

USER MANUAL

Model KLR-50LA
Atmospheric Water Generator
Type: P50CM+

**United Emirates Authorised Distributer
& Service Centre**

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- Please read this manual before use.
- Keep this manual for future reference.



SHENZHEN FND AIR AND WATER TECHNOLOGY DEVELOPMENT CO. LTD.
Revision HYD-P50CM+E01

INTRODUCTION

Dear User.

Welcome to your guide to an unlimited supply of pure drinking water made the same way as in nature, known as the hydrological cycle or cycle of water.

Our commitment is to provide you with healthy, sustainable drinking water that is good for you and the environment.

Although the machines operation is automatic and functions easy to use, it is important to read this manual to better understand the operation, functions and assist you in optimising performance, economy and maintaining high water quality.

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

27. Special Notes

- Cold Water Dispensing**, the water in the water tank is thermostat controlled to maintain the water temperature between 12 – 18C. When not used frequently, the water remaining in the filters will be closer to ambient temperature, resulting in the first 1 – 2 litres of water dispensed being closer to ambient temperature. This is unfortunately unavoidable as to ensure the same consistent high level of water quality, the water must be filtered each time water is dispensed. Should you prefer drinking colder water, you can keep the water in sealed bottles in the refrigerator for 3-5 days maximum.
- Power Conservation**, in areas where peak and off-peak rates are charged, touch the On/Off button to turn water making function off during peak times, and turn water making function back on during off-peak hours.
- Pre-Air Filter**, should be cleaned on a regular basis to allow for maximum air flow, production efficiency and economy.
- Water Storage**, it is important to understand the water is highly purified and as a result is free of chemicals and is very different to traditional water. Municipal or bottled water is treated in order to have a long self-life and also to preserve and not corrode pipework. You can keep the water in an air tight bottle and use all day or store in an air tight bottle in the refrigerator for 3 – 5 days maximum.
- External Tank Adapter**, is intended only to provide water that is to be used for **non-consumption use** and reduce the usage of the filtration system for water that does not need to be purified. Ensure the valve is closed when not drawing water from the external tank adapter to allow the machines internal tank to refill and for the machine to stop producing water.
- Servicing**, the P50CM+ has been custom designed and built with additional internal dust prevention, O3 sterilization and filtration specifically to extend the time between recommended servicing, provide the highest quality water with a more balanced PH and improved taste. Contact your local authorised service provider every 6 months to arrange for the machine to be checked and serviced internally.

26. Warranty

FND is confident of the quality of its products and offers a 1 year limited warranty from the date of purchase and covers any defect in materials or workmanship under normal use during the warranty period.

□ **Cover**

During the warranty period the Authorised Distributor & Service Centre will repair or replace, at no charge, products or parts of the product that proves defective because of defective material, components or workmanship, under normal use during the warranty period.

□ **When is the warranty not covered?**

The limited warranty does not cover any problem that is caused by conditions, malfunctions or damage not resulting from defects in materials or workmanship. If the machine has been tampered with or serviced by an unauthorised person. Air and water filters are not covered by the warranty and considered as consumable components.

□ **What do you have to do?**

To obtain warranty service, you must contact the Authorised Distributor in your region. Contact details can be found below and on the back page of this manual.

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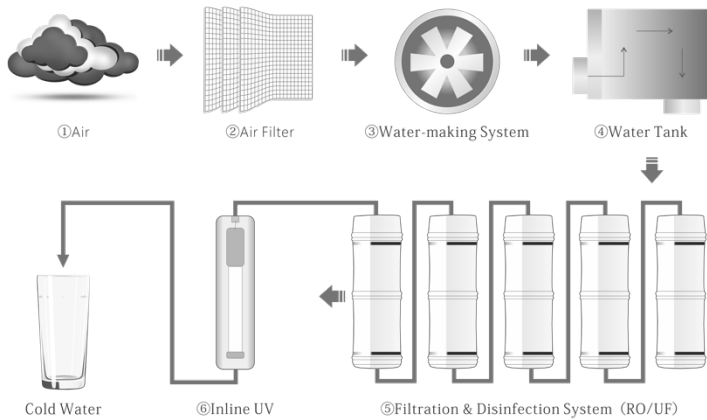
1. How It Works

Water is produced by condensing water vapor in the air. Warm humid air is drawn into the machine and passed through a patented triple layer aerospace technology air filter and then cooled to below dew point temperature.

