depending on your water temperature (40°F - 100°F, the warmer, the faster) and source water TDS (up to 750 ppm, the lower, the faster).

Step 10. g. After the tank is full, open the RO Drinking Faucet to drain the tank completely. **Do not use the first tank of water.** Let it drain into the sink until the stream turns to a trickle. This means the tank has emptied, and you can close the RO faucet to let it begin filling again.

Step 10. h. *** If your system has a UV filter**, plug in the UV power and check to ensure the UV light turns on when water flows through it. The UV filter has a Flow Sensor Switch that detects water flow and only turns the light on when needed. If the UV is not turning on when water flows through, confirm that your power source has power. Typically, the garbage disposal outlet only has power when the disposal is switched on.

Step 10. i. The total dissolved solids (TDS) of the water should be tested periodically to verify that the system is performing properly.

Step 10. j. Check for leaks daily for the first two weeks after installation to ensure the system is functioning correctly. Install the Flood Alarm (optional, model: WD01) for additional peace of mind and protection.

Congratulations, you have successfully installed your iSpring Reverse Osmosis Water Filtration System!

Enjoy fantastic reverse osmosis water right from your tap!

----------End of Installation Section----------

- Efficiency rating is verified by testing per NSF/ANSI 58, Section 6.7.
- Efficiency rating means the percentage of the influent water to the system available to the user as RO treated water under operating conditions that approximate typical daily usage. System installation must comply with state and local laws.
- This RO system contains a replaceable treatment component, critical for effectively reducing TDS, and that product water shall be tested periodically to verify that the system is performing properly.
- RCC7 Series conforms to NSF/ANSI 58 for the specific performance claims as verified and substantiated by test data.
- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Systems certified for cyst reduction may be used on disinfected water potentially containing filterable cysts.
- This reverse osmosis system contains a replaceable component critical to the system's efficiency. Replacement of the reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to ensure the same efficiency and contaminant reduction performance.

System Maintenance

All iSpring RO systems are designed with ease of use and low maintenance. 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 123filter.com, Amazon, Home Depot, Walmart, Overstock, eBay, and Houzz.

System Model	1-Year Filter Pack	2-Year Filter Pack	3-Year Filter Pack
RCC7*, RCC7P	F7-GAC	F15-75	F22-75
RCC7AK*, RCC7P-AK	F9K	F19K75	F28K75
RCC7AK-UV*	F10KU	F21KU75	F31KU75
RCC7D	F9D	F19D75	F28D75
RCC7U	F8U	F17U75	F25U75
RCC100P	F7-GAC	F15-100	F22-100
RCC1UP	F8U	F17U100	F25U100
RCC1UP-AK	F10KU	F21KU100	F31KU100

*Only RCC7, RCC7AK, and RCC7AK-UV are certified by NSF International

STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	STAGE 6	STAGE 6 or 7
Sediment #FP15	GAC #FG15	CTO #FC15	RO Membrane MC1/MC5/MC7	Post Carbon #FT15	Alkaline #FA15	Deionization #FD15	UV Lamp #UVB11
Up to1 year	Up to 1 year	Up to 1 year	Up to 3 years	Up to1 year	Up to 1 year	Up to 1 year	Up to 1 year

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

Note: Stages 6 and/or 7 only exist on specific models.

When to change the filter?

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 remarkable decrease in the tap water flow or detect an unpleasant smell, taste, and odor, it would be a good time to change your filters.

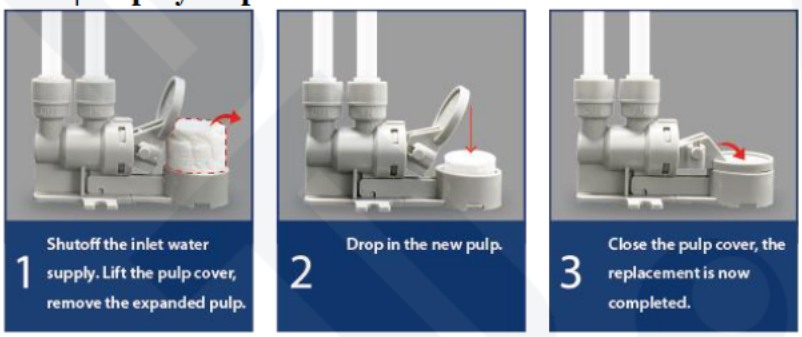
How to change the filters?
Carefully follow the instructions that come with the filter package.

O-rings: Replace every 3 years or sooner if a leak happens at the O-ring.
The package comes with spare O-rings for the pre-filter housing and the membrane housing. Please save them with this manual.

Tank Maintenance
Emptying and refilling the tank at least once a month is recommended. This keeps the water inside the tank fresh and not sitting for an extended period.

