

KOVIET

User Manual

The user manual contains important safety information.
Please read and keep it for future reference.



Model U1 / U1 Pro

Under Sink RO Water Filtration System

NEED HELP? CONTACT US!

If you have any questions or concerns about your new product,
please contact our Customer Support Team.

 **+1 (855) 358-5888**

(Monday-Friday 9:00 am-5:00 pm PST)



support@ikoviet.com



ikoviet.com



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INSTALLATION INSTRUCTIONS

1. Before Installation

1.1 Precautions

- All information in this section pertains to safety. Users must follow these guidelines to ensure proper use of the product.

PROHIBITION



Avoid installing the product under direct sunlight or in outdoor locations.



Do not expose the product to environments below 0°C/32°F.



Do not store flammable, explosive, or heat-sensitive materials near the product.

WARNING



In the event of a malfunction, please immediately cut off the water and power supply.



Keep out of reach of children. Do not allow children to operate the product.



For assistance, please contact your local sales service center.

ATTENTION



Do not disassemble the product by yourself as to prevent water leakage and potential damage.



Use the product only in a dry environment within the temperature range of 4–40°C (39–104°F).



If the water purifier will not be used for more than 24 hours, please shut off the water supply.



To ensure optimal performance, use only accessories and filter cartridges from KOVIET.



Only qualified personnel trained by the company are authorized to perform maintenance on this product.

1.2 Inspect the Package

- Please check the Parts List carefully after unpacking. Ensure all components are included.
- If any parts are cracked or broken, stop the installation and contact KOVIET customer service at **+1 (855) 358-5888 (PST)** or **email support@ikoviet.com**.

1.3 Required Tools

- Variable Speed Drill
- Flashlight
- Utility Knife or Scissor
- Adjustable Wrench
- Towel
- Screwdriver
- Drill Bit: 1/4" (for drain pipe) and 1.2" (for faucet hole: about 1.2"/30mm)

1.4 Product Specifications

Model No.	U1	U1 Pro
Max Daily Production Rate	600GPD	800GPD
Pure Water Rate	>1.6 L/min	>2.1 L/min
RO System Size	15.67"L x 4.49"W x 11.94"H	
Feed Water Pressure	0.1–0.4MPa/14.5–58PSI	
Feed Water Temperature	41–100°F/5–38°C	
Feed Water Requirement	Municipal Potable Tap Water	
Rated Voltage	Input 120–240V~ 60Hz	
PPC Filter Life Expectancy	6–12 Months	
RO Filter Life Expectancy	24–36 Months	

NOTE: The actual filter lifespan may vary based on local water quality and daily usage.

2. Parts List



Main Unit x1



RO Filter x1
(Pre-installed)



PPC Filter x1
(Pre-installed)



