



MANUALS

Hydro+

Hydrogen Water Ionizer with
Reverse Osmosis Filtration System

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- **To avoid improper use that may cause personal or others' injury or property damage, please be sure to follow the instructions and guidelines below.**

Filter Body

Precautions

1. Ensure that the voltage matches the local specifications to prevent damage to the plug.
2. Avoid using damaged power cords, plugs, and loose sockets to prevent fires.
3. Do not touch the plug with wet hands to prevent electric shock.
4. Do not bundle the power cord to prevent damage.
5. If the plug or power cord is wet, wait for it to dry before use.
6. Disconnect the power cord before maintenance, inspection, or parts replacement.
7. Do not share extension cords with other products, and use a single power outlet.
8. When not in use for an extended period, close the water valve and disconnect the power cord.
9. Do not attempt to repair, disassemble, or modify the product. If the product is damaged, contact customer service for assistance.
10. Avoid frequent unplugging and plugging of the power cord unless necessary.
11. Periodically clean the plug and avoid using benzene or gasoline for cleaning.
12. Do not pull the power cord when moving the product.

Assembly



Caution

1. Keep the product away from flammable materials to prevent the occurrence of fires.
2. During product installation, keep it away from heat sources such as heaters to prevent the occurrence of fires.
3. When cleaning the product, please use a cloth for wiping and avoid using benzene.
4. The length of the inlet pipe should be less than 5m, as excessively long pipelines may reduce the product's performance.
5. This machine strictly prohibits the use of hot water. The recommended water temperature for the inlet is 5°C to 40°C.
6. The recommended water pressure for the inlet is 15 to 50 psi.
7. The maximum working pressure is 100 psi.
8. The total dissolved solid content in the water source should not exceed 1000 ppm, and water hardness should not exceed 250 ppm.
9. Ensure that the connections for the inlet, outlet, and waste water are correct, and the waste water is not blocked.
10. Product installation should comply with local regulations. Do not use unclear, biologically harmful, or untreated water sources at the front or rear of the product.
11. The appliance is only to be used with the power supply unit provided with the appliance.
12. Children should be supervised to ensure that they do not play with the appliance.

- **To avoid improper use that may cause personal or others' injury or property damage, please be sure to follow the instructions and guidelines below.**

Operation

Caution

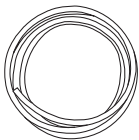
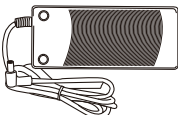
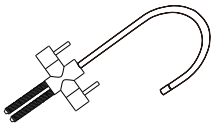
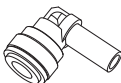
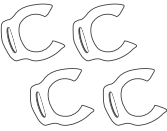
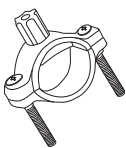
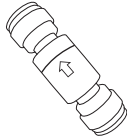
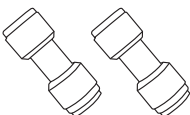
- 1.If water leakage is detected, close the water valve, unplug the power cord, and notify the supplier for repairs.
- 2.If the product emits unusual sounds or odors, immediately unplug the power cord and contact customer service.
- 3.Place the product in a stable location to prevent injuries caused by product falls.
- 4.Do not place candles, cigarettes, or other flammable materials on top of the product to prevent fires.
- 5.If the product is not used for an extended period, when using it again, flush the system's water.
- 6.Regularly maintain and replace the filter system's filter core to ensure product stability and lifespan, and ensure excellent water quality.
- 7.This product strictly uses proprietary filter materials. Do not use general water purifier filter cores to extend the product's lifespan.
- 8.When replacing the post-activated carbon filter core, if black residue is found, it is activated carbon powder that will not cause any harm to the human body. Wait for the discharge of the black residue to complete.
- 9.After the initial installation and each replacement of the activated carbon filter core, the activated carbon powder inside the filter core must be discharged. Continuously discharge the initially discharged sewage from the filter core outlet until the water is clear.
- 10.Do not place the product in direct sunlight or humid areas. The recommended indoor temperature for the product is 5°C to 40°C.
- 11.When replacing the filter core or removing it, water must be drained to reduce the weight of water in the filter core and prevent excessive water from flowing out when the filter core is removed. To enter drain mode, touch the panel symbol and hold for more than 7 seconds. The power light on the panel will flash, indicating the start of drainage. Open the RO faucet to reduce residual water in the pipes. After 1 minute, the motor stops, and the drainage of the filter core is complete. You can then turn off the filter core and replace it. If you have replaced the filter core, touch the panel symbol and hold for more than 7 seconds to return to normal mode.
- 12.If the motor runs continuously for more than half an hour, it will stop. The abnormality indicator on the panel will turn red. To reset, touch the RESET button on the panel for more than 7 seconds to return to standby normal mode. This function prevents water shortages and prolonged continuous operation, reducing pump damage.
- 13.Ensure that the water supply pressure meets the machine's working pressure (15~50 psi). If it exceeds 50 psi, install a pressure reducing valve and a leak circuit breaker. When water hammer pressure exceeds 150 psi, install a water hammer absorber. (For detailed information, consult the after-sales technical staff.)
- 14.Regularly inspect and maintain the pressure reducing valve and water hammer absorber every six months to ensure your environmental safety.

