



# USER MANUAL



## PEC-A-1300-1M PORTABLE EVAPORATIVE COOLER

Thank you for choosing Dial.  
Please read this User Manual before using this Portable Evaporative Cooler.  
Retain the manual for future reference.

**Attention:** If you are experiencing difficulty with your portable evaporative cooler, do not return it to the place of purchase. Contact Dial Manufacturing for help or disposition.

Dial Manufacturing, Inc.  
430 North 47<sup>th</sup> Avenue, Phoenix, AZ 85043  
1-800-350-DIAL | [customerservice@dialmfg.com](mailto:customerservice@dialmfg.com)

# CONTENTS

<b>SAFETY INSTRUCTIONS</b>	<b>1</b>
<b>APPLICATIONS, FEATURES, SPECIFICATIONS</b>	<b>2</b>
<b>HOW EVAPORATIVE AIR COOLERS WORK</b>	<b>3</b>
<b>EXTERIOR PARTS OF THE COOLER</b>	<b>4</b>
<b>UNPACKING AND INSTALLING THE CASTERS</b>	<b>4</b>
<b>OPERATING THE EVAPORATIVE AIR COOLER</b>	<b>5</b>
<b>MAINTENANCE</b>	<b>6</b>
<b>TROUBLESHOOTING</b>	<b>7</b>
<b>WARRANTY POLICY</b>	<b>8</b>
<b>DAMAGED SHIPMENT</b>	<b>8</b>
<b>PRODUCT RETURN</b>	<b>8</b>
<b>REPLACEMENT PARTS</b>	<b>9</b>

## **SAFETY INSTRUCTIONS**

- Read the instructions thoroughly before operating the unit.
- Always place the unit on a dry, flat and stable surface and apply brakes on the caster wheels.
- Do not move or tilt the unit while the water tank is full.
- The outdoor use of this portable evaporative cooler must be supervised.
- The unit is not designed to be exposed to wet conditions such as rain.
- This unit can only be connected to a 120V, 60Hz, Single-Phase electrical outlet.
- This evaporative cooler has been tested and is safe to use. However, as with the use of any electrical appliance, take care when using the unit.
- Do not connect the unit to an extension cord for power supply.
- Never operate this appliance if the cord or plug is damaged.
- A damaged power cord should be replaced by the manufacturer or a qualified electrician.
- This evaporative cooler is not to be operated by persons (including children) without experience and knowledge of using the cooler.
- Do not leave children near the evaporative cooler unsupervised.
- Do not touch any moving or rotating parts inside the unit.
- Never insert fingers or any other objects through the louver or guard.
- The operation of the evaporative cooler should not be left unattended for an extended period.
- Disconnect the evaporative cooler from the electrical outlet before cleaning, maintaining or servicing the unit.
- Do not clean the unit by spraying it or immersing it in water. Use a moist cloth to wipe and clean the exterior of the unit. Use caution when wiping the Control Panel; make sure no water enters the control panel.
- Any service other than regular cleaning or filter replacement should be performed by an authorised service personnel. Failure to comply may void the warranty of the unit.
- Do not use the evaporative cooler for any purpose other than its intended use.
- Never use the plug as a switch to turn on or off the unit. Use the provided ON/OFF switch located on the control panel.
- Use this evaporative cooler in a well ventilated area and not in an enclosed area.
- Do not use this unit in environments with flammable and explosive gases.
- Avoid placing the unit in direct sunlight for an extended period.

## ENERGY SAVING AND UNIT SAFETY PROTECTION TIPS

- Operate the unit at a location that has cross ventilation. Evaporative air coolers use evaporation to achieve a natural cooling effect which requires cross ventilation for maximum efficiency.
- To ensure the evaporative cooler operates efficiently, do not block or restrict the air-intake through the inlet grills on the back, or airflow out of the louver in front.
- For maximum performance, do not place the back of the unit within 20 inches of a wall or other objects.
- When the unit is in operation, the water in the water tank must not exceed the **MAX** level and must not fall below **MIN** level.
- This unit will lose efficiency if the relative humidity in the room exceeds 60%.
- The ambient operating temperature range is from 41°F to 125°F.
- This evaporative cooler may operate as a humidifier in low temperature environment using warm water (not hot water) instead of cool water.

