



Atmospheric Water Generator

Instruction Manual

WES 15L

Please read this manual carefully before operating this unit.

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Note: We reserve the right to at any time without notice make any changes/amendments/deletions and/or variations to the contents of this manual.

The machine pictures in the instruction manual just for reference.

I. INTRODUCTION

Thank you for purchasing the Atmospheric Water Generator. The Atmospheric Water Generator is a new, state-of-the-art water-generating machine, which uses some of the latest and most sophisticated technology available in the industry today. We have designed your Atmospheric Water Generator with one objective in mind i.e. to produce the most maximum amount of high quality drinking water while using only minimum amount of electricity. When hook up with city water or external water Tank supply, the machine can produce purified drinking water thus makes it a multi-functional machine.

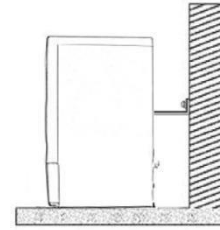
II. SAFETY NOTES

- 1 The socket should be equipped with a reliable earthing protection and with a load capacity of 10 Amperes.
- 2 Do not remove the earthing terminal from the power cord.
- 3 Do not use an extension cord or an extension adapter.
- 4 Always keep the unit from poisonous gas and liquid.
- 5 Do not use a damaged electrical plug or power cable.
- 6 Unplug power cord before cleaning, installation, or maintenance.
- 7 Do not share the electrical socket with other high power consumption appliances.
- 8 Always use the correct replacement parts.
- 9 Do not unplug the power cord with wet hands.
- 10 Use the enclosed water pipe kits to connect with the city water inlet if this option is included on the machine. Do not use any old water pipelines to connect to the unit.
- 11 When moving the machine, please unplug the power cord and empty water of all tanks. Do not tilt the machine more than 20° during moving.
- 12 The machine is only intended for use by responsible persons and should not be used by young children without supervision.
- 13 Young children should be supervised around the machine.
- 14 Please allow the machine to stand upright for 30 minutes before turning the machine on. This allows the refrigerant to settle after shipment.
- 15 Use the enclosed parts such as T-joint, plastic pipe and filters to connect with external water container.

III. PRECAUTIONS

- 1 Do not place the unit too close to the wall. The best performance is obtained when the unit is placed at least 30 cm from the wall.
- 2 This unit is not for outdoor use.
- 3 Avoid prolonged exposure to direct sunlight.
- 4 Keep the unit working in an upright position.
- 5 The operating voltage must not drop below 10% of standard Power supply. When the unit operates below this level, the unit becomes noisy with the possibility of overheating. When this occurs, immediately switch the unit off until the voltage returns to normal.

- 6 Avoid prolonged direct eye exposure to the ultraviolet light as it may damage the eye.
- 7 This unit is not suitable for use at places with spray water, do not use spray water to clean the unit.
- 8 To prevent the machine from damage caused by freezing, please drain off the remaining water and stop operating the machine if the environment temperature during its working is below 0°C (32°F).
- 9 If there is any damage to the power cables, the cables must be repaired or replaced by an authorised person to avoid danger.
- 10 Please fix the unit with mounting bracket when using this unit on a shelf (as shown in the picture on above).
- 11 Do not place any object on top of the machine, there is no obstacle around the unit. Do not use machinery or any other way to accelerate the defrosting process, do not damage the refrigerating circuit. Good ventilation is required to ensure optimum performance.



IV. MAINTENANCE

- 1 Always keep the unit clean. Wipe the outer casing with a soft damp cloth to clean. Use water to clean and avoid using corrosive cleaning agent.
- 2 Do not use cleaning agent to clean water tanks.
- 3 The air filter should be cleaned regularly to ensure the normal air flow supply.
- 4 If you don't use the machine for a long time, please unplug it and drain out all the water and clean the water tank.