What should I do with the system when going out of town?
When leaving for an extended time, you will want to shut 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 faucet until it stops running. This will signify that the tank is empty. The filters should be replaced if the system is not used for over a week, as they will be sitting in stagnant water. If you expect to be gone for more than a week, you will want to remove the RO membrane and store it in a damp Ziploc bag in the refrigerator.

Leak Stop Valve Pads (ALS1P3) Replacement
It is highly recommended that you watch the video **"Absorb Pad Replacement of iSpring Leak Stop Valve | Easy DIY | Step by Step"** on **YouTube.**



Optional Add-on

Ice Maker Connection Kit (Model# ICEK)
The iSpring ICEK can be purchased separately to feed RO water to your refrigerator for crystal-clear ice cubes and great-tasting water. It can be easily installed to connect the RO system to your fridge's ice maker or water dispenser.

TDS Test Meter (Model# TDS2 or TDS3)
The TDS test meter can be used to check your tap water quality regularly and help determine the time for filter replacement.

Tubing (Model# T14B or T14W)
1/4" food-grade tubing in a 50' roll, which is good to use for tubing replacement and extension as needed.

Top Mount Faucet Installation Kit (Model# AIG1)
A US patent pending tool-free product for Countertop RO faucet installation. It works great for counter-tops with 1" - 1 ½" (D) holes and also fits a standard 7/16" drinking faucet stem. It is highly recommended that you watch the video **"How to install a drinking water faucet WITHOUT reaching under sink | iSpring AIG1 Installation Kit"** on **YouTube.**

iSpring Tanks
This RO system can be used with a 20 – 200 gallons storage tank. A tank helps meet the impulsive high-volume demand and build a commercial or whole house Reverse Osmosis solution.

Troubleshooting

Trouble	Possible Issue	Possible Solution
No output water from the RO faucet	a. Water supply is turned off. b. Incorrect installation. c. Crimped tubing impedes the water flow.	a. Turn on the water supply. b. Verify all tubing connections. c. Check and uncrimp all tubings.
Tank not filling after several hours	a. Incoming water pressure is below 45 psi. b. Incorrect installation. c. Tank valve (ABV2K) is closed.	a. Increase the incoming water pressure, such as adding a booster pump. b. Verify all tubing connections. c. Make sure the ABV2K is on.
Leakage in connections	a. Tubing is not inserted properly into the port. b. The O-ring inside the fitting is not creating a seal. c. Not applied enough Plumber's tape to the tank threads. d. The housing/cap is not tightened properly or misaligned with the threads.	a. Reinsert the tubing about 1/2" into the port. b. Check the O-ring. Replace it if necessary. c. Reapply at least 8-10 wraps of Plumber's tape to ensure a proper seal. d. Retighten the housing/cap properly.
Low water flow (trickle) from RO faucet	a. Tank has not been given enough time to fill. b. Incoming water pressure is below 45 psi.	a. Allow approximately two hours for the tank to fill. b. Increase the incoming water pressure, such as adding a booster pump.
High TDS in RO water	a. Incorrect installation.	a. Verify all tubing connections and the direction of filter installation. Contact the iSpring Customer Service Team if the trouble still exists.
The system has a continuous drain	a. Incoming water pressure is below 45 psi, so the stank can not be fully filled to shut off the system. b. The Automatic Shut-Off Valve (AAS2) or check valve is defective.	a. Increase the incoming water pressure, such as adding a booster pump. b. See the **Steps** below for details. Contact the iSpring Customer Service Team for replacement.
UV light is not on when water flows through	a. No power inlet.	a. Check the power source.

Steps to test if AAS2 or check valve is the cause of the continuous drain:

a. Fill some water from the RO unit to ensure the drain water is flowing.

b. Close the valve on top of the tank.

c. Wait approximately five minutes, then check if the drain tubing is still flowing.

d. If not, both are in good working condition. The ASOV or check valve is defective if it is still flowing. Turn on the system and allow the tank to fill. Tilt the tank to check the weight and ensure it is filled at least partially. Then turn off the feed water adapter. With the tank valve open, leave the system still for 15-30 minutes. If the tank is emptied, the check valve is defective.

For questions or concerns, please contact us at **support@123filter.com** or visit our help page at **123filter.com/support**

Glossary and Terms to Know

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

Alkaline Remineralization Filter* (#FA15): 6th stage. Remineralizes the RO water and neutralizes the pH

Automatic Shut-Off Valve (#AAS2): The white, four way valve that automatically starts and stops the system's water production through pressure signals

Check Valve (#ACV1K): One-way valve that does not allow water back into the membrane housing. It looks like a standard fitting and is located on the RO water port of the membrane housing

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

Drain Saddle (#ADS1K): Attaches to your under-sink drain pipe to secure the drain tube coming from the system

Drinking Faucet (#GA1-BN): The output source for the RO water. The faucet is a non-air gap faucet with a 1/4" tubing connection. The optimally sized counter-top hole for the faucet is 1/2", but holes up to approximately 1 1/2" will work

