

**LEGACY** SKU:BCO30  
**User Manual**



## LEGACY---INSTRUCTION

Thank you for purchasing our product. We trust it will give you comfort and convenience.

The cooler is a high-tech product, showing simplicity and outstanding reliability, due to its European design origin.

Its working principle is that water evaporation uses up the surrounding heat and causes the temperature to cool down.

When water is continuously distributed onto the cooling pad surface, the air being drawn through the pad causes the water to evaporate, making the air cooler and fresher.

The circulating water moves down to the reservoir, where it is again pumped up by the water pump. If the hose option is being used (supplied as standard), a float valve keeps the reservoir full continuously. If filled manually, the big 100 Litre capacity reservoir ensures hours of uninterrupted operation. There is a digital level indicator to quickly check the amount of water remaining.

## LEGACY---APPLICATIONS

This cooler is currently being used in many different industries and applied in many countries.

(Company offices, shops, hospitals, schools, workshops, workers dormitories, outdoor teahouse/coffee bars, restaurants, recreation facilities.)

### Manufacturing:

Textile, machinery, ceramic, refined chemical industries, metallurgy, hardware and leather industries.

### Industrial processing:

Electronics, clothes & shoe making, plastics, food industries, packaging.

### Others:

Indoor sports courts, bakeries, playgrounds, laundries, kitchens, vegetable markets, gymnasiums, underground parking lots, greenhouses, chicken and pig farms, gardens.

The list goes on...

## KEY FEATURES

Energy-saving & Environmentally-friendly

- Reliable operation
- Cools a large area
- Quiet running
- Adjustable speed
- Automatic swing function – standard.
- Full function remote controller.
- Large water tank for extended time between fills.
- No need for compressed air.
- No installation, no duct work required..
- Easy to use, easy to clean.
- Body is corrosion-proof plastic.
- Easy to maintain.
- Fully portable.
- Can be attached to standard garden hose.
- Time function for auto start or auto stop.

## LEGACY---TECHNICAL SPECIFICATION

|                                 |           |
|---------------------------------|-----------|
| MODEL                           | -LEGACY   |
| Max Airflow (CFM)               | 14,000    |
| Power Supply / Frequency (V/Hz) | 110V/60Hz |
| Power Consumption (W)           | 750       |
| Fan Style                       | Axial     |
| Water Consumption (L/H)         | 10-15     |
| Water Capacity (gallons)        | 32        |
| Dimension (L*W*H)(inches)       | 45*27*63  |
| Weight (lbs)                    | 132       |
| Effective Cooling Area (sqft)   | 4,000     |

## LEGACY---TECHNICAL FEATURE



New evaporative cooling pad, energy saving and environmentally friendly.



3 levels fan speed (low, medium & high).



Low noise.



Large capacity water tank for longer operating hours.



Swing function.



Large wheels and brake allow easy movement.



Time setting function.



Micro-computer program control, LCD panel.



More convenient with remote controller.

## LEGACY---IMPORTANT REMINDERS

**Please read the manual carefully before operating the cooler.**

### A)Operating conditions:

1-Temperature: 18 °C to 45 °C ; Water temperature: <45 °C .

2-Power supply must not exceed the required voltage (+/-) 5%.

3-Air supply must be largely free of dust or extra cleaning is required.

**B)Protect the power cable from vehicle or foot traffic. Connection to incorrect electric voltage, or faulty installation, will cause danger of electric shock.**

### C)Other tips for cooler use:

1-Keep doors and windows open to allow fresh air to enter, and treated air to exit, when cooler is operating.

2-Flashing red light on the control panel means water level in reservoir is low.

3-Rinse the reservoir with fresh water and clean prior to use after a period when the cooler has not been in operation.

4-Take care when moving the cooler, especially when it is full of water.

Pushing too hard will cause the cooler to overbalance and tip over, which may cause injury and will damage the cooler.

5-To prevent buildup of calcium and other biological organisms in the reservoir, regularly add chlorine/bromine tablets as per tablet manufacturer recommendation for evaporative cooler reservoirs.

