

BLUECO

PRODUCT NAME:

VARIANT

SKU: BCO36



USER MANUAL

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

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Introduction

WHY ARE YOU SUPPOSED TO USE EVAPORATIVE COOLER IN YOUR WORKPLACE?

- * Less space is required
- * Low initial cost
- * Easy to operate
- * Less regular maintenance
- * High performance based on the optimal design and construction of the cooling pad
- * Long cooling pad durability - up to eight years service life
- * Plastic and stainless steel - no rust and corrosion
- * Multiple supply voltage application

220V~240V / 50~60Hz 110V~120V / 50~60Hz 100V / 50~60Hz

HOW DOES THE EVAPORATIVE COOLER WORK?

The evaporative cooler works in the similar way as human perspiration. Evaporation of perspiration keeps your body cool by lifting moisture away from your skin. Evaporation requires heat to change liquid water to water vapour and this heat is taken from your skin.

The same goes for the evaporative cooler .

Heat and moisture exchanges in the cooling pad system. The fan moves air that blows across the cooling pad and evaporates moisture. The heat is drawn from the pad to drop the air temperature and produce the cooling effect. The cooled air is then forced through a building or space , cooling the surroundings and pushing warm air out of the building openings. In addition, air velocity increases the cooling effect as it moves over the skin of people in the airflows path.

The evaporative cooler is portable and use the latest technology to provide large volumes of cool air, efficiently and inexpensively for cooling small-sized or medium-sized areas. It can accommodate larger areas by simply adding more units. With proper size and application, an evaporative cooler can lower the effective air temperature drop of up to 20°.

2. Safety Recommendations

READ AND SAVE THESE INSTRUCTIONS!

- * This is an electric device with moving components. There is the possibility of fire, electric shock, or injury. Ensure all the safety recommendations are adhered to in order to minimize this risk.
- * Disconnect all power and unplug the unit before you inspect, clean or perform maintenance on the components of the unit.
- * Never reach into the unit when it is running; you could be injured by the rotating fan blades.
- * The frame edges may be sharp. Keep your hands away from them to avoid potential injury. Be careful and wear gloves when you reach under the frame to inspect the PVC pipes and mesh socks.
- * A GFCI (Ground Fault Circuit Interrupter) is recommended for use with this product.

The safety mesh should not be removed during operation.

3. Produce Survey

The evaporative cooler is a completely self-contained, portable unit, capable of delivering the air at 8-12m/s with a temperature drop of up to 20°. The unit is composed of:

- * Level-controlled water supply system
- * Cooling pad assembly
- * Direct motor drive fan
- * Frame and housing

The water tank is made of high impact poly and can hold approximately 40 gallons water at normal operating level (about 6" deep).

A float-operated valve automatically maintains proper water level when the unit is connected to a water supply.

The water tank rests on, and is fixed to, a rugged steel support frame. Four casters (two with brakes, two without brakes) are attached to the underside of the steel frame and are fully adjustable.

A pump draws water from the tank and discharges it through the vinyl hose to the PVC pipes located above the cooling pad. The PVC pipes distribute water onto the top of the cooling pad and get it saturated. Excess water drips back into the tank through the holes in the cooling pad support channels.

The cooling pad sits in support channels and is held in place by the tray and pad support plate.

4. Technical Data

Specification	Model	BCO36
Air flow (m ³ /h)		0-23700
Motor control		EC/ Direct drive
Motor output power (W)		750
Speed		0-100
Tank capacity (G)		60
Cooling Capacity (SqFt)		5,000
Dimension (in)		H71 W63 D30
G.W (lbs)		210

5. Unit Placement

Precautions for use

The unit(s) should be placed at one end of the building or workplace, and an appropriate exhaust fan should be at the opposite end to pull the cool air from the unit and discharge the warm air out of the building or workplace.

Try to get all the airflow in the same direction. Do not direct other fans against the unit that would counter the airflow and stop the cooling effect.

Obstructing the airflow from the unit severely reduces the cooling effect.

Use as many exhaust fans as possible to create a natural draft through the building. This will enhance the performance.

Unpacking and initial setup

The Evaporative Cooler is shipped upright on a pallet. The unit is fully assembled and ready for service except for thoroughly cleaning manufacturing dust from the cooling pad before running it for the first time.

CAUTION: Be careful when you move the unit. Avoid jarring or dropping the unit to prevent damage to the water tank.

- a). Cut the straps that wrap the unit.
- b). Remove the shrink wrap.
- c). Ensure the switch is OFF and the unit remains unplugged.
- d). Remove the pad support plate from the back of the unit.

e). Remove the cooling pad from the unit. Pull pad out and then lift out of drain rail. With one pad out, the rest can be easily removed in the same way.

f). Inspect the entire unit for shipping damage.

