

# eQuipt

## COOLING



PRODUCT CODE: E11-0030

EVAPORATIVE COOLER

## OWNER'S MANUAL

Max Airflow (per hour)	Effective Cooling Area	Water Tank Capacity	Water Consumption	Product Dimensions (mm)	Unit Weight	Power
12,000 m <sup>3</sup>	70-90 m <sup>2</sup>	60 L	8-10 L/h	D: 560 W: 900 H: 1430	45 Kg	240V 10 Amps 450 Watts



TQB Brands Pty Ltd

[www.tqbbrands.com.au](http://www.tqbbrands.com.au)

**WARNING****IMPORTANT: READ ALL INSTRUCTIONS BEFORE USE****WARNING**

The instructions and warnings contained in this manual should be read and understood before using or operating this equipment. Do not allow anyone to use or operate this equipment until they have read this manual and have developed a thorough understanding of how this equipment works. Failure to observe any of the instructions contained in the manual could result in severe personal injury to the user or bystanders, or cause damage to the equipment and property. Keep this manual in a convenient and safe place for future reference.

**Whilst every effort has been made to ensure accuracy of information contained in this manual, the TQB Brands Pty Ltd policy of continuous improvement determines the right to make modifications without prior warning.**

**Electrical  
Components****Maintenance  
Required****Liquids****CONTENTS**

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## SAFETY OPERATING INSTRUCTIONS

### Water Level Management

- The water level in the tank must never exceed the "MAX" scale to prevent overflow.
- When operating in cooling mode, ensure the water level remains above the "MIN" scale to avoid operational issues.
- After adding water, avoid tilting, moving abruptly, or colliding with the unit to prevent spillage.
- Prohibited: Overturning the machine, as this may lead to accidents or damage.
- In elevated environmental temperatures, activate the cooling function to reduce heat and increase air moisture effectively.

### Electrical Safety

- Always unplug the unit from the power supply before cleaning or performing maintenance to eliminate electrical risks.
- If the unit topples with water inside, immediately disconnect the power plug. Do not attempt to operate it until it is fully dry to prevent electrical damage or hazards.
- Keep the control panel dry at all times. Unplug the unit before cleaning due to high internal pressure, which could pose a risk if mishandled.
- If the power cord is damaged, contact the manufacturer's authorised service centre or a qualified technician for repair or replacement to avoid potential dangers.
- Disconnect the power plug when the unit is not in use to enhance safety and conserve energy.

### General Usage

- Do not place objects (except the remote control) on the air conditioner.
- Ensure the air outlet remains unobstructed, with no obstacles within one meter of the front or back of the unit.
- Position the unit away from walls, curtains, or other barriers to maintain unrestricted airflow and optimal cooling performance.
- If there's insufficient water in the tank, the 'Cooling' mode won't run the water pump. Always check the water level before using this function.
- Avoid shaking or striking the unit forcibly during operation, as this may trigger an automatic shutdown, requiring a manual restart.
- Clean the exterior with a damp cloth (optionally with mild cleanser).
- Prohibited: Use of corrosive cleansers, drip washing, or submersion in water.



## **SAFETY OPERATING INSTRUCTIONS cont.**

### **General Usage cont.**

- Use remote batteries matching the original specifications and ensure correct polarity during replacement.
- Dispose of used batteries responsibly in accordance with Australian environmental regulations.
- Remove the battery if the remote control will remain unused for an extended period.
- Individuals with physical weaknesses, delayed responses, or mental impairments must operate the unit under the supervision of a responsible adult.
- Ensure children are monitored when in the vicinity of the unit.

### **Additional Precautions**

- As the unit is mounted on wheels, place it on a flat, stable surface to prevent unintended movement during operation.
- Lock the wheels (if equipped) to secure the unit in position while in use.
- Avoid operating the unit in areas with excessive dust, chemicals, or flammable materials, which could impair performance or pose safety risks.
- Ensure the workshop is well-ventilated during operation to maintain air quality and prevent overheating of the unit.
- Conduct regular inspections and servicing as recommended by the manufacturer to ensure long-term reliability and compliance with Australian safety standards.