## LEGACY HTROUBLE SHOOTING

| Malfunction  | Reason   | Remedy/Solution   |
|--|--|---|
| -Operating screen<br>Stays dark  | -No power<br>-Main control board failure<br>-Fuse is blown<br>-panel failure   | -Check unit is plugged in<br>-Change control board<br>-Change fuse<br>-Change panel   |
| -Display is normal<br>but without air<br>flow or the air speed is<br>too low | -The fan is jammed<br>-Cooling pad or dust<br>filter is blocked<br>-Fan is distorted<br>-Main control board<br>failure | -Check to ensure there<br>is nothing preventing<br>free rotationof the fan<br>-Clean the cooling pad<br>and dust filter<br>-Change the fan<br>-Change the main<br>control board |
| -Motor does not<br>Respond to control<br>Panel                               | -Main control board<br>Failure<br>-Panel failure   | -Change the main<br>control board<br>-Change panel  |
| -Water leaking<br>From drain valve   | -Drain valve is loose<br>-Dirt in valve  | -Tighten drain valve nut<br>-Clean drain valve  |
| -Air diffuser/swing<br>Function not working                                  | -Synchronous motor<br>is burnt out<br>-Crankshaft is broken  | -Change synchronous<br>motor<br>-Change crankshaft  |
| -Water drops splash<br>Out of the air diffuser                               | -Water pipe has come<br>loose  | -Check water pipe to top<br>of filter pad and reattach<br>or tighten as necessary   |

**NOTE:**This troubleshooting is for reference purposes only. If any technical assistance is needed, Please contact your distributor for service/repair

## LEGACY---MAINTENANCE

**For best results and long term operation, regular maintenance is essential.**

To ensure the cooler delivers fresh and clean air, regularly change the water when dirty, and clean both the dust filter and the cooling pad.

- 1) Remove the filter pad by unscrewing the 4 screws on the rear of the cooler. Then lift the pad and pull out at the bottom to release. To replace the pad, slide up into the slot under the top of the cooler, push in at the bottom; and allow to drop into the lower slot.
- 2) Clean the pad from the inner-side to out-side of pad (inner side is towards motor). Never use any liquid detergent. Never use pressurized water, as it may cause damage to the pad.
- 3) Unscrew the drainage lid to let dirty water flow out, then clean the water tank thoroughly with a soft cloth. Wash off dirt on the water sensor, water pump and the float valve. Rinse thoroughly.
- 4) Use mild soap and soft clean cloth when cleaning the cooler casing. Do not use any caustic chemical detergent that may cause damage to the surface of the cooler.
- 5) To prevent buildup of algae and other biological organisms in the reservoir, regularly add chlorine/bromine tablets as per tablet manufacturer recommendation for evaporative cooler reservoirs.

## LEGACY---KEY COMPONENTS



## LEGACY--OPERATION INSTRUCTION

### WARNING



1.All electrical repairs must only be carried out by a suitably qualified electrician, after all power is disconnected.

2.All the instructions state that the guard has to be removed for cleaning purpose, the instructions shall state the substance of following: ensure that the fan is switched off from the supply mains before removing the guard.

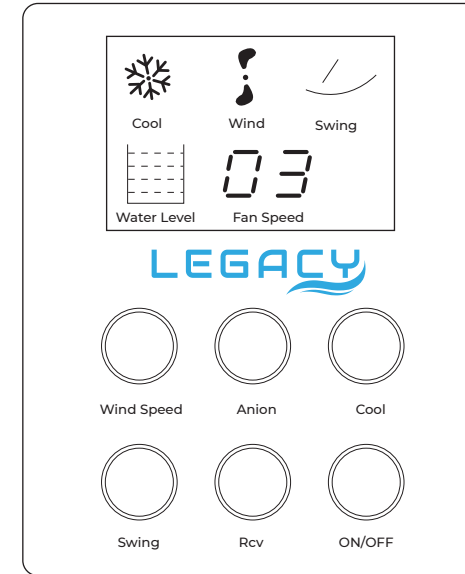
3.This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