Faucet x1



Power Adapter
x1



Feed Water Adapter
3/8" and 1/2" x1



1/4"
Quick-Connect
Fittings x2



Drain Saddle
Set x1



BLUE 1/4" PE
Feed Water
Tubing x1



RED 1/4" PE
Waste Water
Tubing x1



YELLOW 1/4"
PE Filtered
Water Tubing x1



WHITE 1/4" PE
RO Filtered
Tubing x1



1/4" Lock Clip
x10



Teflon Tape x1

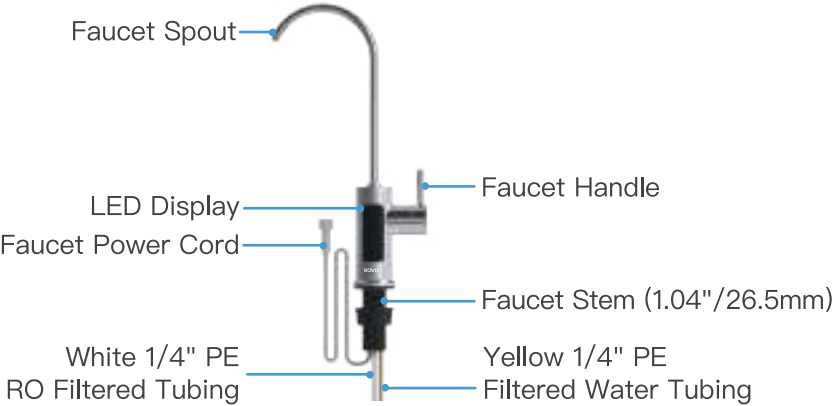
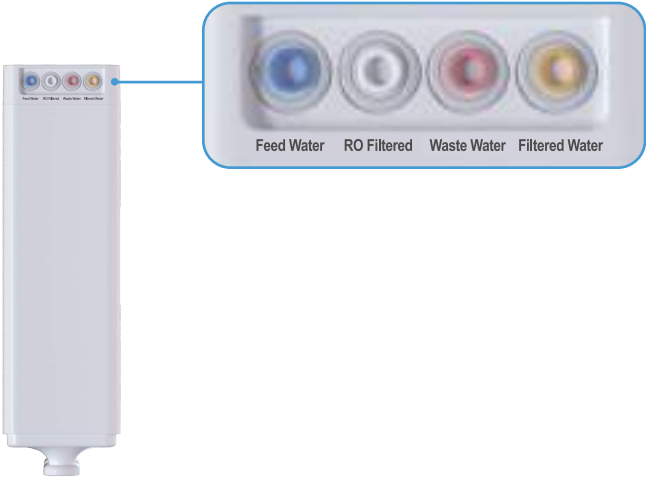
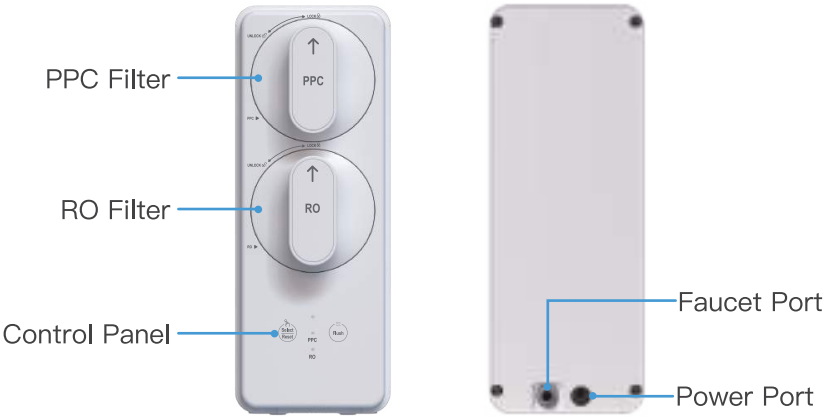


Sticker x1



User Manual x1

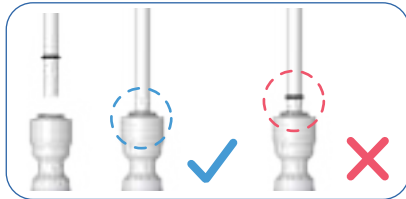
3. Product Introduction



4. Installation Tips

How to Use the Quick-Connect Fittings

To connect



Insert the tubing into the Fitting until the mark is flush with the edge. Ensure it is fully inserted for a secure seal and to prevent leaks.

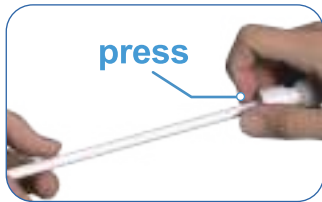


Once fully inserted, place the Lock Clip onto the Fitting to secure the tubing and prevent it from coming loose.



If the tubing is too long, cut it to a suitable length with a sharp utility knife or scissors. Ensure a square, clean cut and fully insert the tubing (**about 0.8"**).

To disconnect



1. Remove the Lock Clip from the Fitting.
2. Use your thumb and index finger to press down the lock sleeve. Use your other hand to pull out the tubing from the Fitting.

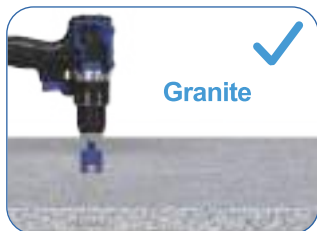
NOTE: Please do not pull out the tubing directly. This will damage the Fitting and cause leakage.



How to Drill a Hole into Your Sink or Countertop (Optional)

NOTE: Skip this step if a suitable-sized hole (about 1.2"/30mm) already exists.

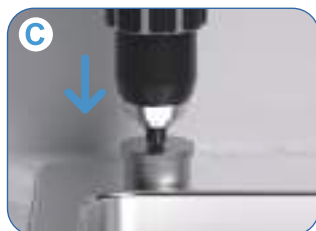
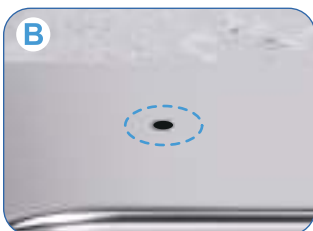
- 1 Use a diamond core drill bit for granite and a carbide-tipped drill bit for stainless steel. Do not use a hammer drill on natural stone, glass, or ceramic.