V. HOW IT WORKS?

It is important to be aware that your Atmospheric Water Generator is a humidity and temperature driven machine. This means the machine totally depends on the level of humidity in the air and the temperature to produce water. Ideally, the humidity level should be at least 80% or above to achieve the machine's optimum performance. In places with a lower humidity level, the machine will still produce water but not as quickly, nor as much as in places with high level of humidity. In the house environment, a higher level of humidity tends to be around the kitchen area, near an open window or in more spacious rooms. This unit also performs well in an air-conditioned room, but it is recommended to open the window at night to allow the room to be ventilated. Because your Atmospheric Water Generator works by converting the humidity in the air to water, this unit also acts as an effective dehumidifier. In areas with high humidity, it not only acts as a good water generator, but also as a dehumidifier.

To ensure high quality of drinking water, The Atmospheric Water Generator utilises multiple

filtration technologies, including the most advanced and safe Reverse Osmosis (RO) technology, and the efficient UV technology for sterilisation of the water.

When the air is dry or the temperature is too low (e.g., winter), the water production capacity will be slow. Connection to an external water container will make the machine serve as an excellent water purifier by utilising the RO filtration, UV sterilisation system and the special water re-circulation patent technology.

VI. FEATURES

1 Microcomputer

The unit is fitted with a microcomputer, which ensures proper working of internal parts.

2 Electronic Sensors

Various electronic sensors are attached to parts such as UV light and water tanks. These sensors ensure that all parts are working properly and warn you when a breakdown or performance irregularities occur in the machine.

3 Energy Saving Features

To conserve electricity, electronic sensors have been placed in the storage tank to automatically stop the machine from making more water when the tank is full.

4 Water Leakage Detector

In case of any unexpected situation of water leakage, the machine will stop working automatically and will be accompanied by a warning sound and a flashing screen.

5 Compressor variable frequency control system (only applicable to models with variable frequency control system)

The built-in high-performance variable frequency compressor adjusts according to the ambient temperature and humidity to save electricity consumption and reduce noise.

6 Condensing coils

Specially designed condensing coils are covered with a food grade coating to improve the efficiency of the water generation and to aid in the prevention of metal contamination from the water generation process.

7 Multi-Stage Filtration System

Our dedication to providing high-quality, great tasting water to our consumers is accomplished by our unique multi-stage filtration system. It can remove odor and reduce pollutants.

7.1 Anti-static / HEPA patented air-filter or electrostatic filter:

Before air becomes water drop through condensation, the air must go through the anti-static air filter to filter out dust particles and effectively block dust in the air from

entering the machine.

7.2 LF2 active carbon filter

This device can remove organic compound, dust, and large particles in the air. It can also reduce the ammonia level in the water.

7.3 Bottom tank small filter:

Removes impurities in the water of the bottom tank, to protect the water booster pump for a longer operational life.

7.4 Multistage filtration system:

Our filter system removes impurities to produce great tasting clean water with a pH between 6.8 and 7.8.

7.4.1 Pre-Carbon Filter

Removes organic compounds, odours, free chlorine etc.

7.4.2 Post carbon filter

Further removes any colour, odours, residual chlorine etc., and improves the water quality.

7.4.3 Reverse Osmosis (RO) membrane

Mainly removes micro impurities, colloid, heavy metal, soluble solids, bacteria, and other harmful substances.

7.4.4 TCR carbon filter

The **Total Contaminant Removal** (TCR) post-filter contains activated carbon and is placed in a position where there is a longer contact time to ensure adsorption of any organic contaminant that might have escaped the reverse osmosis (RO) process.

The above filtration system for reference only, may change without prior notice.

8 Ultraviolet Sterilisation System

Our UV sterilisation system treats the water to ensure that bacteria and microorganisms are eliminated. The sterilisation process is controlled automatically by the microcomputer.

8.1. Top tank UV lamps remove bacterial growth in the top tank water.

8.2. Bottom tank UV lamps removes the bacteria in the bottom tank, reducing the bacterial level to a minimum in the bottom tank.

9 Water Re-circulation

Our patented exclusive technology ensures that stored water remains fresh and clean and avoids secondary contamination.

