Owner's Manual and Instructions

L.B.WHITE®

PC-31

PORTABLE EVAPORATIVE COOLER

View this manual online at www.lbwhite.com

Attention

Do not return this item to the place of purchase unless instructed to do so by customer support

If you should find any missing parts, any loose, or dislodged items or have any questions please call us first. We have parts and expert support that can help you. We value your business and are here to help. We can ship any replacement or warranty parts to you quickly so your mobile cooler can keep you cool.

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Intertek
5001002
Conforms to UL STD.507
Certified to CSA STD.C22.2 No.113

Evaporative cooling works on the principle of heat absorption by moisture evaporation. Simply put, heat is removed from the air as water evaporates. You feel this principle in action when you step out of a swimming pool or shower and feel cool as water evaporates from the surface of your skin. Your evaporative cooler works on the same principle. The fan pulls hot outside air through the wet cooling pads, where the air is cooled by evaporation and then discharged from the cooler.

SEE ASSEMBLY INSTRUCTIONS INSIDE

SCAN THIS
with your smartphone or visit http://www.lbwhite.com to view.

** Requires an app like QR Droid for Android or for iPhone*

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Key Operational Points

1. Your cooler must be positioned in front of an open window or door if it is to operate effectively.

2. Always ensure that there is another open window or door through which the air can exhaust from the room.

3. Ensure the filter is kept clean throughout the summer season.

4. At the end of each day run your cooler on FAN ONLY for 30 minutes to dry out the filter.

5. Prior to putting your cooler away for winter, always:

   a. Drain the tank and wipe out clean.

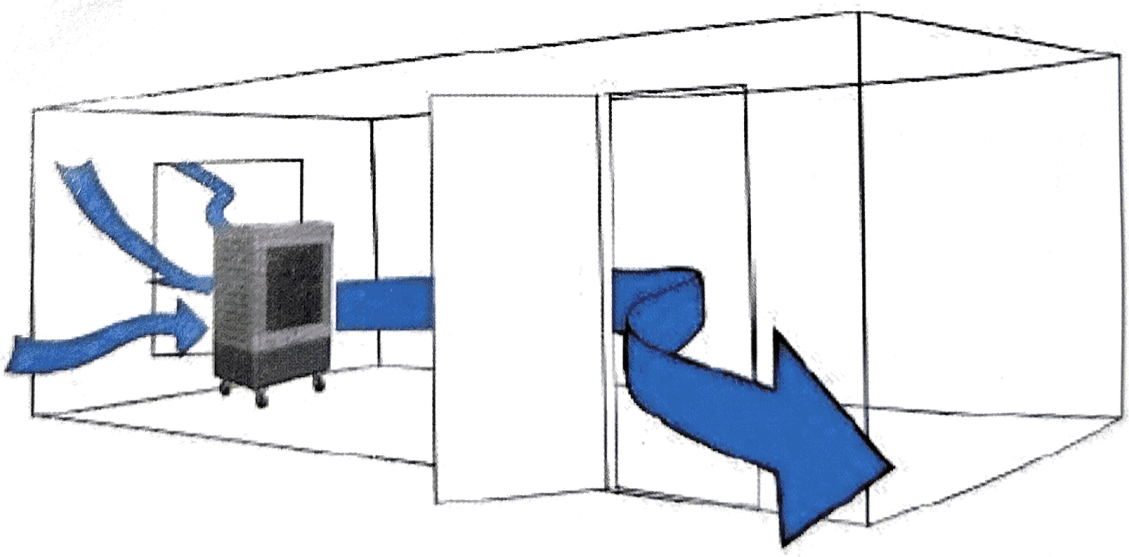
   b. Clean the filter

   c. Reassemble and run on FAN ONLY for 30 minutes to dry out the filter.

Location! Location! Location!

Having completed assembly of your cooler, position the unit with its back to an open window or door. This will allow fresh air to be drawn through the cooler and exhausted from the room. Constant air change is essential to ensure the fresh air benefit from evaporative air cooling.

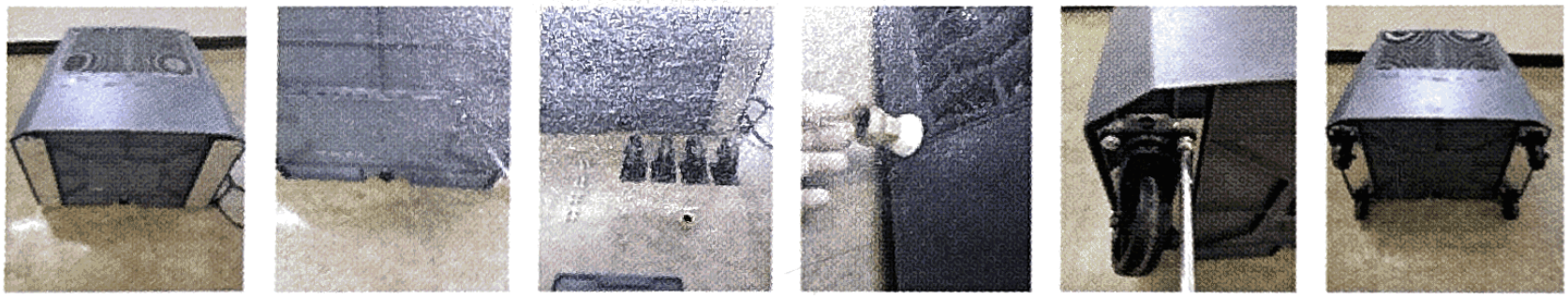
This cooler is equipped with an automatic shut off feature for the pump if the unit runs out of water.