- 2 Apply the Sticker to a flat surface on your sink or countertop. Drill a hole referring to the Sticker hole size.



- 3 Before drilling, create a pilot dent in the center with the drill bit to prevent displacement.

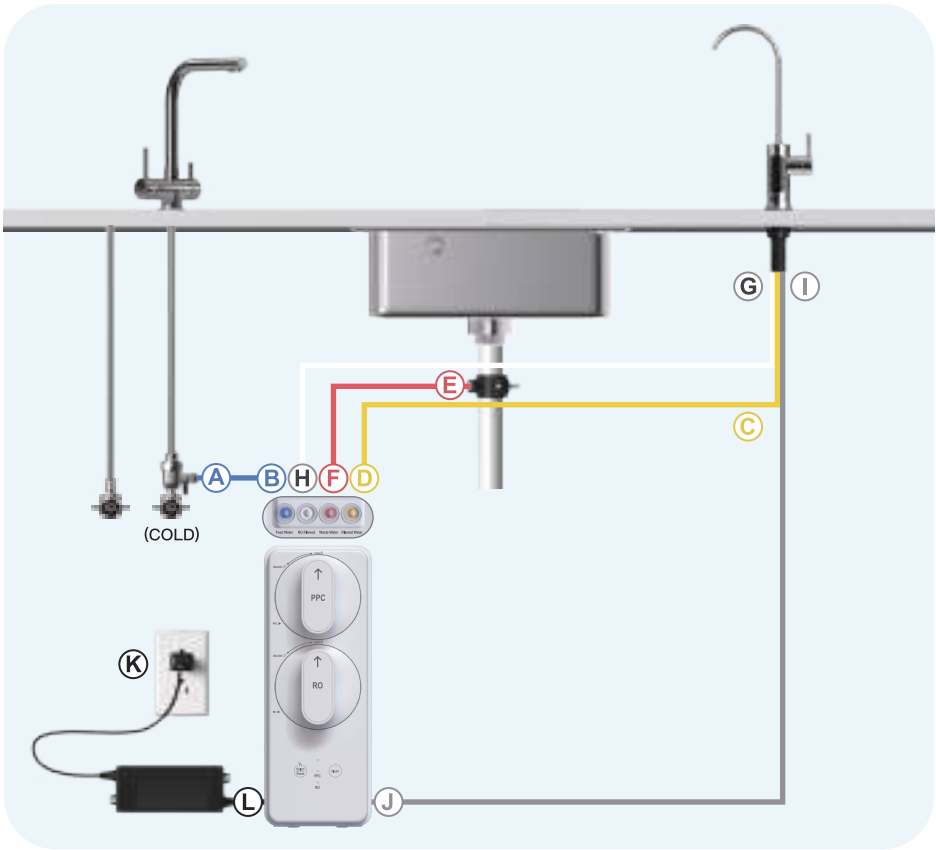


- 4 Apply downward pressure on the drill bit to ensure it penetrates the surface (exercise caution when drilling ceramic, as it can crack easily).



- 5 Rotate the drill bit to evenly expand the hole until it reaches the desired size.

5. Installation Steps



- A–B, From Feed Water Adapter to BLUE “Feed Water” port
- C–D, From Faucet to YELLOW “Filtered Water” port
- E–F, From Drain Saddle to RED “Waste Water” port
- G–H, From Faucet to WHITE “RO Filtered” port
- I–J, From Faucet Power Cord to Faucet port
- K–L, From Power Outlet to Power port

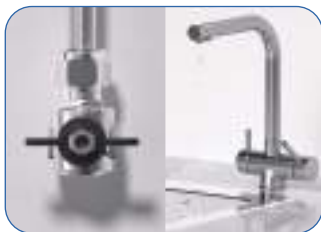
*NOTE

- The RO system must be connected to the COLD water supply ONLY.

STEP 1 Install the Feed Water Adapter (3/8" or 1/2")



NOTE: Ensure the shut-off valve on the Feed Water Adapter is closed before installation.



Shut off the water supply.

