

PURIFIGHTER

INSTRUCTIONS FOR REVERSE OSMOSIS WATER PURIFIER



Type: YHD2301A2

Before using this product, please read the user manual carefully and keep it properly for future use.



Note: We reserve the right to make changes or update appearance to improve product function and performance.

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Explanation of Relevant Icons in the Manual:



Warning:

This symbol represents potential hazards and important information that may exist when operating equipment or components.



Tips:

This symbol represents useful information and precautions. Please follow the prompts for successful and effective use of the product.



Note: General information annotation prompt.



Description: you can find useful supplementary instructions about the use of this machine.

Please read this manual carefully to understand the correct installation, use, and maintenance methods of the product. Therefore, please keep this manual properly for future reference.

INTRODUCTION

Dear customer, thank you very much for purchasing this product.



This water purifier is suitable for outdoor camping and indoor home use. You will be able to drink pure water without worrying.

- !** Warning: This product is used to filter various natural water and tap water. The filter elements can filter organic compounds, viruses, bacteria, and impurities in water. If the machine has not been in use for a long time, please flush the system according to the instructions. Incorrect installation may void the warranty. People with limited mobility or children should use this product with the help or under the supervision of their family.

Power sources applicable:



1. Car-light cigarette charger (12V, 5A / 24V, 2A)



2. Power supply from electric car (DC: 24V)



3. Power bank ($\geq 35W$)



4. Municipal power supply (AC)

- !** **Warning:** **Power precautions** (municipal power supply)
1. This product is connected to a power socket with a ground wire. Do not share the same socket with multiple appliances.
 2. The power supply voltage must be consistent with the information on the product packaging. It is recommended to equip voltage regulators in areas with unstable voltage.
 3. Improper connection will result in the void of warranty and pose safety hazards.



! **Warning:**
Power precautions
(municipal power supply)

4. To prevent fire, electric shock, or personal injury, do not put the power cord, plug, or this product into water. The withstand current of the socket used must be greater than 10A to avoid overheating or fire accidents.
5. Do not touch the power plug with wet hands. Regularly clean the dust or water stains on the contact parts of the power plug to reduce the risk of electric shock and fire.
6. Please firmly plug the power into the power socket to avoid the risk of electric leakage.
7. Please use the original power cord.
8. When the machine malfunctions, please quickly cut off the water source and power supply, and contact the manufacturer.
9. Do not bend or break the power cord with heavy objects to avoid the risk of electric leakage. If the power cord is damaged, it must be replaced by a professional.
10. If the machine will not be used for a long time, please empty the internal stored water and turn off the power.
11. This product is suitable for either direct current or alternating current, but cannot be connected simultaneously to both currents to avoid damage to the machine.

i Note: We do not advocate the use of water sources greater than 1500ppm for filtration, such as seawater.

i Note: Purifighter water purifiers can perform seawater (>1500ppm) filtration, but this behavior tends to lead to a significant reduction in the life of the water purifier's filter cartridge, affecting the normal use of the water purifier.

Applicable water pressure: <0.3MPa.

i Note: Solve the problem of outdoor water use, flexibly use multiple water sources for filtration, and achieve true direct drinking.



SAFETY NOTICE

Please pay attention to the following matters in order to use this product more safely.

Safety related to surroundings

1. Do not store or expose the water purifier to an environment below 0°C (32°F) to prevent pipeline freezing and water leakage.
2. The ambient temperature for use is required to be between 5-38°C (41-100.4°F).
3. Do not use in damp, low temperature or flammable areas.
4. Do not disassemble the components on the water purifier by yourself to avoid damage or leakage of the water purifier.
5. The water purifier is only suitable for use in environments below 1500 meters above sea level.
6. Please do not place it in a tilted area.

When using

1. Do not allow people with mobility disorders to operate the machine. Children shall operate under adult's supervision.
2. To maintain the normal operation of the machine, it is necessary to use the accessories and consumables provided by our company.

End of use

1. If there are children at home, to avoid maloperation of hot water, it is recommended to keep the machine in a child lock mode or turn off the power.
2. If the product will not be used for a long time, the stored water must be emptied (please refer to the instructions) and unplug the power cord. When reuse, three tanks of water shall be filtered before normal usage.

Warning

Please empty the stored water inside the machine before moving it.