1. Accessories

Notice

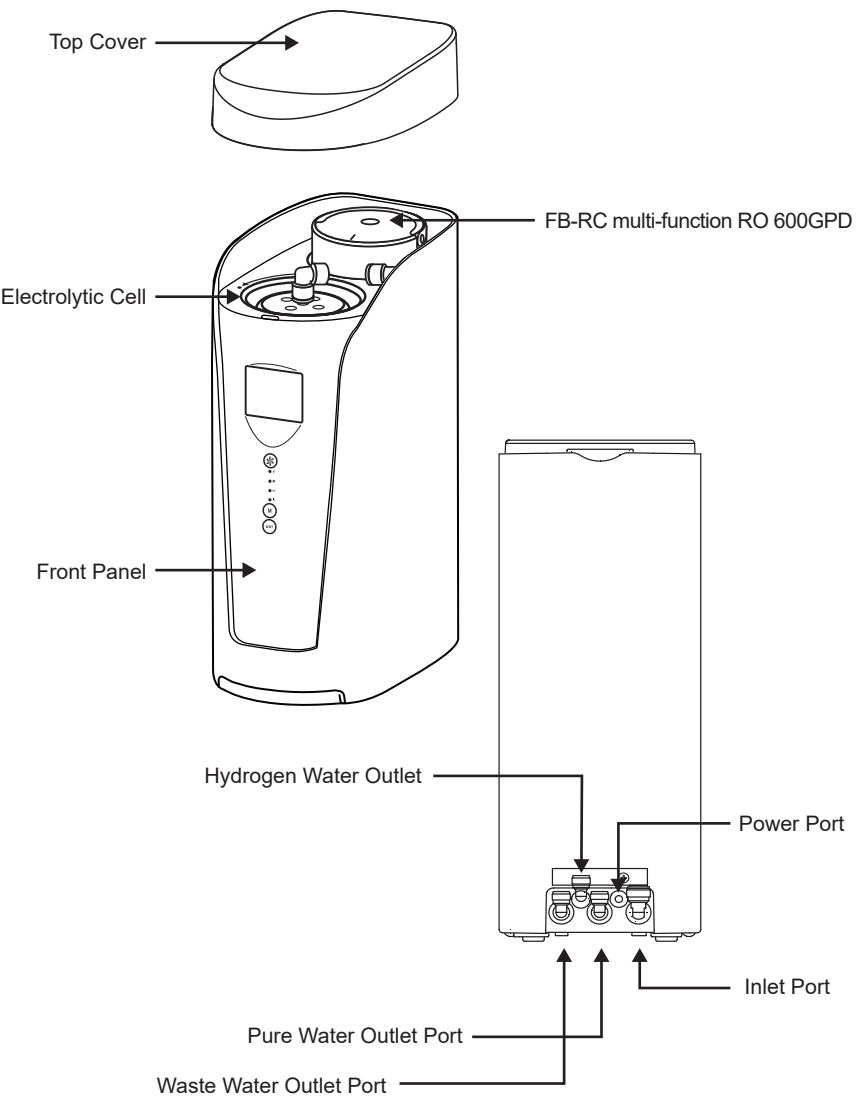
Before use, check for the following accessories. If any are missing, please request or purchase them from the dealer.

Parts and matched filter core included

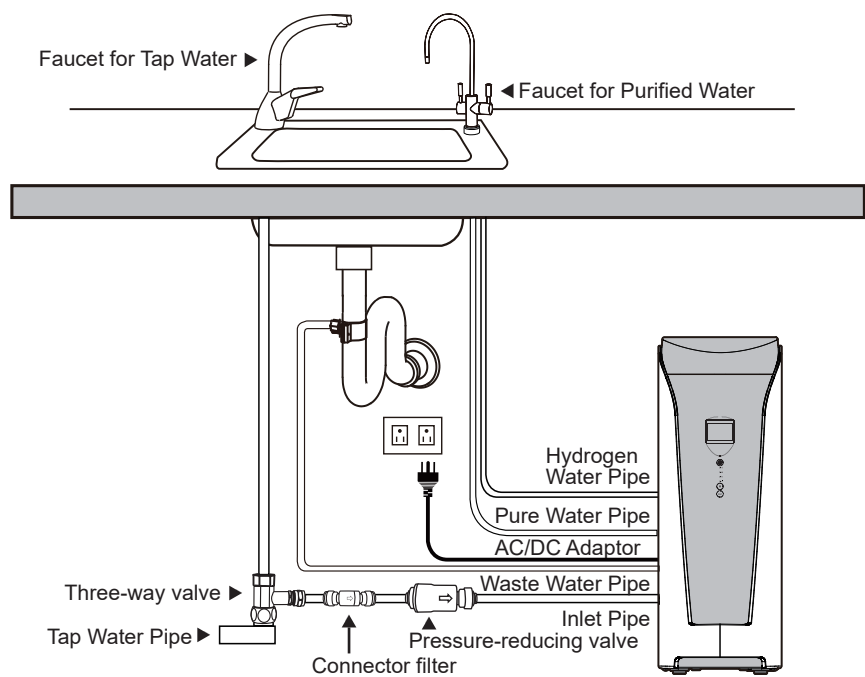
PE Pipe (1/4 OD 3/8 OD) 	AC/DC Adaptor 	Three-way valve 
Dual Outlet Faucet 	3/8" L-shaped connectors 	1/4" L-shaped connectors 
1/4" L-shaped 3-point Insert Core 	1/4" C-type Clamp 	3/8" C-type Clamp 
Pressure-reducing valve 	Wastewater clip 	Connector filter 
Straight connector (with faucet) 	FB-RC multi-function RO 600GPD (FB-RC multi-function RO 600GPD Disposable Filter Cartridge) 	