Note: If you notice any damage to your unit, contact BLUECO support immediately.



g). Thoroughly clean all four cooling pad sections using a garden hose.

Note: Do not use cleaning fluids or other chemicals to clean the pad as they can cause foaming during operation. Use only clean water.

h). Remove the drain cap from the underside and rinse with a hose to flush any manufacturing dust, junk etc. from the unit.

i). Reposition the drain cap.

j). Reposition the pad.

k). Proceed to "Normal Setup".

6. Water Supply System



The water can be supplied continuously with an ordinary garden hose by attaching it to the supplied hose adapter of the filling joint, or it can be filled up manually.

With a continuous water supply connected, the float valve in the tank rises and falls with the water level. A linkage attaches the float to the shutoff valve of the filling joint. As the water level rises up to normal operating level (about 5" deep), the float valve shuts off the water supply. The float valve reopens to maintain a normal operating level when the water level drops.

After unplugging the unit, the water tank can also be manually filled with a hose or bucket. Simply remove any of the pad sections and place the hose, or pour the water, directly into the tank. When you fill up the tank with water manually, it can be filled up to a higher level, therefore please make sure the filling operation shall be watched to avoid overfilling and flooding.

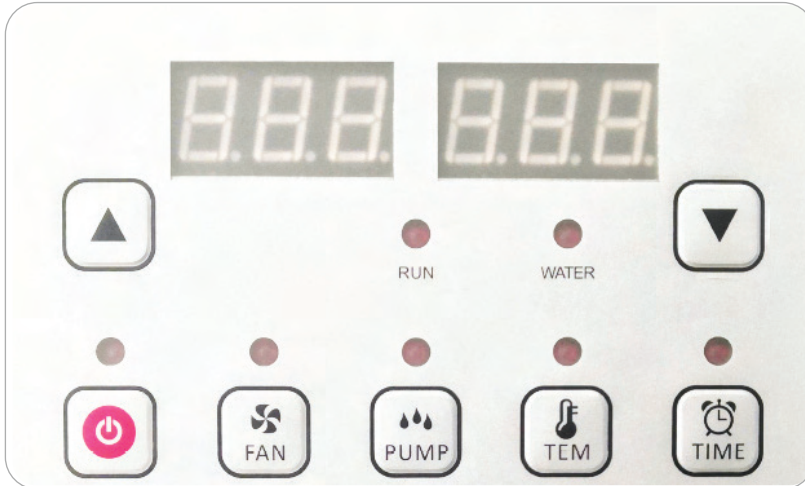
Turn "water flow" anti-clockwise can increase air humidity.

Turn "water flow" clockwise can decrease air humidity.

Note: Water damage due to overfilling is not covered by the warranty.

Note: When you run the unit and manually fill it, check the water level frequently to avoid dry run. Operating the pump without water will damage it or reduce its service life. This is not covered by the warranty. The cooling effect would also stop if the pad is dry.

7.Control, Startup And Shutdown



General information about control panel



Power

Press this button to get the cooler on /off. The LED lights are turned on, DS displays 888 888. One second later, the power light and the running light will illuminate , the DS1 displays FAn, and the DS2 displays the last percent of revolutions per minute. The default percent of revolutions per minute is 50.



Fan

Press this button to run/stop the fan, press ▲ and ▼ button to adjust the fan speed. The lowest value is 0,the maximum value is 100 which can be adjusted.

Hold down fan button more than three seconds to enter the established, regulated cycle mode in which the fan speed turns down from 100 % to 40% of the full speed at 1% / second, then turns up from 40 % to 100% of the full speed at 1 % / second and all over again.



Pump

Press this button to run/stop the pump. It is necessary to check if the the water level has reached the lowest given requirement before you run the pump. When the water level is low , the water light is turned on; When the water level is normal, press the pump button to run the pump with the pump light on.



Temperature

Press this button to set the temperature, the DS1 (the left one) displays the current temperature, DS2 (the right one) displays the preset temperature, press ▲ and ▼ to adjust the preset temperature.

The temperature range is 10°C-40°C.



Time

Press this button to set the running time. press ⏪ and ⏩ to adjust the time , the default preset time is 60 minutes. The minimum set time is 5 minutes, the maximum time is 600 minutes.

NORMAL STARTUP

NOTE:

Some splattering may occur until the pad is conditioned (may take several uses).