10 A Novel and Sharp Body design

The attractive modern design together with LCD display screen makes the machine easy to operate and more options to suit personal preference.

VII. OPERATION

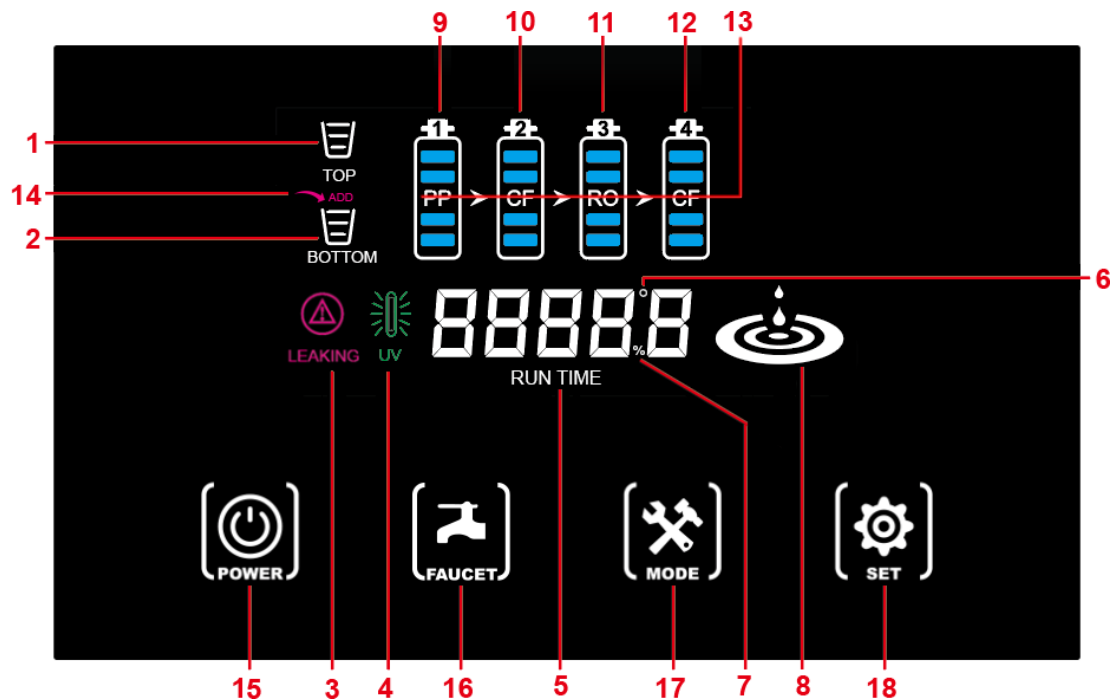
By following these simple instructions and simple maintenance procedures, your Air Water Generator should give you years of trouble-free operation while producing the maximum amount of high-quality, great tasting drinking water.

Please read this operation manual carefully before you start the machine.

1 INITIAL SETUP

- 1.1 Please confirm parts in the package are a complete set. The unit should be placed on solid and level ground and in a place where there is good air circulation. The unit should be placed no less than 30 cm from the wall and not in a corner. Push down the lever of the wheel brakes to set the machine in fixed position.
- 1.2 Allow the machine to remain in an upright position before turning the machine on, to ensure that the refrigerant has returned to the compressor. DO NOT instantly plug into the power as that may damage the compressor.
- 1.3 Plug into an electrical socket capable of handling no less than 10A.

2 CONTROL PANEL



2.1 Screen Indication

- 1.1-1 Top tank water level indicator: When no grid number is displayed, the top tank is empty; 3 grids and it

will flicker to show that the water tank is full.