### **Important Notices**

- Control Panel Protection: Any exposure of the control panel to moisture is strictly prohibited. Always disconnect the power supply before cleaning or maintenance.
- Technical Support: For repairs or technical difficulties, contact the manufacturer's authorised service centre to ensure adherence to Australian safety and quality standards.



## INCLUDED IN THE BOX

- Evaporative Cooler Unit
- Instruction Booklet
- Remote Control

## FEATURES

The Portable Evaporative Cooling unit is specifically designed for smaller workspaces, offering an impressive airflow. This user-friendly unit features a robust, weather-resistant one-piece molded polyethylene housing that is both crack- and leak-resistant.

Equipped with a remote-controlled, three-speed fan, this cooler efficiently circulates warm air over rigid, water-saturated evaporative cooling media, resulting in a notable reduction in ambient temperatures of up to 10°C. Its adjustable swing louvre feature allows for customizable directional airflow, enabling users to tailor the cooled air output to their preferences.

Evaporative coolers—commonly known as desert coolers or wet air coolers—function by cooling air through the evaporation of water. These units are particularly effective in hot, low-humidity climates, leveraging the natural cooling properties of water alongside a continuous airflow to lower indoor temperatures. Furthermore, evaporative cooling systems provide significant energy savings compared to traditional refrigerated air conditioning units, and their straightforward design ensures minimal maintenance.

With substantial energy savings and continuous air circulation, this portable evaporative cooler is ideally suited for area or spot cooling in environments such as rooms, workshops, factories, laundries, schools, agricultural sheds, and more.

## BEFORE FIRST USE

Before each use, conduct a visual inspection to identify any irregularities, including cracked joints or damaged, loose, or missing components. Ensure that the unit is disconnected from the power supply before removing any guards. If the power supply cord is damaged, it must be replaced by the manufacturer or a qualified professional.

## WATER LEVEL MANAGEMENT

Evaporative coolers function by integrating variable airflow with the process of water evaporation to provide effective cooling. The amount of water consumed, referred to as water consumption, is influenced by two primary factors: the relative humidity of the environment and the fan speed setting selected to achieve the desired cooling level. These factors determine how efficiently the cooler operates and how much water it requires to maintain optimal performance.

Relative humidity (RH) is defined as the ratio of water vapor present in the air to the maximum amount of water vapor the air can hold at a given temperature, known as saturation. This ratio is expressed as a percentage. For example, at 50% RH, the air contains half of the maximum moisture it could hold at that temperature. At 100% RH, the air is fully saturated, unable to absorb additional water vapor.

The level of relative humidity significantly impacts the water consumption of evaporative coolers. In conditions with low relative humidity, the air has a greater capacity to absorb water, leading to increased evaporation and higher water usage by the cooler—potentially up to three times more than in high humidity conditions. Conversely, when relative humidity is high, the air is closer to saturation, reducing the rate of evaporation and thus lowering the amount of water the cooler consumes.

### Examples

Outback Automotive Workshop (Low Relative Humidity): In a dry outback region, such as an automotive workshop in Broken Hill, New South Wales, during summer, the relative humidity can be as low as 20%. An evaporative cooler used to cool the workshop would consume significantly more water due to the dry air's ability to absorb moisture during evaporation. For instance, a large cooler might use up to 20 liters of water per hour on a high fan speed setting to maintain a comfortable working environment for mechanics working on vehicle repairs.

Coastal City (High Relative Humidity): In a humid coastal city like Cairns, Queensland, where relative humidity often exceeds 80% during the wet season, an evaporative cooler would use less water. The air, already close to saturation, absorbs less moisture, reducing the evaporation rate. In this scenario, the same cooler might consume only 5 liters of water per hour on a similar fan speed setting, illustrating the effect of high humidity on reduced water usage.

