

# Bluevua<sup>®</sup>

Reverse Osmosis Drinking Water System



 1-888-637-0009 (Mon-Fri 9:00-17:00 PST)

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**Thank you for choosing Bluevua!**

Every product sold allows us to bring more people to a healthier lifestyle with clean water, and to a more sustainable future with less plastic waste.

## PREPARATION

### 1.1 Precautions

#### Note:

All contents in this chapter are related to safety, users must comply with it.

All contents in this chapter are only for the correct use of this product.

 <b>Prohibition</b>		
 Avoid installing under direct sunlight and outdoor places	 Do not expose to an environment below 0 °C	 Do not store flammable items near the machine

 <b>Warning</b>	
 When the machine breaks down, please cut off the water and power supply quickly	 Keep out of reach of children Please do not let children operate the machine

 <b>Attention</b>	
 Do not disassemble the machine by yourself as to prevent water leakage and damage to the machine	 Please make sure the temperature of water source is 5-38 °C
 When the machine will be inactive for more than 24 hours, please shut down its water source and turn off its power supply	 In order to run the machine smoothly, please use accessories and filter cartridges from Bluevua

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## PREPARATION

### 1.2 Before Using

Open the packaging and take out the entire machine, as well as all the accessories. Confirm them in accordance with the list to ensure that nothing is missing or damaged during the shipping. If there is any part broken or cracked, please contact Bluevua Support Team instead. To ensure a better using experience, please watch the guiding video from our website: [www.bluevua.com](http://www.bluevua.com)

**Tel:** 1-888-637-0009 Mon-Fri 9:00 AM-5:00 PM PST

**Email:** [support@bluevua.com](mailto:support@bluevua.com)

### 1.3 Required Tools

- Towel
- Happy mood

### 1.4 Product Specifications

Product Model	RO100ROPOT-Bluevua
Product Size (L*W*H)	L276*W362*H392mm
Feed Water Pressure	0~0.2 MPa
Feed Water Temperature	41~100°F / 5~38°C
Feed Water Requirement	Tap Water
Pure Water Rate	0.26L Per Minute / 100 Gallon Per Day
Power Specifications	Input 100~240V AC
	Output 24V DC; 1.5A

**Note:** The pure water rate is affected by water pressure and water temperature. The feed water is measured under 0.2 MPa water pressure and 25°C water temperature. When water pressure and water temperature fluctuate, the water rate also fluctuates.

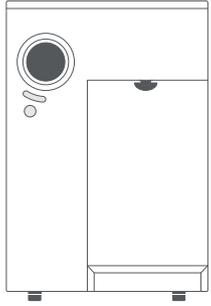
### 1.5 Filter Specifications

<b>PP</b>	5 Micrometers	<b>RO</b>	0.0001 Micrometers
<b>CTO</b>	0.5 Micrometers	<b>PCF</b>	0.1 Micrometers

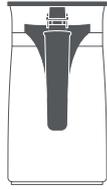
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## PREPARATION

