



AquaPARS AP-100-X

Atmospheric Water Generator USER MANUAL

Version 08/2024

Before using the Air Water Generator, please be sure to read the following pages which include the specified safety precautions. After reading, please keep this manual. Because our products continue to improve, if there is an iterative update, no further notice.



INTRODUCTION

Dear User.

Congratulations on your purchase of our Atmospheric Water Generator. Our commitment is to provide you with healthy sustainable drinking water that is good for you and the environment.

Water is an essential resource for all biological life. Without water, there would be no life. 70.8% of the earth's surface is covered by water but only 3% of it is fresh as most of the freshwater is locked in icecaps and glaciers. All lakes, rivers, and swamps only account for 0.3% of available fresh water.

There are an estimated 12 quintillion litres of water in the earth's atmosphere; that's 10 times more than all the rivers, lakes, and swamps combined.

With global warming, rise in population, industrial growth, and agricultural demand, recent scientific research estimates that by 2050 the entire globe will be under severe water stress. At present 1.2 billion people do not have access to safe drinking water.

Water pollution has also become a serious threat to personal health. Harmful chemicals have been found in numerous water supplies including leaching of harmful chemicals from the containers that the water has been stored in.

The use of Atmospheric Water Generators is beneficial to personal health and the environment by producing pure, chemical and bacteria-free water, and eliminating the risks of contamination from storage containers. This, in turn, reduces the demand for groundwater and the production of plastic bottles.

ATTENTION:

- Read this manual before connecting the machine to electricity.
- Please keep this manual for future reference.



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1. Product Introduction

The Atmospheric Water Generator is a high-tech water supply machine that provides the highest quality drinking water by harvesting water from the humidity in the air. This process in turn dehumidifies and purifies the air in the room. The Atmospheric Water Generator is designed for multiple applications: residential, commercial, industrial, hospitality, medical and more.

2. Product Features

- Multiple filtration system.
- Manufactured from high-quality food-grade materials.
- Advanced over current UV lamp sterilisation and cold storage technology to eliminate and maintain bacteria-free water.
- Microcomputer control technology for automatic operation.
- Multiple alarm systems to monitor water quality.
- Internal cold water circulation system to maintain water quality.
- Option to connect to external water supply.