PRODUCT SPECIFICATIONS & PARAMETERS

Product Details:

Product:..... Desktop water purifier
Name:..... Reverse osmosis water purifier
Model: YHD2301A2

Product Description:



Filter any harmful components that may exist in water, such as nitrates, lime, drugs, viruses, bacteria, heavy metals, microplastics, insecticides, chlorine, etc., through ① composite filter and ② reverse osmosis filter.

Technological information:

Connection method: Water tank mode / Pipe connection mode

Composite filter replacement cycle: 6-month reverse

Replacement cycle for RO membrane: 12 months

Application scope: RV, Camping, Yard, Home, Kitchen, Living rooms,
Condo, Apartment, Office

Membranes: 100 GPD reverse osmosis membrane

Power interface: AC : 110 V(power cord) / 60 Hz ; DC: 12/24V

Water tank: 3L source water tank, 1.3L pure water tank



Innovative technology of 2 levels' filtration.

Introduction to the core technology of filters:

In order to obtain clean and safe direct drinking water, we adopt advanced integrated packaging technology and use RO reverse osmosis purification system.



i Note : Purifighter RO Filter Cartridge is purchased from DuPont Corporation and certified against NSF/ANSI 58/42 and SGS. Please scan the QR code to view the relevant certification report.

Filter element: Number ① filter element: Composite fine filter element.



5 micron PP cotton
Effectively block large particle impurities in water, such as silt, rust, asbestos, sand, mud, and other coarse particles.
Compressed activated carbon absorbs odors from water, such as residual chlorine (tap water bleach).

Number ② Filter element: RO membrane Dow filmtec™ 100 GPD (0.0001 micron filtration system)

Reverse osmosis membrane:

Remove nitrates, insecticides, drug residues, lime, bacteria, viruses, hormones, chemicals and microplastics.



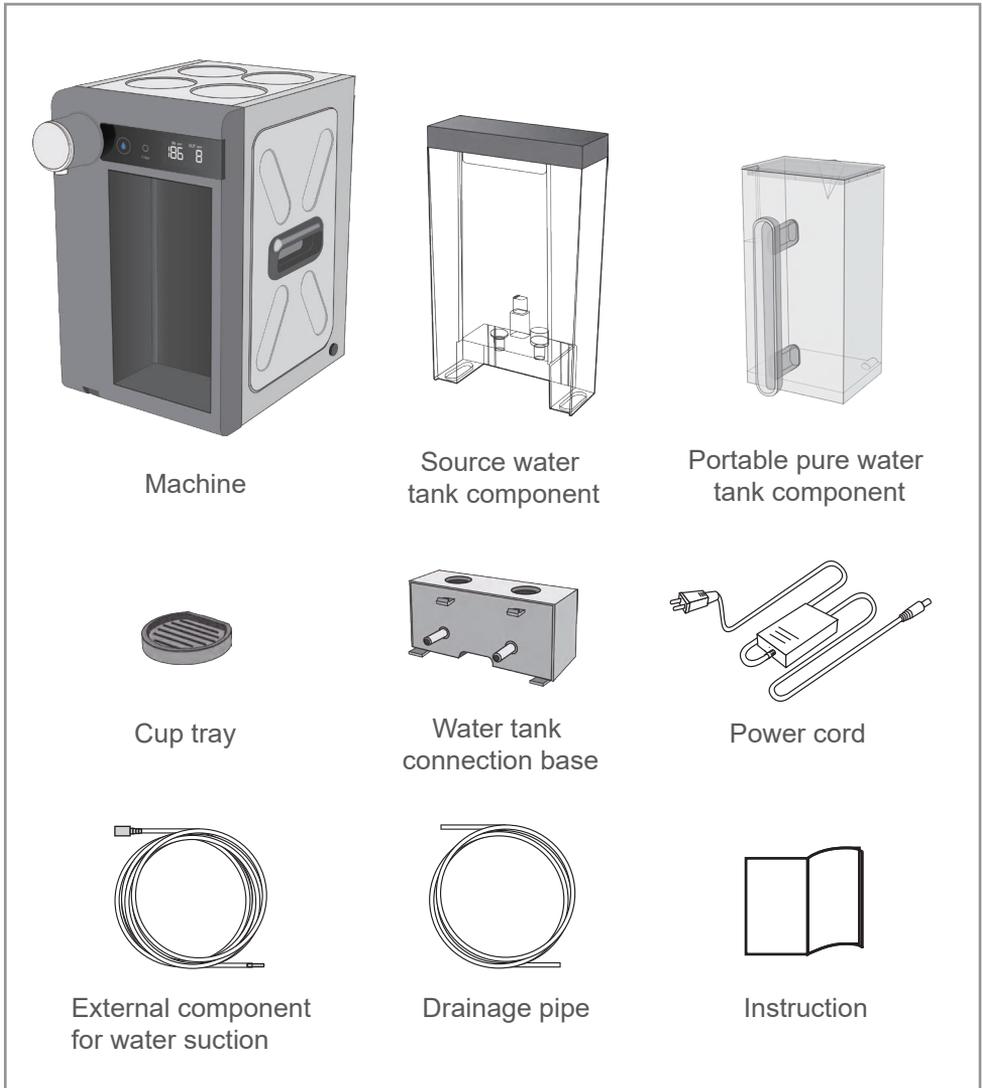
i Note: Concentrated water will be produced during the filtration process. The concentrated water is generated during the production of purified water by RO reverse osmosis filter cartridges. It is used to backwash the surface of the filter layer and extend the service life of RO filter cartridge. The replaced filter element can be discarded in household waste and cannot be recycled.