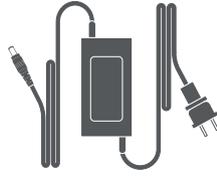
### 1.6 Product & Accessories List



RO Water System With  
PP+CTO+RO+PCF Filters



High Borosilicate  
Glass Carafe x 1

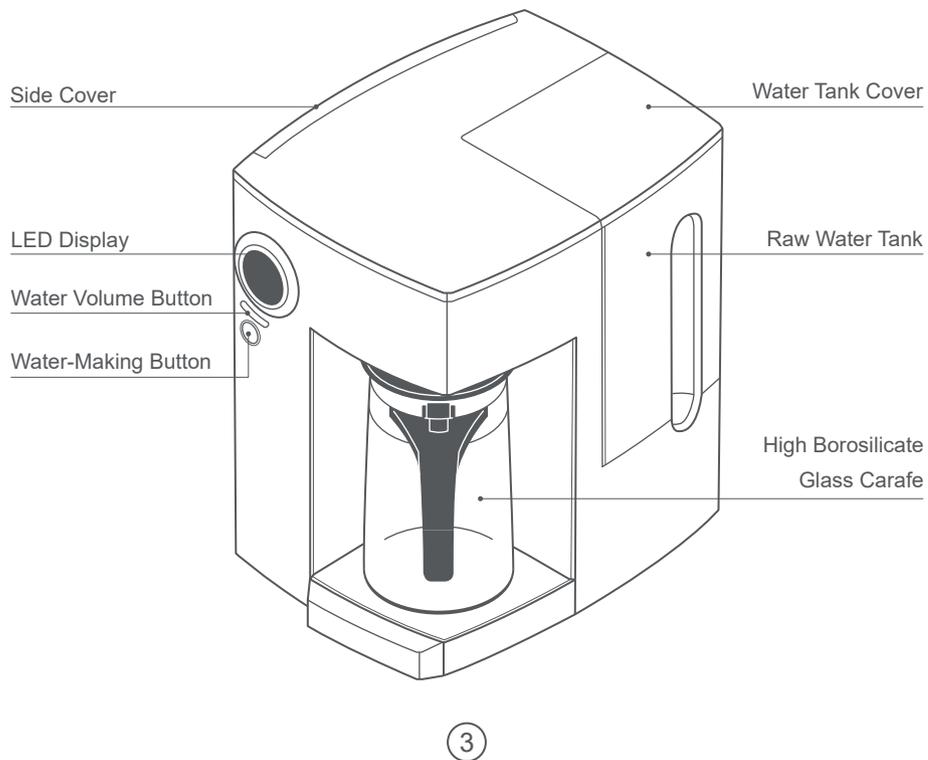


Power Adapter  
x 1 Set



User Guide  
x 1

### 1.7 Product Overview



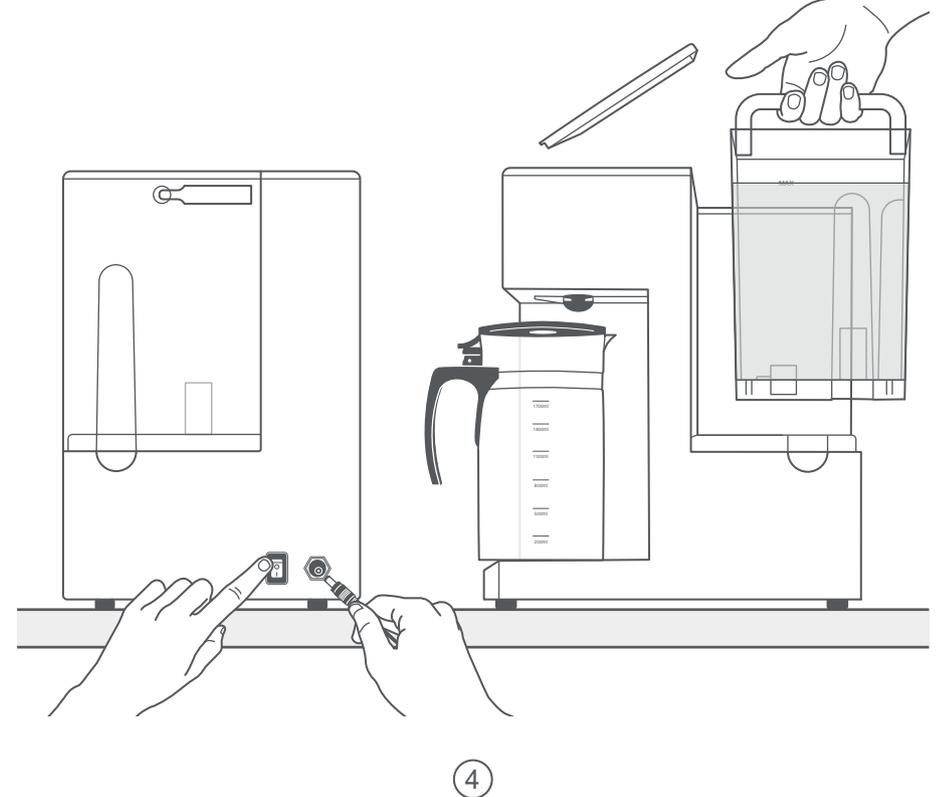
## GETTING STARTED

### 2.1 Setting Up ROPOT

1. Please wash the water tank and the glass carafe for the first time use.
2. Place the machine on a flat and stable surface, and make sure there are available power outlets nearby.
3. Plug the power adapter into the power outlet. Connect the DC cable to the power port on the back of the machine, then turn on the switch.
4. Fill the water to the **MAX** volume line on the water tank, and make sure the water tank and glass carafe are both stably placed.