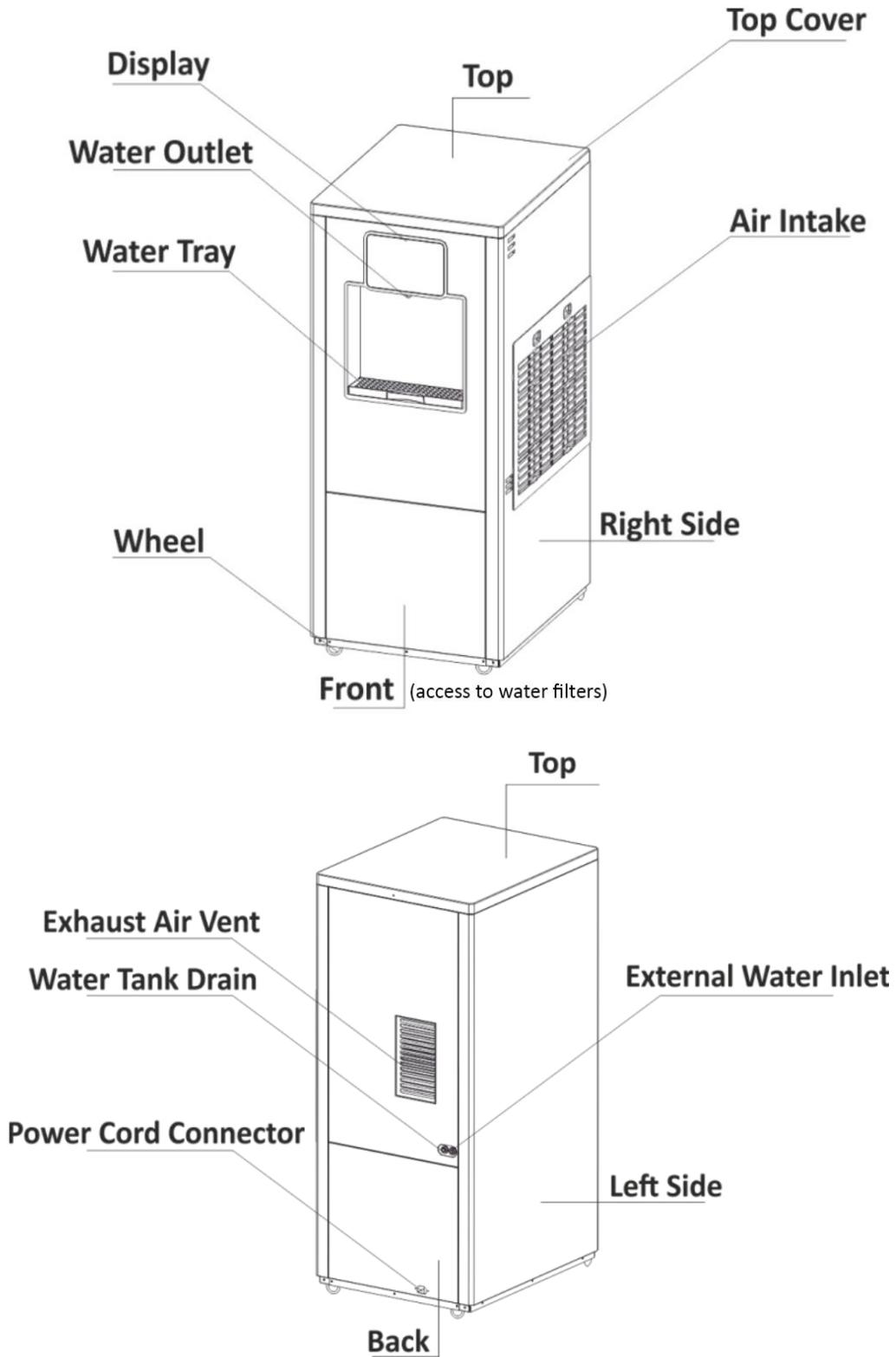
3. Safety Instructions

- Do not attempt to repair the machine or power cable. Contact your local dealer for service support.
- Only connect the machine to an appropriate power supply.



- Do not pull or damage the power cable.
- Do not connect the power supply with wet hands.
- Keep the power cable out of reach of children.
- To prevent damage to the machine, disconnect the power supply during thunderstorms.
- Disconnect the power supply before cleaning or maintenance.
- Do not use multiple connections on the machine's power supply connection.
- Do not place or use the machine in volatile, corrosive, or flammable chemical environments.
- In case of any abnormal sound, smell, temperature, or leakage occurs, please disconnect from the power supply and contact us for service support.
- Do not place any objects on top of the unit.
- Always keep the unit in an upright position.
- Do not place any flammable objects within 40 cm of the back of the machine because of hot exhaust air.
- When moving the machine, the water tank must be drained to avoid water spillage within the machine.
- To prolong the air filter lifespan, place the machine in the best possible location.
- The machine should be operated in temperatures above zero.
- Do not remove the back cover of the machine.
- Children should be supervised when operating the machine.

4. Product Map

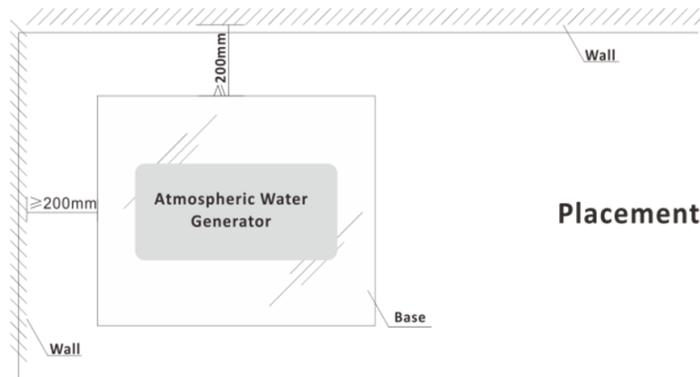


5. Installation Guide

The machine must be placed on a firm horizontal surface.

Avoid placing the machine at any angle, this may result in excessive noise during operation.

Ensure a minimum gap of 20 cm between the machine and walls to allow sufficient cooling and ventilation.