- 1.1-2 Bottom tank water level indicator: When no grid number is displayed, the bottom tank is empty; 3 grids and it will flicker to show that the water tank is full.
- 1.1-3 Leak warning icon: When the machine works properly without leakage, the icon is not displayed. When water leaks, LEAKING icon will flicker.
- 1.1-4 UV light indicator: When it is on for a long time, it means that the ultraviolet lamp in the top water tank or in the bottom tank has been turned on for sterilisation purposes. It stops sterilizing when the indicator is not bright. When the light is flickering, it indicates that the ultraviolet lamp of the top water tank or the bottom water tank has been damaged and needs to be replaced.
- 1.1-5 The current ambient temperature and humidity will be displayed during normal operation. Damage of ultraviolet lamp in the topwater tank will display U1-FA. Damage of the ultraviolet lamp in bottom tank will display U3-FA.
- 1.1-6 Temperature Unit Symbol
- 1.1-7 Humidity Unit Symbol
- 1.1-8 Water generating indicator: When the icon shows motion, the machine is generating water. When the icon light is on without motion, this means that the water generation will start. If the icon blinks it indicates that the low temperature and low humidity protection function has turned on; When it is extinguished or stationary, it means that the water-making function of the machine is stopped.
- 1.1-9 Pre-activated Carbon Filter: Replace the Pre-activated carbon filter when all bars flash.
- 1.1-10 Rear Activated Carbon Filter: Replace the rear activated carbon filter when all bars flash.
- 1.1-11 RO Filter: Replace the RO filter when all bars flash.
- 1.1-12 TCR Activated Carbon Filter: Replacement of TCR activated carbon filter when all bars flash.
- 1.1-13 When the text arrow flickers dynamically, it indicates that the water is filtering.
- 1.1-14 Water adding Icon: Opening of the automatic water filling function when it is always bright. Flashing indicates that water is adding now.

2.2 Digital Touch Screen indication

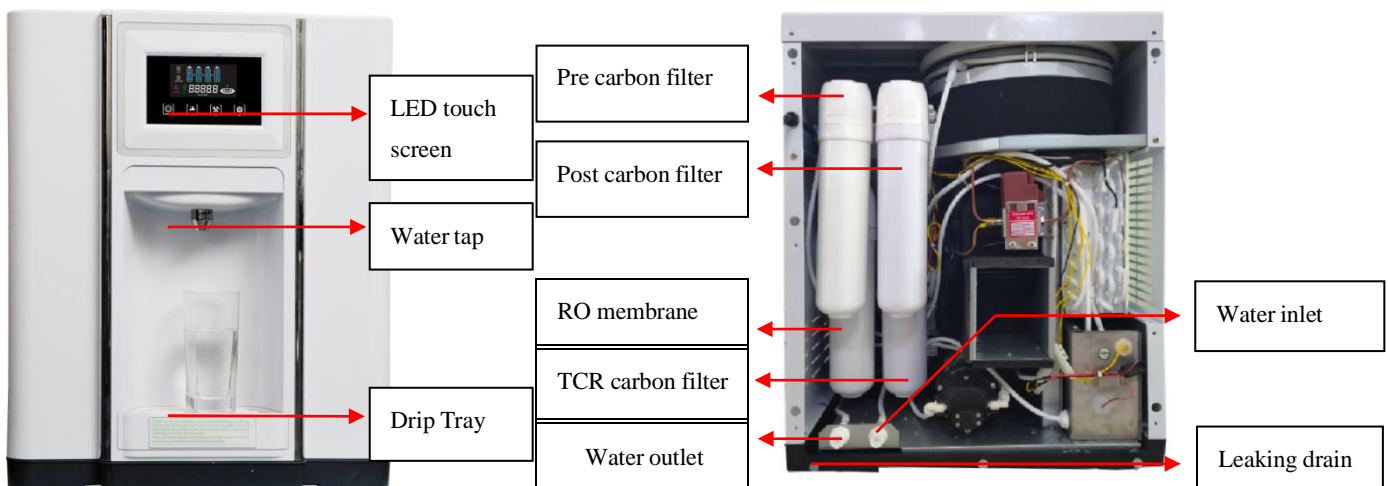
- 1.1-15 Power Touch Key: After plugging in the power supply, touch the power key slightly to start the machine. Continuous touching the power key will shut down the machine. The power touch key icon flickers when the machine is in standby mode.
- 1.1-16 Dispenser Touch Key: Continuous touch of the faucet key releases water.
- 1.1-17 Menu Touch Key: Continuous touching of the mode key opens up the menu settings. Click on the touch button again to select various functions.
- 1.1-18 Setting Touch Key: After entering menu settings, when choosing a function, touch the Settings key to change functional values.