#### NOTE

To extend service life and maintenance intervals, please discard the RO reject water left in the tank. **DO NOT** reuse it for another round of filtering.



## GETTING STARTED

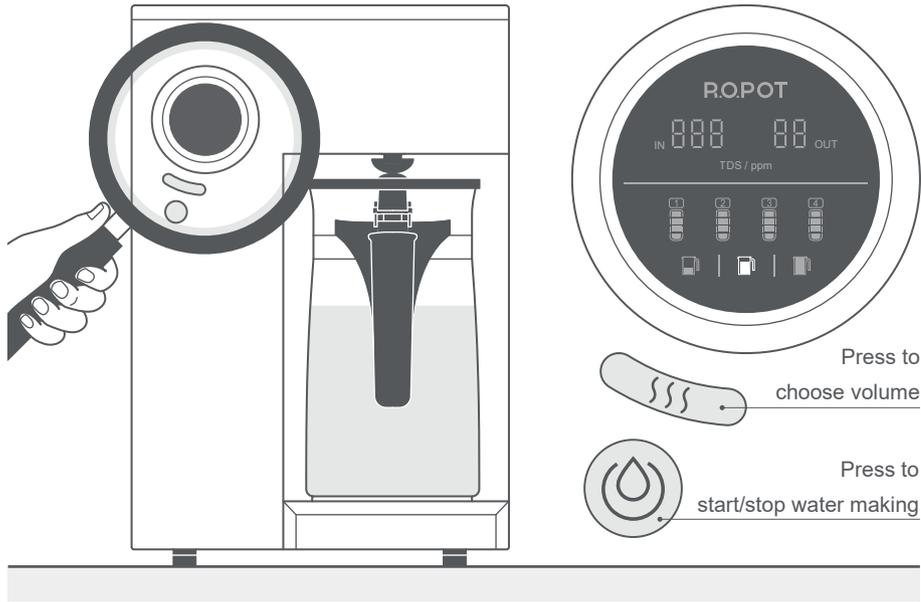
5. Gently press the banana-shaped **water volume button** to choose preferred volume between 0.5L, 1L, and 1.7L (full), the carafe icons on the bottom of the display panel will flash to indicate the selected volume.

6. After selecting volume, press the round **water-making button** to begin filtering.

7. Repeat steps 4 through 6 **five times** to flush out the protective liquid in the filters before drinking. Be aware the water is **NOT** drinkable during the flushing process.

