ClearVita

INSTRUCTION MANUAL

READ AND SAVE THESE INSTRUCTIONS

Reverse Osmosis

Water Filtration System



Model:

RO - H1

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Installation Instructions

Before Installation

Inspect the Package

Open the box and take out the system housing, all the components and connection fittings. Inspect themaccording to the parts list to ensure nothing is left out or damaged during shipping. If there are any partscracked or broken, please do no proceed with the installation and contact customer service

Identify and get familiar with all components for quick installation

Required Tools

· Variable speed drill

Drill bit:1/4"(for drainpipe),1"(for faucet hole)

Flashlight

Screwdriver

Utility knife or scissors

· Adjustable wrench, pliers

·Towel

Specifications

To achieve the optimal performance, it is highly recommended to use the system within the operational parameters

Model	RO - H1
Ro system Size	13.4"D x 5.5"W x 14.4"H
Feed Water Pressure	14.5-87 PSI/0.1-0.6 MPa
Feed Water Temperature	41-100 ° F / 5-38 ° C
Feed Water Requirement	Municipal Tap Water
Max Daily Production Rate	600 - 800 GPD
Power Specification	Input 110-240V AC
Rated Frequency	50 / 60 HZ

NOTE:

· The Daily Production Rate is measured under 30 PSI dynamic feed water pressure and 77 °F water temperature.

· If you are using well water as the source, please ensure that the feed water has been through a pre-filtration system

Parts List



RO - H1
System Housing
X1 Set



RO x 1 Set



PAC x 1 Set

Contained within the main body of the water purifier



RO Faucet x1



White 3/8"
PE Tubing
X60"



Feed Water
Adapter 3/8"-1/2¨
X1 Set



Blue 3/8"
PE Tubing
X60"

Adaptor Already Installed



Drain Saddle 3/8"
X1 Set



Red 1/4"
PE Tubing
X60"