4.If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

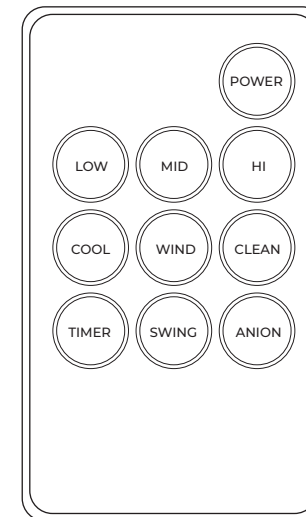
5.Water Pressure: 0.1 Mpa (+/-) 10%

| Keypad Instruction   | Comment  |
|----------------------|--|
| ON/OFF               | This turns the cooler on or off.   |
| COOL                 | This activates the cooling function. Note that there is a delay of one minute before the fan starts while the cooling pads wet up.   |
| SPEED                | Pressing SPEED will select low, medium or high fan speed.  |
| SWING                | This activates/deactivates swing function.   |
| TIMER Delayed Start  | This timer setting can be used to start the cooler after a certain number of hours delays. When only the green POWER light is on, press TIMER until the number of hours delay (1-24) is shown.   |
| TIMER Automatic Stop | When the cooler is already going, press timer to set the number of hours (1-24) until the machine will automatically switch off.   |
| WATER Supply         | Use only clean, fresh water.<br>Pour water into the water inlet on the right hand side of the unit (max 100L). Alternatively, attach a hose to the water inlet on the left side for automatic filling. Note a pressure reducing valve is recommended for high pressure water supplies. |

## LEGACY---KEY COMPONENTS



## LEGACY---REMOTE CONTROLLER



## READ AND UNDERSTAND ALL WARNINGS AND INSTRUCTIONS BEFORE USING THIS COOLER FANS !



### OPERATION WARNINGS

1. Not for use by children
2. Not for use by persons with reduced physical sensory or mental capabilities
3. Not for use by persons who have not reviewed the owner's manual and familiarized themselves with the operation of the product



### SAFE OPERATION

- Do not operate any evaporative cooler with a damaged cord or plug
- Do not run power cord under carpeting or cover with throwrugs, runners or similar coverings. Arrange power cord away from traffic areas to avoid tripping hazards.
- Read the evaporative cooler's instructions, owner's manual and labels thoroughly before use.
- Always unplug the power cord to the evaporative cooler before performing inspections or repairs.
- Always unplug the evaporative cooler during filling and cleaning.
- Do not step on or roll over power cord with heavy or sharp objects.
- Do not operate evaporative cooler unless all cool? evaporative media is securely in place.
- Test the GFCI receptacle or breaker monthly to ensure it is functioning properly.
- Remove the plug from the electrical receptacle by pulling on the plug, not the power cord.
- Operation near open flames or sparks is not recommended.
- If operating near open flame or sparks, ensure the pump is continuously running in order to saturate and wet cool evaporative media.
- When cleaning your evaporative cooler, ensure water does not get into the motor or electrical system to prevent damage.
- The use of extension cords with your evaporative cooler is not recommended . However , if the owner determines that his or her circumstance or intended use requires the use of an extension cord, the following requirements must be met:
  - Use properly grounded 14 AWG or greater for AWC360900 and AWC421100
  - Use properly grounded 12 AWG or greater for AWC481200
  - Extension cord must not exceed 50 feet(15.24 meters)in length
  - Extension cord must be properly grounded
- Evaporative coolers should not be modified in any way (other than repairs made by BLUECO replacement parts).
- If the evaporative cooler is damaged or malfunctions , do not continue to operate it. Refer to the warranty or FAQ sections of this owner's manual, please feel free to contact us.

### SAFE OPERATION

The BLUECO series utilizes a GFCI to help protect users against ground electrical faults, which prevent some fire and

electrical shock hazards. These devices are intended to trip at very low leakage currents. Blueco model AWC360900 uses an GFCI, which is built into the power cord and requires 5-20R(120V) electrical outlet

The GFCI on model AWC360900 will not automatically reset when the evaporative cooler is plugged into an electrical outlet; the "reset" button located on the GFCI device must be pressed each time the evaporative cooler is plugged in.