💡 Tips: Use of concentrated water. You can use concentrated water to clean toilets, houses, or clothing, etc.

! Warning: Do not use concentrated water for drinking or cooking!

PRODUCT COMPONENTS INTRODUCTION

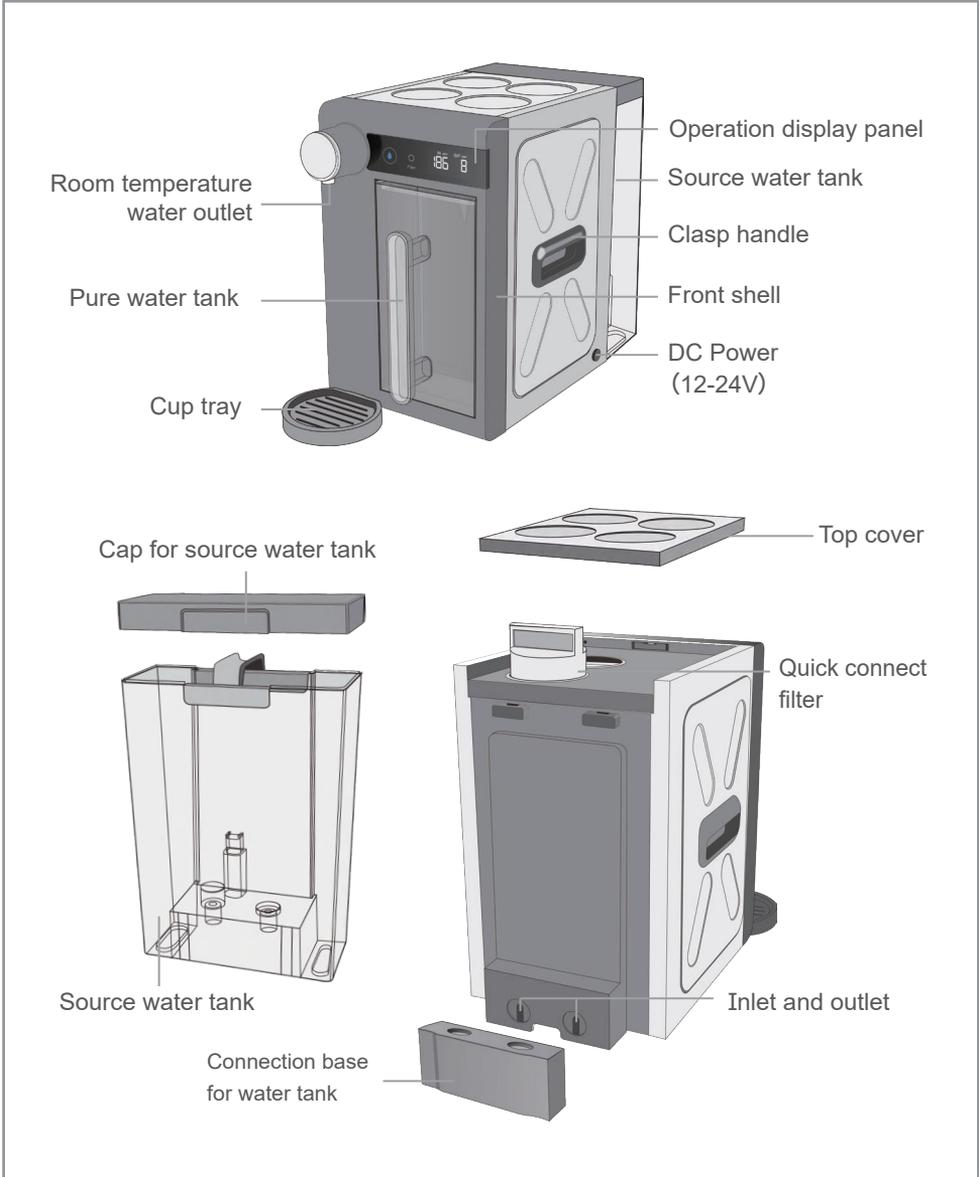
List of items inside the packaging:



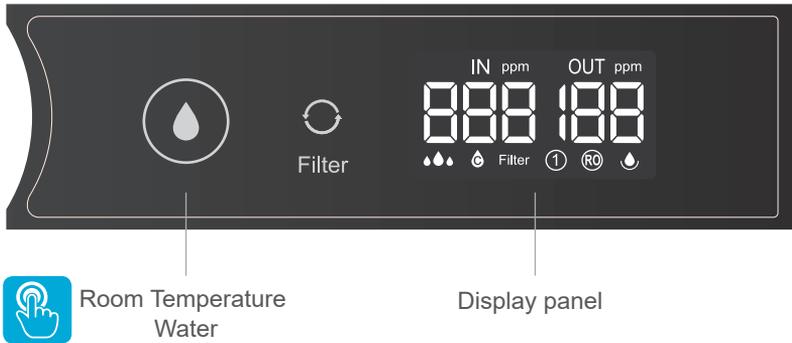
i Note: We reserve the right to make technical and functional changes. The images, text, and structure of this operating manual may be subject to change. Therefore, we guarantee continuous improvement of our products.



LIST OF ITEMS INSIDE THE PACKAGING



INTRODUCTION TO CONTROL DISPLAY PANEL



| Icon | Display form | Instruction |
|------|---------------|--|
| | Display Digit | To show the TDS concentration (ppm value *) in the water tank (source water) before filtration and purification. |
| | Display Digit | To show the TDS concentration (ppm value) of purified water after filtration and purification. |
| | Icon lights | The indicator light is on when the machine is in operation. |
| | Icon lights | Intelligent reminder for filter replacement function, with flashing filter and digital indicator lights. (Refer to filter operation for details) |
| | Icon lights | The indicator light is on when the machine needs to change water. |
| | Icon lights | Machine pipeline cleaning reminder. After a certain period of operation, the icon light will flash, indicating that pipeline cleaning is required. |

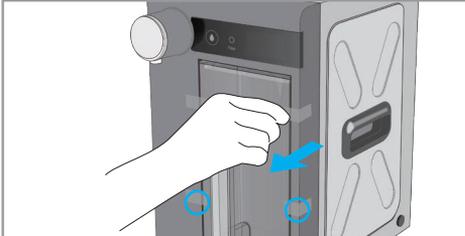
TDS - to measure the Total Dissolved Solids in water, indicating the purity and quality of the water.



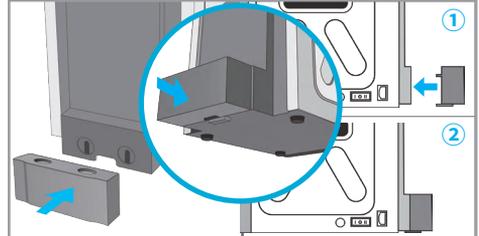
INITIAL UNBOXING AND NEW MACHINE CLEANING

i Note: Before using a new machine, it is necessary to clean the interior and pipelines of the machine. Please follow the steps and precautions below.

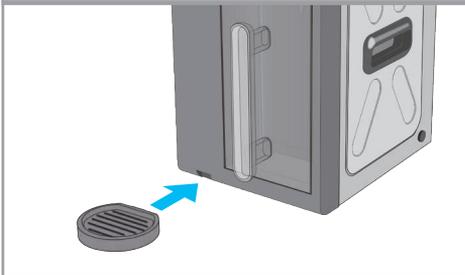
① Initial Unboxing



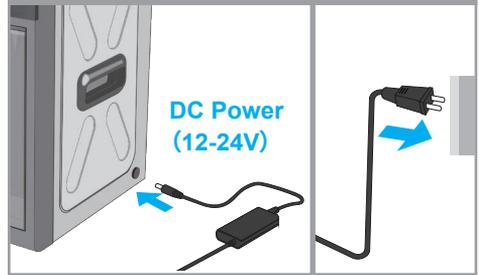
1. Open the box and take out the machine, remove the packaging materials and the fixing tapes.