Adaptor Already Installed

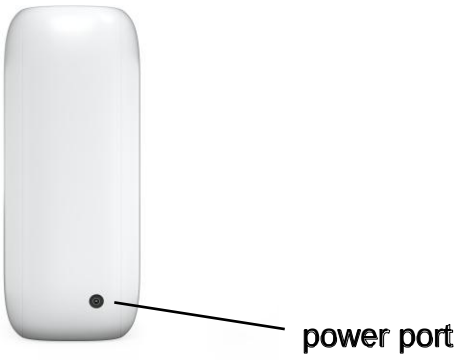


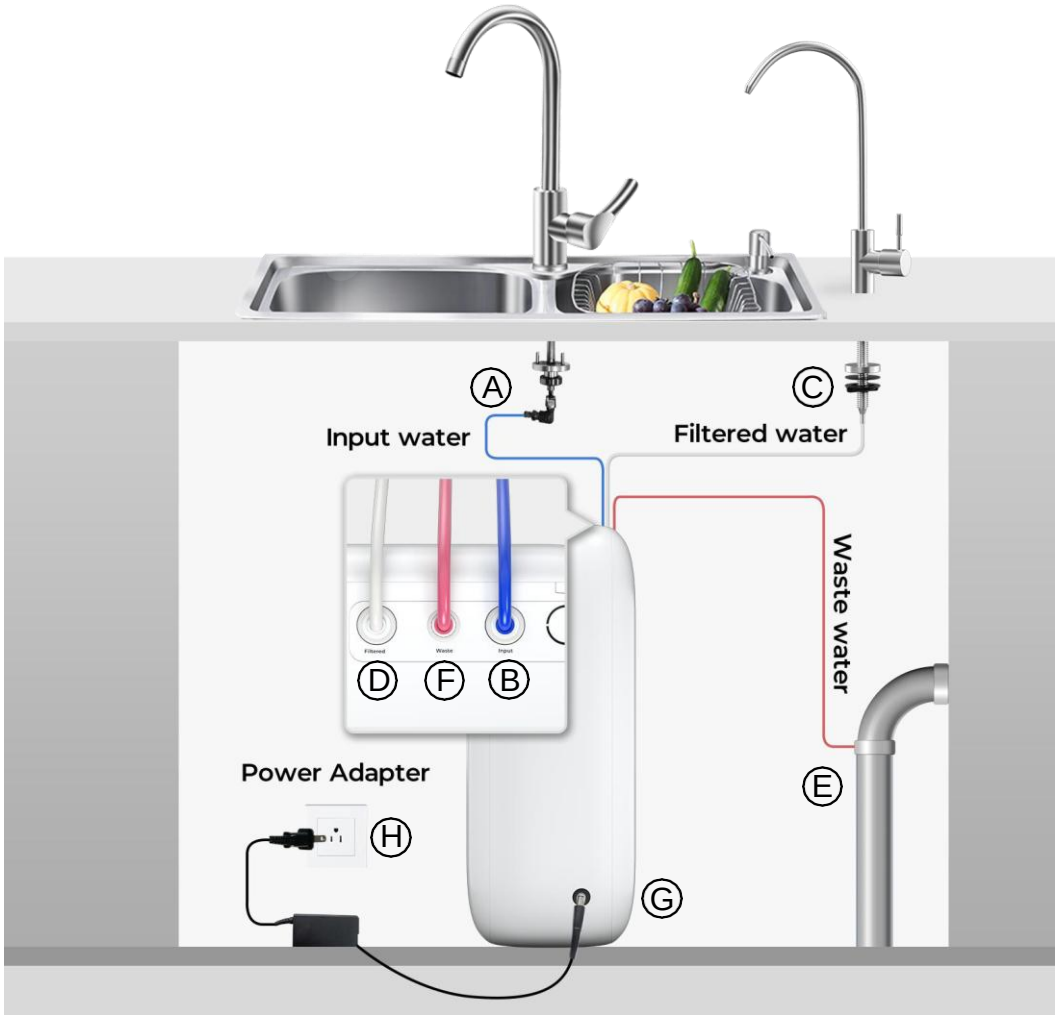
Power Adapter
X1 Set

Product Introduction

The brief introduction of various parts and sample connections are presented as follows. Please identify andget familiar with these parts and connection points for a smooth installation







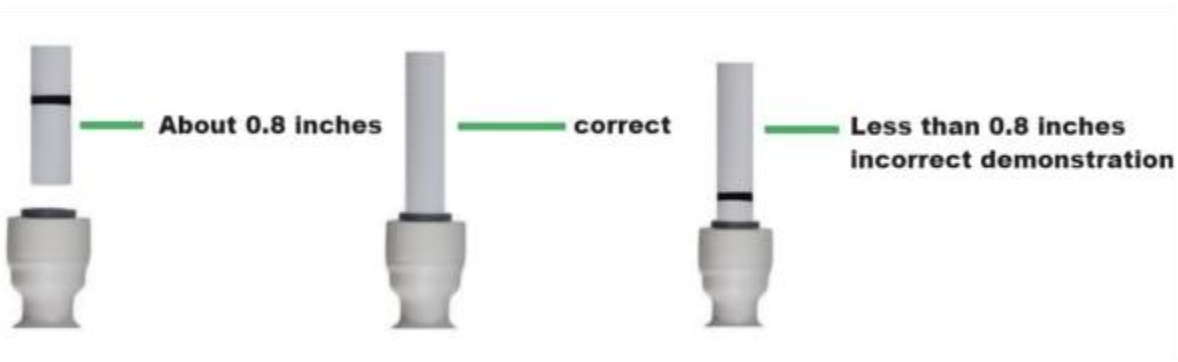
A connect to B From Feed Water Adapter to "INPUT"Water Port
C connect to D From Faucet to "FILTERED" Water Port
E connect to F From Drain Saddle to"WASTE"Water Port
G connect to H From"POWER"Port to Power Socket

Note:all pipes have been pre-attached to the adaptor. Connect the end of the adaptorto the water filters.



Installation Tips

How to Use the Quick-Connect Fittings



To connect:
NOTE: Please make sure to fully insert into the fitting (about 0.8 inches)
NOTE: The adaptor has already been installed. Please avoid disconnecting it if possible.



NOTE: If the tubing is too long, cut it to a suitable length with a sharp utility knife or scissors. Cut the tubing squarely and cleanly. Make sure the tubing is fully inserted (about 0.8").