2. Names and Functions of Each Part

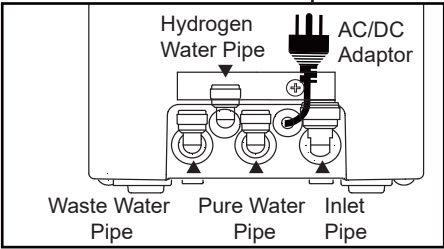
- Front / Back



3. Installation Diagram



CDA Operation video



4. Quick Connector Usage Instructions

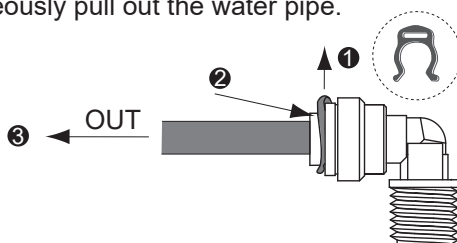
01. How to remove the water pipe :

First, remove the C-type clamp used for fixation. Then, press down on the sleeve clamp while simultaneously pulling out the water pipe.

⚠ Note

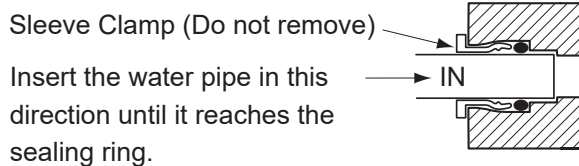
When removing the water tubing, continue to press down on the sleeve clamp, and refrain from forcefully pulling or tugging.

1. Remove the C-type clamp used for fixation.
2. Press down on the sleeve clamp.
3. Simultaneously pull out the water pipe.



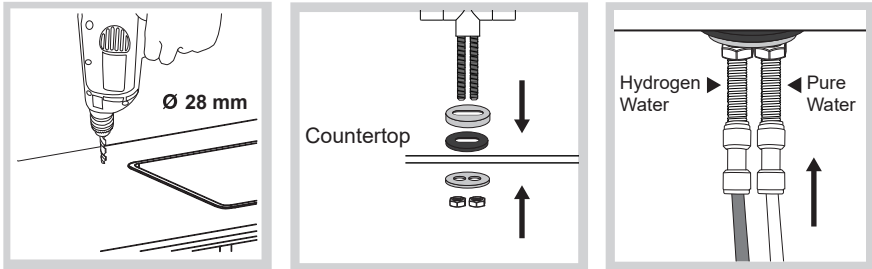
02. How to insert the water pipe :

Confirm that the water pipe cut surface is vertical and free of sharp edges. When inserting the pipe, push it in completely (about 1.5cm).

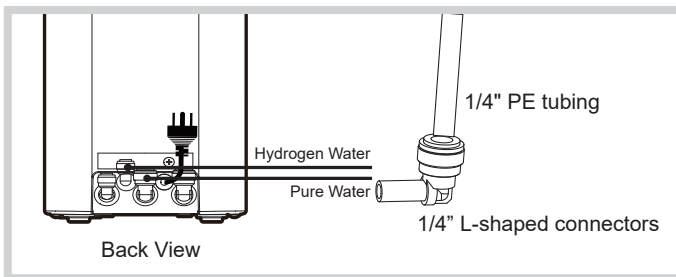


5. Installation

01. Faucet Installation



1. Drill a Ø28mm diameter hole in the countertop.
2. Install the stainless-steel plate, waterproof gasket, and faucet in order on the countertop. Under the countertop, insert the dual-hole stainless steel plate onto the faucet tubing, then secure it with the hex nut.
3. Connect the faucet's pure water outlet and hydrogen water outlet to the white (pure water) and blue (hydro gen water) 1/4" PE tubing, respectively. Secure with C-type Clamp.



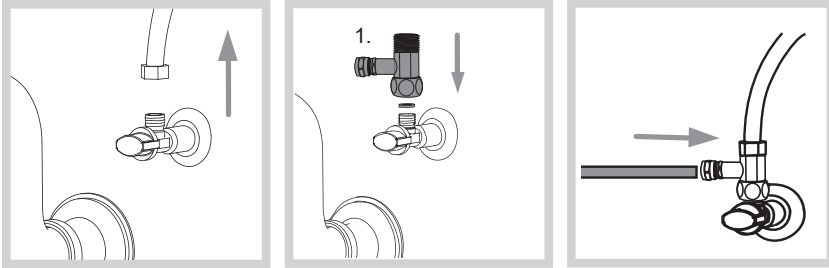
4. Connect the under-sink hydrogen water tube to the machine's hydrogen water outlet using an L-shaped connector. Secure with a C-type Clamp. Connect the under-sink hydrogen water tube to the machine's hydrogen water outlet using an L-shaped connector. Secure with a C-type Clamp.