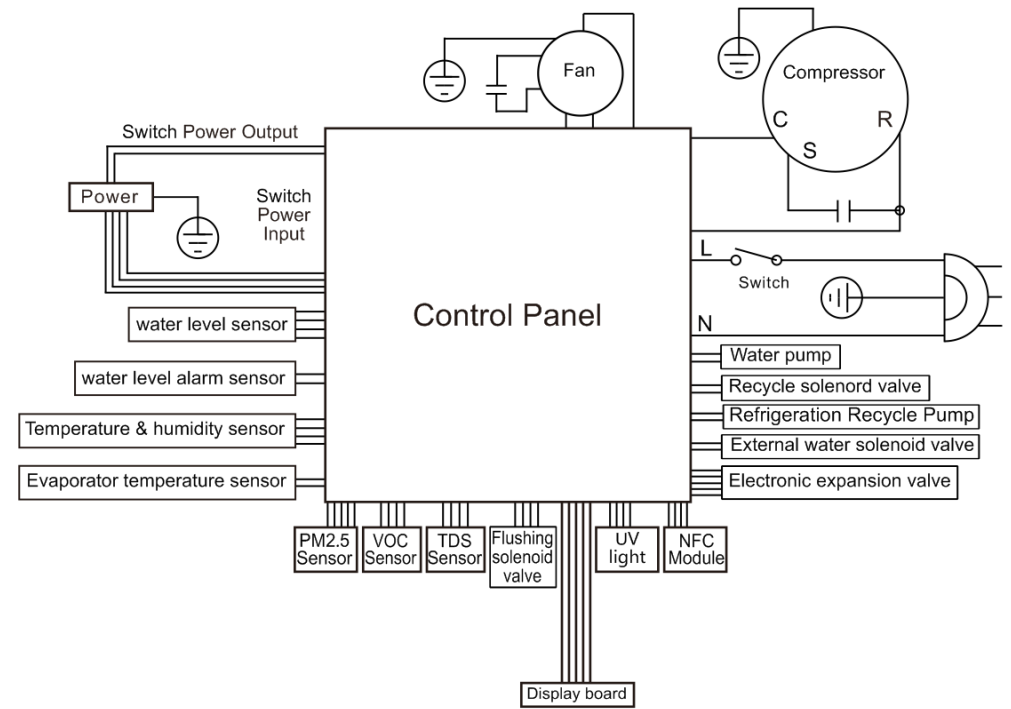
As the air cools, condensation naturally occurs and is collected in the Water Tank.

During water dispensing, the water is pumped from the water tank through a multistage nanoscale filtration system and inline UV light sterilization for purification and sterilization each time water is dispensed.

To maintain the water quality within the Water Tank, automatic circulation, circulates and purifies the water every 2 hours for 18 seconds during frequent use, or every 8 hours for 5 min if not used within 8 hours. In addition, Anti-Bacterial LED lighting fitted within the Water Tank automatically turn on for 30 min every 90 min to eliminate and prevent bacterial propagation within the Water Tank.



25. Circuit Diagram



Remark: above diagram is for your reference only.
Please take the diagram on the back of machine as correct one.

23. Package Contents

Item	Quantity	Unit
Atmospheric Water Generator	1	pc
User Manual	1	pc
Power Cord	1	Pc
Water Filters	1	Set
Air Filter	1	pc
Washable Pre-Air Filter	1	pc
External Tank Fittings	1	pc

24. Replacement Filters

	Description	Part Number
RO System (Water Filters)	<ol style="list-style-type: none"> 1. PP Sediment Filter 2. RO Membrane Filter 3. Mineral Filter 4. M-Cell Filter 5. Post Activated Carbon Filter 	<p>P50PP1 P50RO2 P50MF3 P50MC4 P50CC5</p>
Air Filter	<p>3 in 1</p> <ol style="list-style-type: none"> 1. HEPA Cotton Filter 2. Activated Carbon modified molecular Sieve 3. Carbon Fibre 	<p>P50AF0</p>

1. Product Introduction

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

2. Product Features

- 5 Filter, advanced nanoscale water purification and mineralization.
- Advanced UV light Sterilisation for water dispensing.
- O3 Sterilization within water tank.
- Advanced Aerospace technology Air Filter.
- Manufactured from high quality food grade materials.
- Microcomputer control technology for automatic operation.
- System Fault reporting.
- Option to add water from external water supply.
- Washable Pre-Air filter.
- Connection Kit to connect external tank for **non-drinking water use**.

3. Safety Precautions

- ⚠ Do not attempt to repair the machine or power cable. Contact your local dealer for service support.
- ⚠ Only connect the unit 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 or reach of children.



- ⚠ To prevent damage to the machine, disconnect power supply during thunderstorms.



- ⚠ Disconnect the power supply before cleaning or maintenance.



- ⚠ Do not use multiple connections on the machines power supply connection.

- ⚠ Do not place or use the machine in volatile, corrosive or flammable chemical environments.



21. System Fault Codes.

E1 code indicates temperature sensor is faulty.
 E2 code indicates humidity sensor is faulty.
 E3 code indicates outlet water pump is faulty.
 E4 code indicates collection water pump is faulty.
 E5 code indicates evaporator temperature sensor is faulty.



Note: means light flashing, means light on.