To disconnect:
· Remove the blue lock clip from the fitting;
·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: Please confirm if there is an existing hole available to install the RO faucet.

If not, please drill a hole in accordance with the following steps.

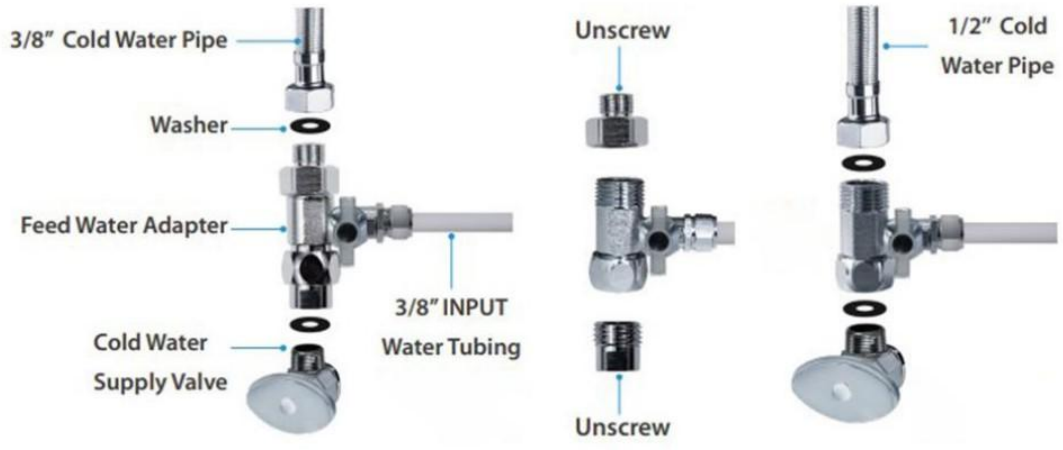
It's highly recommended to watch the YouTube video "How to Drill a Faucet Hole" for a better understandingof the process. There is also a reference sticker to help you drill the hole. Remember to wear safety glasses toprotect your eyes while drilling the faucet hole

1.Choose a diamond core bit for granite, and a carbide drill bit for stainless steel. Do not use a hammer drillon natural stone, glass or ceramic.
2. Glue the sticker on your sink or countertop, and drill a hole referring to the sticker hole size (1").
3.Make an indent with a center punch on a stainless-steel sink before drilling to help guide the bit.
4.Be careful when drilling on a porcelain sink, as it can be easily chipped. Apply downward pressure firmly on the bit until you break through the surface.
5.Start at the lowest speed, and hold the drill straight with firm pressure to prevent the bit from walking on the counter.
6.Once you break through the surface, swirl the drill a little to apply pressure in a circle evenly

Installation Steps

Prior to installation, it is highly recommended to watch the video"Instruction about How To Set Up Tankless RO Syetem" on our paged.NOTE:· The RO system must be connected to the COLD water supply ONLY.
·Do not install the system in exposure to direct sunlight or harmful chemicals, nor any place where it may be damaged.
· Do not install the system near any heat source.
·Do not install the system outdoors.

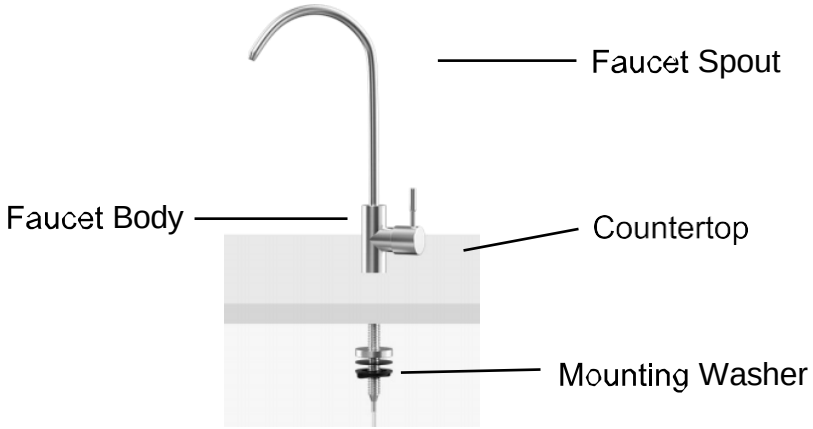
Step 1: Install the Feed Water Adapter (3/8" or 1/2")
NOTE: The "INPUT water " tubing has been attached to the feed water adapter for easy installation.
1. Shut off the water supply. Turn on the kitchen faucet to release the water pressure;
NOTE: Make sure the water has stopped before proceeding to the next step. Get a towel or bucket to catch any excess water.
2. Disconnect the cold water pipe from the cold water supply valve;
3.Twist the feed water adapter onto the cold water supply valve (with its washer) and tighten it with an adjustable wrench;
NOTE: If the cold water pipe is 1/2", unscrew the two converters from the feed water adapter,andthen implement Step 3.
4. Twist the cold water pipe (with its washer) onto the feed water adapter and tighten with an adjustable wrench.