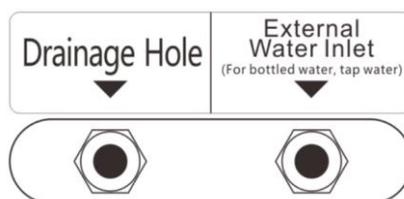
Leave the machine in its final position for 4 hours before turning the power on. This will allow for optimum operation.

Ensure the machine is positioned with enough ventilation.

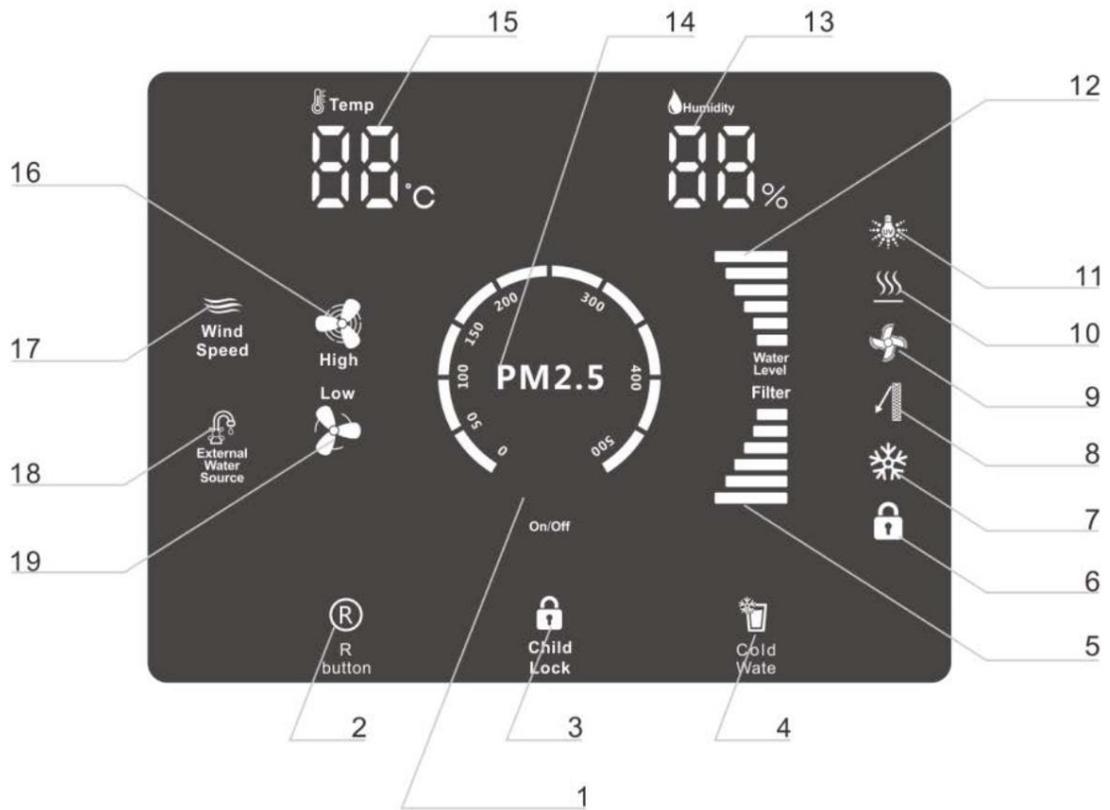
The time required to produce a full tank of water is dependent on the relative humidity of the room. At 60% relative humidity, it will take 8 hours before enough water has been produced to allow dispensing.

It is recommended to then drain the collection tank for first time use or if the machine has been switched off for more than 2 days.

Suggestion: To save setup time, you can add external water to the tank, run the machine for at least 1 hour run a few litres of water through the dispenser to ensure pipes are cleaned and then drain from the outlet at the back of the machine. This will ensure that the water tank, pipes and filters are free of any dust particles.



6. Display introduction



- | | | |
|---------------|------------------|-------------------------------|
| 1. On/Off | 8. Air Filter | 15. Temperature |
| 2. R button | 9. Making Water | 16. High Wind Speed |
| 3. Child Lock | 10. Heating | 17. Wind Speed Control |
| 4. Cold Water | 11. Disinfection | 18. Filter the External Water |
| 5. Filter | 12. Water Level | 19. Low Wind Speed |
| 6. Child Lock | 13. Humidity | |
| 7. Cold Water | 14. P.M.2.5 | |



Functions

1. On/Off

The On/Off light will flash when first plugged in. Press it to turn the machine on and press again to turn the machine off.