Temperate Region (Seasonal Variation): In a temperate region like Adelaide, South Australia, relative humidity can vary significantly. On a dry summer day with 30% RH, an evaporative cooler might use 10 liters of water per hour to cool a medium-sized room. However, during a humid autumn day with 70% RH, the same cooler might require only 4 liters per hour, as the higher humidity limits the evaporation process.

These examples demonstrate how relative humidity in different Australian environments affects the water consumption of evaporative coolers, helping users anticipate water needs based on local climate conditions.

## OPERATION

### ASSEMBLY

- Remove all packaging items from the unit.
- Attach the wheels (if required).
- Fill the water reservoir. When filling, ensure to monitor the water level display. Be careful not to overfill the unit. Do not fill beyond MAX.
- Connect unit to electrical power source.



Use exclusively with clean tap water. The introduction of any chemicals or solvents may result in damage to the unit and could pose serious health risks, including injury or fatality.



Ensure that the electrical cable and connections are in safe, functional condition. Be sure to inspect for any damage.



On first use you may notice an odor. This is normal and should subside after some time of use.

### POSITIONING AND LOCATION

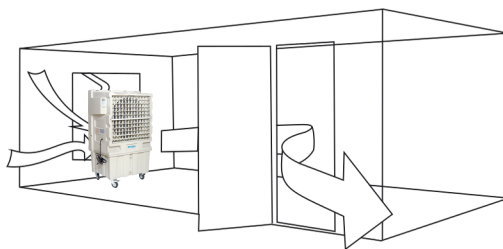
When using the evaporative cooler in an enclosed space, ensure there is adequate exhaust by opening windows, doors etc. Without an outlet to exhaust the air, humidity will build up in the enclosed space and the unit will not operate adequately.

Ensure that the unit maintains a minimum clearance of 1 meter on all sides. This is essential for the effective operation of the air intake and exhaust systems.

Ensure that the unit is positioned on a flat, level surface.



It is preferable to have an opening behind the unit to bring in fresh air and another opening across the room to exhaust and circulate the air.



### WATER RESERVOIR

When filling, ensure to monitor the water level display. Be careful not to overfill the unit. Do not fill beyond MAX.

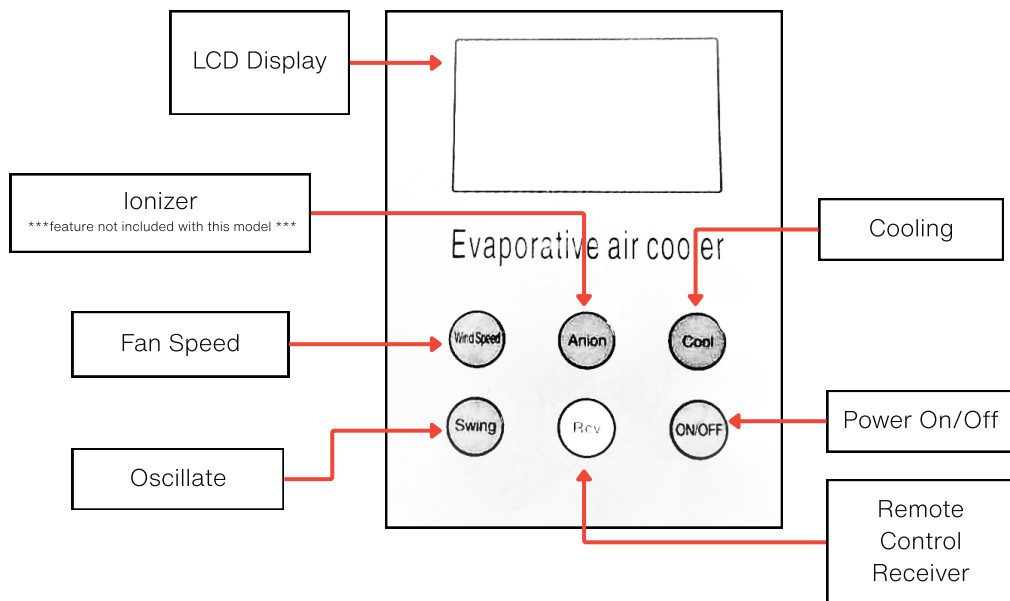
The unit is designed to operate as just a fan when there is insufficient water. This will not cause damage to the pump.



