



AguaPARS AP-20

Atmospheric Water Generator

USER MANUAL

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.

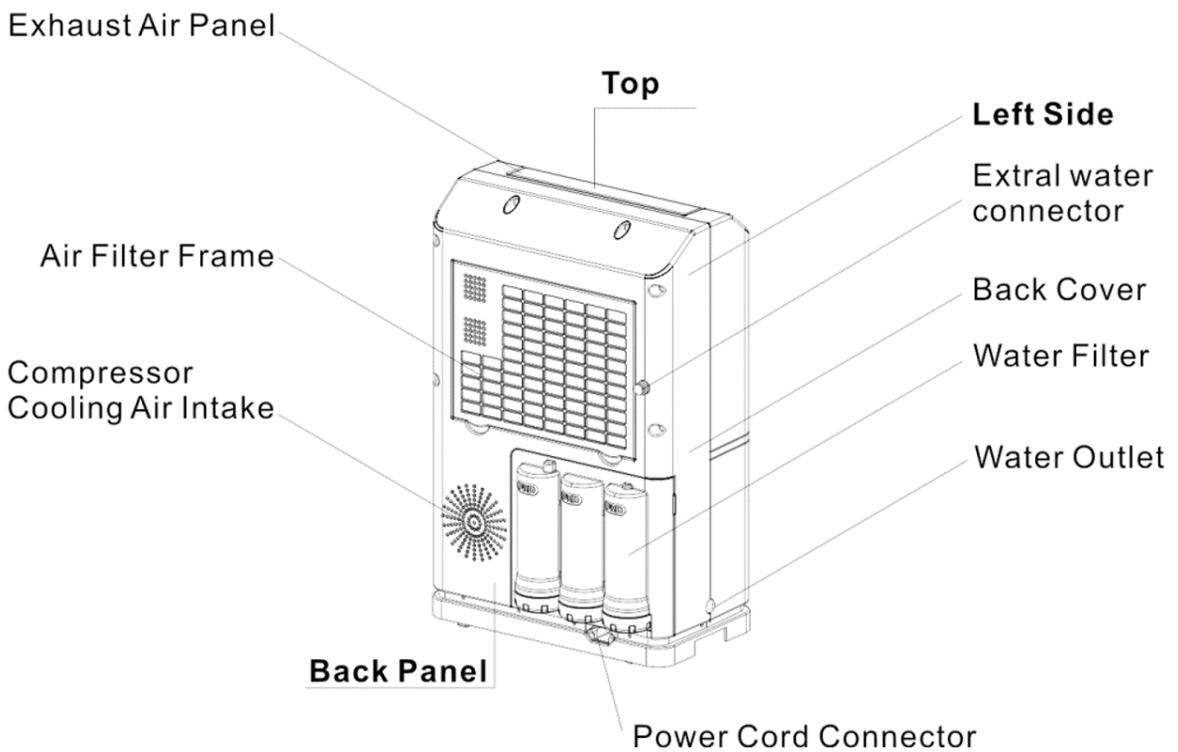
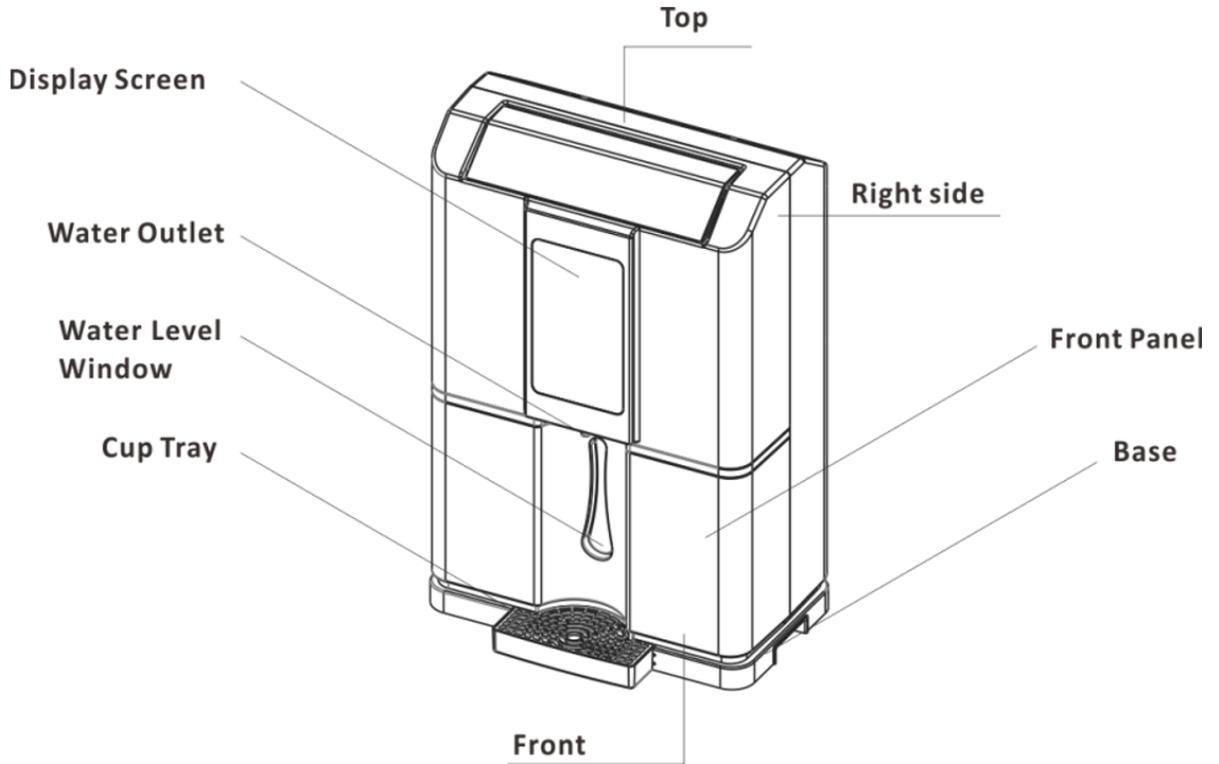
3. Safety Instructions