Step 2: Install the RO Faucet (Non-Air Gap Faucet)

NOTE: If your kitchen sink or countertop does not have an existing hole, you will have to drill one (1"). Refer to Page 4.

1. Insert the faucet spout into the faucet body (Figure 6).
2. Insert the faucet stem, power cord and filtered water tubing into the hole on countertop.
3. Under the sink, slip on the nut and tighten it up



Step 3: Install the Drain Saddle

1.Paste the foam seal onto the front plate of drain saddle. Make sure the hole of foam seal is aligned withthe hole of front panel. Choose a spot on the drain pipe that is convenient for installing the drainsaddle.

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

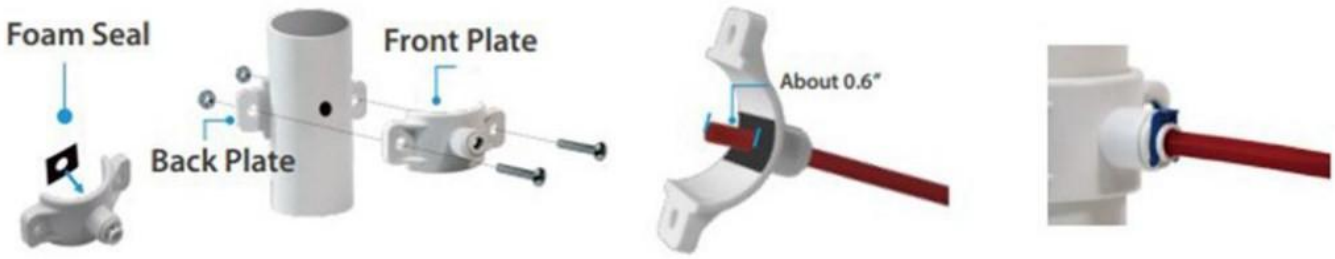
2. Drill a 1/4"hole in the drain pipe. Be sure not to penetrate the opposite side of the pipe.

3.Slip the front plate on one end of the tubing (without the mark), and insert the tubing into the drilled holefor about 0.6".

4.Position the back plate on the drain pipe by tightening the screws and nuts evenly while leaving thetubing in the hole.

5. Pop the lock clip on the fitting to secure the connection.

NOTE: In some cases, the "WASTE" water tubing needs to be connected to the drainpipe through air gap.Consumers need to purchase air gap accessories additionally



Step 4: Position the RO System Housing

NOTE: It is not recommended to place the housing against the cabinet, as there may be vibrations when the system works.

a) The power-supply receptacle for the appliance shall be installed in a cabinet or on a wall adjacent to the under counter space in which the appliance is to be installed.

b) There should be an opening through the partition between the compartments specified in (a) that is large enough for the attachment plug to pass through. The longest dimension of the opening shall not be more than 1.5”(38 mm).

c) If the partition is wood, the edges of the Opening specified in (b) should be smooth and rounded. If the partition is metal, it should be covered with an edge protector provided for this purpose by the manufacturer;

d) Care should be exercised when the appliance is installed or removed in order to reduce the likelihood of damage to the power cord



Step 5: Connect Tubing

NOTE: First confirm the length of the tubing you need, then if the tubing is too long,cut it according to "How to Use Quick-Connect Fittings" on page 4.