22. Technical Specifications

Model: KLR – 50LA	Water Tank Volume: 19L	Storage Temperature: -10°C – 60°C
Frequency: 50 Hz	Total Power: 1200W	Operating Temperature: 15°C – 43°C
Rated Voltage: 220 V ~240V	Water-making Power: 1100W	Storing Humidity: 5% - 80%
Current: 3.6A	Net Weight: 49kg	Operating Humidity: 15% or above
Refrigerant: R410a	Refrigerant Volume 440g	Anti-shock: I
Waterproof: IPX0	Climate Type: T	
Dimensions: (W x L x H) 400 x 473 x 920 (mm)		
Capacity: 50L/Day @ 30°C and 80% humidity		

20. Trouble Shooting

Problem	Possible Cause	Solution
Water production is very slow.	Ambient temperature or humidity is out of working range.	Use the external water supply until the temperature or humidity is in working range.
	Ventilation is poor.	Place the unit in an area with better ventilation.
	The air intake or Air Filter is blocked or restricted.	Remove obstructions and ensure machine is not too close to the wall.
	Machine is running in Quiet Mode.	Press Quiet button to run the fan at normal speed.
Water production stops	Reset the main power switch on the back of the machine.	The machine will restart automatically.
	The high-level water indicator is illuminated.	The machine will not produce water if the water tank level is (H)
	E1 or E2 warning on display.	Contact local service centre.
	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 15%
	Unsteady Voltage	Install a voltage regulator.
Water production stops before water tank is full	The ambient temperature is above 42°C or below 15 C	The compressor will restart when temp is within range.
The machine is too noisy	The machine is not levelled correctly.	Check the machine is levelled correctly.
	External water supply or bottom door is not closed properly.	Check the External water supply or bottom doors are closed properly.
	Are there items on top of the unit?	Remove any items from the machine.
Water does not dispense	Water filters are not yet filled with water.	Press water button and wait for the air to pass out.
	Low water level light flashing. (L)	Wait until water level in the water tank increases.
The machine is leaking water	If the machine was moved or not levelled correctly the water tank may have spilled.	Dry off the machine. If the leak continues unplug the machine and contact local service centre.

⚠ Should abnormal sounds, smell, temperature or leakage occur, disconnect from power supply and contact your local dealer for service support.

⚠ Do not place any heavy 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 or in the path of the exhaust air.

⚠ When moving the machine, the water tank must be drained to avoid water spillage within the machine.

⚠ To prolong the air and water filters lifespan it is recommended to use the machine indoors.

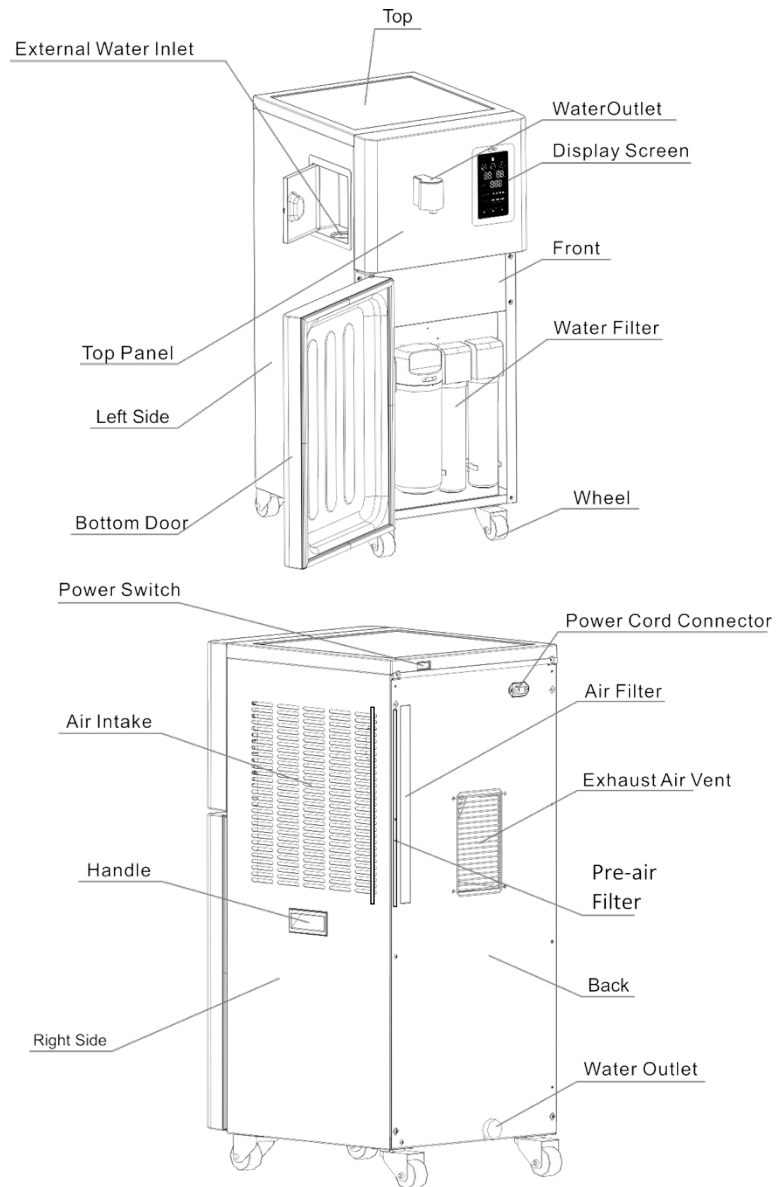
⚠ Operating temperatures are between 15C - 42 C.