- 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

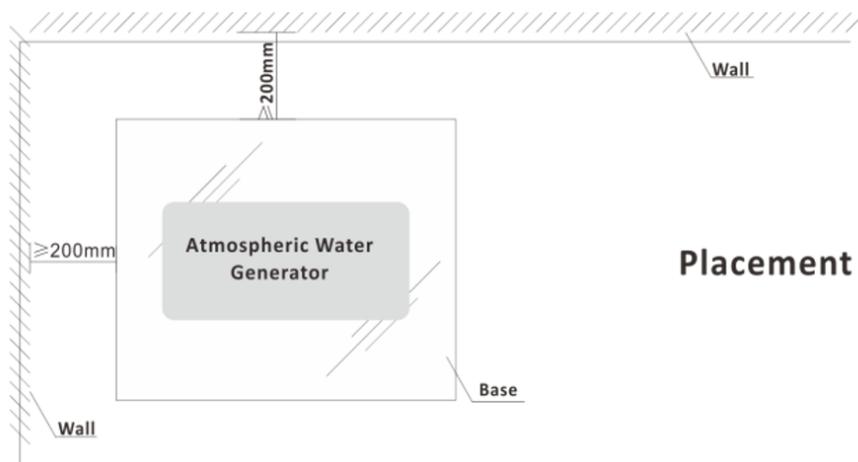


5. Installation Guide

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.

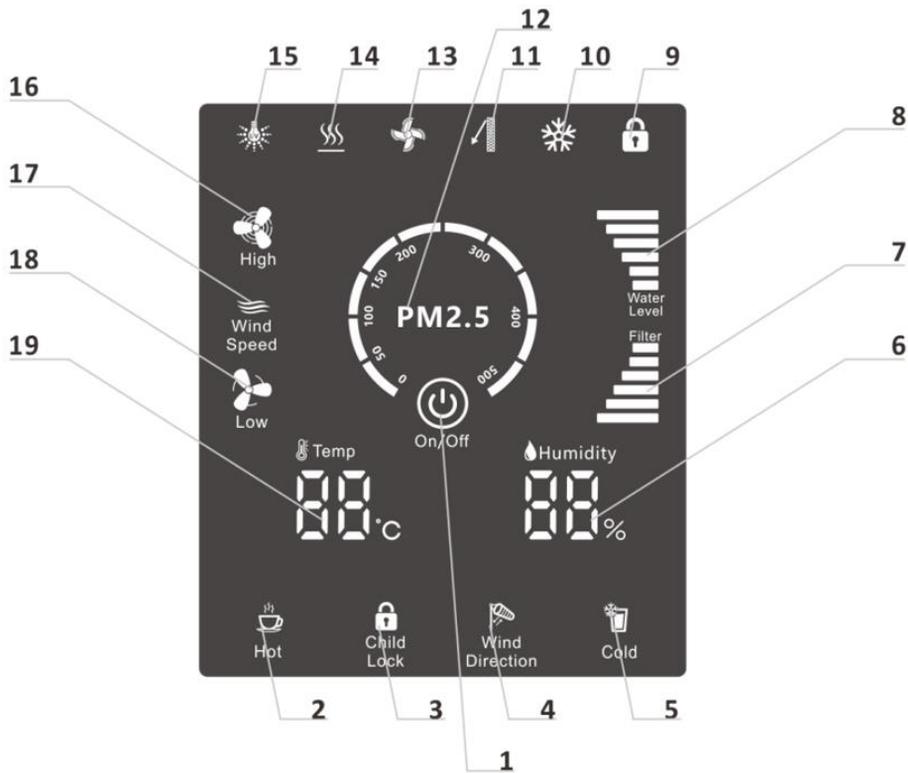
Ensure the machine is positioned with enough ventilation.