2. R button

R button only for air filter re-set.

3. Child Lock

Press and hold for 3 seconds to unlock the hot water function. It will automatically locks after 15 seconds.

4. Cold Water

Press for cold water. Press again to stop.

5. Filter

This shows the condition of the water filters. 6 white bars = new filters. When left 5 white bars are the water filters need to be replaced.

6. Child Lock Indicator

It is illuminated when the child lock is on.

7. Cold Water Indicator

It is illuminated when cold water is being dispensed.

8. Air Filter

Air filter indicator light. It is normally off. When the light begins to flash, the air filter must to be replaced. The expected lifespan of the air filter is approximately 6 months but is depended on local air conditions.

9. Making Water

This is on during water production and flashes when not producing water.

9. Heating

This indicates when the hot water tank is ready and flashes when hot water is being heated. This function is controlled automatically. (Cold water do not have such function)



11. Disinfection Indicator

This will illuminate when automatic UV light sterilization in the cold water tank occurs.

12. Water Level

6 white bars = water tank level is full and water production stops.

4 white bars = water tank level is within half full range.

2 red bars = water tank level is within the low range.

Flashing red bar = the water tank level is empty.

13. Humidity

This shows the ambient humidity in the room.

14. PM 2.5

Particle pollution, also called particulate matter or PM, is a mixture of solids and liquid droplets floating in the air. Particles come in a wide range of sizes. Particles less than or equal to 2.5 micrometres in diameter are so small that they can get into the lungs, potentially causing serious health problems. Ten micrometres is less than the width of a single human hair.

15. Temperature

This shows the ambient temperature in the room.

16. High Wind Speed Indicator

This indicates the fan is running at high speed setting.

17. Wind Speed Control

This controls the fan speed between high and low speed. The default fan speed is high.

18. Filter The External Water Source

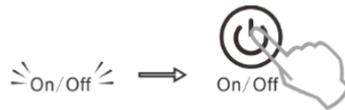
Press and hold for 3 seconds to start the transfer pump. It will automatically stop when the water tank is full or press and hold for 3 seconds again turn it off.

19. Low Wind Speed Indicator

This indicates the fan is running at low speed.

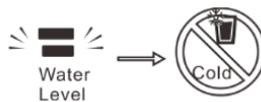
7. Operating Instructions

1. Plug the machine into power outlet and turn on the switch at the back top of the machine. The buzzer will beep once. The machine will run a short diagnostic test. The display will light up and after 2 seconds will switch off. The On/Off button will flash when the machine is ready to be switched on.

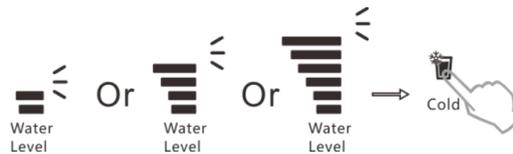


2. Provided the temperature is above 15° C with the humidity above 25% the machine will produce water. Press On/Off button, the display shows the temperature, humidity, PM2.5, Disinfection, filter, water level and other function lights on.

3. Water level shows the cold water tank level, if the water level of the cold water tank is too low or empty, the water level light flashes red and the machine will not allow water dispensing. Wait until the tank level reaches a low level or higher on the display.



4. Low, medium, or high levels of the water tank. The machine will allow dispensing of cold water.



5. Press the Cold button and after 2 seconds cold water will begin dispensing. Press again to stop dispensing water. The temperature of the cold water will also be displayed during dispensing.



6. The wind speed is adjustable. During water production the fan speed is high and the fan sound will be louder, the exhaust air temperature will be cooler. When low fan speed is selected the fan sound will be lower and the exhaust air temperature will be higher.



7. Filter indicator. When it flashes red the filters need to be replaced. To reset after filter change, press and hold Child Lock and Cold Buttons together for 3 seconds.