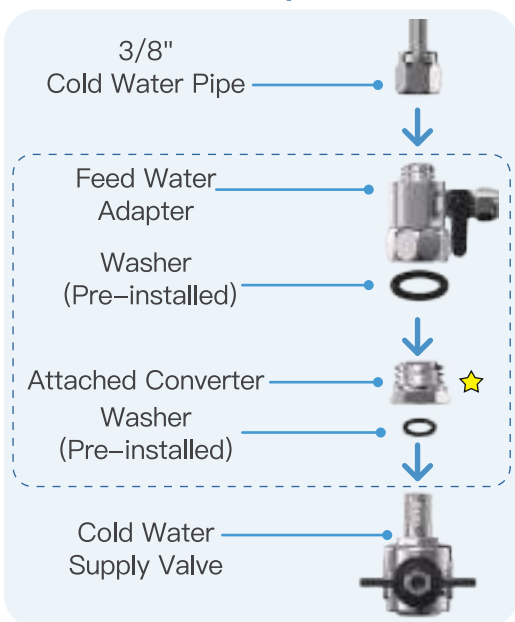
Open the kitchen faucet to release any residual water pressure in the pipes.



Disconnect the cold water pipe from the cold water supply valve.

NOTE: Ensure the water flow has completely stopped before proceeding. It is advisable to have a towel or bucket ready to catch any excess water.

3/8" Cold Water Pipe



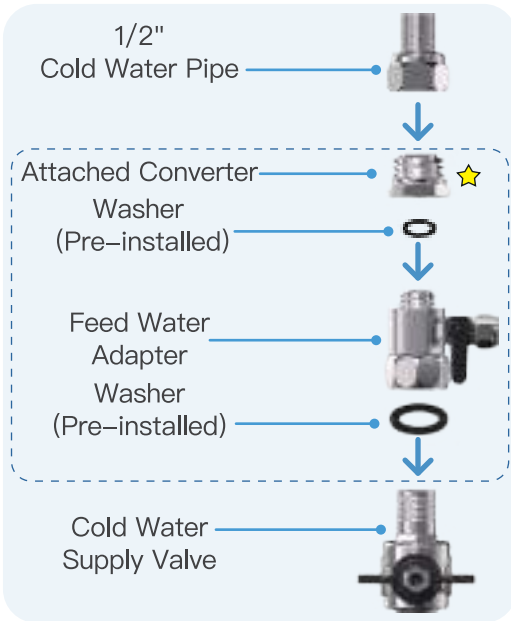
Install the attached converter onto the 1/2" threaded interface of the adapter as shown.

Attach it to the cold water supply valve and tighten with the adjustable wrench.

NOTE: Wrap ALL threaded parts with 10 turns of Teflon Tape to prevent leaks.

1/2" Cold Water Pipe

Install the attached converter onto the 3/8" threaded interface of the adapter before proceeding with this step.



Screw the original cold water pipe onto the other end of the adapter and tighten with the adjustable wrench.

NOTE: Ensure the inner washer in the original cold water pipe is properly installed to prevent leaks.



Insert the **BLUE** 1/4" PE Feed Water Tubing fully into the adapter until it reaches the mark on the tubing. Secure the tubing by using the Lock Clip.

If you have any questions or concerns, please contact our customer service!



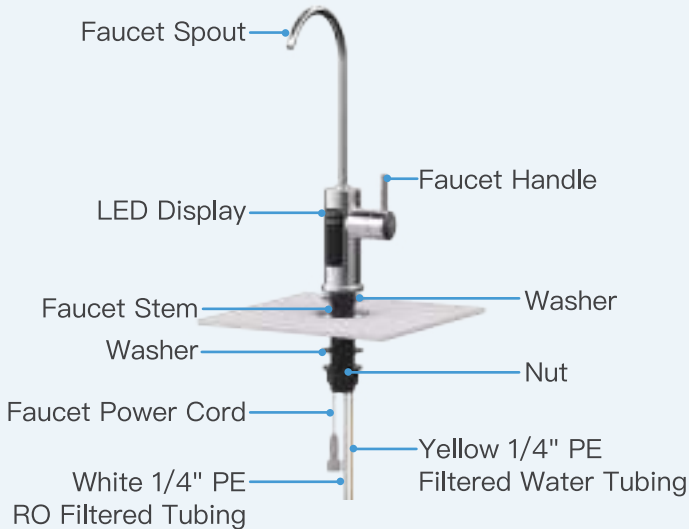
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STEP 2 Install the Faucet

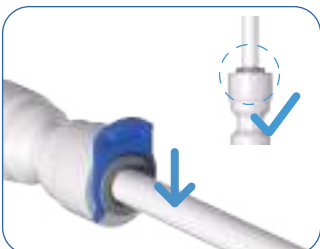


Remove the Nut and a Washer from the Faucet. Insert the Faucet Stem, Power Cord, and Water Tubing through the hole in the countertop.