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 4-5 hours to fill the collection tank within the machine.

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.



6. Display introduction



- | | | |
|-------------------|----------------------------|----------------------------|
| 1. On/Off | 8. Water Level | 15. Disinfection Indicator |
| 2. Hot | 9. Child Lock Indicator | 16. High Wind Speed |
| 3. Child Lock | 10. Cold water indicator | 17. Wind Speed Control |
| 4. Wind Direction | 11. Air Filter Indicator | 18. Low Wind Speed |
| 5. Cold | 12. PM 2.5 | 19. Temperature |
| 6. Humidity | 13. Water Making Indicator | |
| 7. Water Filter | 14. Heating Indicator | |



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. Wind Direction

Press to change the direction of the exhaust fan.

3. Humidity

This shows the ambient humidity in the room.

4. Water Filter

This shows the condition of the water filters. 6 white bars = new filters. When the bar is red the filters need to be replaced.

5. Water Level

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

4 white bars = the water tank is half full.

2 red bars = the water tank is low.

Flashing the red bar = the water tank is empty.

6. Cold Indicator

This shows that water is being dispensed.

7. Air Filter Indicator

Normally off. Illuminates and flashes when the air filter needs to be replaced.

8. 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 are less than the width of a single human hair.

9. Water-making Indicator

The light is illuminated during water production.
The light flashes when the water tank is at a high level or the compressor is only running to maintain a cold-water tank temperature.

10. Disinfection Indicator

When water is being dispensed, the UV lamp turns on to re-sterilize the water being dispensed and the indicator will illuminate. During automatic water circulation in the storage tank, the UV lamp will also turn on and the indicator will show that the UV lamp is on.

11. High wind speed

This indicates that the fan is running at high speed.

12. Wind speed control

Fan speed control. Press for low speed, and press again for high speed. The default fan speed is high.

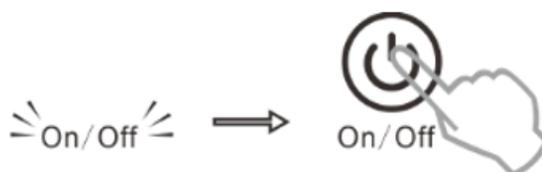
13. Low wind speed

This indicates that the fan is running at low speed.

14. Temperature

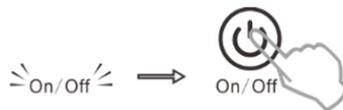
This shows the temperature in the room where the generated is placed.

1. Plug the machine into a suitable power outlet. The buzzer will beep once. The machine will run a short diagnostic test. Wait for the power on/off light to start flashing. Press the on button.



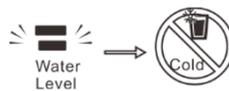
7. Operating Instructions

1. Plug the machine into a suitable power outlet. The buzzer will beep once. The machine will run a short diagnostic test. Wait for the power on/off light to start flashing. Press the on button.

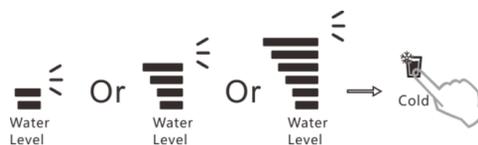


2. Provided the temperature is above 15 °C with the humidity above 25%, the machine will begin to produce water. The display will show temperature, humidity, PM2.5, disinfection, filter, water level, and other functions will be on.

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



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



4. Press cold and after 2 seconds water will begin dispensing. The display will indicate the water temperature and the cold indicator will be illuminated. Press cold again to stop dispensing water.



5. 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.



6. 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.



7. 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 Hot buttons together for 3 seconds.