- a). Move the unit to the place where it will be used. Do not attempt to lift or move the unit once it is filled up as damage to the unit or a large spill may occur.
- b). When you decide where to place the unit, make sure there are no obstructions in the way that would disrupt or block the airflow. Make sure the unit is level at all times. Keep the unit at least three feet away from walls or other obstructions that will interfere with airflow into the unit.
- c). Check to ensure the drain cap is in place and secure.
- d). Connect the garden hose to the brass hose adapter. Check if there is a washer in the hose connection's female end.
- e). Open the water supply valve and check if the water enters the tank through the float valve by removing one cooling pad. Allow the unit to fill and check if the float valve can completely shut off the water.
- f). If you are manually filling, remove one or more cooling pad and fill the tank with a bucket or hose.
- g). Visually monitor the filling operation to avoid overflowing and causing spill damage.
- h). Plug the unit into an outlet.
- i). Run the unit from the low airflow to high airflow if more cooling desired.

CAUTION: Do not run the pump without water in the tank otherwise you would damage the pump. Running the pump dry will void the warranty on the pump.

NORMAL SHUTDOWN

- a). Press UP button to the High Vent position, and let the unit run until the cooling pad is dry. This will maximize the service life of the pad.
- b). Press the power button, Unplug the unit if you are going to clean the pad or inspect the components.
- c). Shut off the water supply.
- d). Drain the tank if you are going to clean it or store it. It can be done two ways, remove drain cap from the tank or attach garden hose to hose fitting labeled drain. Place valve handle in the drain position and put the switch to pump only.

Note:

Monitor water level and shut pump off when the unit is empty.

Do not pump dry.

- e). If the unit will be stored for the season, ensure the cooling pad is completely dry, and then wrap the unit in plastic bags or store it in a clean place where it will not be damaged or get dirty. The unit should be cleaned thoroughly before storing.

8. Regular Cleaning

The frequency of cleaning the unit depends on the environment in which it is used. The more dirty the environment, the more often it needs cleaning. In most cases the unit will need to be cleaned weekly.

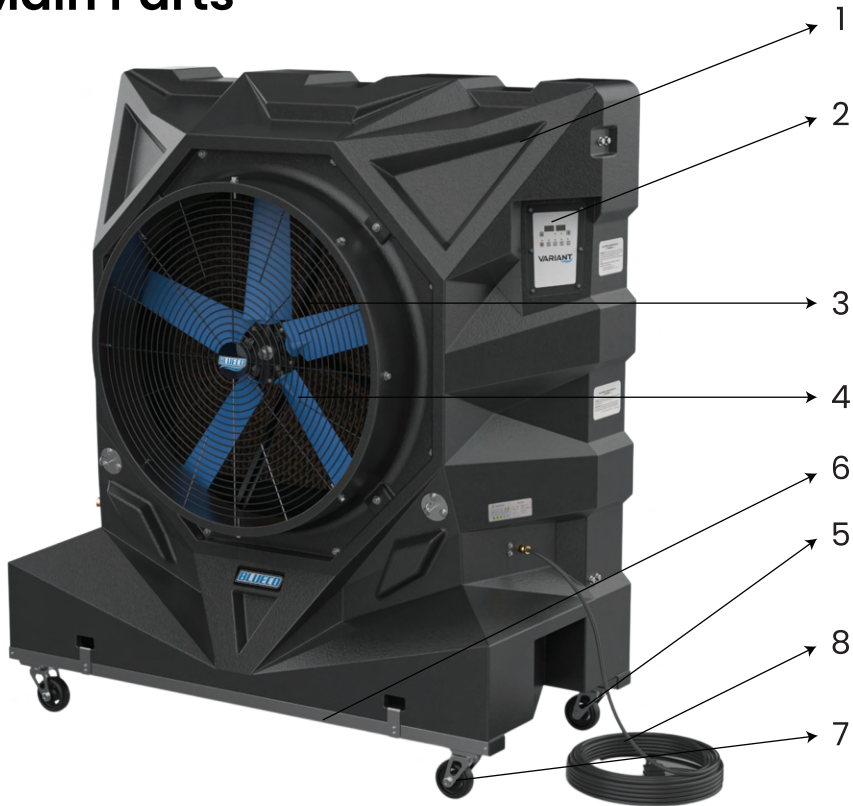
Caution:

The pad should be dry when you stop using the unit seasonally, as it is much stronger when it is dry than when it is wet and less susceptible to damage. If it is wet, run the unit in the high airflow until it becomes dry.