## APPLICATIONS

- Alternative and economical spot cooling solution for areas and spaces which cannot be sealed or traditionally air conditioned.
- Dial® Portable Evaporative Cooler applications include residential patio, garage, workshop, home, and RV.

## FEATURES

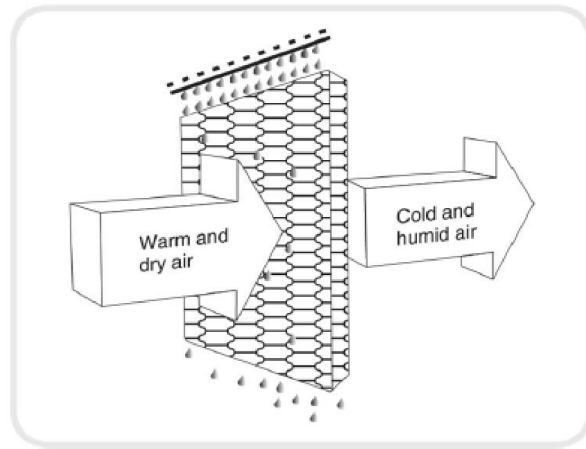
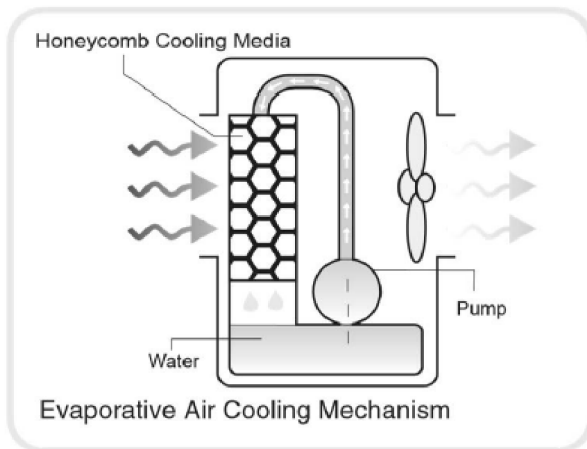
- Manual Control / Single Dial Switch
- 2-Way Airflow – Manual Horizontal Louver and Fixed Vertical Louver
- 3 fan speeds (low, medium and high) allow adjustment between maximum cooling and quiet operation.
- High Efficiency Motor and Quiet Fan Operation (Low and Medium)
- Water Level Indicator Window
- Manual Fill or Garden Hose Adapter with Float Valve for Auto Shut-Off
- High Efficiency Rigid Media Pad
- Wheels and Fold-Down Carrier Handle for Portability

## SPECIFICATIONS

- Air Flow: Up to 1300 CFM (ft<sup>3</sup>/min)
- Water Tank: 5.2 Gallons (20L)
- Fan Speed: 3 Fan Speed: Low / Medium / High
- Control: Manual Control / Single Dial
- Cooling Media: 2 in. High Efficiency Rigid Honeycomb Media Pad
- Swing Function: Fixed Vertical / Manual Horizontal (Up/Down) Louver
- Dimension: 19.7x11.8x28.9 Inches (500 x 300 x 735 mm)
- Weight: 16.5 lbs (7.5kg)
- Certification: ETL Certified