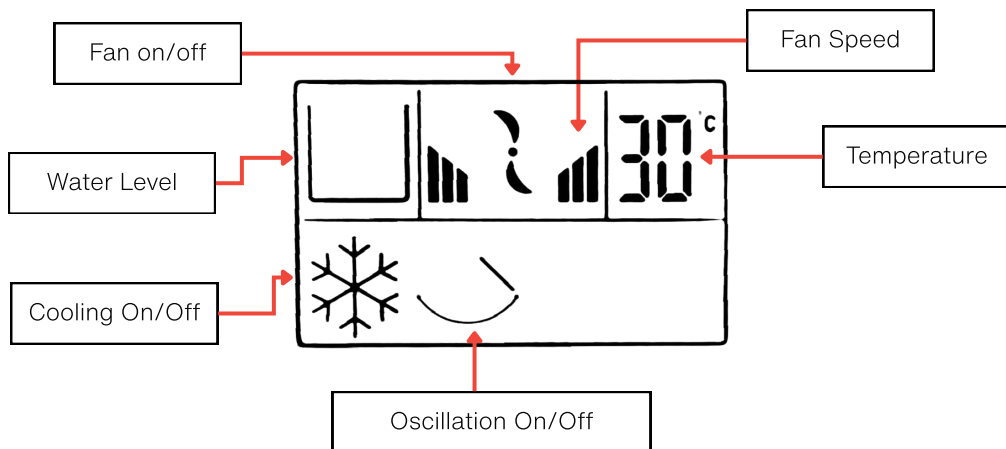
Use exclusively with clean tap water. The introduction of any chemicals or solvents may result in damage to the unit and could pose serious health risks, including injury or fatality.

## OPERATION

### CONTROL PANEL



### LCD PANEL FUNCTIONS



**OPERATION****WATER SUPPLY CONNECTION AND FLOAT VALVE MAINTENANCE**

Proper connection to the water supply and regular inspection of the float valve are critical to prevent overflows and ensure proper operation.

**Water Supply Connection:**

When connecting the unit to a water supply, avoid over-tightening the connection as this may cause the float valve to rotate out of position, which could cause the tank to overflow.

**Filling the Tank:**

Use a hose to fill the tank completely, ensuring the float valve has not been misadjusted during connection.

**Float Valve Inspection:**

Regularly inspect the float valve to confirm it is correctly positioned and functioning properly.

## CLEANING



Prior to cleaning, ensure the unit is disconnected from electrical power.



The introduction of any chemicals or solvents may result in damage to the unit and could pose serious health risks, including injury or fatality.

## FILTER

To remove the filter from the back of the unit, begin by unscrewing the screws located at the rear.

Next, clean the filter using a cloth or a soft-bristled brush with mild, soapy water. After cleaning, either pat the filter dry with a towel or allow it to air dry completely.

Finally, reinsert the filter into the unit and hand-tighten the screws to secure it in place.

## COOLING PADS

To remove the filter, first unscrew the screws located on the top bracket to detach the cooling pads.

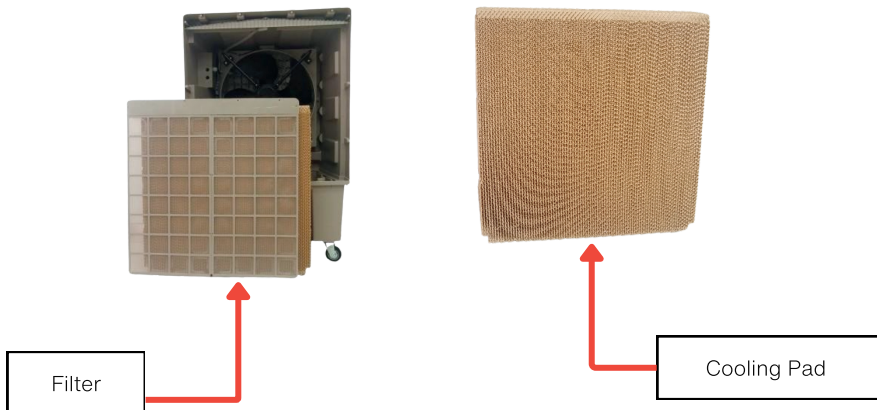
Clean the pads using only tap water, employing a hose set to low pressure.