### NOTE

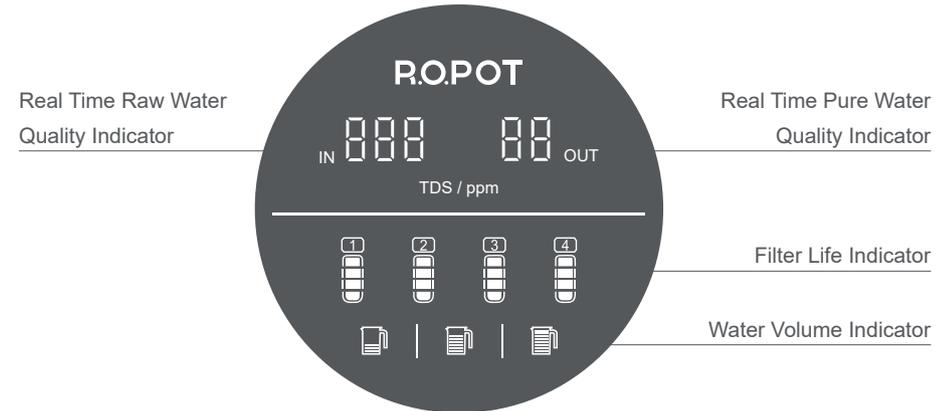
- During the first **1 - 2 rounds** the raw water in the tank will automatically fill the filters, and there may be no clean water produced during the first two rounds.
- For the first **3 - 5 rounds**, it is normal for the pure water made to turn black or grey due to the activated carbon particles as the filters are flushed clean.
- The system automatically enters **power saving mode** when left unused over **5 minutes**. Press the round **water-making button** to boot up the system again.



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## GETTING STARTED

### 2.2 OSD Function

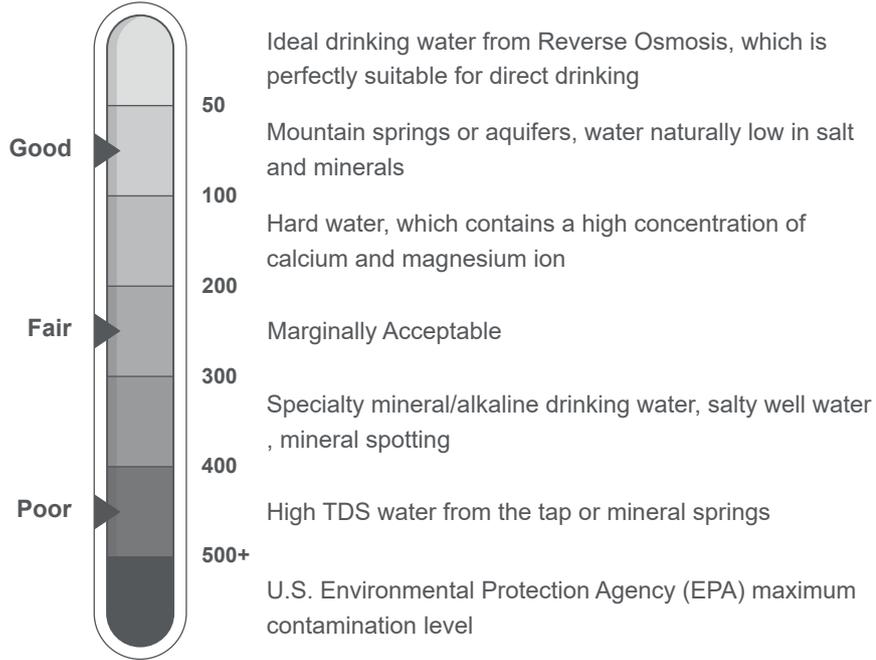


Indicator	Operating Status	Display
Power-On	When power is on, the buzzer plays power-on sound, all button lights and digital function menus is on.	All the indicators lights up under the auto-flushing and pure water-making process.
IN 000 00 OUT	Total dissolved solids (TDS) stands for total dissolved solids, and represents the total concentration of dissolved substances in water. <b>IN</b> indicates the TDS level of the raw water. <b>OUT</b> indicates the TDS level of the pure water. Note that during the water-making process, the TDS level usually fluctuates at the start before gradually becoming stable.	The real time water quality indicators are on during the water-making. It continuously displays the water quality based on the TDS level. The indicator remains off during the power saving mode.
1 2 3 4	The filter indicator reminds you when is the time to change the filter. When one or more filters expire, the indicators must be reset to restart the filter life reminder after the filter replacement.	When the filter expires, the indicator flashes repeatedly until the replacement and reset process are completed.
0.5L 1L 1.7L	The default volume is 1.5L. Gently press the water volume button to enter volume selecting mode, then press again the button to switch between 3 different volume: 0.5L, 1L and 1.7L(full) from left to right.	All three indicators are on during operation. Only the selected volume indicator flashes every second under volume selecting mode.