1.Install the " INPUT Water " Tubing

·Locate the "Input Water" port with the blue label

· Connect the feed water adapter with the blue 3/8"PE tubing

· Adaptor Already Installed with Tubing.Just insert the adaptor into the "Input Water" Port (Blue)





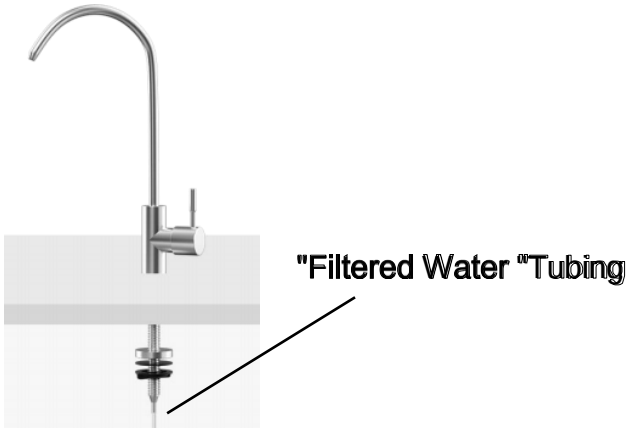
2. Install the “FILTERED” Water Tubing

· Locate the "Filtered Water" port with the "White Label"

· Identify the white 3/8" PE tubing and connect the fittings and connections,then connect it to the faucet after connecting

· Adaptor Already Installed with White Tubing.Just insert the adaptor into the "Filtered Water"

NOTE: Make sure it is fully inserted until you reach the mark on the tubing





3. Install the " WASTE Water " Tubing

· Locate the "Waste Water" port with the Red label

· Adaptor Already Installed with Red Tubing.Just insert the adaptor into the"Waste Water" Port

· The Installation Instruction of Drain Saddle is in the page 6"

Install the Drain Saddle"NOTE: Make sure it is fully inserted about 0.8 inches.





Step 6: Connect Power Cord

Connect Power Adapter: Insert the DC head of the power adapter into the "POWER" port at the back of the
housing
NOTE: Please do not connect power socket now.



Step 7: Start up the System

1. Turn on the cold water supply valve. Check for leaks;

2. Insert the plug of power adapter into the socket;

NOTE: If the system can't be powered on after you insert the plug of power adapter, check the power under the sink, as this mostly occurs when the power under the sink is powered off. Also, check the connection between the plug and the power outlet, and ensure that the system has been plugged correctly into the power outlet, as this may occur in a few cases. To test if there is a problem with the system itself, just pick up the system and try another power outlet. Please contact us if the system can't be powered on. We will help you figure it out.

3.During the first 15 minutes of operation, please discharge the purified water generated during this time.Please note that the water produced during this period is not suitable for drinking.
NOTE: Be sure to carefully check the tightness of each part of the system while flushing. Check and ensure all tubing is installed correctly and completely. Make sure there are no leaks at the joints, fittings, valves and tubing connections.
NOTE: The water is not drinkable during the flushing. The 15 minutes are accumulative. If the flush is stopped (in advance, the system will continue to flush when you open the RO faucet again until it reaches 15 minutes

4.Confirm the flush is completed before turning off the RO faucet and ensure it's not leaking.

5.Please fix the power adapter with the cable tie so that it does not move by impact. To avoid failure,stay away from any water sources, including pipe fittings, the bottom of the basement, and wet floors.

*Please note that the reading in the figure is only used as an example, and the actual reading may vary according to different water conditions.

*The TDS level shown on the panel after the system is just turned on is different from the actual TDS level because the TDS reading needs some time to be upgraded.