5. Installation

02. Tubing Installation

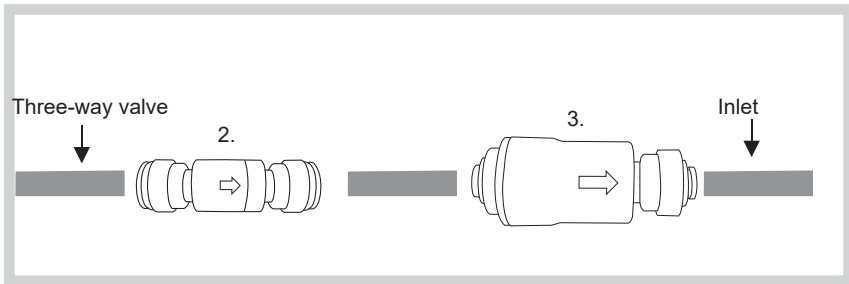
Installation sequence at the water inlet end

1.Three-way valve 2.Connector filter 3.Pressure-reducing valve



Install the three-way valve with a flexible joint.

1. Turn off the water supply: Loosen the joint at the water inlet end of the water pipe.
2. Take out the three-way valve with flexible joint from the parts package and install it.
3. Install the PE pipe and connect it to the leaking circuit breaker to complete the installation of the flexible three-way valve.

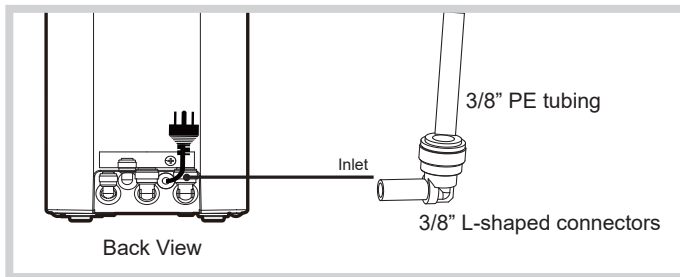


Installation of Connector filter and Pressure-reducing valve.

4. Connect the Connector filter to the tap water tube, then attach the pressure-reducing valve and 3/8" PE tubing.
Secure the pressure-reducing valve with a C-type Clamp.

5. Installation

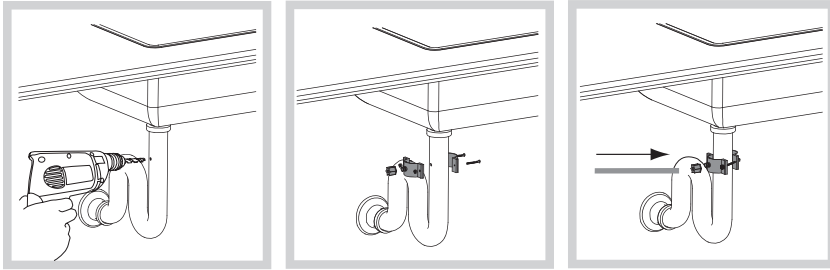
02. Tubing Installation



5. Connect the 3/8" PE tubing to the machine's water inlet using the L-shaped connector, then secure it with a C-type Clamp.

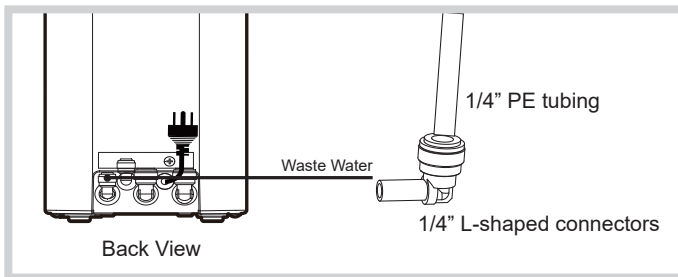
5. Installation

03. Waste Water Installation



1. Drill a 6mm hole on the existing drain pipe.
2. Tighten the drain clamp evenly on both sides.
3. Connect the PE tube and complete the drain clamp assembly.

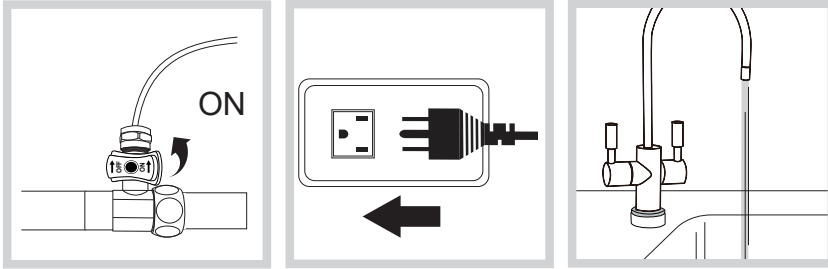
03. Waste Water Installation



4. Connect the machine's wastewater outlet to the 1/4" PE tubing using an L-shaped connector, then secure with a C-type Clamp.