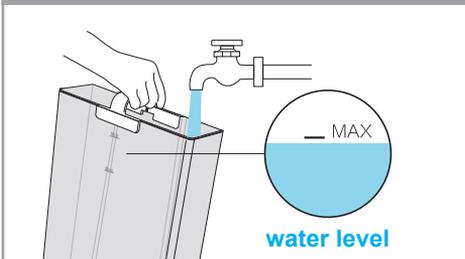
2. Assemble the source water tank base: Insert the base into the double hole position at the back of the machine. (Please make sure to install it properly, otherwise it may cause water leakage.)



3. Install the cup tray (with fixed grooves under the machine)



4. Power Connection: Connect the power cord to the side of the machine. Then turn on the power.



5. Inject tap water into the water tank until the water in the tank is close to the maximum scale but not above it.

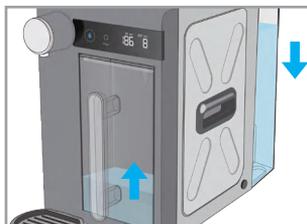


6. Put the water tank on the tank foundation and cover it with the tank cover. It is necessary to ensure that the water tank is properly placed to prevent water leakage.

INITIAL UNBOXING AND NEW MACHINE CLEANING



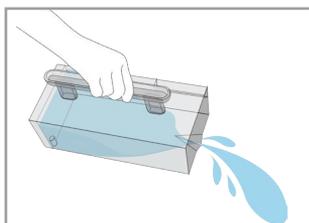
7. The machine starts filtering and the display panel displays the " " water making icon.



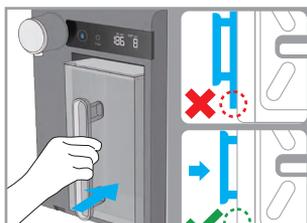
8. The machine produces pure water, and the water level in the source water tank falls gradually.



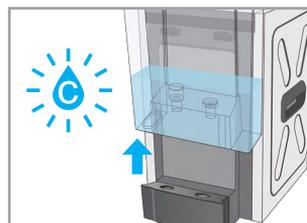
9. The water level in the pure water tank rises accordingly.



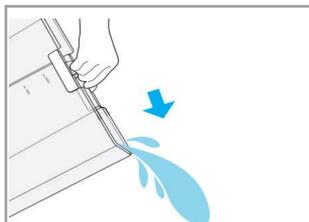
10. When the " " in the screen goes out, take out the pure water tank, and pour out the water.



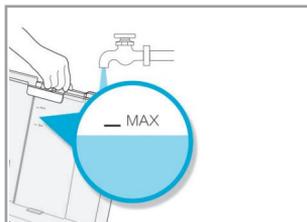
11. Put the pure water tank back and make sure it is installed properly.



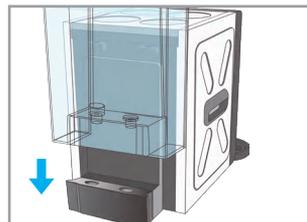
12. Lift the source water tank when the change water light " " is on.



13. Pour out remained water.



14. Refill with water.



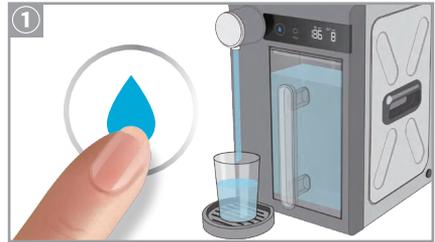
15. Fill up with water and put the source water tank back to the machine.

- i** Note: 1. The above steps are repeated, and the cleaning process requires at least 4 boxes of source water tank. After cleaning, you can start drinking.
2. In step 11, if the pure water tank is not properly installed, the water purifier will not be able to start filtration and water production.



① Get room temperature water

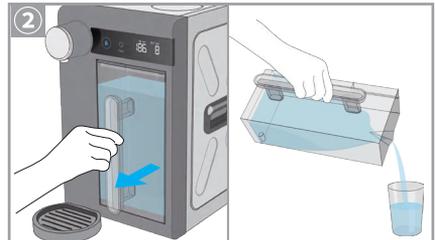
Place the cup container and click the "💧" button on the operation panel. The machine directly dispenses room temperature water. The default cup capacity is about 250mL. If you want to stop dispensing water, press the "💧" button again.



i Note: Do not remove the water tank when the water is dispensed.