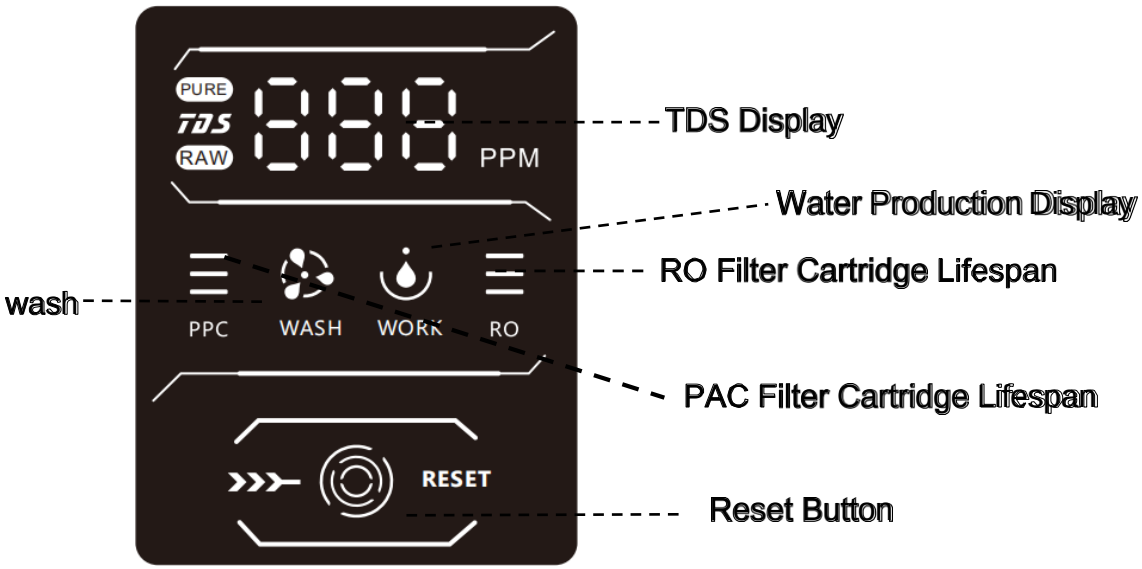
Owner's Manual

Section 1: Filter Life Reminder

NOTE: Filter life may vary depending on source water quality and water usage. Please replace the filter according to the reminder of the filter life indicators.

1. Filter Life Indicator on System Housing

There are helpful electronic filter indicators (PAC/RO) on the front panel that will notify you to perform a routine filter replacement by color change. Be sure to reset the filter life indicator every time you replace your filter



Operating Button Mode

Button Function Explanation
The buttons are touch-sensitive. Each press is accompanied by a beep.
Reset Button:
Manual Rinse Operation:
Short press (<2 seconds) of the "Reset" button initiates a 60-second rinse cycle before returning to the current machine status. If the "Reset" button is pressed again within 60 seconds, the rinse cycle will stop and return to the current machine status. If the "Rinse" button is pressed while the system is in automatic rinse mode, it will switch to manual rinse, rinse for 60 seconds, and then return to the current machine status.

Filter Reset Operation:
Long press (2 seconds or more) of the "Reset" button activates the filter reset mode: all filter indicator lights flash simultaneously (1Hz, 50% duty cycle), while other lights turn off. During the flashing period of all filter indicator lights, a short press allows you to select a filter:

One short press makes the PPC filter light flash, and the lights for other filters remain on (until expiration), indicating the selection of the PPC filter.
Another short press makes the RO filter light flash, and the lights for other filters remain on (until expiration), indicating the selection of the RO filter. This cycle continues.
During the flashing period of each filter indicator light, a long press of the button (accompanied by a beep indicating reset completion) resets the selected filter's lifespan and automatically moves to the next filter indicator light. If you do not enter the filter reset mode, the reset function will not be activated. If no button is pressed within 5 seconds, it will automatically exit the filter reset mode. Note: You can perform the filter reset operation at any time.

One-Key Reset Mode:
When any filter reaches its expiration, a long press (2 seconds) of the "Reset" button will reset all expired filters (filters that are not expired will not be reset).
Display Function Explanation

TDS Display: During detection, it flashes at 1Hz, and when detection is complete, it remains lit and displays the numerical value. (Pure water/Raw water alternates every 10 seconds; it will not display if the corresponding TDS probe is not connected).

Power-On Display: All lights blink once at a frequency of 1Hz (50% duty cycle), accompanied by a single beep, then enter the normal display state.

Rinse Display: When entering the rinse mode, the "Rinse" light blinks at 1Hz; when exiting rinse mode, the Rinse light stays continuously lit.
Water Production Display: When entering the water production mode, the "Water Production" light blinks at 1Hz; when exiting water production mode, the Water Production light stays continuously lit.
Water Full Display: When entering the water full mode, the "Water Production" light stays continuously lit; when exiting the water full mode, the Water Production light blinks.