⚠ Operating Humidity above 15%

⚠ Do not open or remove any covers or body panels.

⚠ Children should be supervised when operating the machine.

4. Product Map



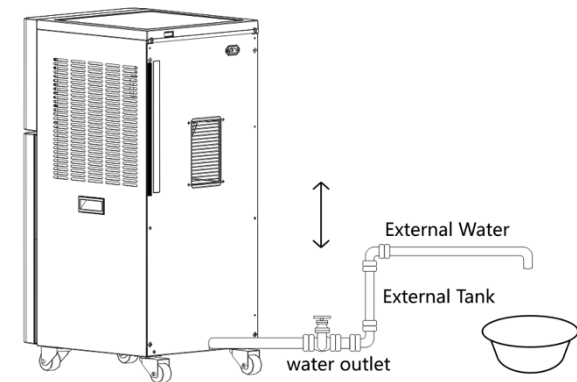
• Any changes of the manual for the improvements of the products will not be given.

19. External Tank Adapter

The function of the External Tank Adapter is to connect directly to the water tank and provide a source of un-purified water to reduce the usage and cost of the filtration system for water requirements other than consumption or in situations of severe water shortages or restrictions. For example, watering plants, cleaning, washing, flushing toilets etc.

WARNING: NOT FOR CONSUMPTION OR COOKING IN ANY FORM

- 1) Remove the Drain Cap and Rubber Stopper.
- 2) Connect the External Tank Adapter Kit to the Water Outlet.
- 3) Ensure the pipe rises upwards from the Water Outlet.



Note: It is important the pipe rises up to prevent the machine's internal water tank from being fully drained, or it will not be possible to dispense drinking water until the tank level rises. When correctly fitted, external water connection should only be able to supply external tank with water between (H) & (M) levels. (L) level is then reserved for dispensing drinking water.

- 4) Keep the valve closed when not filling external tank to allow the water tank to reach (H) level and water production to stop.

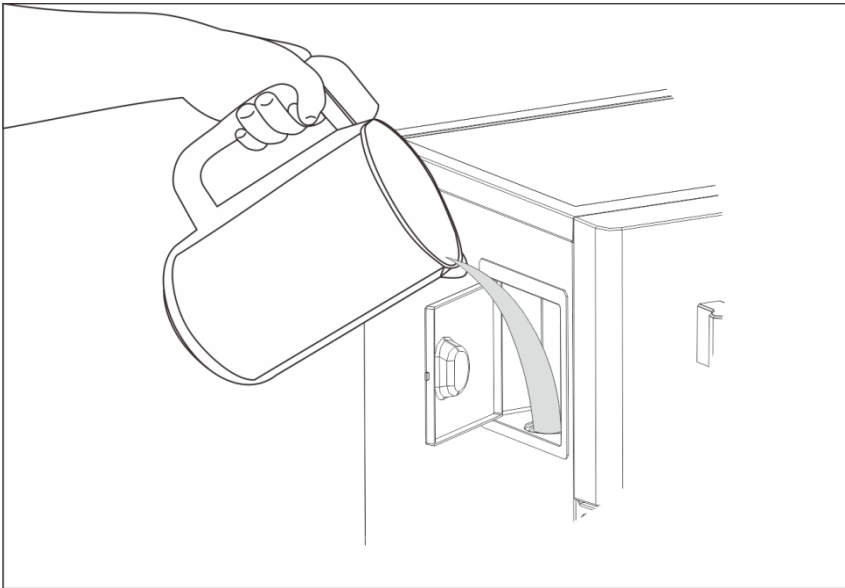
18. External Water Inlet

In the event of high water consumption or days when the humidity is low and water production is insufficient to cope with consumption, you can add water externally that will receive the same level of purification and sterilisation through the filtration system and delivery the same high quality drinking water.

- 1) Open the water inlet door.
- 2) Pour water into the opening.
- 3) Take care not to spill excessive amounts of water.
- 4) Stop filling the tank when the water level reaches (H) level.

Note: An internal valve will automatically close when the tank level reaches (H) to prevent over filling of the water tank.