② Get water from the pure water tank

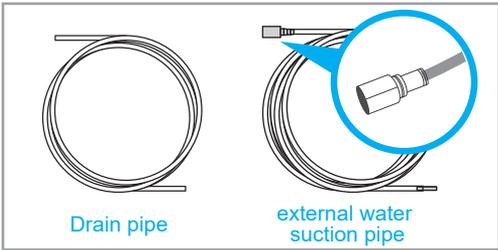
Place the cup, take out the pure water tank, and pour water directly. (Be sure to put the pure water tank back to the right position.)





PIPE CONNECTION MODE

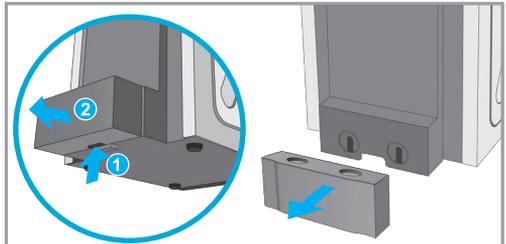
i Note: Please refer to the following steps when using the pipe connection mode.



Drain pipe

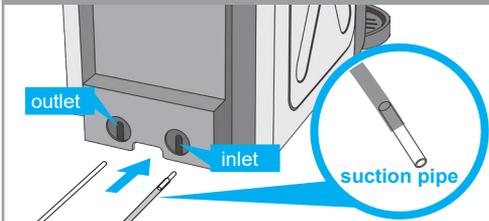
external water suction pipe

1. Take out the external water suction component that comes with the machine (Including drain pipe/external water pipe).



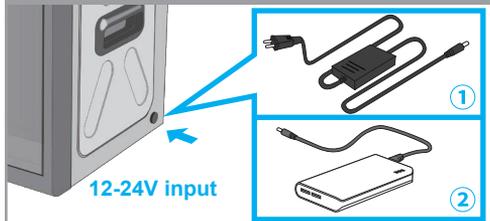
2. How to disassemble the water tank base:

① press the spring buckle under the water tank base; ② pull it out backward.



3. Pipe connection:

- ① The left side is the drainage outlet: insert the PE water pipe;
- ② The right side is the water outlet: insert the water suction pipe provided.



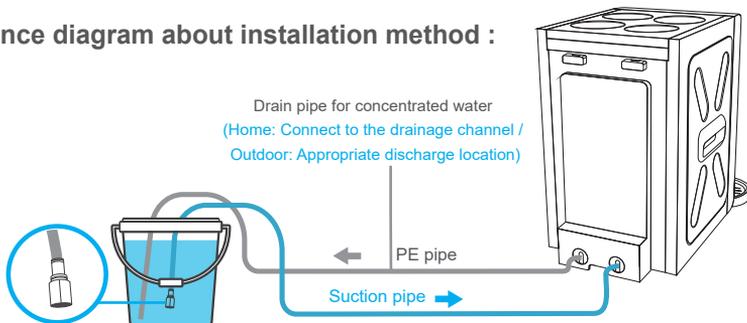
4. Power input method selection:

- ① Plug in 12-24V power input;
- ② Plug in the vehicle power cord or outdoor power supply and start the machine.

Choose a water source (outdoor water source or bucket), and put the other end of the suction pipe into the water source. The concentrated water will be discharged from the left drain pipe (Please place it in a suitable place for outdoor use, or connect it to the sewer for drainage at home).



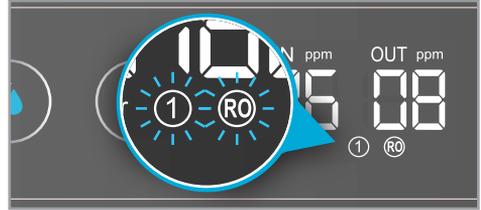
Reference diagram about installation method :



i Note: When the mode is switched to Pipe Connection, please ensure that the drain and water outlet pipes are installed in place to prevent water leakage.