Function	Information	Expressing Meaning
1	A ON or A OFF	Switching of water-making opening or closing
2	***°C	Ambient temperature
3	1F***	Working time of 1 st filter, Click the Settings key to clear the filter time
4	2F***	Working time of 2 nd filter, Click the Settings key to clear the filter time
5	3F***	Working time of 3 rd filter, Click the Settings key to clear the filter time
6	4F***	Working time of 4 th filter, Click the Settings key to clear the filter time

3 OPERATING INSTRUCTIONS

- 3.1 The first time the machine is plugged in there will be a “beep” sound and the display screen will light up. The compressor will start working approximately 2 minutes later, at the same time, the compressor icon will show the machine is functioning normally. To turn off the machine, keep soft pressing the “POWER” key. To restart the machine, keep soft pressing the same key.
- 3.2 During the first few hours after the machine has started working, there will be a limited amount of water. Water is not available until the water level rises to a certain point (under normal conditions, the machine takes one full day to fill up all the tanks, depending on weather conditions).
- 3.3 When the filter system inside the machine is used for a certain period of time, the corresponding filter icon on the screen will flicker. This reminds users to clean or replace filters flickering (Refer to the section on cleaning and replacing filters for specific procedures). After cleaning or replacement is completed, softly touch the top of the display screen “MODE” icon to select the appropriate filter time clearing mode 1F***、2F***、3F***、4F***, then softly touch “SET” icon to clear the time (display 1F000、2F000、3F000、4F000). The corresponding filter icon on the screen will stop flickering which means that the filter time has been cleared.
- 3.4 When the machine is in very low humidity and low temperature areas, the compressor will stop working automatically, and the machine will stop producing water. You may then want to hook the machine up to an external water container.
- 3.5 For energy saving purposes, water level sensors are installed, so that when the water has filled to a certain level, the machine will stop generating water. When the machine is used for the first time, after the water is full, drain the water from the water outlet at the back of the machine to remove the new machine odour from the water.

4 CLEANING AND REPLACEMENT OF THE FILTERS



The above structure and filtration system is for reference only, subject to change without notice!

Recommended Timing for Filter Replacements (It might be vary depending on water consumption levels. The timing below is based on 10 litres of water consumption per day:

- | | | |
|---|--------------------|---------------------------------|
| 1 | Pre-active carbon | 3-6 months |
| 2 | Post-active carbon | 6-9 months |
| 3 | RO membrane | 15-24 months |
| 4 | TCR active carbon | 6-9 months |
| 5 | UV light bulb | replace when UV warning happens |

NOTE:

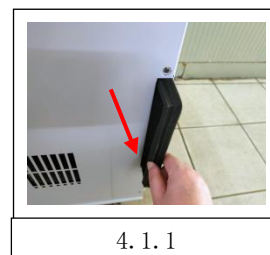
The above replacement period is for reference only.

If the machine is in continuous operation for a long time, we recommend that you replace the filters and to ensure that your machine will always produce the highest quality drinking water effectively.

4.1 CLEANING

4.1.1 High efficiency air purification filter

Please check it every week. When it is blocked, please replace with a new one. When replacing, please put the white side outside. (diagram 4.1.1)



NOTE:

a. Air filter should not be washed with water. Only use and air gun or hands to remove dust softly.