## HOW EVAPORATIVE AIR COOLERS WORK

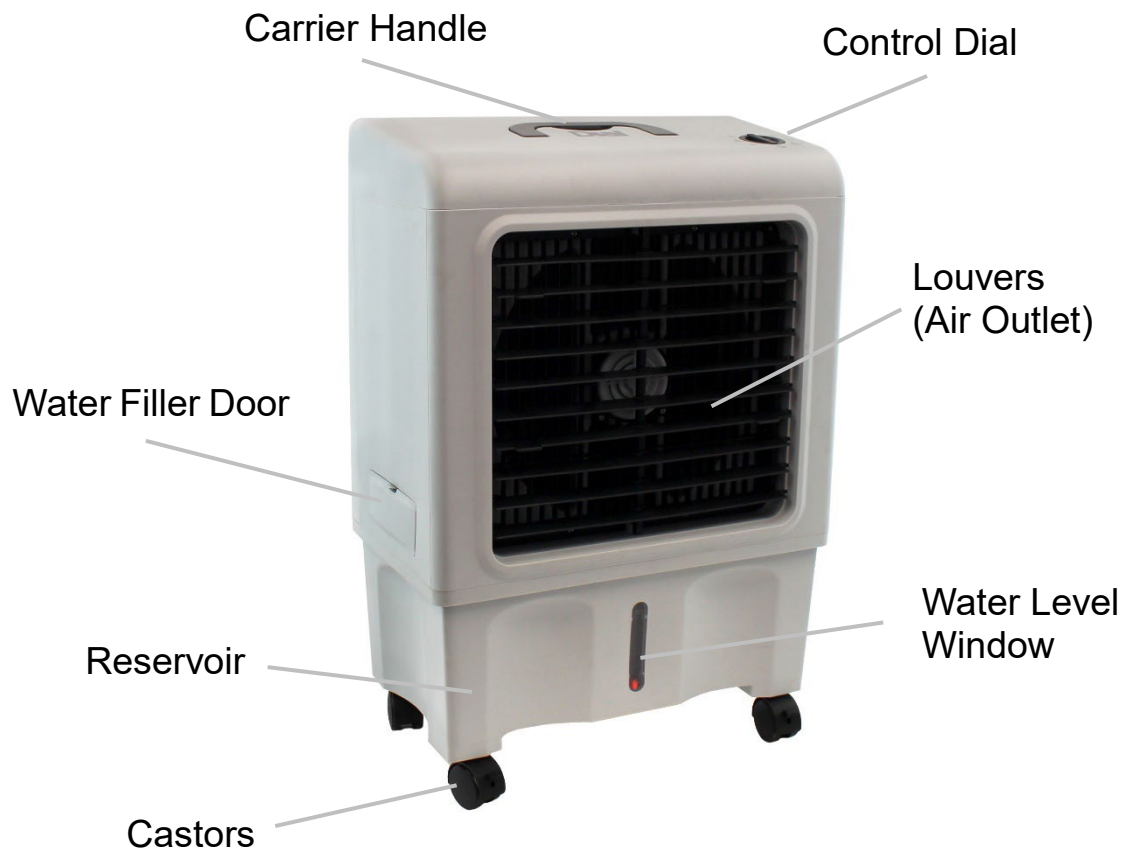
Evaporative coolers cool air by means of evaporation. Our bodies are great evaporative coolers. If you have ever felt the cooling sensation of air blowing across your skin after getting out of the shower or swimming pool, or after sweating from working out, you have felt the effects of evaporative cooling. The water or perspiration on your skin evaporates, removing latent heat that was in the water and leaving the surface of the skin cooler. Evaporative coolers operate on this same principle. Hot air is drawn across media which has been soaked with water. The water absorbs this heat and evaporates leaving the exiting air cooler and more humid.



Evaporative coolers work best in dry climates. Dry air can absorb more water from evaporation than humid air, removing more heat and providing cooler temperatures. Even humid air can provide some cooling effect, unless it is 100% humid, however the amount that the temperature can be cooled will be much less than with dry air. The cooler might still provide spot cooling relief, but may not be able to cool a room or space as well. The recommended relative humidity for optimum operation is 60% or less.

An evaporative cooler should not be used in an enclosed or sealed space. It requires adequate outside dry air to pull into the media. The humid air that is leaving the cooler must also be exhausted so that the humidity in the area does not build up and decrease the cooling effect. Well ventilated areas such as on a porch are fine, but if using in a room setting, doors and windows should be open on opposite sides of the room to allow cross air flow.