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## GETTING STARTED

### 2.3 TDS Level In Water



Well done! You are ready to enjoy fresh clean water!



## MAINTENANCE

### 3.1 Filter Replacement Cycle

<b>PP</b>	Polypropylene Sediment Filter	12 Months
<b>CTO</b>	Coconut Carbon Block Filter	12 Months
<b>RO</b>	Reverse Osmosis Membrane Filter	12-24 Months
<b>PCF</b>	Post Carbon Filter	12 Months

#### NOTE

Actual lifetime of the filters may differ depending on the input water quality, season and the real running time of product. The figures above are evaluated on a general basis, please replace according to the filter lifetime indicator.

### 3.2 Filter Replacement Steps

1. Turn off the power and empty the raw water tank.
2. Find the edge of the side cover and then pull out the cover (Figure 1).
3. Lift up the filter to a 45 degree position and twist in clockwise direction, then pull out the expired filter (Figure 2).
4. Insert new filter into the filter base: PP→CTO→RO→PCF from left to right. Twist in the filter in counter-clockwise direction until hearing the “click”, and the triangle icon on the top of the filter aligns with the triangle icon on the filter base (Figure 3).

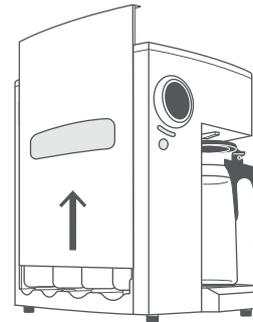


Figure 1

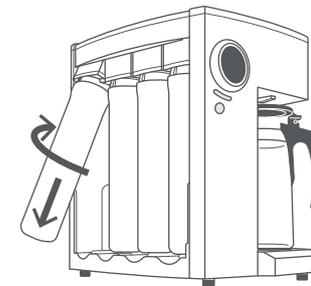


Figure 2

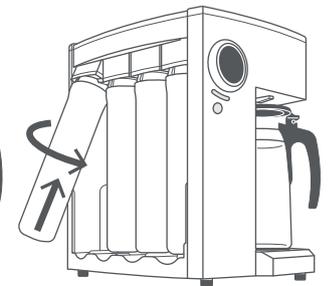
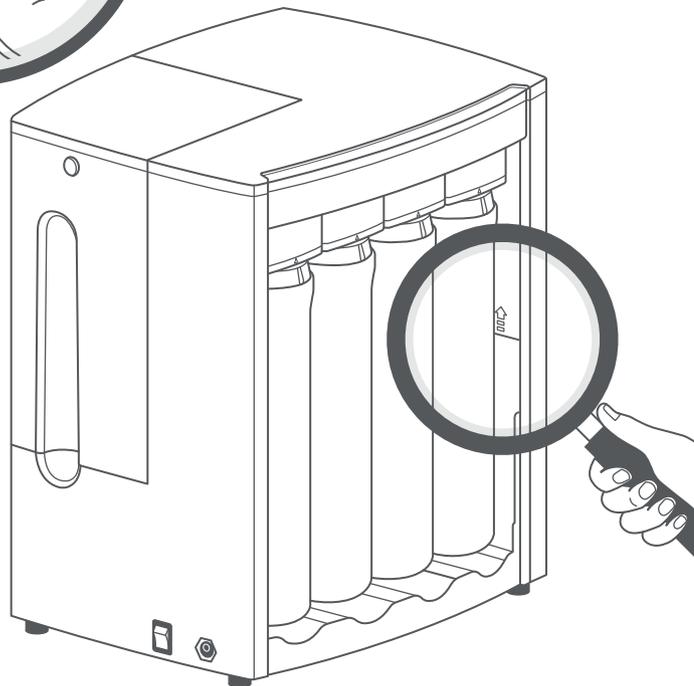


Figure 3

## MAINTENANCE

5. Turn on the power, find and pull the **reset toggle switch** behind the panel for **3 seconds** to enter filter selection mode. The No.1 filter indicator will then flash. Press the banana-shaped **water volume button** to switch between different filters, then pull the **reset toggle switch** again to complete the reset process.