If the GFCI tripped and a simple "reset" will not work, please feel free to contact us

## STORAGE

1. Drain all water from the tank and wipe the tank clean, ensuring the evaporative media and tank the dry.
2. Roll up the power cord and secure it to ensure it will not be rolled over, tripped over or caught in equipment.
3. Cover the evaporative cooler completely to prevent dust build-up and store it in a dry area. This also helps to prevent damage to the evaporative media.

## TROUBLE-SHOOT

Turn off all power to the evaporative cooler before attempting to troubleshoot any of the following symptoms. For problems not listed, please contact Customer Service.

| SYMPTOM   | POSSIBLE CAUSES   | REMEDY   |
|---|---|--|
| Evaporative cooler fails to start or deliver air          | <ol style="list-style-type: none"> <li>1. No electricity to the evaporative cooler</li> <li>A. Circuit breaker tripped</li> <li>B. GFCI tripped</li> <li>C. Power unplugged or damaged</li> </ol> <ol style="list-style-type: none"> <li>2. Motor overheated and/or frozen</li> </ol> | <ol style="list-style-type: none"> <li>1. Check power</li> <li>A. Reset breaker*</li> <li>B. Reset GFCI**</li> <li>C. Plug in cord(s) or replace if damaged</li> <li>2. Replace motor</li> </ol> |
| Evaporative cooler starts, but air delivery is inadequate | <ol style="list-style-type: none"> <li>1. evaporative media side of the evaporative cooler is too close to a wall</li> <li>2. Fan motor failure</li> <li>3. Capacitor failure</li> </ol>  | <ol style="list-style-type: none"> <li>1. Move evaporative cooler at least three feet from the wall</li> <li>2. Replace fan motor</li> <li>3. Replace capacitor</li> </ol>                       |
| Water draining from the evaporative cooler                | <ol style="list-style-type: none"> <li>1. Seat in float valve leaking</li> <li>Drain plug not tight</li> </ol>  | <ol style="list-style-type: none"> <li>1. Replace float valve</li> <li>2. Tighten plug</li> </ol>  |

| SYMPTOM                                    | POSSIBLE CAUSES   | REMEDY   |
|--|---|--|
| Knocking, shaking, or rattling sounds      | <ol style="list-style-type: none"> <li>1. Loose parts</li> <li>2. Fan blade rubbing shroud</li> </ol>                               | <ol style="list-style-type: none"> <li>1. Check and tighten needed</li> <li>2. Inspect and adjust, or replace fan blade</li> </ol>   |
| Musty or unpleasant odor                   | <ol style="list-style-type: none"> <li>1. Stale or stagnant in tank</li> <li>2. evaporative media is mildewed or clogged</li> </ol> | <ol style="list-style-type: none"> <li>1. Move evaporative cooler at least three feet from the wall</li> <li>2. Replace fan motor</li> <li>3. Replace capacitor</li> </ol>                           |
| Water droplets in the discharge air stream | <ol style="list-style-type: none"> <li>1. Too much water delivered to evaporative media</li> <li>2. Leaking hose</li> </ol>         | <ol style="list-style-type: none"> <li>1. Make sure evaporative media is properly positioned in the frames and evaporative cooler is level</li> <li>2. Tighten connection or replace hose</li> </ol> |

### TECHNICAL SUPPORT

Technical support and services is available directly from your distributor.



## WARRANTY AND REPLACEMENT PARTS BLUECO EVAPORATIVE COOLER LIMITED WARRANTY

For one(1)year from date of purchase, BLUECO warrants any original component part or parts of its BLUECO portable evaporative coolers (the"Equipment")

that are found,upon examination by factory-authorized personnel, to be defective in material or workmanship.

Notwithstanding anything herein to the contrary, BLUECO warrants its housings for the full lifetime of the product to the extent they are found, upon examination

by factory-authorized personnel, to be defective in material or workmanship. The Lifetime

Warranty on product housings is void if the housing is found upon

examination by BLUECO to have been misused, abused or otherwise tampered with by

unqualified personnel. The Lifetime Warranty on product housings does

not cover ordinary wear and tear and is non-transferrable.

If the equipment and/or its original component parts, including product housings, develop a defect by this limited warranty within the applicable time periods

described above,the same may be repaired or replaced at the option of BLUECO.

All transportation charges for shipment of the Equipment and/or its component parts that are submitted for replacement or repair under this warranty must be

borne by the purchaser.