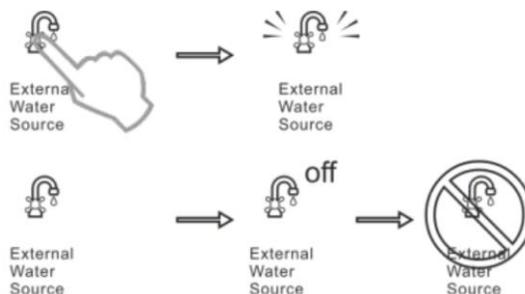
8. Air filter indicator. The light is normally off. When the light illuminates and flashes, the air filter needs to be replaced. After replacing the air filter, press and hold the Child Lock and R buttons together for 3 seconds.



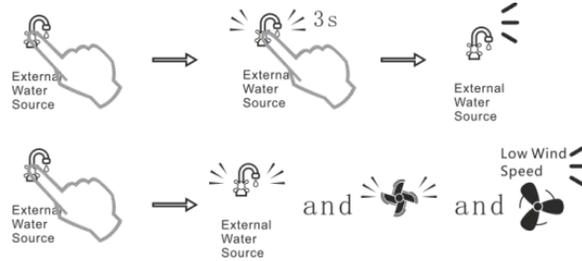
9. The disinfection indicator will illuminate when water is being transferred from the collection tank to the cold-water tank during this operation the UV will remain on light for 15 minutes, and will also illuminate when automatic circulation and sterilization of the cold-water tank is running. This process runs for 90 minutes every 60 minutes to maintain High-quality water.



10. External Water Source Start. Press and hold for 3 seconds to turn on the transfer pump. The indicator light will begin flashing while the pump is running. When the hot (R button) and cold tanks are full the pump will stop automatically.



11. External Water Source Manual Stop. Press and hold for 3 seconds to manually stop the pump. During external water transfer, the compressor will stop running and the water making indicator will flash and the fan will run in low speed.

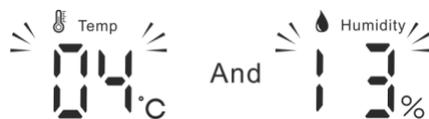


12. To maintain the quality of the water, the water in the tank is kept cool between 12 – 18 °C and circulated by the circulation pump. During this automatic process, the compressor will run and the water-making indicator light will flash.

13. To drain the water tank, unscrew the cap on the drain hole, Press and hold the child lock and external water source buttons together for 3 seconds. All the water tanks will begin to drain.



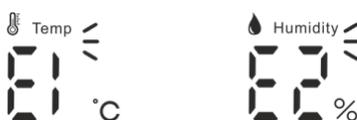
14. If the ambient temperature is below 15°C or the humidity is below 25% the machine will not allow water production. The temperature and humidity display will flash and the compressor will not run. The fan and PM 2.5 will continue to work.



15. Fault Codes

E1 code indicates the temperature sensor is faulty.

E2 code indicates the humidity sensor is faulty.



15. Fault Codes

E3 code indicates dispenser pump is faulty.

E4 code indicates External Inlet pump is faulty.

E5 code indicates the evaporator temperature sensor is faulty.

E6 code indicates the cold-water tank sensor is faulty.

E7 code indicates the hot water tank sensor is faulty.



8. Care & Maintenance

Clean the surface of the machine with a damp cloth.

Turn off the machine, and clean the air intake grill.