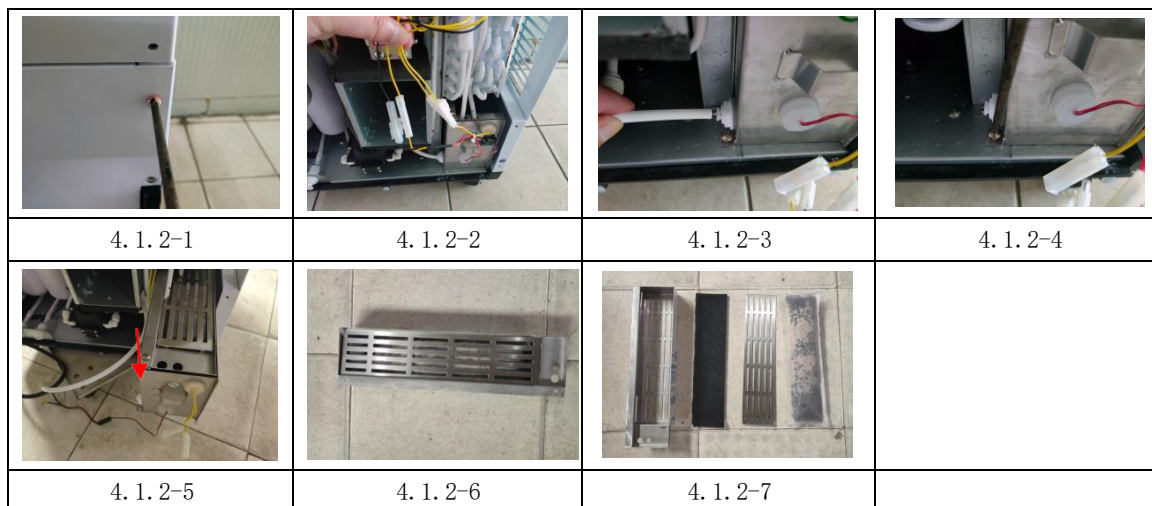
b. Electrostatic air filters can be washed numerous times.

In order to ensure a good performance of air purification and water source, please replace the airfilter in time.

4.1.2 Cleaning of bottom water tank

- ① Soft press on the “POWER” icon until the machine enters standby mode and then unplug the power cord.
- ② Remove the back panel (diagram 4.1.2-1)
- ③ Unplug the water level probe and LED lamp (diagram 4.1.2-2)
- ④ Unplug the outlet pipe of the bottom tank (diagram 4.1.2-3)
- ⑤ Unscrew the fixing screws of the bottom tank (diagram 4.1.2-4)
- ⑥ Pull out the bottom tank (diagram 4.1.2-5)
- ⑦ Unscrew the screws of the cover of the bottom tank (diagram 4.1.2-6)
- ⑧ Clean the bottom tank, the carbon fiber cloth and the carbon filter bag with tap water (diagram 4.1.2-7), and then put them back in place.

Please use tap water for the above cleaning. After cleaning, put them back in place.

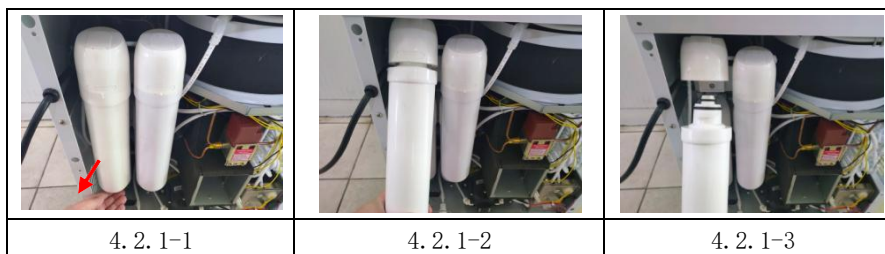


4.2 REPLACEMENT

4.2.1 Filter replacement method

- ① Keep touching the "POWER" operation icon on the display screen until it enters standby mode. Remove the back cover panel with a screwdriver.
- ② Replace the Pre/Post/TCR active carbon filters and RO membrane as required. First, lift up the filter, then unscrew the filter, and pull out the filter (diagrams 4.2.1-1, 4.2.1-2, 4.2.1-3).

Replace and install the filters one by one to ensure that they are in the correct order.