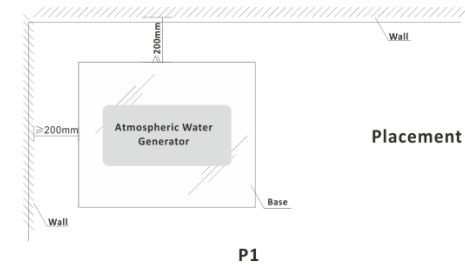
Important Note: Use bottled or municipal water only when adding external water.



Warning: Adding poor quality water will reduce the lifetime of the water filters.

5. Installation Guide

- The machine must be placed on a firm level surface.
- Avoid fitting the machine at any sloping angles or may result in excessive noise during operation and erroneous water tank level readings.
- Ensure a minimum gap of 200 mm between machine and walls to allow sufficient cooling and ventilation.



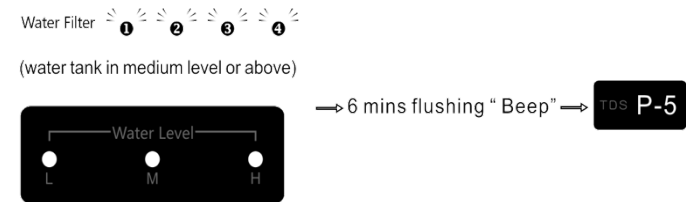
- Note:** If the machine was tilted for a long period of time during transportation or moving, leave the machine in its final position and upright for at least 4 hours before turning the power on. This will ensure optimum operation.

6. Benefits of AWG

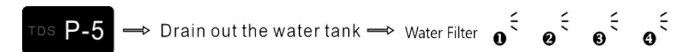
There are numerous benefits that cover personal health, the environment and also economic benefits. Below are just a few of the many benefits.

- Sustainable water supply.
- Zero waste water production.
- Bottle free.
- Reduction in emissions from manufacturing of plastics.
- Reduction in transportation emissions.
- Water produced creates savings compared to bottled water costs.
- Can be installed anywhere in a building without installing water lines.
- No bulky water container storage space required.
- No more delivery or collection disruptions.
- No heavy lifting of heavy water containers.
- Chemical free.
- Fluoride free.
- Carcinogen free.
- Bacteria free.
- Natural Minerals.
- Dehumidifies the room.
- Purifies the air in the room.
- Reduces allergen particles in the air.

- 7) After exit, the automatic filter flushing mode will run for 6 minutes. On completion there will be a beep sound and TDS will display P5



- 8) Drain the water tank from the outlet, once the tank is drained the water filter warning will change from flashing green to constant green and normal use can resume.



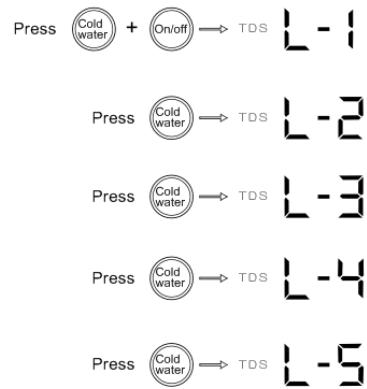
Note: Ensure the water tank level is (M) level or above before replacing water filters to allow for automatic flushing mode to run without delay. If the tank level was (L) wait for the tank level to reach (M) and automatic flushing to complete.

Tip1: To save power consumption & waiting time, you can add bottle or municipal water to the External Water Inlet until the water tank level reaches (M) then wait for automatic flushing mode to complete and then fully drain the tank.

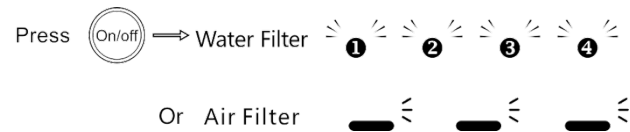
Tip2: Only in the case of filter replacement, after automatic flushing is complete and P-5 is on the display, you can disconnect and reconnect the power to bypass draining the water tank. Then dispense at least 2L of water to ensure flushing is sufficient.

17. Resetting Water and Air Filter Warnings

- 1) To enter reset mode, hold WATER & On/Off buttons together for 5 seconds or until TDS reading on the display changes to (L1)
- 2) L1 = No 1 water filter
L2 = No 2 water filter
L3 = No 3 water filter
L4 = No 4 & 5 water filters
L5 = Air filter.