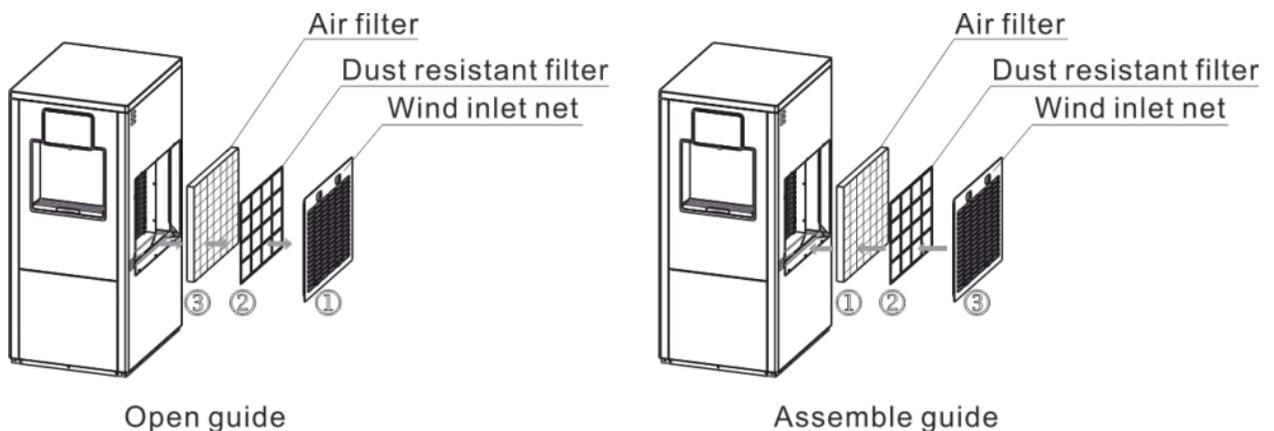
Attention: When Cleaning

- 1) Clean the machine at least once per week.
- 2) When cleaning remove the power cable from the outlet.
- 3) Do not use hot water, any strong chemicals or solvents to clean the machine. Use a damp cloth with a mild soapy solution only.
- 4) Do not hose or wash down the machine, it may result in short circuit damage and corrosion within the machine.
- 5) After cleaning check the power cord and connector are free from damage and moisture.
- 6) If the machine has been left standing and unplugged from power for a long period. First, drain the water tank and dry off the machine before turning the power on again

9. Air Filter Replacement

The machine has microcomputer control of the air filter. It will give a flashing warning on the display when the air filter needs to be replaced.

- 1) Press the On/Off button to turn the machine off.
- 2) Remove the air filter frame.
- 3) Remove the dust filter
- 4) Remove air filter.
- 5) Clean the air filter frame and dust filter with a damp cloth and dry.
- 6) Install a replacement air filter.
- 7) Return the air filter frame and dust filter.
- 8) Press the On/Off button to turn the machine on.
- 9) Reset the flashing warning by pressing and holding the Child Lock and R Buttons together for 3 seconds.
- 10) The Air filter warning will stop flashing on the display.

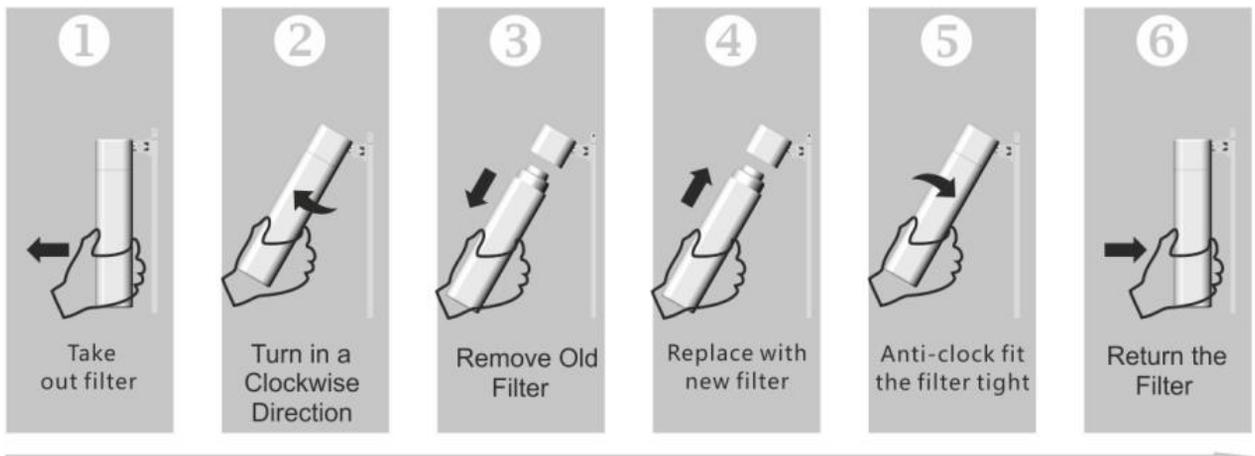


9. Water Filter Replacement

The machine has microcomputer control of the filters. The display will show the condition of the water filters using 6 white bars that will reduce in number as the filters reach the end of their lifespan.

The filter bar will flash red on the display when the filters need to be replaced.