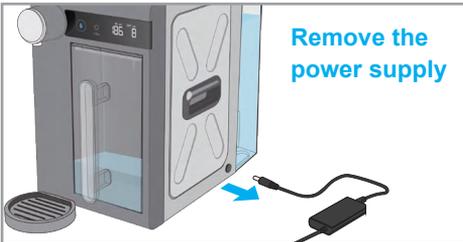


FILTER REPLACEMENT

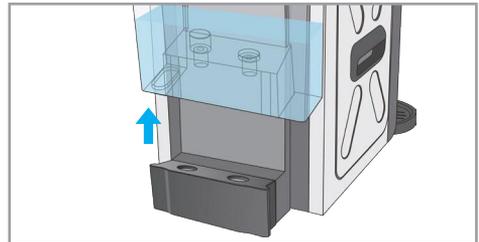


i Note: A filter needs to be replaced if it reaches its expiration. The display screen will automatically display the number of filter that needs to be replaced.

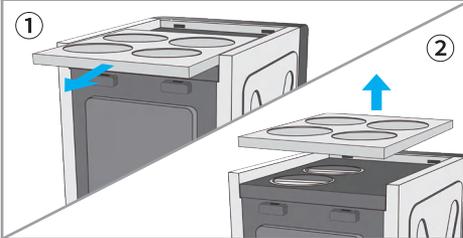
1. The steps are as follows.



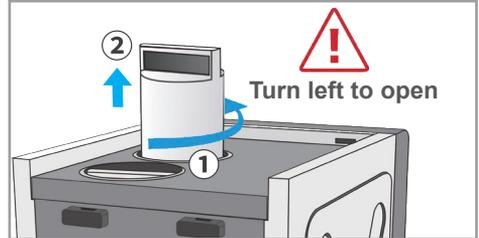
1. Turn off the power and pull out the power cord.



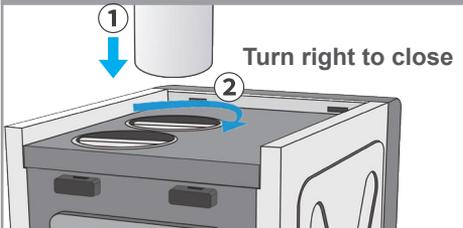
2. Remove the source water tank.



3. Open the cover plate.



4. Take out the expired filter (Turn left to open).



5. Put in the new one. (Turn right to close)

! Warning :

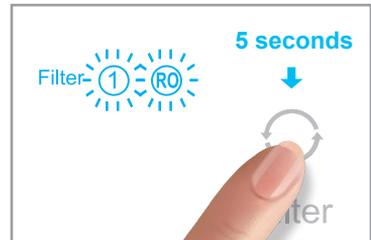
The filter must be rotated to install (right turn) or remove (left turn) according to the operation instructions. Do not pull out the filter directly to avoid damage to the machine.



2. Filter reset:

(In order to recalculate the service life of the replaced filter, reset is required.)

Turn off the " ① RO " that is a luminous prompt.
Long press the " ↻ " button for 5 seconds,
and the indicator light will turn off to complete
the reset.

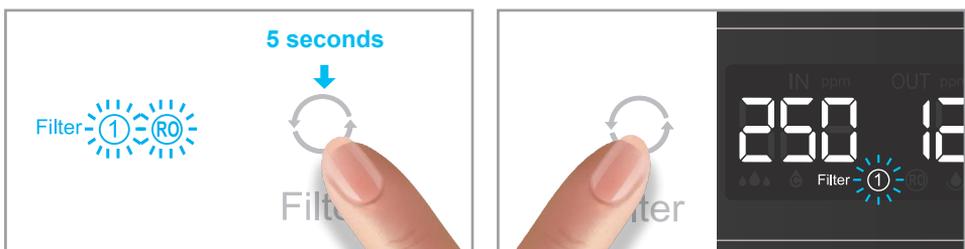


3. Replace the filter in advance and reset it:

If you change the filter before its expiration, proceed as follows:

1. Press and hold the " ↻ " button for 6 seconds, then an icon " ① "" " RO " will flash on the screen.
2. Click on the button of getting water " Ⓞ " to switch to an icon for filter replacement. Switch to the filter number that needs to be replaced, and the corresponding icon will flash.
3. After the completion of filter replacement, press and hold the " ↻ " button for 6 seconds. The corresponding icon will disappear.

i Note: The flashing icon will disappear if no operation within 10 seconds.



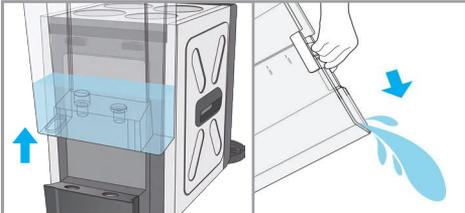
i Note: The machine must be flushed when replacing the RO filter .