This warranty is void if: i)the Equipment and/or its component parts are found to have been misused,abused,repared by or tampered unqualified personnel;ii)

any of the product's component parts have been replaced with parts have been replaced with parts that were not authorized BLUECO replacement parts;iii)the

product has been modified in any way (other than repairs made by qualified individuals with

Blueco replacement parts)iv) the has not been appropriately

registered by its original purchaser;or v)the customer cannot show proof of purchase as the

product's original owner.

### Q. What assembly is required?

A None. BLUECO evaporative coolers are ready to use right out of the box.

### Q. How do I prepare my evaporative cooler for storage?

A Drain the evaporative cooler dry out the evaporative media, cover the evaporative cooler and store in a dry place

### Q. I just ran my evaporative cooler for the first time and there is an unpleasant odor

A. Our unique design and manufacturing technique, together with our superior materials, enable our products to perform efficiently within a wide range of conditions.

When installed correctly, our evaporative media products allow complete molecular evaporation of water ensuring pure, clean stream of air. When new, it is possible that a small amount of aromatic molecules may evaporate along with the water molecules,which could be detected as a slight smell. This scent lessens in time. Our product does not, in any way, allow harmful chemicals to be evaporated into the air stream.

### Q. My evaporative cooler is not putting out any cool air.

A. First, make sure the water source and electricity source are connected and working. Second, check to see if the evaporative media is damp. If not, adjust the water flow with the water adjustment valve.Third, make sure there is water in the tank. It should be allowed to fill before you turn the pump on.

### Q. What is the best environment to produce the most cool air?

A. For optimum performance, the temperature should be 85°F or higher and the relative humidity should be below 75%. However, BLUECO evaporative coolers will reduce the temperature in almost any environment, making it more comfortable.

### Q. How often should my Comfort evaporative media be replaced?

A. Depending on the quality of maintenance and frequency of use, Comfort evaporative media typically last up to five years. However, should you have any questions about the life of the media in your BLUECO portable evaporative cooler,please call our Customer Service department for more detailed information.

### Q. What is the difference between evaporative cooling and misting systems?

A. Misting systems spray a shower of water into the air that will collect on people, objects, equipment, floors, etc. BLUECO evaporative coolers use the process of evaporation to produce cooler air, but do not produce a mist.

**Q. Where can I buy replacement parts?**

A. Replacement parts may be purchased online at or from any Blueeco distributor. You may also contact BLUECO Customer Service department for additional assistance

**Q. What is the amount of moisture produced?**

A. An increase in humidity of approximately two to five percent is produced, depending on the temperature and humidity of the environment. This increase is not noticeable in a ventilated area where the air produced by the cooler is exhausted.

**Q. How long will the water supply last in the tank?**

A. With no direct water source available, the water will evaporate in a filled tank within two to 10 hours of operation, depending on the water capacity of the evaporative cooler, ambient conditions, temperature and humidity. A water source for refilling the tank is recommended by the manufacturer.

## HOW TO REPLACE YOUR COMFORT EVAPORATIVE MEDIA

**Step 1**

Be sure to unplug your BLUECO potable evaporative cooler before doing any maintenance Lock the casters to keep your evaporative cooler from moving while you are working. Remove the flap and Comfort evaporative media from the evaporative cooler. The flap is attached at the top of the evaporative cooler with screws. Remove the screws and set the flap aside.

**Step 2**

All Comfort evaporative media must be removed before accessing the inside of the evaporative cooler. Remove the center set of Comfort evaporative media first by grasping at the top and tilting it out and away from the evaporative cooler. While tilting the Comfort evaporative media out, lift it up and out of the evaporative cooler.

**Step 3**

Remove remaining Comfort evaporative media in the same manner. Set aside in a safe place to prevent damage while out of the evaporative cooler. Once all the Comfort evaporative media has been removed, you should have access to the inside of evaporative cooler and internal components.

**Step 4**

Replace your Comfort evaporative media by beginning on the outer edges and working towards the center. Pay close attention to the stickers on the evaporative media the arrow sticker should point up and inward. Replace evaporative media flap, securing it with screws.

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