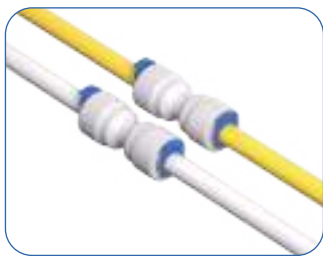
NOTE: Place a Washer both above and below the sink or countertop to secure the Faucet.



Underneath the sink, position the Nut and Washer, and tighten them to secure the Faucet in place.



Insert the two tubing from the Faucet fully into the Quick-Connect Fittings until they reach the marks on the tubing. Secure them with the Lock Clips.



Insert the separate **WHITE** 1/4" PE RO Filtered Tubing and **YELLOW** 1/4" PE Filtered Water Tubing from the accessory pack into the opposite ends of the Fittings and secure them with Lock Clips.

Ensure that tubing of the same color is connected to the corresponding Fittings.

STEP 3 Install the Drain Saddle

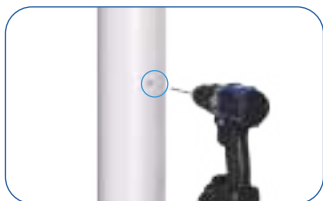
*NOTE

- Follow the instructions below to install the drain saddle and waste water tubing onto the drain pipe. **DO NOT** use containers to collect waste water, as unnoticed overflow may cause floor damage or losses.
- Check if a connection for the 1/4" tubing is available on the drain pipe. If not, follow the steps to drill a hole.
- Ensure a proper seal at contact points to prevent leaks.



Attach the foam seal inside the front plate of the Drain Saddle, making sure the holes line up. Choose a convenient spot on the drain pipe to install the Drain Saddle.

NOTE: It's recommended to install the Drain Saddle on the vertical drain pipe.



Drill a 1/4" hole in the drain pipe. Be sure not to penetrate the opposite side of the pipe.



Slip the front plate on one end of the **RED** 1/4" PE Waste Water Tubing (without the mark) to the position shown in the picture (**about 0.6"**).



Insert the tubing and front plate into the drilled hole. Position the back plate around the drain pipe and align it with the front plate.



Tighten nuts and screws evenly. Secure tubing with the Lock Clip to avoid leakage.

STEP 4 Connect the Tubing

*NOTE

- Ensure the tubing is fully inserted up to the mark during the entire process to guarantee a proper seal and prevent any leaks.

1 Install the Feed Water Tubing



Remove all dust plugs from the ports on the unit.



Locate the **BLUE** 1/4" PE Feed Water Tubing connected to the Feed Water Adapter.



Insert the other end of the **BLUE** tubing into the **BLUE** "Feed Water" port on the unit and secure it with the Lock Clip.

2 Install the RO Filtered Tubing



Locate the **WHITE** 1/4" PE RO Filtered Tubing pre-installed beneath the Faucet.



Insert the other end of the **WHITE** tubing into the **WHITE** "RO Filtered" port on the unit and secure it with the Lock Clip.

3 Install the Filtered Water Tubing



Locate the **YELLOW** 1/4" PE Filtered Water Tubing pre-installed beneath the Faucet.



Insert the other end of the **YELLOW** tubing into the **YELLOW** "Filtered Water" port on the unit and secure it with the Lock Clip.

4 Install the Waste Water Tubing

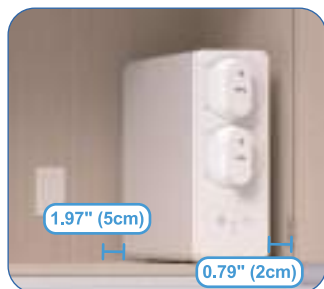


Locate the **RED** 1/4" PE Waste Water Tubing connected to the Drain Saddle.



Insert the other end of the **RED** tubing into the **RED** "Waste Water" port on the unit and secure it with the Lock Clip.

STEP 5 Position the RO Water System



Organize the tubing and the power cord, and place the unit beneath a spacious countertop.