Safety Rules

1. Read and follow all instructions, cautions, and warnings. Failure to do so could result in personal injury, death or property damage.
2. Unit must be in the OFF position and UNPLUGGED from power receptacle before performing any maintenance.
3. Make sure the electrical power source conforms to the requirement of the evaporative cooler(s) as well as local codes. The power requirement for the PC-31 is 115v, 2.8 amps.
4. To reduce the risk of fire or electrical shock, do not expose electrical connections to water.
5. Do not touch electrically live components.
6. Adequate ventilation is required. When used in enclosed spaces, it is recommended to open a door or window to draw fresh air in.
7. Assure that all power cords do not come in contact with any sharp edges, hot surfaces or chemicals. Immediately replace any damaged parts.

Starting and using the cooler



Cooler Setup and Operation

PC-31 is pre-assembled and ready to operate. Simply remove the packaging and then carefully remove the unit from the box. Install Casters. Lock the 2 locking wheels before filling and turning on fan to keep the cooler from moving from the air velocity.

NOTICE: the cooling pad will have a slight odor when it is new. This is normal. It will dissipate after a period of time depending on the use time. Draining the tank often during the break-in period will help speed this up. (See draining tank in section 5)

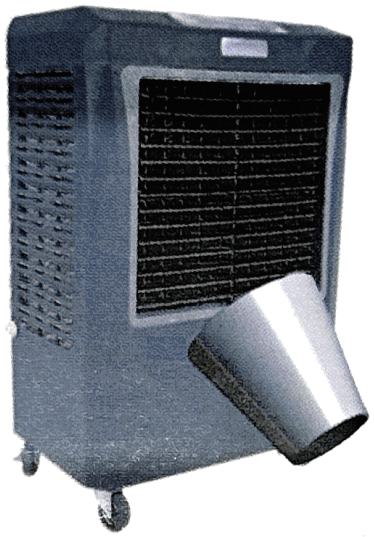
Filling Cooler or Connecting to Water Supply
Move the cooler to an area where it can be filled

Manual fill method
The cooler can be filled via the front fill door by hose or bucket. Using the water fill indicator to monitor water level, simply depress the fill door and the spring lock will release and open it. To close, simply push it closed and locked.

Auto fill connections

Connect to a water supply using a garden hose or coil hose, or a direct water line. Simply attach hose adaptor (supplied with cooler) to the float valve nipple protruding from cooler. Verify water tight connections by visually examining the hose connection

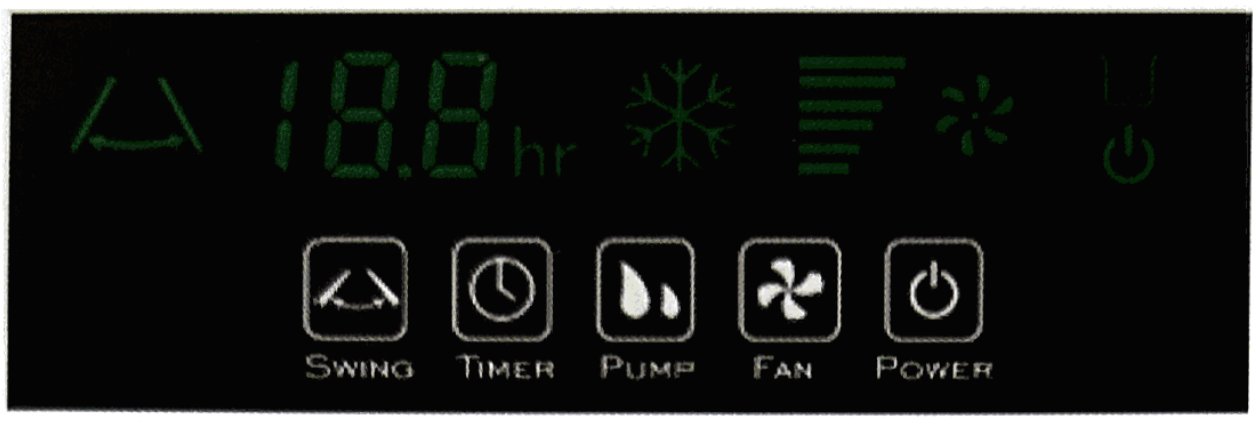
CAUTION: Water inlet pressure should be limited to a maximum 50 PSI. If valve is overcome, install a pressure reducer (25 PSI) on nipple first. (It can be obtained at hardware stores in irrigation section.) Hose bib needs only be opened slightly to supply water to float valve and the cooler only needs to be about half filled when in auto fill configuration. The float is already set to that level.