6. Restart the system. To flush out the protective liquid in the brand new filter, please repeat the pure water-making process for **3 times** before drinking the water.



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## MAINTENANCE

### 3.3 Automatic Backflushing

The system automatically enters flushing mode under the circumstances below:

#### 1. For The First Time Using

When the power is on, the system will automatically switch to auto-flushing mode and start back-flushing for 18 seconds.

#### 2. Everytime Before a Filtration Cycle

The system will be forced to have auto back-flushing for 18 seconds before a filtration cycle starts.

#### 3. For Restored Power

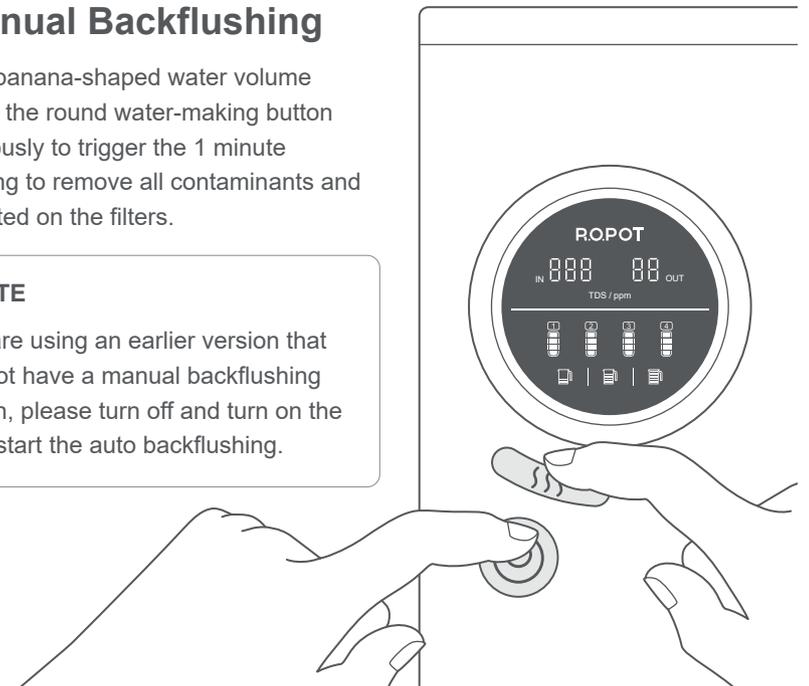
When the power is restored from an outage, the system will be forced to have auto back-flushing for 18 seconds.

### 3.4 Manual Backflushing

Press the banana-shaped water volume button and the round water-making button simultaneously to trigger the 1 minute backflushing to remove all contaminants and dirt deposited on the filters.

#### NOTE

If you are using an earlier version that does not have a manual backflushing function, please turn off and turn on the unit to start the auto backflushing.