NOTE: Do not place the unit against the cabinet, as there may be vibrations when the system works.

Please leave a gap of at least 0.79" (2cm) on the sides and 1.97" (5cm) at the back.

STEP 6 Connect the Power Supply



Insert the Faucet Power Cord into the port on the left side of the bottom rear of the unit and tighten the nut.



NOTE: Align the notch on the Faucet Power Cord with the notch on the port during insertion.

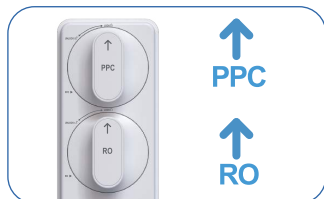


Insert the DC head of the Power Adapter into the port on the right side of the bottom rear of the unit.

NOTE: Do not plug the Power Adapter into the power outlet immediately.

STEP 7 Start the System

1 Check Filter Installation



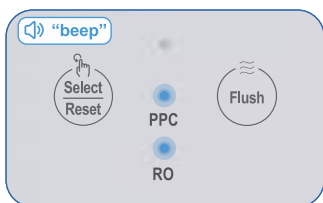
Each Filter has a mark (PPC/RO) and an installation arrow. Ensure that the arrow is pointing upwards.

② Check for Leaks



Open the cold water supply valve and the shut-off valve on the Feed Water Adapter as shown. Check for any leaks.

③ Auto Flush



Plug the Power Adapter into the outlet.

After the first startup, a beep will sound, and the Filter Life Indicator will flash BLUE and RED. The system will then flush automatically for 30 seconds.

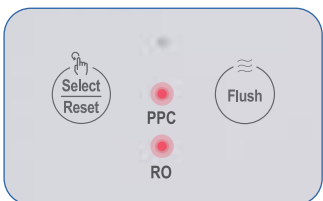
④ Open the Faucet



Turn the Faucet Handle to “RO” and run the system for 30 minutes until the water flows clear. Check for any leaks during this time.



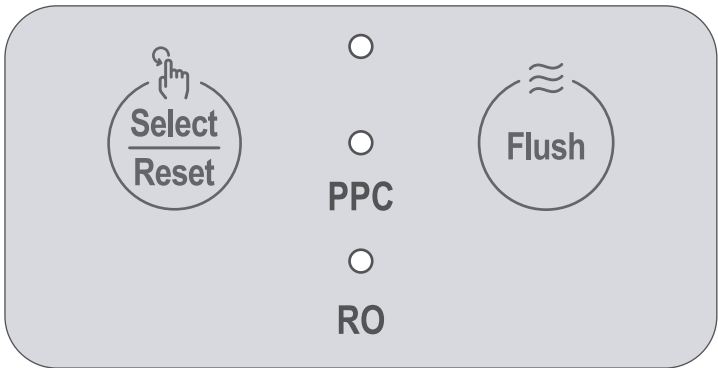
The water from the first 30 minutes is not for drinking but can be used for mopping and other household purposes.



NOTE: After 30 minutes of continuous water production, the system enters protection mode. The life indicator will blink red, and the buzzer will sound 10 times. The buttons will be disabled and cannot be used until the machine is powered back on.

OWNER'S MANUAL

1. Display and Operation



 PPC	PPC Filter Life Indicator Lights up BLUE under normal conditions. Replace new PPC Filter and reset the Filter when the indicator lights up RED.
 RO	RO Filter Life Indicator Lights up BLUE under normal conditions. Replace new RO Filter and reset the Filter when the indicator lights up RED.
	Filter Resetting Press and hold for 3 seconds to enter Filter Resetting mode. Select the Filter to be reset. Press and hold for another 3 seconds to confirm.
	Flush Press to flush the RO Filter for 30 seconds. The system automatically flushes for 30 seconds every 24 hours.

SECTION 1 TDS Display



The built-in TDS sensor detects RO water quality ONLY when the system starts. When the Faucet Handle is turned to “Filtered”, the display turns off.

NOTE: The displayed TDS level may vary from the actual value, as it takes 60 seconds for the reading to update.

SECTION 2 Filter Life Indicator

Under normal conditions, the Front Panel Indicator lights up BLUE. Replace the Filter when the Faucet “Replace Filter” icon and the corresponding Filter Life Indicator turn RED.