! Warning: The filter must be rinsed before dispensing. Therefore, it is necessary to circulate and filter 4 boxes of source water tank.(For details, please refer to page 9: New machine cleaning process)

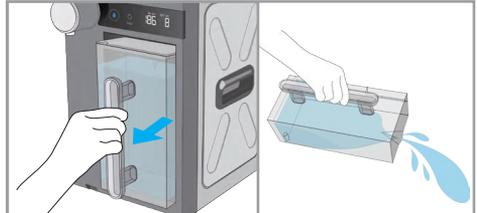
PREPARATION FOR TAKING OUTDOORS/MACHINE SHUTDOWN PRECAUTIONS

Empty stored water: If the machine will not be used for a long time or needs to be transported separately, the stored water inside the machine needs to be completely drained.

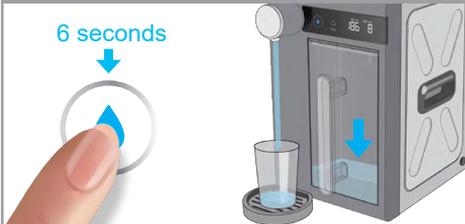
The operation method is as follows.



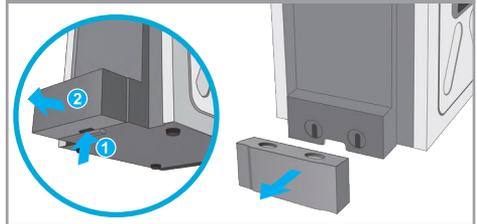
1. Remove the source water tank and empty the internal stored water.



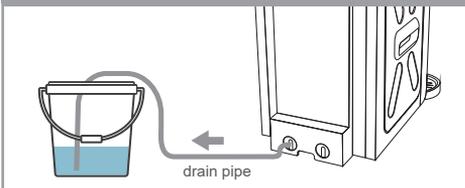
2. Take out the pure water tank at the front of the machine and empty the internal stored water.



3. Place a cup or other containers, press and hold the " " button for 6 seconds to activate the forced drainage function.



4. How to disassemble the water tank base: ① press the spring buckle under the water tank base; ② pull it out backward.



5. Insert the PE pipe into the drainage outlet, turn on the power, and drain the internal water from the drain pipe.

Machine to restart after long time shutdown - If the machine has not been in use for more than 1 week

Before using the machine, the filter elements and the inside of the machine must be rinsed. Therefore, at least 3 boxes of source water tank need to be filtered. (If the machine has not been used for a longer time, the filter elements shall be replaced and the cleaning process conducted before usage.)

! Warning: If the machine will not be used for a long time, please cut off the power supply and water pipe connection (in the case of external pumping mode), and drain the internal stored water. Place the machine in a dry and clean place and rinse it before usage.

PRECAUTIONS FOR USING VARIOUS POWER SUPPLIES

This product provides a variety of power access methods. When different power sources are used, pay attention to the power switching.



FAILURE RECOVERY & PRODUCT PARAMETERS

When an error code appears on the display screen, the system will stop running and will only continue to run when the error is fixed.

Function of automatic "recovery"

Turn off the power and disconnect the power cord. Wait for 10 seconds, then reconnect the power cord to the power source and turn on the device again. If there is an error code, please contact customer service to resolve the problem.

| Code | Error | Solution |
|--------|--|--|
| E1 | Failure of booster pump | Please contact the customer service. |
| E2 | Malfunction of single float water level control switch | Please contact the customer service. |
| E6 | Malfunction of water outlet pump | Please contact the customer service. |
| E7 | Booster pump operates continuously for more than 2 hours (or filter clogged) | Turn on the equipment again. If the error code reappears, please contact the customer service. |
| E8 | Double float water level control switch malfunction | Please contact the customer service. |
| Others | | Please contact the customer service. |

Product Parameters

| | | | |
|---------------------------|-------------------|-----------------------|---------------------|
| Output RT water flow rate | 1.2 L/min | Rated voltage | 12-24V |
| Max rated total amount | 660GAL/3000L | Product size | 8.54×16.89×12.95 in |
| Rated power | 47W(12V)/36W(24V) | Voltage of Power Bank | 24V / 2A |
| Inlet temperature | 5-38°C/41-100.4°F | | Output ≥35W |

PURIFIGHTER

INSTRUCTIONS FOR REVERSE OSMOSIS WATER PURIFIER



SGS



FDA

FC



www.purifighter.com

Scan to view
the report.

EPA Est. No.:101931-CHN-1