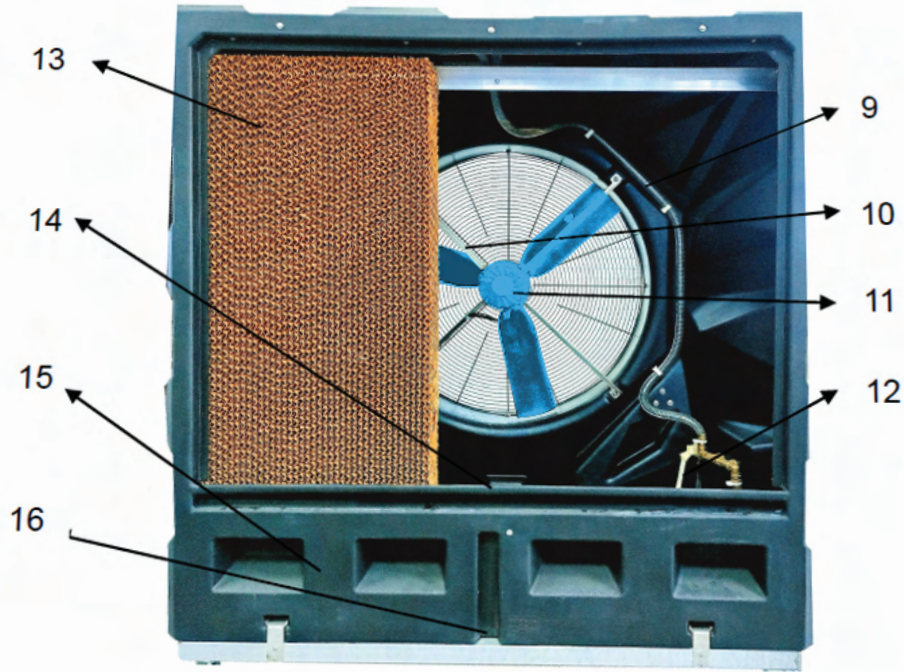
Note:

With proper use and regular cleaning, the cooling pad would last about two seasons. However, it would be easily damaged if you keep it wet and dirty. Refer to page 15 for recommended conditioning and cleaning chemicals.

9. Main Parts



Item	Description
1	Housing
2	Controller
3	Safety mesh
4	Impeller
5	Cable
6	Base
7	Front caster
8	Rear caster (with brakes)



Item	Description
9	Water supply assembly
10	Motor bracket
11	Motor
12	Water level floating ball valve
13	Cooling pad
14	Pump
15	Water tank
16	Drainage valve (under the water tank)

10. FAQ

THE COOLING PAD IS NOT WET ENOUGH TO COOL THE AIR

- a). Make sure there is plenty of water in the tank.
- b). Check if the control switch is in the proper position.
- c). Make sure the pump is running.
- d). Pump is running but no water:
 - Ensure hose is connected.
 - Ensure the impeller on the inside of the pump turns freely.
- e). Pump is not running:
 - Check the cable from pump to pump selector switch by a certified electrician.
 - If nothing wrong with the cable, replace the pump.

FOAMING

Foaming is generally caused by a dirty water supply or contaminated water in the tank.

- a). If foaming occurs, turn off the unit, drain it and flush the tank thoroughly with clean water.
- b). Clean the pad and do not use any kind of chemical cleaners. Refer to the "Regular Cleaning" section for proper cleaning procedure.
- c). Reassemble, refill and restart.

BLOCKAGE OR OBSTRUCTIONS (no water flow or less)

Depending on the cleanliness of the water and the amount of dirt, dust, etc. in the supply air, you may have to clean the PVC pipes from time to time. Your own experience will dictate the frequency.

- a). Turn off the unit and unplug it.
- b). Remove the pad.
- c). Locate the two PVC pipes in the top housing. Each PVC pipe is secured to an elbow connector by a hose. Remove this clamp from both PVC pipes.

- d). Grip the opposite end of each PVC pipe with pliers and gently twist it out of its "Y" connector.
- e). Direct a jet of water at the series of outlet holes in the PVC pipes to blow them clear.
- f). Direct the water nozzle into the end of each pipe and blow them clear. Inspect them for cleanliness and repeat if necessary.
- g). Reposition the PVC pipes carefully to ensure the water outlet holes are facing inwards at 90° towards deflector plate.

Note: Ensure you push the PVC pipes fully onto the elbow, and attach hose clamps.

ODOR CONTROL

Water source needs to be of good quality and regular maintenance is imperative.

SPLATTERING

Adjust PVC ball valve to get more or less water.

TANK LEAKING

Check for cracks on the tank. If a crack is found, repair it by using a Repair Kit.

Make sure the drain cap is installed and hand tightened (the drain cap must have gasket inside).

11. Warranty

We warrant to the original purchaser that our products which prove to be defective in material or workmanship within one year (unless otherwise specified) from date of purchase will be repaired or replaced at the option of us.

What is Not Covered By The Warranty

The warranty does not cover:

1. Installations not made in accordance with installation instructions;
2. Where the operation of the product varies substantially from our operating instructions;
3. Malfunctions resulting from misuse, negligence, alteration, accident or lack of performance of required maintenance;
4. Loss of time, inconvenience, loss of use of the product, or other consequential damages.

The above constitutes our sole warranty.

THERE IS NO WARRANTY OF MERCHANTABILITY AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.

Products with warranty periods that exceed our standard one-year warranty are listed below. These products are subject to all other provisions as stated in our Warranty.

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