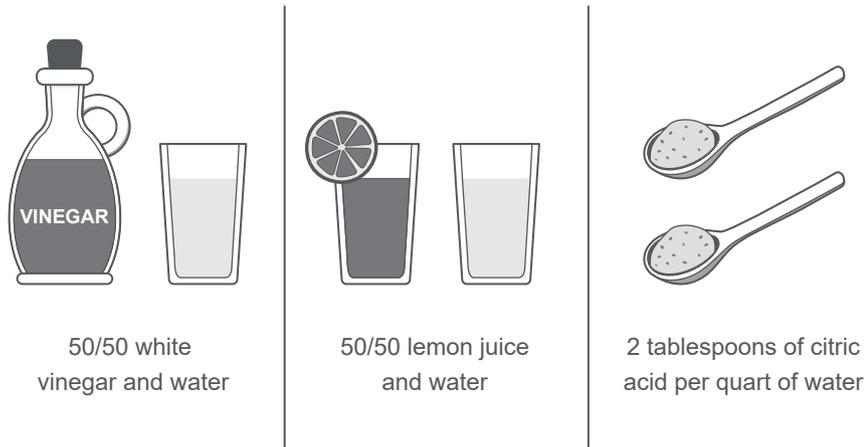


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## MAINTENANCE

### 3.5 How to descale your ROPOT

Limescale can clog up the machine and disrupt water flow. If you start experiencing slow water flow, it is time to take proper care of it. Use a commercial descaling solution or make one of these DIY solutions.



1. Mix up the descaling solution in the water tank, then place it back onto the base.
2. Select the 1.5L total volume and start a filtration cycle.
3. Turn off the system midway through the cycle, and let it sit and soak for **10 mins**.
4. Pour out the descaling solution.

#### NOTE

Repeat steps 1 through 4 if your ROPOT system has a heavy buildup or if you use lemon juice or vinegar.

5. Run **three** filtration cycles with tap water to rinse the system and remove the odor or taste of the descaling solution. If the sour taste remains, please repeat for a few more rounds until the water tastes clean.

## FAQ

### Q Why there are droplets on a new unit after opening the package? ▼

- A** All the Bluevua RO products have been through complete Quality Control (QC) inspection before being packaged. While each filter is independently examined by air pressure for its filtration reliability, the filtration system is also inspected with sterile water to ensure the most ideal performance. Droplets that remained may run out during the shipping. No worries, they are harmless.

### Q What is considered a typical TDS output from the ROPOT system? ▼

- A** ROPOT features the reverse-osmosis technique, which typically ensures the reduction of **90-95%** of TDS. There is no typical TDS output from the ROPOT system since the TDS output is highly subject to different water sources and qualities across different states or regions. Other factors like weather and temperature can also affect the TDS output. For instance, with raw water that has a TDS of **300**, the TDS of filtered water will have an OUT TDS of around **15-30**.

### Q Is it common to see a spike in output TDS after a period of no use? ▼

- A** **Yes**, this is commonly referred to as TDS creep - when an RO system sits idle and there is no active pressure being applied to the raw water side of the membrane, the appearance of salt can creep into the treated side of the membrane and lead to a higher TDS. If this happens, you can either press the water volume and water-making button simultaneously or turn off/on the unit to start the back-flushing before filtering.

### Q What is the pH of Reverse Osmosis water? ▼

- A** With chemical reaction:  $H_2O + CO_2 = H_2CO_3$ . The more pure the water is, the more  $CO_2$  it can absorb, and the more acidic it will get. The filtered water from ROPOT can drop from a PH of 7 down to a PH of 6.2.

## FAQ

### Q Can I use the remaining water in the tank for the next filtration? ▼

**A NO**, the remaining water in the water tank after a filtration cycle is NOT unused or non-filtered water but the RO reject water that holds all the contaminants removed from the raw water. To control the concentration of the RO reject water, once the water level goes below the designed white cylinder in the tank, the filtering process will immediately stop.

From the principles of Reverse Osmosis, the RO system gets rid of the dissolved solids (such as dust, heavy metals, microbes, etc.) to produce pure drinking water. To ensure that the dissolved solids do not stay or creep back and contaminate the drinking water, the RO process naturally diverts poor-quality reject water to the drain. To put it short: An RO water purifier **NEEDS** to produce wastewater to flush the dissolved particles and serve pure, clean drinking water. And in the case of the ROPOT unit, since it is a countertop system and is not connected to the drainpipe, the well-filtered water goes into the glass carafe while the RO reject water with contaminants goes to the water tank at the back.