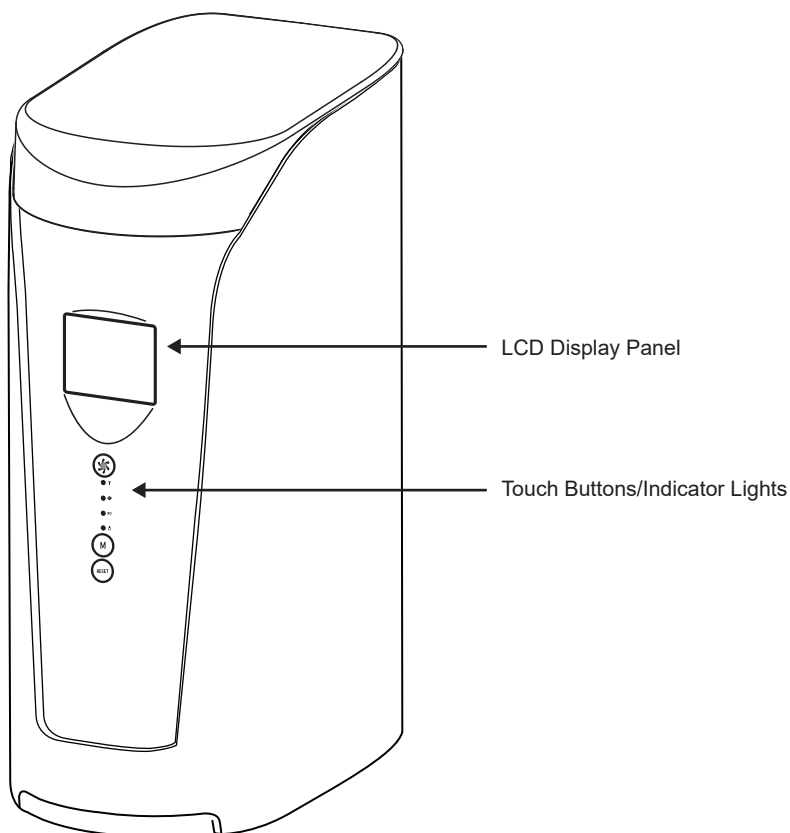
5. Installation

04. Power Supply



1. Open the integrated three-way valve.
2. After plugging in the power, the machine will automatically enter the flushing and cleaning process for the tubing.
3. Once the automatic flushing is complete, open the faucet to discharge residual water in the pipes for 5-10 minutes.

6.LCD Display, Touch Buttons, Indicator Light Instructions

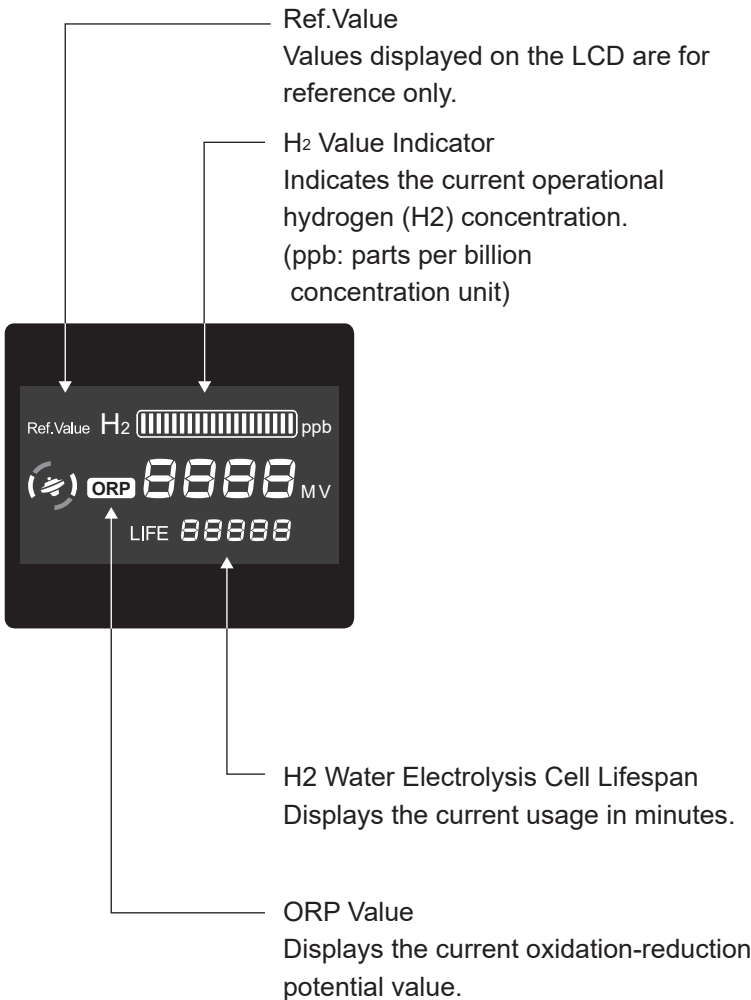


6.LCD Display, Touch Buttons, Indicator Light Instructions

01. LCD Display :

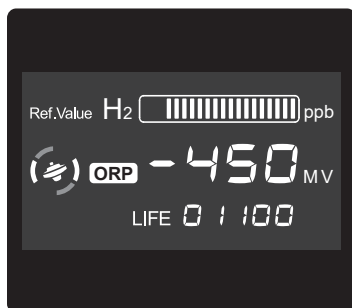
⚠ Note

The machine is equipped with a power-saving device. The LCD screen will automatically turn off if it is not operated for a period of time.
When needed, touch the button and the screen will light up automatically.

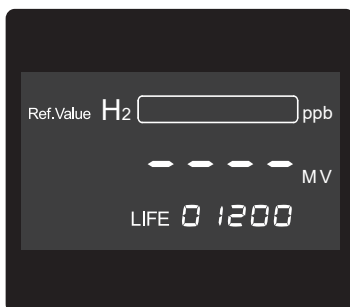


6.LCD Display, Touch Buttons, Indicator Light Instructions

02. LCD Display - Electrolytic Cell Lifespan :



Electrolysis in Progress -
Electrolysis Lifespan Normal.