High pressure water may damage the Cooling Pads



Do not use detergents or other chemicals when cleaning the Cooling Pads.



## CLEANING cont.

### EXTERIOR / BODY OF UNIT

Use mild soap and a soft cleaning cloth. Ensure to not apply excess water.

## SEASONAL MAINTENANCE & STORAGE

- Drain the tank and wipe clean.
- Clean the filter and cooler pads.
- Reassemble and run on FAN ONLY for 30 minutes to dry out the filter and cooler pads.

### Storage:

Store the unit in a dry, secure location until the next cooling season.

Consider purchasing an evaporative cooler storage cover to protect the unit. Visit TQ Brands or an authorized Australian stockist for more information.

## CLEANING THE WATER TANK AND COMPONENTS

Remove the cap from the Water Drainage Port to facilitate unobstructed drainage. Ensure that a bucket is positioned accordingly, or relocate the unit to an appropriate area prior to executing this step.

Regular cleaning of the water tank and its components prevents the buildup of contaminants, algae, and calcium deposits, ensuring efficient operation.

### Cleaning Process:

Use a soft cloth and a scrubbing brush to clean the tank thoroughly.

Pay special attention to stubborn areas with calcium buildup.

### Components to Inspect:

- **Waterfall Channels:** Ensure they are free of debris to maintain proper water flow.
- **Water Level Sensor:** Verify it is clean and unobstructed for accurate operation.
- **Water Pump:** Check for debris to maintain optimal pump performance.

### Preventing Biological Growth:

Add chlorine or bromine tablets to the tank to prevent algae and biological growth.