To change the filters you must open the front metal panel by opening its 3 screws, then push it down and then take it out. After replacing the water filters, the water filter warning will need to be reset. Press and hold the Child lock and Cold buttons together for 3 seconds. The lifespan of the water filters is approximately 1 year.

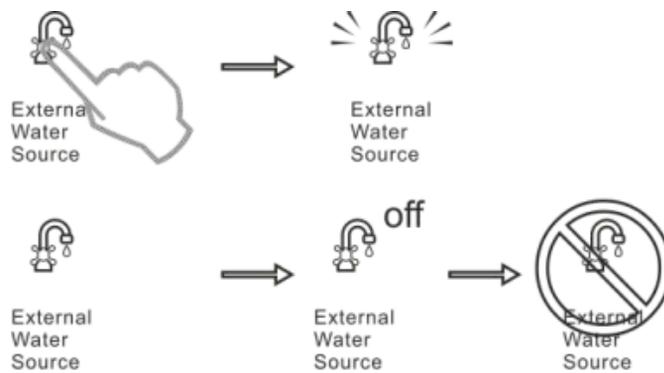


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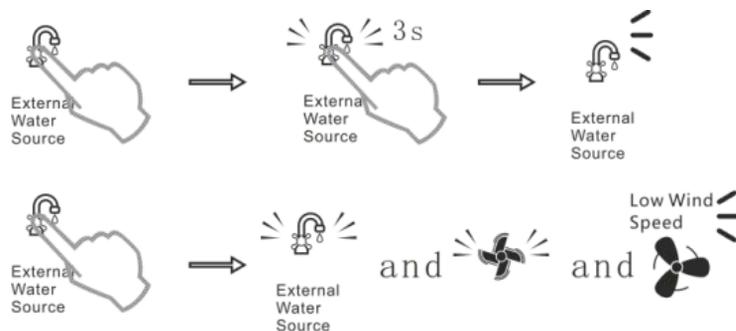
Reminder: It is important to change the water filters on time to ensure high water quality.

10. External Water Inlet

- 1) The machine must be on before connecting to the external water supply.
- 2) Remove the cap and connect the hose to the machine and water container.
- 3) Press and hold the External Water Source button for 3 seconds.
- 4) The display will change to the external water supply.
- 5) Water will automatically begin transferring to the storage tank.
- 6) Once the storage tank is full it will automatically stop.



- 7) To manually stop water transfer press and hold the External Water Source button for 3 seconds.



- 8) Remove hose and replace the cap.
- 9) The UV light will switch on then off automatically for water sterilization.



11. Trouble Shooting

Problem	Possible Cause	Solution
Water Production is very slow	Ambient Temperature or humidity is out of working range.	The compressor will not run if the ambient temperature is below 15°C or above 43 °C or if the humidity is below 25%
	Air circulation is poor.	Place the Machine in an area with better air circulation.
	The air intake is restricted or blocked.	Remove any obstructions. Ensure the dust filter is clean.
The Compressor is not running	Check power connection.	Avoid lose connections
	Check if the voltage is stable.	Use voltage regulator for more stable voltage.
	Turn the machine off for a few minutes and restart.	There is a 3 minute delay on the compressor when the machine restarts.
	Ambient temperature or humidity is out of working range.	The compressor will not run if the ambient temperature is below 15 °C or above 43 °C or if the humidity is below 25%
The machine is too noisy	The machine is not levelled correctly or on an uneven surface.	Ensure the machine is on level ground.
The machine is leaking water	If the machine was moved, it may have caused the tank to spill over.	If leaking continues, unplug machine and contact local us
Press Cold and no water is dispensed	E3 Displaying	Unplug the machine and contact us
	Water Level on display Red & Flashing	Tank level is too low, wait for tank level to rise.
Press Hot and no water is dispensed	E4 displaying	Unplug machine and contact us
	The Child Lock is on.	Press and hold Child lock for 3 seconds then dispense hot water within 15 seconds.
	The hot water temperature on the display is below 85 °C	Water is not hot enough. Please wait.
Press Hot and only cold water is dispensed.	The temperature sensor in the hot water tank is faulty.	Contact us
Press Child Lock but it does not unlock	E7 Displaying	Contact us