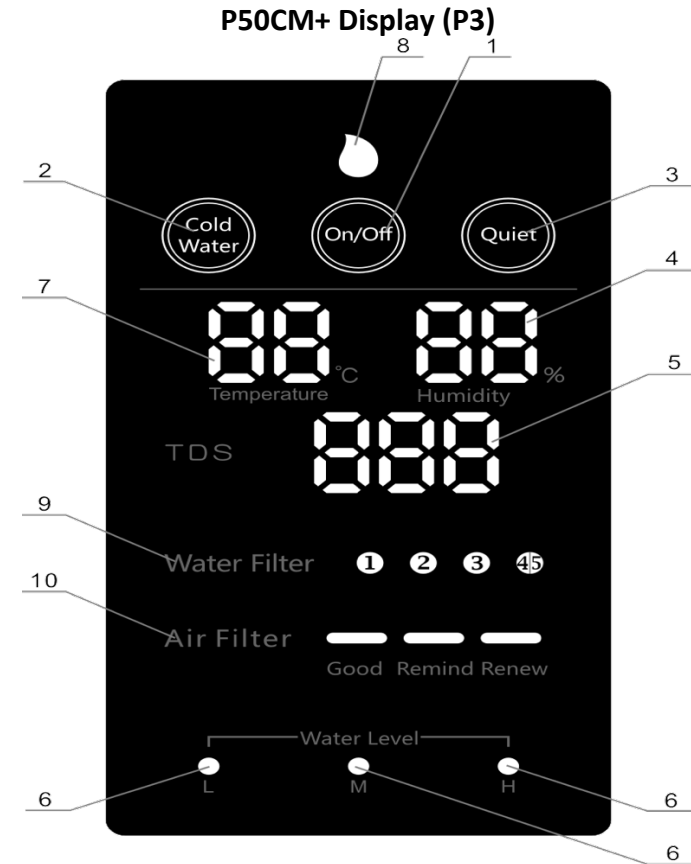


- 3) To toggle between selections touch water button once.
- 4) To reset the selected filter, touch On/Off button once.
- 5) The filter warning lights will change to green flashing.



- 6) To exit resetting mode, hold WATER & On/Off buttons together for 5 seconds.

7. Display Introduction



P3

- | | |
|-------------|-------------------|
| 1 .On/Off | 6. Water Level |
| 2 .Water | 7. Temperature |
| 3 .Quiet | 8. Working Status |
| 4. Humidity | 9. Air Filter |
| 5. TDS | 10. Water Filter |

8. Functions & Operation

Important Note: The buttons on the display only require a soft touch, pressing hard can result in non-responsive contact.

1. On/Off Button

The On/Off button only controls the water making function On or Off. Hold the On/Off Button for 5 seconds to either Turn Off or On.

When On, the water droplet light above the On/Off button will flash to indicate water is being produced or automatic refrigeration mode is running. When the water droplet light is constantly illuminated it indicates the machine is ready to automatically produce water when the water tank level drops below (H) level to refill the tank.

When Off the water droplet light is off and the machine will not produce any water until water making function is turned on again.

Note: During On or Off mode, water can still be dispensed, and the automatic refrigeration operation will continue to function to maintain the water temperature in the water tank. (12-18C)

2. Water Button

Touch the water button to dispense water. Touch again to stop.

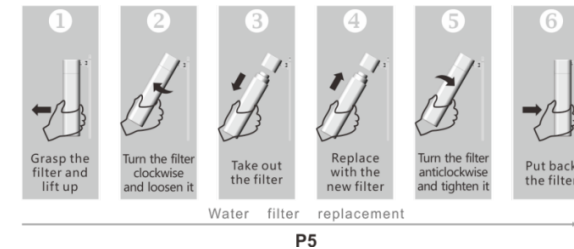


Note: You will hear a beep sound and the water button will begin to flash. It takes 2 – 4 seconds for the water to start dispensing. (First time use or after filter replacement, may take longer for the water to dispense due to air passing out the system)

16. Water Filter Replacement

The machine has microcomputer control of the water filters. The condition of each water filter. (No 1, 2, 3 & 4/5 together) The lights will be illuminated green, then yellow, then red and red flashing when it is time for the appropriate filters to be replaced. No 1, 3, 4 & 5 have the same lifetime and should be changed together.

- 1) Hold On/Off button for 5 seconds to turn off water making function, ensure water pump is not running when removing the water filters.
- 2) Open water filter door.
- 3) Remove the appropriate filters to be replaced. (Pull bottom of filter outwards and twist anti-clockwise direction 90 degrees)
- 4) Install the appropriate replacement filters. (Twist clockwise direction until in locked position then push the filter back into the mounting brackets)
- 5) To remove the No 5 Water filter, pull firmly from left hand side, then disconnect the connectors on the filter with a small screwdriver to release the locking clips. Contact your service provider if you require instructions.
- 6) Close water filter door.
- 7) Follow steps on page 21 to reset the filter warning on the display.
- 8) After water Filter replacement warning is reset, automatic filter flushing will run for 6 min when the water tank level is (M) or higher.
- 9) Follow steps 4 - 9 on page 17 to complete the replacement procedure.