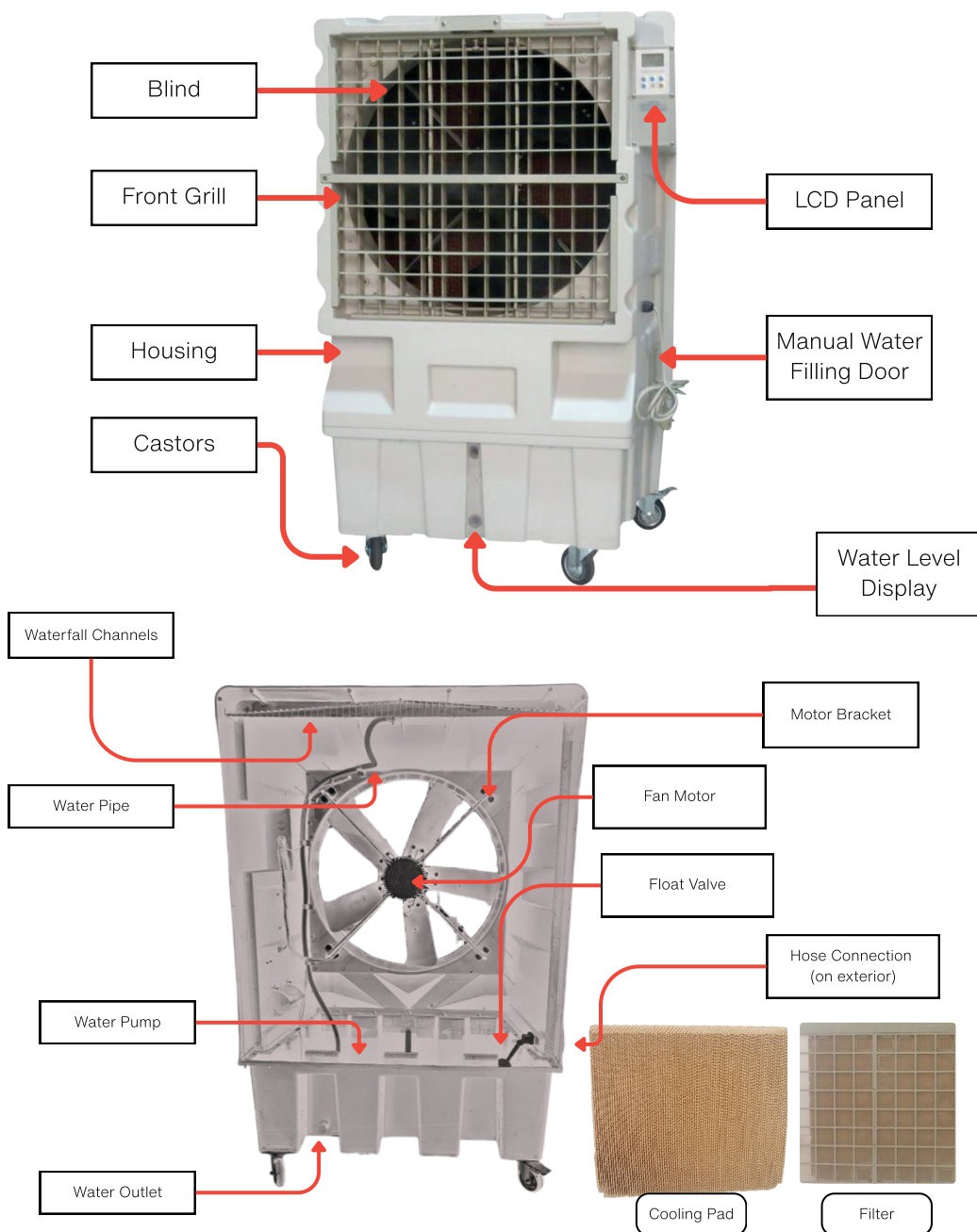


Confirm with the manufacturer that the chlorine or bromine tablets are suitable for use in evaporative coolers. The introduction of any chemicals or solvents may result in damage to the unit and could pose serious health risks, including injury or fatality.



Change the water each day, as stagnant water may acquire an unpleasant odour.

## PRODUCT DIAGRAM

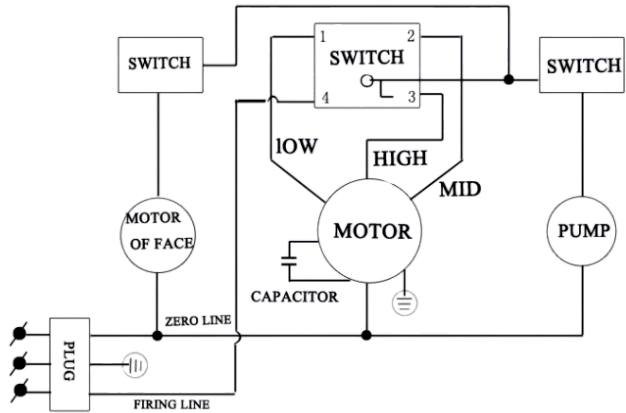


\*\*\* The image displayed may differ from the actual unit.

Made in China to TQB Brands Pty Ltd specifications  
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CIRCUIT DIAGRAM



Service and maintenance of electrical components must be performed by a qualified technician.



Ensure that the unit is disconnected from the power source before servicing any electrical components.