NOTE:

If you are not familiar with replacing the filters, you should replace it one by one, otherwise easy to confusion; If you need to replace the LED lamp of the top and bottom water tank, please contact the after-sales service personnel.

5 ATTENTION

- 5.1 We recommend that you dispense no less than 3 liters of water every day.
- 5.2 If the machine is not used for 2-5 days, please drain about 500 mL of water before drinking when you start using the machine again. If the machine is not used for more than 5 days, we recommend you drain all the water in the machine and turn off the machine. When restarting, please let the machine produce about 5 litres of water and drain the water from the water outlet at the back of the machine. After that, the machine

can run normally.

5.3 When the machine is used for 4 months or stopped for more than 7 days, please clean the machine.

In the above steps, when you drain the water from the back of the machine, be sure to continue to touch the “POWER” icon on the display until it enters the standby mode and then drain the water from the machine.

VIII. TROUBLE SHOOTING

Problem 1: The UV icon blinks with three short beeps and the screen shows U1-FA

Solution: Check the UV lamp on the top tank to make sure the bulb is lit, and all wiring is correct. If the UV lamp does not work, please contact the after-sales personnel for replacement.

Problem 2: The UV icon blinks with three short beeps and the screen shows U3-FA

Solution: Check the LED lamp on the bottom tank to make sure the bulb is lit, and all wiring is connected. If the UV lamp does not work, please contact the after-sales personnel for replacement.

Problem 3: The machine doesn't work when the power is plugged in.

Solutions: Check the voltage is in the normal working range, check the connection of plug is tight enough.

Problem 4: The machine is making a warning noise, and the icon filter on the screen “blinks”.

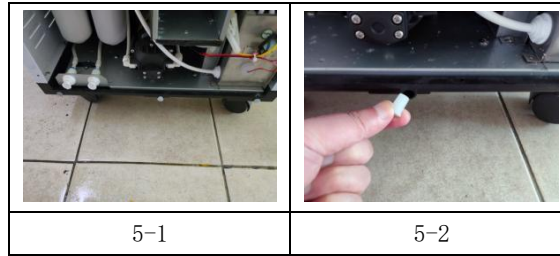
Solutions: When the machine has been working for a certain period, the filter might be dirty and needs to be changed. When changing the filter, follow the section on “replacement” (section 4.2).

Problem 5: There is leaking at the bottom of machine, and the icon “leaking” on the screen “blinks”.

Solutions:

- ① Keep soft touching the “power” icon until the machine enters standby mode, and then unplug the power connection.
- ② Check that all pipes of filter components are connected well.
- ③ Check if the pipe connected with bottom tank is loose or has fallen off.
- ④ Check if the drainpipe at the back of machine is loose or has fallen off.
- ⑤ Check that the water collecting plate is in the right position.

When the problem is solved, take out the back panel of machine, find the device for the leak test, take out the 3 silicon caps then tilt the machine to a 15° angle towards the wall. Wait until all the water is drained out. Replace the silica caps and turn on the machine.



Problem 6: When the cleaning work of top tank is underway, and the draining outlet does not drain the water out.

Solutions: Check that the stopper of the outlet is removed.

Problem 7: There is low flow of water coming out of the faucet.

Solutions:

- ① Clean the nano filter net inside the faucet or change the nano filter of the faucet.
- ② Screw the faucet out, put the cleaned or new filter and silicon sealing ring tightly into position and screw the faucet back to the original position.

Problem 8: Speed of making water is becoming slow after using for a certain time.

Solutions:

- ① Check the temperature of the working environment is in the normal level or not.
- ② Check the humidity of the room. Low humidity will lead to a lower volume of watermaking.
- ③ Check the water outlet.
- ④ Check that the Air Vent of the machine is blocked or not.
- ⑤ Check the machine is not too close to the wall.
- ⑥ Check the voltage of power is not too low or too high.
- ⑦ Check the booster pump is working well.
- ⑧ Make sure there is no blockage in the pipes and the water flow is smooth.
- ⑨ Check the air circulation of working environment is good.