## EXTERIOR PARTS OF THE EVAPORATIVE COOLER



## UNPACKING AND INSTALLING CASTERS

- Keep the evaporative cooler in an upright position and remove the packaging.
- Make sure all the parts are present: Castors (4pcs) and Garden Hose Adapter (1pc.).
- Lay the unit gently on its side and insert the stem of the castor into the designated hole located at each corner of the under-side of the water reservoir. Set the cooler right-side up when the castors are installed.

## OPERATING THE EVAPORATIVE COOLER

### FILL THE RESERVOIR








Manually fill the reservoir with clean water through the Water Filler Door. To open the Water Filler Door, depress the door at the center on the top edge of the door. Do not fill the water beyond the maximum water level. Close Water Filler Door when the reservoir is filled.

For continuous water fill, a garden hose can be connected to the threaded hose connection on the side of the unit using the provided hose adapter. The internal float valve will maintain the water level.

The reservoir must have a minimum volume of water for the pump to function properly. Before using the cooling function, the water level should be at least half way up the water level window.

### PLUG IN THE 3-PIN PLUG INTO A 3-PIN ELECTRICAL OUTLET

### USE THE CONTROL DIAL TO SELECT FUNCTION

<b>OFF</b>	Set dial to this position to switch OFF the evaporative cooler.
 <b>PUMP ONLY</b>	Set dial to this position to wet the rigid media thoroughly. Note that it will take approximately 2-3 minutes to wet rigid media thoroughly.
 <b>COOLING LOW</b>	Turn dial to this position for evaporative cooling at low fan speed.
 <b>COOLING MEDIUM</b>	Turn dial to this position for evaporative cooling at medium fan speed.
 <b>COOLING HIGH</b>	Turn dial to this position for evaporative cooling at high fan speed.
 <b>FAN LOW</b>	Turn dial to this position for fan only function at low fan speed. Water pump does NOT function when operating in this mode.
 <b>FAN MEDIUM</b>	Turn dial to this position for fan only function at medium fan speed. Water pump does NOT function when operating in this mode.
 <b>FAN HIGH</b>	Turn dial to this position for fan only function at high fan speed. Water pump does NOT function when operating in this mode.

**Note:** It is completely normal if the cooler has a slight odor or the water tank has slight discoloration when it is used for the first time. This odor should dissipate within a week of use.

## **MAINTENANCE**

### **CLEANING**

**CAUTION:** Turn off the evaporative cooler and disconnect the plug from the electrical outlet before cleaning, servicing or performing any maintenance on the unit.

#### **CLEANING THE EXTERIOR SURFACE OF THE EVAPORATIVE COOLER**

- Clean the plastic housing with a duster or a soft moist cloth.
- Do not use chemical solvents (such as benzene, alcohol or gasoline) as they may cause irreversible damage.
- Use care when cleaning around the control switch; make sure no water enters near the control switch. The warranty does not cover damage caused by water.

#### **CLEANING THE RESERVOIR**

- Unscrew and remove the Back Panel to access the Reservoir.
- Empty the Reservoir.
- Use a cloth (dipped in mild detergent solution) to wipe the Reservoir and rinse it with water.
- Cleaning the Reservoir at least once a week will help reduce any mineral deposits and keep the filters clean.
- Do not run the unit in cooling mode with stale water in the Reservoir.
- Empty the Reservoir and refill it with fresh water if water has been left in the Reservoir for an extended period.

#### **MAINTAINING AND CHANGING THE RIGID MEDIA PADS**

The frequency of cleaning the Rigid Media Pad depends on local air and water conditions. In areas where the mineral content of the water is high (hard water), mineral deposits may build up on the media pad and restrict air flow. If mineral deposits remain on the media pad, it should be removed and washed under fresh water or replaced. We recommend cleaning the media pad at least every two months, depending on water conditions.

For best results, allow the media pad to dry after each use by turning off the pump and running the unit in one of the fan only speeds for up to 15 minutes before turning off the unit.