TECHNICAL SPECIFICATIONS

Parameter	Unit/s	Measurement
Output Airflow	m <sup>3</sup> / h	12,000
Voltage/Frequency	v / Hz	220-240 50/60
Motor Power	w	450
Water Consumption	L / h	8 - 10
Water Storage Capacity	L	60
Boundary Dimension	D x W x H (mm)	900 x 560 x 1430
Weight	Kg	45
Noise	dB (A)	≤70
Application Space	m <sup>2</sup>	70 - 90
Operating Current	A	2.1

## TROUBLESHOOTING GUIDE

Reported Fault	Reasons	Elimination Methods
LCD Display is Dim or Off	<ol style="list-style-type: none"> <li>1. The power source having no power</li> <li>2. Main Control Panel Failure</li> <li>3. Blowout of Fuses</li> <li>4. Panel Failure</li> </ol>	<ol style="list-style-type: none"> <li>1. Restore the Power and Check the Power Supply Circuit</li> <li>2. Replace the Main Control Panel</li> <li>3. Replace the Fuses</li> <li>4. Replace the Panel</li> </ol>
Control Panel Not Working	<ol style="list-style-type: none"> <li>1. Power Supply Surge.</li> <li>2. Environmental Disturbance</li> <li>3. Panel Failure</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn off the Power and Restart the Machine</li> <li>2. Clear up or Keep away from the Interference Source</li> <li>3. Replace the Panel</li> </ol>
No Air Output or Wind Speed Very Low	<ol style="list-style-type: none"> <li>1. Machine Shell Get Stuck</li> <li>2. Cooling Pads or Air Filter Net Stocking</li> <li>3. Machine Shell Deformed</li> <li>4. Panel Failure</li> </ol>	<ol style="list-style-type: none"> <li>1. Check whether the Motor is Damaged and whether the Fixed Hoop and the Fan Base are Deformed</li> <li>2. Clean or Replace the Cooling Pads or the Air Filter Net</li> <li>3. Replace the Machine Shell</li> <li>4. Replace the Main Control Panel</li> </ol>
Fan Motor Not Working	<ol style="list-style-type: none"> <li>1. Main Control Panel Damage</li> <li>2. Panel Failure</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace the Main Control Panel</li> <li>2. Replace the Panel</li> </ol>
Abnormal Sound	<ol style="list-style-type: none"> <li>1. Loose items or Debris Inside</li> <li>2. Fan is loose.</li> <li>3. Motor Failure</li> </ol>	<ol style="list-style-type: none"> <li>1. Take Down the Filter Net and Cooling Pads, Then Take out the Sundries</li> <li>2. Tighten the Fan</li> <li>3. Replace the Motor</li> </ol>
Water Leakage	<ol style="list-style-type: none"> <li>1. Water drainage port not closed.</li> <li>2. Water reservoir overfilled</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure port is fully closed</li> <li>2. Remove some water from reservoir until at appropriate level</li> </ol>

**WARRANTY****eQuipt Product Warranty Information**

All eQuipt products undergo thorough testing and quality assurance procedures prior to dispatch to ensure they are free from defects in materials and craftsmanship. A warranty is provided for a period of twelve months from the date of purchase. This warranty shall be void if the product is leased or hired out to third parties.

Warranty Claim Process

Should you experience any issues with your equipment, please return the complete product to your nearest authorized warranty repair agent or contact the TQB Brands Pty Ltd Warranty team at [warranty@tqbbrands.com.au](mailto:warranty@tqbbrands.com.au).

- If an inspection determines that the fault is due to defective materials or workmanship, repairs will be conducted at no cost to you.
- This warranty does not cover normal wear and tear or damages resulting from misuse, careless handling, unsafe practices, alterations, accidents, or repairs attempted by anyone other than an authorized TQB Brands Pty Ltd repair agent.

Important Notes

- This warranty supersedes any other expressed or implied guarantees, and modifications to its terms are not permitted.

Your TQB Brands Pty Ltd warranty is valid only if you can provide a dated receipt or invoice as proof of purchase within the 12-month period.

**Consumer Guarantee** Our goods come with a guarantee that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.





**SCAN QR CODE  
FOR CRITICAL  
MAINTENANCE  
INSTRUCTIONS TO  
MAINTAIN  
WARRANTY**

**DISCONNECT POWER CABLE PRIOR TO ANY MAINTENANCE**



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