Fault Display: When entering the protection mode due to prolonged water production, it prompts the user to contact after-sales service. The buzzer beeps 60 times ("beep-beep-") (approximately 1 minute), and all lights continuously blink.

Filter Display: When each filter is within its designed lifespan, the filter indicator light stays continuously lit. When it reaches the designed lifespan, the filter indicator light turns off. After resetting the filter, the filter indicator light returns to continuous illumination.
If no water full condition is reached within 2 hours of continuous water production, it will enter the protection mode due to prolonged water production. To exit the prolonged water production protection mode, you need to power cycle the device.

Section 2: How to replace the filter cartridge

Installation instructions

1.Filter Cartridge Diagram

The machine faces yourself, as shown in the picture, from left to right :

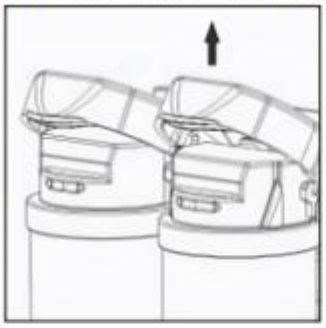


1.Instruction of Replacing Filters

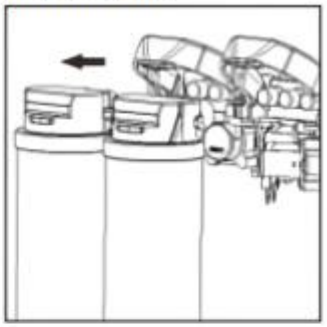
Note:

Before replacing the filter element, please turn off the tap water valve and power supply sequentially! When replacing the filter element, there will be a small amount of residual water flow out.

Disassembly

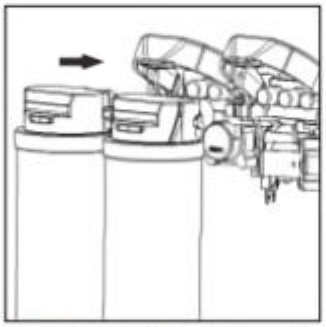


Lift up the machine's safety latch

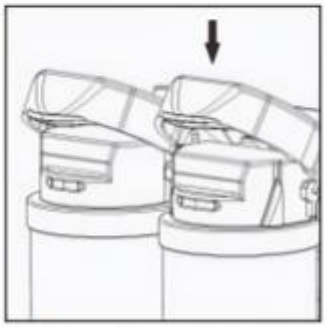


Pull out the filter element

Install



Insert the new filters and check if the filters are closed tightly



Pull down the safety latch to complete the installation

System Maintenance

If you don't use the system for more than one week, turn on the RO faucet, shut off the cold water valve,and disconnect the power. Seal the filters and store it in the refrigerator (not the freezer). You need to open

the RO faucet and allow it to run for 10 minutes first before using the system again. Otherwise, you need to

replace the filters, as bacteria may grow when the system is not used for a long time.

· Please replace the filter regularly according to the filter life indicator.

NOTE: While the testing was performed under standard laboratory conditions, actual performance may vary depending on the source water quality and water usage. In case of early blockage and failure of the filters,it's recommended to replace the filter in accordance with the actual usage.

· Clean the system with clear water. Do not spray the water directly. Do not use steel wool, an abrasive cleaner or corrosive liquid such as gasoline or acetone.

· When cleaning, do not pour other liquids into the filter to avoid damage to the filter system.

· Keep the waste water pipe unobstructed to avoid damage to the filter or internal components.

· When the drain pipe is blocked, do not use the system (please turn off the power) to avoid waste water from soaking the floor.

· Check the system and water pipe fittings regularly for water leakage to avoid any property damage.

· Regularly check whether the power supply and wires are damaged or loose to avoid major accidents caused by electric leakage.