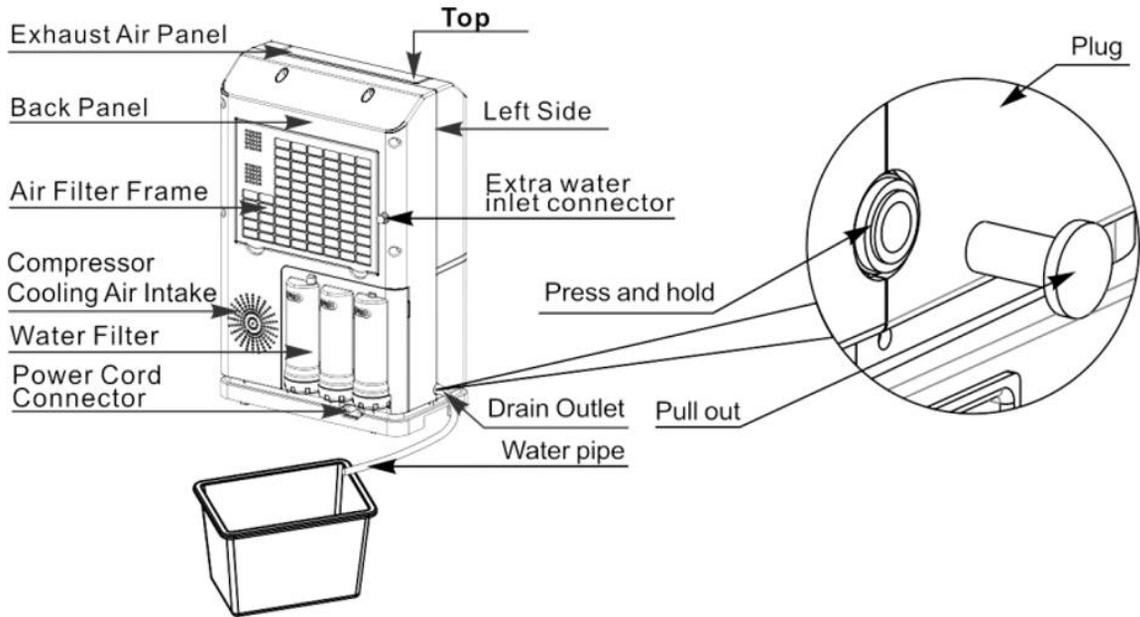


8. When the machine is on and the water tank level is above the low level. The circulation pump and UV lamp will automatically switch on for eight minutes every six hours. During this operation, the UV lamp indicator will illuminate.

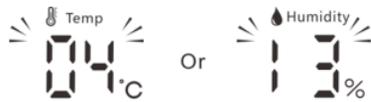
9. When the water tank is full, the compressor will stop running. The fan will switch to low speed for 60 seconds and then stop.

10. To maintain high-quality water, the water in the cold-water tank is kept between 12-18°C and circulated regularly. The compressor will run and the water-making indicator light will be illuminated. This operation is automatic, lasts for 10 minutes, and will begin if water the dispenser has not been used for 8 hours. This process will run in power on or off modes. During this operation, it will not be possible to dispense hot or cold water.

11. To drain the water from the water tank. Open the water outlet cover and the water will drain out.



12. When room temperature is below 15°C or the humidity is below 25% the compressor will stop running. The fan will continue running. Temperature and humidity indicators will flash. PM2.5 will still work.



13. Error codes:

- E1 code indicates the temperature sensor is faulty.
- E2 code indicates the humidity sensor is faulty.
- E3 code indicates the cold-water pump is faulty.
- E4 code indicates the hot water 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 and Maintenance

- 1) Clean the surface of the machine with a damp cloth.
- 2) Remove the water collection tray, clean and replace it.

Attention: When cleaning:

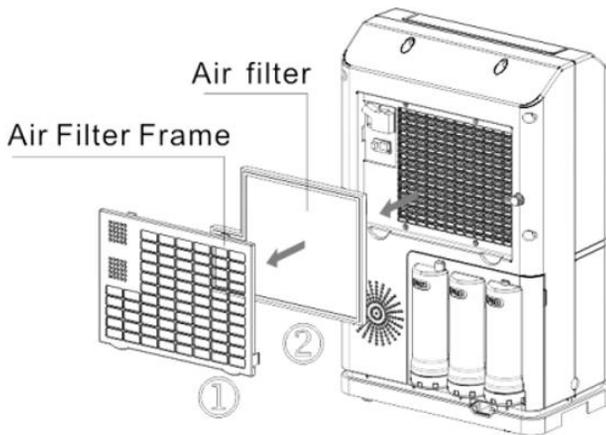
- 1) Clean the machine at least once per week.
- 2) When cleaning, remove the power cable from the outlet.
- 3) Do not use hot water, any strong chemicals or solvents to clean the machine. Use a damp cloth with a mild soapy solution only.
- 4) Remove the air filter cover, clean the cover and internal mesh screen with a damp cloth, and wipe dry before replacing.
- 5) Do not hose or wash down the machine, it may result in short circuit damage and corrosion within the machine.
- 6) After cleaning check, that the power cord and connector are free from damage and moisture.
- 7) 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.