No Electrolysis in Progress -
Electrolysis Cell Lifespan Reached.

03. Touch Buttons/Indicator :

Note

Touch Buttons: A beep sound will be emitted when touched.

Activate Function Mode: Touch the touch button (simultaneously emits a beep), continue to hold for a few seconds until a beep is heard (indicating that the mode is activated), then release the touch button.

6.LCD Display, Touch Buttons, Indicator Light Instructions

Name		Status	Explanation
Filter Drainage Button			RO Filter Drainage Button
Abnormal Indicator Light	→ 	Red Light	Flashing Water leakage with beeping sound
Hydrogen Water Light	→ 	Yellow Light	Flashing Electrolysis cell lifespan is approaching
RO Filter Light	→ 	Green Light	Flashing RO filter lifespan is approaching
Power Light	→ 	Blue Light	Light Off Not plugged in
			Engineer Button
Reset Button			1. Clear/reset Filter Lifespan. 2. Turn off 30-minute auto-shut-off function. 3. Clear/reset Electrolysis Cell Lifespan.

Note

Electrolysis Cell Lifespan Expired: When turning on the faucet for water output, it will emit 16 beeps as a reminder. (Steady yellow light)

Filter Lifespan Expired: When turning on the faucet for water output, it will emit 16 beeps as a reminder. (Steady green light)

7.Filter and Electrolytic Cell Functions and Replacement

● FB-RC multi-function RO 600GPD

(FB-RC multi-function RO 600GPD Disposable Filter Cartridge)

This system can completely remove all substances in water, such as heavy metals arsenic, cobalt, cadmium, mercury, etc. Bacteria and viruses can also be filtered, separating all substances from water molecules. It can simultaneously adjust the pH value of the water, increase the oxygen content, and dissolve an appropriate amount of minerals.

● Electrolytic Cell

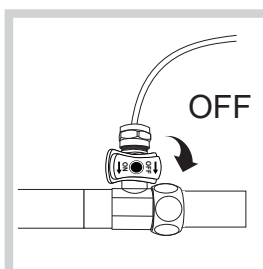
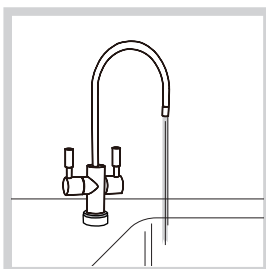
Produces pure hydrogen, dissolves hydrogen in water, and stores high levels of hydrogen.

01. Filter Replacement and Maintenance :

▲ Note

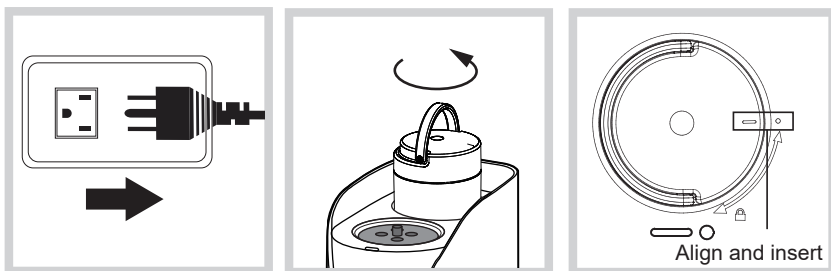
When replacing or removing the filter, it is necessary to press the filter drainage button to discharge water, reducing the weight of water in the filter and preventing excessive water from flowing out when the filter core is removed.

During rinsing, to stop, press the filter drainage button again for more than 7 seconds, and it will return to normal state.

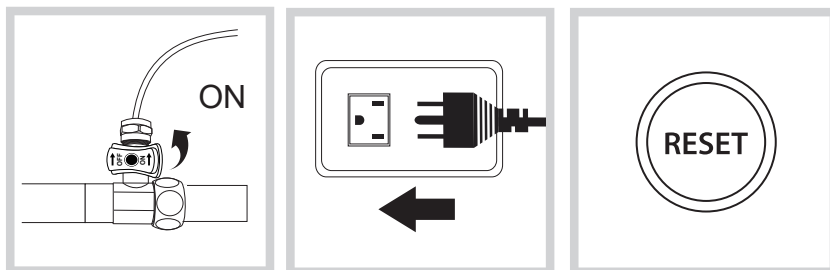


1. Press the filter drain button for more than 7 seconds to activate the filter drain mode; the power light will flash (blue light).
2. Open the tap during drainage to reduce the noise when removing the filter. Wait for 1 minute and then close the tap.
3. Turn off the three-way valve.

8. Filter Core Replacement and Maintenance



4. Disconnect the power.
5. Open the top cover, rotate counterclockwise to remove the filter for replacement. When removing the filter, please use a cloth for support.
6. Install the new filter, align the strip indicator on the filter with the machine's dot, insert it, then rotate clockwise until it locks into the machine's head, and finally close the top cover.