SECTION 3 How to Replace the Filter



Scan the QR code for
U1 600G
filter purchases



Scan the QR code for
U1 Pro 800G
filter purchases



1 Release Internal Pressure



Turn off the power and water valve to prevent leaks.

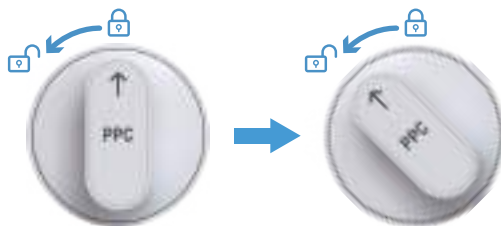


Turn on the Faucet and wait 30 seconds to fully release the internal pressure of the RO system.

2 Remove the Old Filter



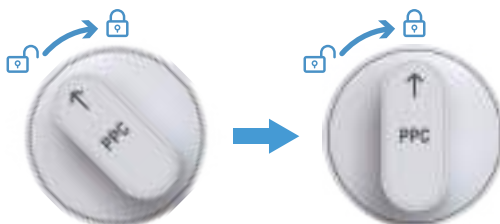
Unscrew the Filter to be replaced by turning it counterclockwise.



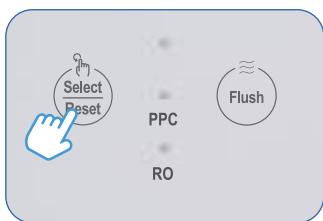
3 Install the New Filter



Align the arrow on the new Filter with “☐” then turn clockwise until a slight “click” is heard and it points fully to “☐”.



4 Reset and Flush



Plug in the power and open the water valve.

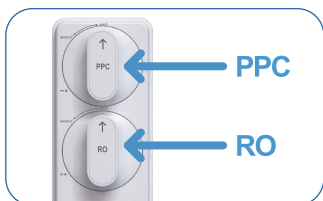
Press and hold the button for 3 seconds to enter Filter Resetting mode.

Short press to switch between “PPC-RO” and select the Filter to reset.

Press and hold for another 3 seconds to confirm.



Follow the instructions on page 15 to turn the Faucet to “RO” and flush the entire system as directed.



NOTE: Ensure the PPC Filter is on top and the RO Filter is on the bottom; DO NOT install incorrectly.

2. Clean and Maintenance

- If the water system hasn't been used for more than two days, turn the Faucet to "RO" for 3 minutes before use.
- If you plan to leave the system unused for over a week, turn the Faucet to "RO", shut off the cold water valve, and disconnect the power.

Seal the Filters and store them in the refrigerator (not the freezer).

When ready to use again, turn the Faucet to "RO" for 10 minutes. If you don't do this, you may need to replace the Filters due to potential odor growth during inactivity.

- Regularly replace the Filter according to the Filter Life Indicator.

Note that testing was done under standard laboratory conditions, and actual performance may vary based on source water quality and usage. If you notice early blockage or Filter failure, replace the Filter based on your actual usage.

- Keep the Waste Water Tubing unobstructed to avoid damage to the Filter or internal components.
- If the drain pipe is blocked, do not use the system (turn off the power) to avoid waste water flooding.
- Clean the system with clear water. Do not spray the water directly. Do not use steel wool, abrasive cleaners, or corrosive liquids such as gasoline or acetone.
- Do not pour other liquids into the Filter while cleaning to prevent damage.
- Regularly check the system and Fittings for leaks to avoid property damage.

FAQS

Q1 Why Won't the System Power On?

- a. Check the power under the sink, as this often happens when it's switched off.
- b. Confirm the plug is properly connected to the outlet. If the issue persists, try a different power outlet. Contact us if the system still won't turn on.

Q2 Why Is There No Water from the Faucet?

- a. The Filter may have expired. Check the Filter Life Indicators to see which Filter needs to be replaced and replace it immediately.
- b. Water pressure may be too low. Ensure it is between 0.1–0.4MPa (14.5–58PSI).
- c. The water supply may be off. Turn on the Feed Water Adapter or supply valve.
- d. Incorrect Filter installation. Reinstall the Filters and ensure they are securely in place.
- e. Tubing might be crimped. Inspect all tubing and remove any crimps.

Q3 Why Is There Low Water Flow from the Faucet?

- a. Check for leaks at tubing connections and ensure all tubes are correctly installed.
- b. The Filter may have expired. Check and replace the Filter if needed.
- c. Low water temperature. Ensure the water temperature is between 41–100°F.
- d. Water pressure may be too low. Ensure it is between 0.1–0.4MPa (14.5–58PSI).