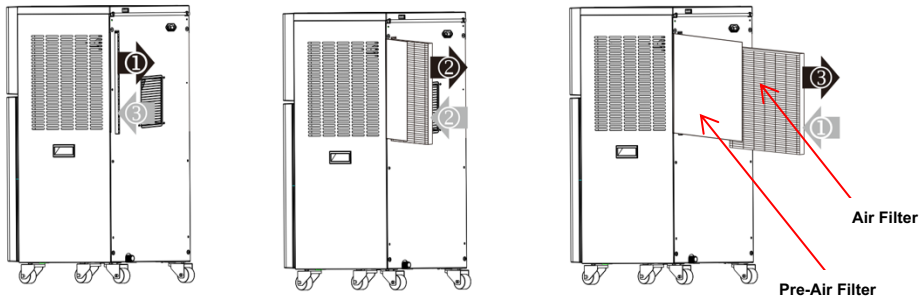
Note: It is recommended to replace the filters when tank level is (M) or (H)

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

15. Air Filter Replacement

The condition of the Air Filter is displayed in 3 levels. Good, Remind & Renew. (Green, Orange & Red)
When Renew (Red) is flashing the Air Filter must be replaced.

- 1) Keep the machine plugged in. Press On/Off button and ensure the water droplet light is off. If the fan is running, wait 60 seconds for the fan to stop.
- 2) Remove air filter.
- 3) Install replacement filter.
- 4) Remove Pre-Air Filter and check if it needs to be cleaned.
- 5) Follow steps on page 21 to reset the warning on the display.
- 6) Press On/Off button to turn water making function back on.



➡ Black arrow indicates order of removal.

⬅ Grey arrow indicates order of replacement.

3. Quiet Button

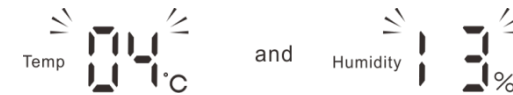
Touch the button for low fan speed. Touch again for normal fan speed.



Note: Low fan speed reduces water production, economy & increases exhaust air temperature. Normal fan speed is recommended for best performance and economy.

4. Humidity

This shows the ambient humidity in the room.



Note: If the humidity is below 25% the humidity will start flashing and the compressor will not run until the humidity rises above 25%

5. TDS

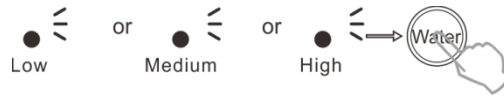
Shows TDS (Total Dissolved Solids) in the water being dispensed.

Total Dissolved Solids comprise inorganic salts (principally calcium, magnesium, potassium, sodium, bicarbonates, chlorides, and sulfates) and some small amounts of organic matter that are dissolved in water.

Note: Due to the purity of the water, the TDS value will be lower in comparison to bottled or municipal water (5 – 60 ppm) The maximum allowable TDS in municipal water is 600 - 1000 ppm

6. Water Level

There are 3 water level indicators to show the water level in the water tank (L, M & H). The levels are displayed with white lights on the bottom of the display. When tank level reaches (H) water production will automatically stop.



(L) will flash when the tank level is too low, the WATER button will not function until (L) is constantly on.



7. Temperature

This shows the ambient temperature in the room and will also switch to the water temperature in the water tank during water dispensing.



Note: If the temperature is below 15C or above 42C the temperature will start flashing and the compressor will not run until the ambient temperature is back within operating range.

14. Care & Maintenance

Important Note: It is recommended not to disconnect the machine from power for more than 8 hours. Unplugging or turning the Red power switch off will prevent automatic circulation and sterilization from functioning. These are essential functions in maintaining the water quality in the water tank, water filters and pipework.

- 1) Clean the external surfaces of the machine with a dry or damp cloth on a regular basis.

Caution: It is recommended to unplug the machine when cleaning with a damp cloth.

Warning: Do not use any strong chemicals or solvents to clean the machine, use a mild soapy solution if required. Do not hose down the machine.

- 2) Remove and wash the Pre-Air Filter on a regular basis. Ensure the fan is not running when replacing the Pre-Air Filter.
- 3) If the machine has been left standing and unplugged from power for a long period of time. First drain the water tank before turning the power on.
- 4) It is recommended to contact the Authorised Service Provider every 6 months to perform internal checks and cleaning to ensure optimum production performance, power consumption and ensure high water quality.

Tip: If you intend to not use the machine for a long period of time, it is recommended to leave the machine on. Should you prefer to turn the power off, fully drain the water tank, remove the water filters, drain the water from the filters and then replace the filters.

(4) During first time use, the machine will automatically run a 6 min long filter flushing program once the water tank level reaches (M) level. After the flushing program is complete, you will hear a (Beep sound) and TDS on the display will change to (P-5) You must then fully drain the water tank from the water outlet located at the back of the machine. Once the tank has been drained, TDS will no longer display (P-5) and the machine will begin to produce water again. The next tank of water produced is ready for drinking.