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): It goes in line with your cold water line and branches off a water supply line to the RO system. Can adapt to 3/8" and 1/2" cold water lines

Feed Water Solenoid Valve (#ASOW7): Opens the booster pump's water supply when both the low-pressure and high-pressure switches are on. Shuts off the water supply when one or both turn off

Flow Restrictor (#AFR300): Limits the drain water flow, keeping pressure in the system and allowing the RO process to occur

Flow Sensor Switch* (#FSS): Detects water flow to turn the UV filter on and off as needed

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

GPD: Gallons Per Day

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

Ice Maker Kit (#ICEK): Add on kit that allows you to run water from the system to your fridge ice maker or fridge water dispenser

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

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

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

Polypropylene (PP) Sediment Filter (#FP15): 1st stage. 5-micron 10" polypropylene sediment filter. Traps particulate matter such as dirt, rust, and silt

Post Activated Carbon Filter (#FT15): 5th stage. Works as a final polishing filter before the water is delivered to the faucet

ppm: Parts Per Million, mg/L

Pressurized Holding Tank (#T32M): 3.2 gallons capacity pressurized water holding tank. The air bladder forces the water to the drinking faucet when the faucet is opened. The tank comes pre-pressurized and should read 7-10 psi when empty

psi: Pounds Per Square Inch, a unit used to measure water pressure

Quick Connect Fitting: A secure, easy-to-connect, and disconnect type of fitting used on the system. The tubing is inserted past the tiny O-ring located inside each fitting, then locked into place by the spider lock and blue clip

Reverse Osmosis (RO) Membrane (#MC7): 4th stage. High rejection, 0.0001 microns, thin-film composite (TFC) reverse osmosis membrane, the heart of the reverse osmosis process

Stage 1, 2, and 3 housing O-Rings (#ORF): 3 5/8" O.D. O-ring used to create the seal between the stage 1, 2, and 3 filter housings and their respective caps

Stage 1 See-Through PP Filter Housing (#HC12): Transparent stage 1 housing holds the sediment filter. The see-through housing allows for the sediment filter to be visually inspected

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

T Fitting on Stage 5 Post Carbon Filter (#7544K): T fitting located on the right side of the stage 5 Post Carbon Filter

Tank Valve (#ABV2K): On/off valve that screws onto the top of the tank

TDS: Total Dissolved Solids, a measure of a water source's contamination level

TDS Meter (#TDS3): Handheld meter used to measure water quality

Tubing (#T14B / #T14W): 1/4" food grade tubing used on the system

UV Replacement Bulb* (#UVB11): Replacement bulb for the UV filter

UV Transformer/Ballast* (#UVT11A/UVT11B): Power supply for the UV filter. Indicator lights on the ballast will only light up when water is flowing. UVF11A is for 110V power sources, UVF11B is for 220V power sources

iSpring Standard Limited Warranty (End-Users Only)

In order to be eligible for this warranty, the end-user must register at www.123filter.com.

For all water filtration systems, and upon registration by the end-user, iSpring Water Systems, LLC (iSpring) warrants for a one year from the date of purchase that the product is free of defects in materials and workmanship and that it will function for the duration of the warranty according to its specifications (the "Limited Warranty"). EXCEPT FOR THIS LIMITED WARRANTY, ISPRING EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTIES OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. iSpring has no liability for any defect or deterioration which results from the improper installation, service, repair or use of the product. End-user's sole and exclusive remedy for any breach of the Limited Warranty shall be repair or replacement, at iSpring's option and expense. This warranty is only provided to end-users and only applies to products purchased directly from an authorized iSpring dealer or reseller.

However, we do not have the order information from websites other than 123Filter.com (Amazon, Home Depot, etc.), so please be sure to fill in that information upon registration of your system. If you have any questions or concerns about your product, please do not hesitate to call or email us, or put it in the notes/comments upon your warranty registration. Your satisfaction is our business!

If you are happy with our products and service, please show your support by writing a product review on Amazon, even just a single line. It takes you just a minute but means a lot to us. Thank you!

Warranty Registration Form

Name _____ Order# _____

Email _____ Phone _____

Address _____

City _____ State _____ Zip Code _____

Model #/ Serial Number

_____

Purchased at (e.g. Amazon, Home Depot)

_____

iSpring Water Systems, LLC
2480 Industrial Park Blvd, Cumming, GA 30041
678-261-7611

Plumber's information (Optional)

To best serve our customers, we'd like to recommend good plumbers throughout the USA. If you are happy with your installer, please provide their information so that we can pass it on as a courtesy.

Thank you!

Name of the plumbing company used to install your system:

_____

Phone #: (_____)-_____ or email : _____
of the technician.

Like our products?
Please show your support by writing a product review on the marketplace where you make your purchase. Even just a quick statement means a lot to us.

Thank you!

iSpringFilter.com

For questions, comments, or technical support, please contact us at:

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