Q4 Why Is There Water Leakage?

- a. Inspect all joints, fittings, and tubing connections for leaks. Ensure the Filters are properly installed.

Q5 Why Is There No Display on the System?

- a. The display only shows the TDS value when RO water is being dispensed. If the system is not dispensing water or filtered water is being dispensed, the screen will turn off to save power, which is normal.
- b. Check if the Power Adapter is properly connected. Replace the adapter if it's faulty.

Q6 Why Is the TDS High in Filtered Water?

The system provides over 90% TDS rejection (tested in a lab) after complete flushing. If the TDS reading is still high, check the following possible causes:

- a. If the system hasn't been used for a while, run the Faucet for a bit to flush the system. The TDS reading should return to normal.
- b. Replace the RO Filter if it has expired.
- c. Check the Waste Water Tubing for any crimps or clogs and fix them.
- d. Test the source water. The TDS of filtered water should be 5%–10% of the source water. High TDS in the source water may reduce the service life of the system. If TDS rises to 15%–20%, replace the Filters.

Q7 Why Does the TDS Reading Fluctuate While Dispensing Water?

- a. The TDS reading displayed is the TDS of the flowing filtered water. Fluctuations in TDS readings are normal as the content of dissolved solids can vary slightly while water flows.
- b. A minor deviation in the TDS sensor can also cause reading fluctuations.

Q8 Why Is the TDS Meter Reading Different from the Displayed Reading?

- a. The TDS meter tests static water in a container, while the system displays the TDS of flowing water. As a result, the TDS readings are different.
- b. TDS may also increase slightly when water contacts a container.
- c. Small differences in TDS values are normal due to varying device accuracy.
- d. Our system updates the TDS reading after about 1 minute of water flow.

Q9 Why Does the Filtered Water Taste Like Tap Water?

- a. Ensure the Waste Water Tubing is not connected to the faucet.
- b. Make sure the Filters are properly installed.
- c. Check the Filter Life Indicators and replace any expired Filters.

Q10 Why Is the Booster Pump Overworked?

The Faucet displays code E02 and the buzzer sounds for 3 minutes.

- a. The system may have dispensed water for more than 30 minutes. Restart the system to reset.
- b. There may be a leak at the tubing connection between the system and the Faucet. Turn off the power, check the connection, ensure the tubing is fully inserted, and restart the system.

Q11 Why Does the System Produce Residual Water?

- a. Reverse osmosis technology creates some residual water during filtration, which is normal. This water can be collected and used for cleaning or watering plants.

Q12 Why Is There a Loud Sound from the RO System?

Normal operation generates a slight noise that does not disruptive to daily life. However, excessive noise may be caused by:

- a. The system is not placed on a flat surface. Ensure it is stable.
- b. The system is placed against the cabinet. Do not place the system against the cabinet. The system may vibrate when it works.
- c. Water pressure is unstable. Ensure the pressure is between 0.1–0.4MPa (14.5–58PSI). The noise will reduce when the pressure stabilizes.

Q13 Why Are There Droplets on a New Unit After Opening the Package?

- a. Each Filter is tested for reliability with air pressure, and the system is inspected using pure water to ensure optimal performance. Any residual droplets left after shipping are harmless.

If you have any questions or concerns, please contact our customer service!



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(Monday-Friday 9:00 am-5:00 pm PST)



support@ikoviet.com

WARRANTY

Thanks for choosing Koviet Water Filtration System.

This product is covered with Koviet product and labor warranty for 12 months from the date of its original purchase.

30–Day Limited Warranty

To provide customers with quality shopping and user experience, we guarantee to replace or issue a full refund within the 30–day period from the date of purchase.

30–Day to 1–Year Limited Warranty

After the 30–day warranty has expired, Koviet activates a 1–year warranty from the date of purchase that covers product replacement.

30–Day to 1–Year Warranty Limitations

The warranty does not apply where damage is caused by other factors, including without limitation:

- (a) Normal wear and tear;
- (b) Misuse, dismantling, accident, or failure to follow operating instructions;
- (c) Exposure to liquid or infiltration of foreign particles;
- (d) Servicing or modifications of the product other than by Koviet;
- (e) Commercial or non–household use.

We can only provide after–sales service for products that are sold by Koviet or Koviet authorized retailers and distributors.

KOVIET



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