Go to [www.dialmfg.com/pec/technical-data](http://www.dialmfg.com/pec/technical-data) for detailed instructions on removing and replacing Rigid Media Pad.

#### **END OF SEASON MAINTENANCE**

1. Empty the Reservoir and wipe it with warm soapy water.
2. Dry the Reservoir and clean the Honeycomb pad.
3. Keep the unit in a dry place.



## TROUBLESHOOTING

Do not repair or disassemble the unit by yourself, unauthorized repair attempts will void the warranty and may cause injury.

<b>Problem</b>	<b>Cause/Corrective Action (Control Panel)</b>
A. Cooler does not work at all.	<ol style="list-style-type: none"> <li>1. There is no power going to the electrical cord. Check for proper connection or tripped circuit breaker.</li> <li>2. Unit is turned Off. Turn switch to Pump Only, Cooling or Fan setting.</li> </ol>
B. No Cool Air	<ol style="list-style-type: none"> <li>1. Unit is on Fan function and not on Cooling function.</li> <li>2. Water level is low. Fill reservoir with water (at least half full) and activate the pump.</li> <li>3. Pump and/or Pump Hose are/is clogged. Clear debris.</li> <li>4. Pump may be defective. Replace Pump.</li> </ol>
C1. Fan does not operate.  C2. Fan runs slow	<ol style="list-style-type: none"> <li>1. Electrical plug on the unit power cord is not plugged into the electrical outlet properly.</li> <li>2. Turn dial to Cooling or Fan function.</li> <li>3. Check for faulty motor capacitor. Motor capacitor may need to be replaced.</li> </ol>
D. Leakage	<ol style="list-style-type: none"> <li>1. Ensure drain plug is securely pressed into hole.</li> <li>2. Inspect reservoir for cracks or damage.</li> <li>3. Check for media pad scale build-up. Scaling can cause water to flow to the outside of the pad and out of the unit.</li> <li>4. Check for loose water hose connection or leaks from water distribution system.</li> </ol>
E. Float Valve	<ol style="list-style-type: none"> <li>1. Adjust the valve if the water level is too low or high.</li> <li>2. Check for a crack on the float valve causing valve failure and water leakage. Replace cracked float valve.</li> </ol>
F. Odor	<ol style="list-style-type: none"> <li>1. New unit. When the unit is used for the first time, the Rigid Media Pad will have an odor, which will dissipate within a week of use.</li> <li>2. Media Pad may have developed mold or bacterial growth. Replace Media Pad.</li> </ol>

If the above solutions do not resolve the problem, please contact Dial Customer Service and Technical Support.

## **WARRANTY POLICY**

Refer to Warranty Form.

## **DAMAGED SHIPMENT**

Dial is not responsible for any damages caused by shipment. Dial is not responsible for any shortages incurred during shipment. If there are any damages or shortages, please notify the carrier and file a claim. Do not dispose of the product, as the carrier may request evidence of the damage.

## **PRODUCT RETURN**

Please make note of the dealer return policy at the location where purchased, as the return policy of Dial product is determined on the dealer level. The ability to return product is at the sole discretion of the dealer. For the repair of damaged product, or for troubleshooting, the customer may contact Dial for assistance.

## PEC-A-1300-1M PORTABLE EVAPORATIVE COOLER REPLACEMENT PARTS

These replacement parts are available at participating dealers of Dial® Portable Evaporative Coolers or call 1-800-350-DIAL for assistance.

<b>PART MODEL NUMBER</b>	<b>PART DESCRIPTION</b>	<b>PART NUMBER</b>
PEC-RP-001-1300	Water Pump	82031
PEC-RP-002-8888A	Float Valve Set	82001
PEC-RP-006-1300	Fan Blade	82032
PEC-RP-010-1300	Rigid Media Pad	82033
PEC-RP-012-8888C	Drain Plug	82017
PEC-RP-013-8888A	Hose Adaptor	82018