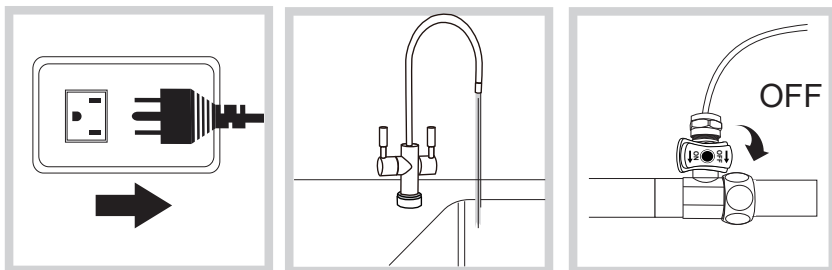
7. Open the three-way valve.
8. Plug in the power, automatically enter the flushing mode for about 1 minute.
9. Press and hold the reset button for about 7 seconds, a beep will sound, and the light will go out, completing the replacement process.

Note

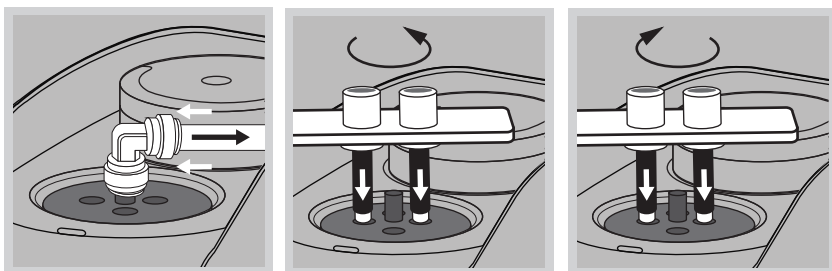
After the initial installation and each replacement of the activated carbon filter, it is necessary to discharge the activated carbon powder inside the filter for 5-10 minute to complete the filter replacement. After the filter replacement is completed, the initial hydrogen content may decrease, which is a normal condition. Once the air inside the filter is completely expelled, the hydrogen content will return to the normal range.

9. Electrolytic Cell Replacement and Maintenance

(Limited to operation by maintenance personnel.)



1. Disconnect the power.
2. Open the hydrogen water outlet faucet to release pressure and drain water. Close the faucet when there is no water flow.
3. Turn off the water supply.

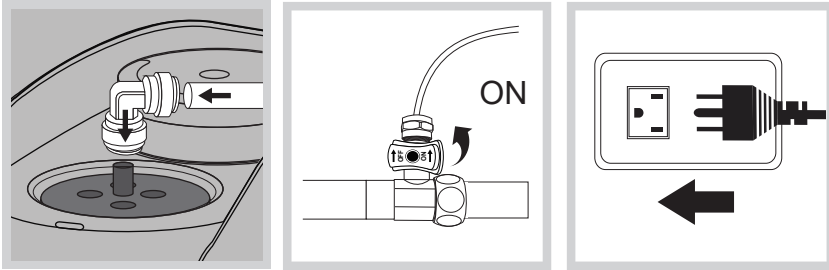


4. Open the top cover and disconnect the quick connection hose on the electrolytic cell.
5. Insert the electrolytic cell wrench into the circular holes above the electrolytic cell. Turn it counterclockwise, then remove the electrolytic cell.
6. Replace the new electrolytic cell. Insert the electrolytic cell wrench into the circular holes above the electrolytic cell. Turn it clockwise to tighten.

※ **Please note that the wrench is an optional accessory and should be purchased separately based on your needs.**

9. Electrolytic Cell Replacement and Maintenance

(Limited to operation by maintenance personnel.)



7. Connect the #2 hose to the small opening of the #2/#3 90-degree quick connector/adaptor and secure it with a C clip. Then insert the larger opening of the connector into the #3 water outlet of the electrolytic cell. Place the top cover back on.
8. Turn on the water supply.
9. Plug in the power, and the machine will automatically enter the flushing mode for 1 minute.
10. Press and hold the reset button for about 7 seconds until a beep is heard, and the light goes out. The replacement procedure is now complete.

10. Troubleshooting Reference

Condition	Probable Cause	Solution
The machine cannot start up.	1-1 Power supply abnormality (Power indicator light is not lit).	Step 01 - Please confirm whether there are any issues with the power supply and ensure that the transformer plug is securely inserted. Step 02 - Please confirm whether the transformer is properly plugged into the power socket of the machine. Step 03 - If there are no issues with the power supply and transformer socket, but abnormalities persist, please call the customer service hotline for assistance. Maintenance personnel will handle the issue.
	1-2 Pump failure: 1-2-1 Internal circuitry detachment or other abnormal wiring within the machine; 1-2-2 Abnormal high-pressure switch; 1-2-3 Abnormal control circuit board ; 1-2-4 Pump motor malfunction.	Please call the customer service hotline for assistance. Maintenance personnel will handle the issue.
	1-3 Internal water leakage in the machine triggers the water leakage detection circuit board, subsequently shutting down the machine operation: 1-3-1 Leakage from the connections to the filter or pipeline; 1-3-2 Leakage from connections to other components (such as the high-pressure switch, solenoid valves, etc.). 1-3-3 Leakage from the pump body.	Close the water inlet ball valve and disconnect the power. Call the customer service hotline for assistance. Maintenance personnel will handle the issue.