Problem 9: The humidity indication on the screen is different to the real room humidity level.

Solutions:

- ① It is normal if the difference is in the order of 5%.
- ② Make sure that the machine and the hygrometer (humidity meter) is in the same place.
- ③ Make sure that the humidity detecting sensor at the side of machine is not blocked, covered or too close to the wall.

Problem 10: The machine is shaking and making noise.

Solutions:

- ① Make sure nothing is put on the top of machine.
- ② Check if there is a glass on the tray.
- ③ Open the cover of the filter. Check the copper tube is not too close to the side panel.

If it is, then adjust the copper tube slightly and carefully away from the side panel.

Once all the above procedures have been performed and your machine still does not work or does not work correctly, please do not try to perform other repair procedures yourself. You need to call a qualified service technician to look at the machine and undertake the repair procedures. We are not responsible for any damages incurred during self-reparation and this voids all warranty.

IX. TECHNICAL SPECIFICATIONS

① Dimensions

Height: 56cm

Width: 45cm

Depth: 44cm

Net Weight: 34kg

② Power

Voltage: 220V

Frequency: 50HZ

Total Power: 375Wattts making water

③ Coefficient of performance

Working Temperature: 15-40°C

Working Humidity: 35-95%

Water Storage Capacity: 6 Litres

Warranty Policy

1. The Air Water Maker has a 12-month warranty from date of purchase for factory faults. This does not cover, but not limited to, non-factory damage, misuse, or objects outside of specified specs, insects and animals' interference, corrosion/rust, water inside AWG box, incorrect installation as described in installation manual. All products are tested before final sale and dispatch.
2. Any modification to the AWG system whether being physical or electrical voids warranty. This includes but not limited to the addition and/or connection of non-genuine, third party/aftermarket/foreign parts, accessories, electrical components, other brand products, etc. i.e. Parts or equipment not sold by us. e.g. Other brands of Filters, pumps etc.
3. Items to be claimed under warranty are to be shipped back to WES to an address provided by WES upon contact at owner's expense for assessment.
4. If the item is deemed as faulty and meets the warranty requirements as a factory fault, the item will be returned to the customer/owner at WES expense.
5. If the item is not deemed as faulty, is tested as serviceable, was damaged by the customer and/or met one of the criteria in section 1 as not covered, the item to be returned to the owners/customers is at the owners/customers expense if the customer/owner requires it returned. In this situation, an assessment fee for the time and materials used for testing may apply.
6. Any Modification being physical or electrical to any of WES products voids warranty. The use of non-genuine products in particular filters, or any equipment not purchased through WES for use with products purchased through WES voids warranty.
7. Warranty is valid to all WES agents only.
8. All filters enclosed in the AWG are NOT covered by a 12-month warranty due to varying operational use by a customer.
9. Excessive water pressure used on grid connect water systems and damage caused is not covered in warranty.

Returns and Refund Policy

1. All returns for refunds are to be sent to World Environmental Solutions at customer/agent expense for assessment before refund can be granted. Contact WES for address.
2. Returns and refunds terms are within 30 days from purchase date. The returning item must arrive at WES within the 30-day period or at the discretion of WES.
3. Refunds on the item returned will be granted provided they meet all of the following criteria.
 - Items must be in their original packaging
 - Items must be in a like new condition, free from damage or alteration
 - Items must be serviceable and in working condition. Items returned will be subject to inspection by WES to ensure the above criteria is met.
4. Provided the criteria laid out in section 3 is met, refunds will be granted less a 25% restocking charge on the original purchase value of the returned item and any shipping charge incurred in the shipment from WES to the customer/agent.
5. If the criteria in section 3 is NOT met, refunds are at the discretion of WES based on but not limited to serviceability, quality, and age. WES reserves the right not to refund if section 3 is NOT met.
6. Refunds require up to 7 business days to be processed from the date the refund is granted. The refund method is at the discretion of WES.