Connecting to a power supply

g the cooler into any 115 volt power supply. It is permissible to use extension cords when needed. If there is no power to the unit, reset the GFCI.

Using the Control Switches



Swing Button - Press to operate oscillation motor to swing the air left to right.

Timer Button Lit when engaged - Press to select the desired timer selection, cooler will stop running all features when selected time expires.

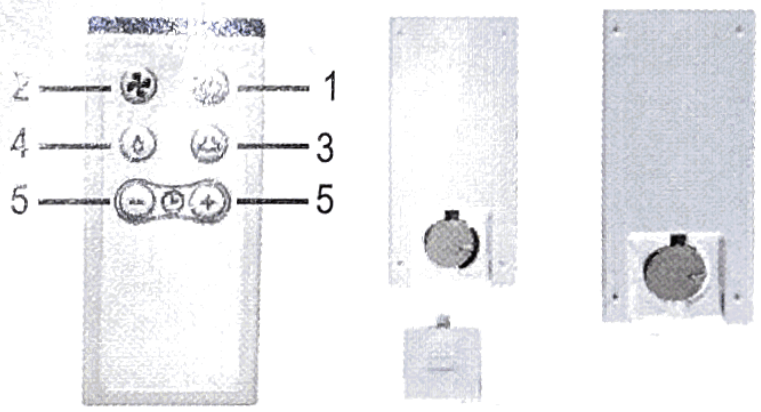
Pump Button - Pump will function continually when this light is lit.

Fan Button - Fan: Low / Medium / High

Power Button – If Green light, all functions will be able to operate. Red light, all control functions will be off. Main power control. When the power is turned to the "OFF" position, the other controls will not work.

Remote Control

The remote-control functions:
1) Power
2) Fan speed
3) Swing
4) Pump
5) Timer



To replace the battery, slide the back panel of the remote-control down to release it. Remove old battery and replace with CR 2025 round battery.

Cooler Maintenance

⚠ WARNING
DO NOT remove back panel with cooler running.

For best operation and long useful life the following maintenance and cleaning procedures should be followed.

Draining the Cooler Tank

Unscrew drain cap from drain assemble and drain away water. You may tip the unit carefully to the drain side to help drain all the water out.

Removal and Replacement of Cooling Pad

The cooling pads are made from a special resin impregnated craft paper specially designed for evaporative cooling. They will last many years if maintained properly and water quality is maintained. It is not necessary to remove the pads to clean them.

Inspect the pads for deposits of calcium on the air entering side. If the flute cells are clogged or the pad is very heavy it may be time to change the media. New cooling pad can be purchased where you bought the cooler. Follow these steps for replacing the pads.

1. With access panel removed, simply pull off the pad retainer disc from the pad pin. Older models may have a pushed on pin that will need to be pulled away using pliers to grasp disc and pull away. Be careful not to break the pin although the new pads will come with new pins and disc. The newer models will have a threaded disc that will unscrew from the pin

2. With disc removed, remove the pins from the pads and carefully remove pads from the fixed side mounting frame. Then do the same for the back panel or panels.

3. Cooling pads are made with a 45/45 flute and can be installed either side to the frame. Just make sure the distribution pad that is fixed to the top of the new media pad is at the top. This allows water get onto the top of the pad evenly. The installation of the pads is opposite of the removal, install the pad, insert pins and install the retaining disc.

4. Reinstall the back panel and you are ready to use the cooler again.

Troubleshooting Guide

PROBLEM	CAUSE / REMEDY
Cooler fails to work at all	Check that the unit is plugged properly.
	Check the POWER switch, push it to "ON".
	The TIMER switch is "OFF", turn it to "ON".
	Make sure cooler is not plugged into a tripped GFIC outlet. If so, reset GFCI or move to non GFCI outlet.
Cooler does not pump	Pump is not activated. Push the PUMP switch to "ON".
	Water level is low. Fill with water and make sure pump is activated.
	Be sure the pump and pump hose is clear of debris.
	Pump may be defective. Replace pump.
Fan does not operate	Check that unit is plugged properly.
	Check the POWER switch, push it to "ON".
	If connected to a GFCI outlet, check if it is tripped.
	Troubleshoot rotary switch.
	Replace motor capacitor.
Louver does not operate	Louver does not move. Louver switch. Position to "ON".
	Check Oscillator motor for proper placement and operation.
Water leakage	Check the cap of the drain assembly, make sure it tightened.
	Inspect tank for cracks or breakage
	Make sure cooler is level.
	Check media pads for buildup allowing water out on outside of pad frame -- change media if needed.
	If water is coming out fan, check for leaks in water distribution hoses and/or leaks at hose connections to spreaders
	Be sure there is at least 4 inches of space for rear panel free from wall or other obstruction. This could make the side panels release water to airstream due to increased air velocity through the sides.
	Spreaders may have scale buildup allowing water to pool and spill over into airstream---Clean spreaders.