Tip: To save power consumption & waiting time, you can add bottle or municipal water to the External Water Inlet until the water tank level reaches (M) then wait for automatic flushing mode to complete and then fully drain the tank.



(5) Place a tray beneath the water outlet at the back of the machine. Remove the Drain Cap, pull the rubber stopper out and allow the water to fully drain out.

Important Note: Mains power must remain On for the system to register the tank has been fully drained.

Tip: The Collection tank holds up to 19 L of water, if your tray is small be ready to push the rubber stopper back to avoid the tray overflowing or attach the valve and pipe adapters to control the draining of the water tank.

(6) Replace the Rubber Stopper and Drain Cap

(7) Place the machine in its final position and touch the On/Off button to turn water making function back On. (Water Droplet light above On/Off button will be flashing to indicate water making function is On)

(8) Once the water tank level reaches (L) constantly on or above you can start dispensing and drinking the water.

8. Air Filter Indicator

The condition of the Air Filter is displayed in 3 levels. Good, Remind & Renew. (Green, Orange & Red)
When Renew (Red) is illuminated the Air Filter must be replaced.



Note: Air Filter Indicator is timed on 6 months of the compressor running time. Poor environmental conditions may reduce the lifetime of the Air Filter without warning, this can affect the water production performance and economy of the machine. An easy check is to feel the exhaust air flow, it will have less air flow and the exhaust air will be higher in temperature than normal.

Tip: Clean the Pre-Air Filter on a regular basis to extend the Air Filter lifetime and maintain best water production performance.

Warning: The Air Filter cannot be washed with water and can be damaged with excessive removal.

9. Water Droplet Indicator

As in point 1. The water droplet indicator displays whether the water making function is On, Off, Making Water or in refrigeration mode and is linked to the ON/Off button.

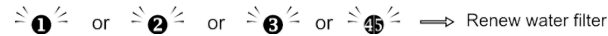
Flashing = Making Water or Refrigeration Mode

Constantly On = Water making function is On and ready.

Off = Water making function is Off. Machine will not produce any water, but refrigeration mode will continue to function automatically.

10. Water Filter

This shows the condition of each water filter. (1, 2, 3 & 4/5 together) The lights will be illuminated green when the water filters are in good condition and change to yellow then red & finally flashing red when it is time for the appropriate filters to be replaced.



Note: The machine has an internal flow meter that measures the amount of water that is dispensed and also passed through the filters during automatic circulation. Filter replacement warnings are indicated, based on the total value (Dispensed water + automatic circulation) Poor environmental conditions can affect the lifetime of the water filters without replacement warning.

Tip: Slower flow rate than normal during water dispensing is an indication for replacement. Replace no 1 first and check if flow rate comes back to normal (600 - 800ml per minute)

11. Water Filter Compositions & Expected Lifetimes

- No 1: PP Sediment + Carbon Block (1,000L)
- No 2: Reverse Osmosis (10,000L)
- No 3: Natural Minerals (1,000L)
- No 4: M-Cell (1,000L)
- No 5: Post Carbon (1,000L)

12. Water Production Data Per 24 hours in Litres

Humidity	30%	35%	40%	45%	50%	55%	60%	70%	75%	80%
20C	6.4	9.0	12.4	15.3	18.3	21.0	25.9	28.3	31.7	34.8
25C	9.0	12.5	16.0	19.1	22.8	27.2	31.2	34.1	37.5	42.4
30C	10.2	15.7	21.3	24.8	28.9	33.2	38.5	41.9	45.4	49.4
35C	13.1	18.3	23.8	28.8	33.9	38.8	43.3	48.4	53.5	58.4

13. First Time Use

(1) Placement is very important for the water production performance and power economy of the machine. Keep in mind the machine produces water by processing warm humid air.

Tip 1: Placing the back of the machine too close to a wall will lead to dehumidified exhaust air getting drawn back into the air intake and will create a drop in the humidity and water production. (Keep a minimum of 200mm space between the back of the machine and wall)

Tip 2: Choose a room that is well ventilated or near a doorway or window.

Tip 3: Place the machine so that the air intake on the right side is not blocked or restricted.

(2) Plug the machine into a power outlet and turn on the red switch located at the back of the machine. The buzzer will beep once, followed by a long beep. The machine will run a short diagnostic test. The display will light up and the fan will run for 60 seconds then stop. After 3 minutes the compressor and fan will automatically start running and the machine will begin to produce water.

Warning: Do not connect other appliances to the same power outlet or use multiple adapters.

(3) Provided the temperature is between 15°C - 42C and the humidity is above 25% the compressor will run and the machine will automatically start producing water.

Note: If the temperature and or humidity is out of range the temperature and or humidity on the display will be flashing and the compressor will not run until the temperature and or humidity is back within operating range.