·If you are using well water as the source, please ensure that the feed water has been through a pre-filtration

system. Otherwise, large particles in the well water will easily clog the filter and shorten the filter life

FAQ

· If the System Cannot Be Powered on After You Insert the Plug of Power Adapter

a.Check the power under the sink, as this mostly occurs when the power under the sink is off. Also, check the connection between the plug and the power outlet, and ensure that the system has been plugged correctly into the power outlet, as this may occur in a few cases. To test if there is a problem with the system itself, just pick up the system and try another power outlet. Please contact us if the system can't be powered

on.We will help you figure it out.

·No Output Water from RO Faucet

a. Filter expired. Check the filter life indicators to confirm which filter needs to be replaced and replace it immediately.

b. Low water pressure. Check and confirm the water pressure is between 14.5 PSI and 87 PSI.

c.Water supply is off. Turn on the feed water adapter or water supply valve.

d.Incorrect filter installation. Re-install the three filters, and make sure they are fitted properly.

e. Tubing is crimped. Check all tubing and remove any crimps

Low Water Flow at the RO Faucet

a.Leak from tubing connection. Check and ensure all tubing is installed correctly and completely.
b. Filter expires. Check the filter life indicators to confirm which filter needs to be replaced and replace it immediately.
c.Low water temperature. Be sure to use the system at a temperature of 41-100 °F.
d.Use well water as the source and the feed water has not been through a pre-filtration system, the filter has been clogged. If you are using well water as the source, please ensure that the feed water has been through a pre-filtration system.Otherwise, large particles in the well water will easily clog the filter and shorten the filter life.

· Water Leakage

a.Check all joints, fittings and tubing connections to locate the leakage. Make sure the filters are well installed.
b. If the front panel screen and faucet screen show the code E02, which means there is water leakage inside the system, please pull out the water container at the back and check if there's any water. If there is, clean the container and re-install it. The malfunction should be fixed automatically. If E02 shows again shortly,please contact the customer service for assistance.

· High TDS in Filtered Water

The system will provide a 90%+ TDS rejection rate(tested under standard laboratory conditions) after full flushing when working properly. If the TDS reading is high, the following are possible causes:
a.The system hasn't been used for a long time. Open the RO faucet, allow it to run for a while. The TDS reading will return to normal.
b. The RO filter expired. Replace the RO filter immediately.
c.The waste water pipe may be crimped or clogged. Check and remove crimps. Re-align the drain saddle and drainpipe.
d. The source water may have a high TDS. Test the source water and filtered water. The filtered water's TDS shall be about 5%-10% of your source water's TDS. This is a normal range. If there is a high TDS in the source water, it may reduce the service life of the system. When the filtered water's TDS creeps up to 15%-20% ofthe source water's TDS, please perform routine filter replacement

· TDS Reading Fluctuates When Dispensing Water

a.The TDS reading displayed is the TDS of the flowing filtered water. Therefore, the content of the dissolved solids may vary slightly as the water flows, causing the fluctuation of the TDS reading.
b. The built-in TDS sensor has deviation, causing the fluctuation of the TDS reading

· The Difference between the TDS Reading Tested by the TDS Meter andthe Displayed Reading

a. The reading tested by the TDS Meter is the TDS of static water in the container while the TDS reading displayed by the system is the TDS of flowing water. As a result, the TDS readings are different.
b. There are errors in the TDS Meter tests.

· Filtered Water from the RO Faucet Tastes Like Tap Water

a.Incorrect tubing installation. Make sure the waste water tubing is not connected with RO faucet.
b. The filters are not well-installed. Make sure the filters are placed properly.
c.Filter expires. Check the filter life indicators to confirm which filter needs to be replaced and replace immediately.

· Booster Pump Overworked Reminder

Water Production Overrun Protection: If the system has been producing water continuously for 3 hours,it will enter a forced shutdown protection state, and the display will show "E02".

· Loud Sound of RO System

The sound will not exceed 65 dB, which makes no difference to everyday lives (65 dB is tested understandard laboratory conditions, where the feed water pressure is between 14.5 PSI and 87 PSI).

A loud soundmay be caused by the following reasons:

a. The system is not positioned in a flat area. Make sure the system is placed smoothly without shaking.

b. The system is placed against the cabinet. Do not place the system against the cabinet. The system mayvibrate when it works.

c.The water pressure is unstable. Check and confirm the water pressure is between 14.5 PSI and 87 PSI. Thesound will decrease when the water pressure becomes stable