Do not wash the main air filter or wipe with a damp cloth

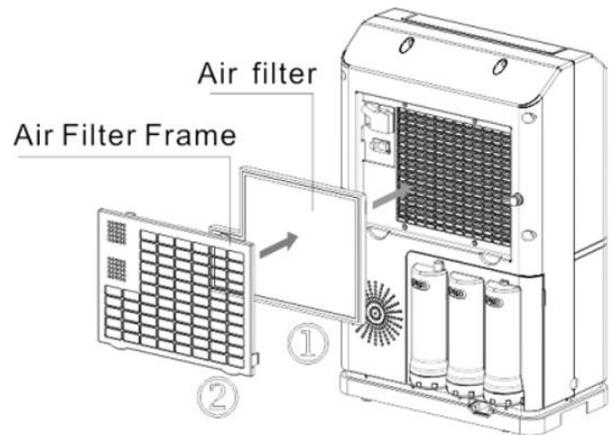
9. Replacement of Air Filter

The machine has microcomputer control of the filters. It will give a flashing warning on the display when the air filter needs to be replaced. The air filter life span is approximately 1 year or more depending on the placement environment.

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



Removal Guide

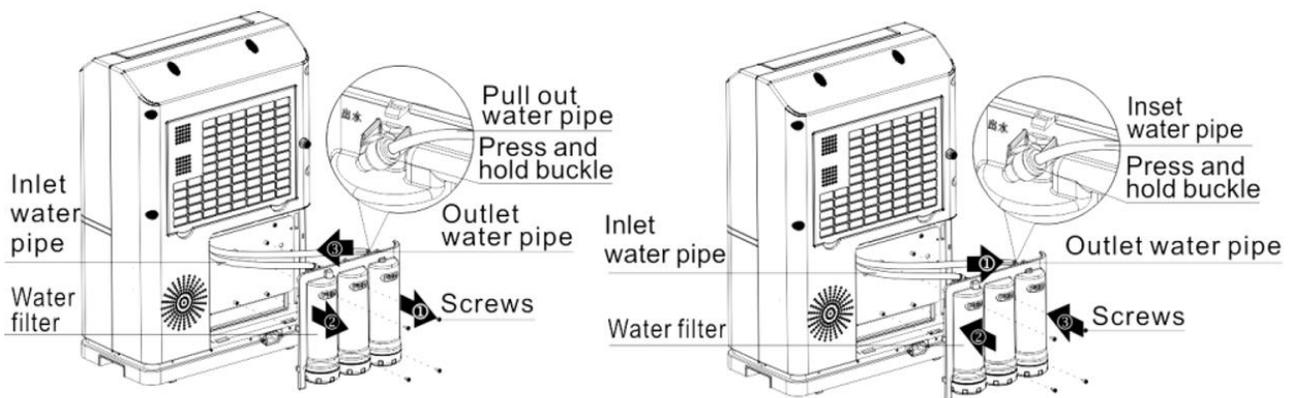


Installation Guide

10. Replacement of Water Filters

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.

After water filter replacement 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 of approximately 1 year.



11. Trouble Shooting

Problem	Possible Cause	Solution
Water production is very slow	Room temperature or humidity is out of working range.	The compressor will not run if the room 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 blocked.	Remove any obstructions.
The compressor is not running	Check the power connection.	Avoid losing connections
	Check if the voltage is stable.	Use a 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.
	Room 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 is placed on an uneven surface.	Adjust the foot bearers to level and balance the machine.
	The supporting foot bearers are not distributing weight evenly.	
The machine is leaking water	If the machine was moved, it may have caused the tank to spill over.	If the leaking continues, unplug the machine and contact us.
Press Cold and no water is dispensed	E3 Displaying	Unplug the machine and contact us.
	Water level on display red & flashing	The tank level is too low, wait for the tank level to rise.
Water dispenses slowly.	Water filters need to be replaced.	Follow the steps in Section 12