The remaining water should be considered contaminated, and we highly recommend following the instruction of discarding those water each time instead of reusing them for the next cycle. Reusing the RO reject water will cause an accumulation of contaminants that damage the machine and filters.

### Q What should I do if I am going to leave the unit unused for a while? ▼

**A** To prevent the potential microbial growth, you can hang the pre-filters PP, CTO, and post-filter PCF filter upside down for 30 seconds and drain out the water, then twist them back into the filter base. The RO filter needs to keep moist so just leave it as it is; no need to do anything to the RO filter. And please do not drink the first round of filtered water after you return.

## TROUBLESHOOTING

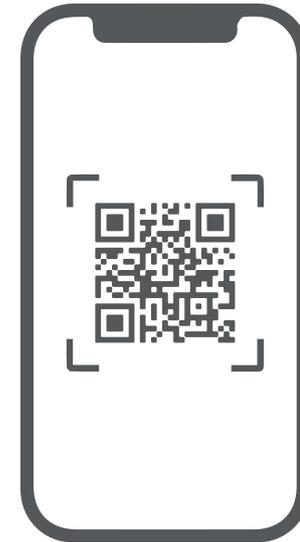
Problem	Possible Reason	What to do?
The system does not work after pressing the water-making button	The system enters a lock mode if it detects that the water tank has not been removed for input water-changing	Lift up the water tank, and place it back onto the base after pouring out the RO reject water and refilling it with new tap water  Check the bottom of the tank to see if the small round magnet is missing and need a spare part replacement
	Once the water level goes below the designed white cylinder in the tank, the filtering process will immediately stop to control the concentration of the RO reject water	Discard the remaining water left in the tank and refill it to the MAX line for the next cycle
	Filters are expired, or the filter lifespans have not been reset after replacing the filters	Refer back to the steps on pages 8 and 9 to see how to replace the filters and reset the filter lifespans
	The system locks if the correct carafe isn't used or improperly inserted.	Ensure the carafe is properly positioned with its cover closed and connected to the system.
	The raw water in the tank will fill into the new filters, so there may be no water coming out during the first two rounds	Refill the raw water tank, then repeat the filtration cycle
	Limescale build-up in your machine can reduce the RO water flow	Refer back to the steps on page 11 to see how to descale your machine
The OUT TDS number is out of the 90% TDS reduction range or continuously increasing	The remaining water in the water tank from the previous filtration cycle is not discarded, causing the contaminants to accumulate and lead to higher numbers for both the IN and OUT TDS value	Pour out the RO reject water left in the tank and refill it with new tap water every time you intend to make another cycle of pure water

## TROUBLESHOOTING

Problem	Possible Reason	What to do?
RO water flow is unstable or slow	Clogged filters are the most common reason for the slow flow rate of water	Refer back to the steps on page 8 to see how to replace the filters as per schedule
	Limescale build-up in your machine can reduce the RO water flow	Refer back to the steps on page 11 to see how to descale your machine
Water leakage occurs	The leftover water inside the bottom spring switch runs out when detaching the water tank	Lift up the water tank slowly and gently
	Filters are not tightly connected to the filter base on the system	Refer back to the steps on page 8 to see how to detach and re-insert the filters. Make sure all filters are fully inserted with no gap between the filter base
	The black sealing rings on the top of filters are distorted or loosened	Use the spare sealing rings in the packet to replace the original ones
Water volume is not accurate	Air bubbles get trapped inside the system	Refer back to the steps on page 10 to backflush and rid the system of air bubbles
Booster pump makes noise		

## WARRANTY

Scan me to register for  
1 YEAR WARRANTY



Please scan the QR code above or visit website <https://www.bluevua.com/warranty> for 1 year manufacturer warranty registration. Please also feel free to reach out to us if you have any questions or concerns about your RO drinking water system. Your health is our priority! We sincerely hope our product will bring health to you and your family!