10. Troubleshooting Reference

Condition	Probable Cause	Solution
Abnormal operation of the machine	2-1 Pump running continuously: 2-1-1 Damage to the check valve causing pressure leakage, leading to the repeated opening of the high-pressure switch; 2-1-2 High-pressure switch malfunction; 2-1-3 Pump efficiency decline, resulting in insufficient water production pressure to reach the cut-off point of the high-pressure switch, causing the pump to run continuously. 2-1-4 Poor contact in the machine's wiring.	Please call the customer service hotline for assistance. Maintenance personnel will handle the issue.
	2-2 Unusual noise during pump operation: 2-2-1 When the water inlet pressure is too low (low flow), it is easy for the pump to draw in air, resulting in a "whistling" or "hissing" sound. 2-2-2 Noise generated by tubing colliding with casing or other components as a result of pump vibrating the tubing. 2-2-3 Internal components of the pump body colliding or rubbing, producing a "clicking" or "creaking" sound.	Step 01 - Solve the problem of low water inlet pressure (normal tap water inlet pressure is around 15 psi or higher). Check if the FB-RC multi-function RO 600GPD has exceeded its lifespan without replacement, causing blockage and resulting in low water flow. Replace if needed Step 02 - Use tape or another method to secure the tubing to eliminate vibrating. Step 03 - Call the customer service hotline for assistance. Maintenance personnel will handle the issue.
	2-3 Machine leakage:	Refer to the process outlined in 1-3.
	2-4 Unable to clear the indicator light after replacing the filter or electrolytic cell.	Step 01 - Press and hold the reset button for 7 seconds to ensure the indicator light goes off. Step 02 - Please check for any issues with the water source and leakage. Step 03 - If the above steps do not resolve the abnormality, please call the customer service hotline for assistance. Maintenance personnel will handle the issue.

10. Troubleshooting Reference

Condition	Probable Cause	Solution
Abnormal water production	3-1 TDS (Total Dissolved Solids) value of purified water after filtration is greater than 50 ppm: 3-1-1 The machine has been idle for too long (more than three days). 3-1-2 Blockage at the waste water outlet (due to the self-flushing flow restrictor), causing the waste water to be unable to drain, affecting the increase in TDS value of purified water. 3-1-3 FB-RC multi-function RO 600GPD has reached the end of its lifespan or is damaged.	Step 01 - Flush the water from the FB-RC multi-function RO 600GPD thoroughly and reinitiate the water production. Step 02 - Confirm if waste water is being discharged during the machine's water production process. If no waste water is being discharged, call the customer service hotline to seek assistance from maintenance personnel in replacing the parts. Step 03 - If the TDS value remains high after cleaning the FB-RC multi-function RO 600GPD, replace it with a new , and after cleaning for 5-10 minutes, the water can be consumed.
	3-2 Faucet water flow reduced 3-2-1 Low water inlet pressure, leading to insufficient water supply flow to achieve the machine's water production efficiency. 3-2-2 Blockage in the RO membrane, resulting in decreased water production efficiency. 3-2-3 Decline in pump efficiency, causing decreased water production efficiency.	Step 01 - Solve the problem of low water inlet pressure (normal tap water inlet pressure is around 15 psi or higher). Step 02 - Replace the FB-RC multi-function RO 600GPD with a new one of the same specifications and clean for 5-10 minutes before consuming. Step 03 - If the above steps do not resolve the issue, please call the customer service hotline for assistance. Maintenance personnel will handle the problem.

10. Troubleshooting Reference

Condition	Probable Cause	Solution
Abnormal water production	3-3 The pump has stopped running, but it continues to discharge waste water: 3-3-1 For pump-equipped models: Defective water inlet solenoid valve, preventing the valve from closing.	Please call the customer service hotline for assistance. Maintenance personnel will handle the issue.

11. Hydrogen Water Q&A

Q1. Why does the hydrogen water just generated produce a cloudy white foam or small bubbles?

A1. The product has a built-in device that combines pure water with hydrogen molecules and then dissolves them, instantly generating saturated hydrogen water with up to 1600 ppb. The cloudy white foam in the water just generated consists of numerous high-concentration hydrogen molecules, which will gradually dissipate into the air over time. Please feel free to drink it as soon as possible.

Q2. After a while, cups and containers containing hydrogen water develop a layer of fine bubbles on the surface. What is this?

A2. This is a normal phenomenon caused by the high concentration of hydrogen molecules in the water. Please feel confident in consuming it.

Q3. Can I drink hydrogen water when taking medication?

A3. To avoid any interference with the effectiveness of medication, it is advisable not to consume hydrogen water while taking medication.

12. Product Specifications

Note

If the water source used does not meet the inlet conditions, please contact the customer service center.

	Model Number	CDA-DH2
	Power Consumption	48~155W
	Rated Voltage	24Vdc, 6.35A
	Reverse Osmosis Membrane	600GPD
	Hydrogen Content	1400~1600ppb
	Product Dimensions	W 17cm x H 45.2cm x L 28.6cm
	Applicable Water Source	Municipal water
	Product Weight	9.2kg
Inlet water	Inlet Water Hardness	<250ppm
	Inlet Water Pressure	15~50psi
	Inlet Water Temperature	5~40°C
Product water	Water Output Mode	Hydrogen Water / RO Water
	Water Output Volume	Hydrogen Water : 0.8L/min ; RO Water : 1.9L/min Water output volume varies slightly depending on the water inlet pressure.
	Filter Cartridge	FB-RC multi-function RO 600GPD (FB-RC multi-function RO 600GPD Disposable Filter Cartridge)
	Filter Cartridge Lifespan	Operation time(min) : 6250 Power-on time (hr) : 25900
	Electrolytic Cell Lifespan	Operation time(min) : 12000 Power-on time (hr) : NA

[illegible]

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[illegible]

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