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DIAL 2200CFM Owner's Manual

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Available Replacement Parts for DIAL 2200CFM

82000	WATER PUMP FOR 2200CFM
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82016	DRAIN PLUG FOR 2200CFM



USER MANUAL



PEC-A-2200-1RC 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 N 47th Avenue, Phoenix, AZ 85043
1-800-350-DIAL | customerservice@dialmfg.com

CONTENTS

SAFETY INSTRUCTIONS	3
APPLICATIONS, FEATURES, SPECIFICATIONS	4
HOW EVAPORATIVE AIR COOLERS WORK	5
EXTERIOR PARTS OF THE COOLER	6
UNPACKING AND INSTALLING THE CASTERS	7
CONTROL PANEL AND REMOTE CONTROL OPERATIONS	7
OPERATING THE EVAPORATIVE AIR COOLER	9
MAINTENANCE	10
TROUBLESHOOTING	11
WARRANTY POLICY	12
DAMAGED SHIPMENT	12
PRODUCT RETURN	12
REPLACEMENT PARTS	13

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 110-115V, 60Hz and 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.
- Test and reset the GFCI plug before connecting it to an electrical outlet.
- 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 louvre 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 side and back, or airflow out of the louvre 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.
- Keep the Dust Screen clean to allow better air-intake and efficient operation of the unit.
- 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, RV and small commercial open space.

FEATURES

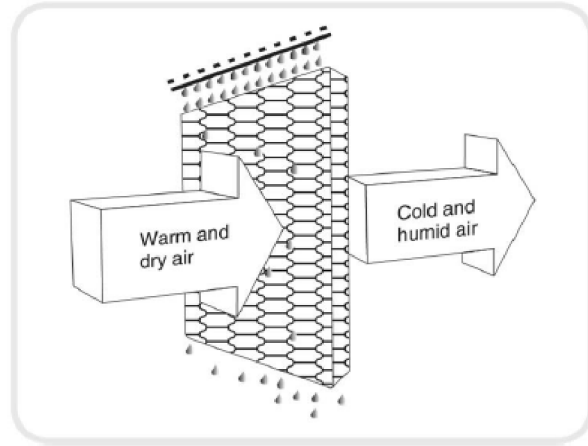
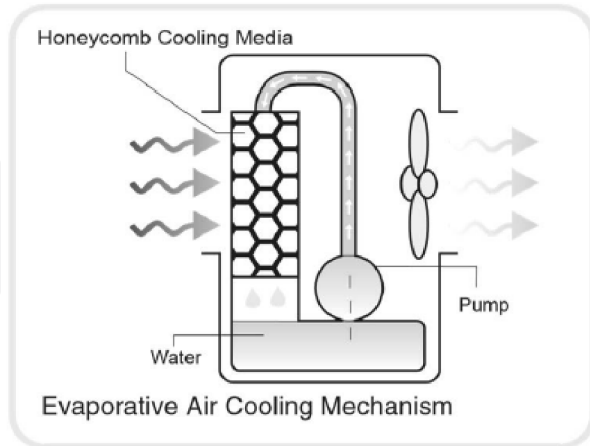
- Powerful air-flow perfect for spot cooling.
- Directional swing allows wider area coverage.
- 3 fan speeds and oscillation setting for wider and improved air flow; low, medium and high-speed allow adjustment between maximum cooling and quiet operation.
- Removable and washable dust screen for improved cooling and clean airflow.
- Easy to use digital controls with remote control.
- Handle and castors for great mobility.
- “Auto” water re-fill with garden hose connection and float valve shut-off.
- Ice packs for added cooling effect.

SPECIFICATIONS:

- Air Flow: Up to 2200 CFM (ft³/min)
- Water Tank: 6.5 Gallons
- Motor / Fan Speed: 1/8 HP 3 / Fan Speed: Low / Medium / High
- Control: Touch Screen and Wireless Remote Control
- Timer: 7.5 Hour Timer
- Cooling Media: 3-Sided High Efficiency Rigid Honeycomb Media Pads
- Swing Function: Auto Vertical Left to Right / Manual Horizontal Top/Down
- Dimension: 20.08x14.37x33.07 Inches
- Weight: 29.76 lbs
- Certification: ETL Certified

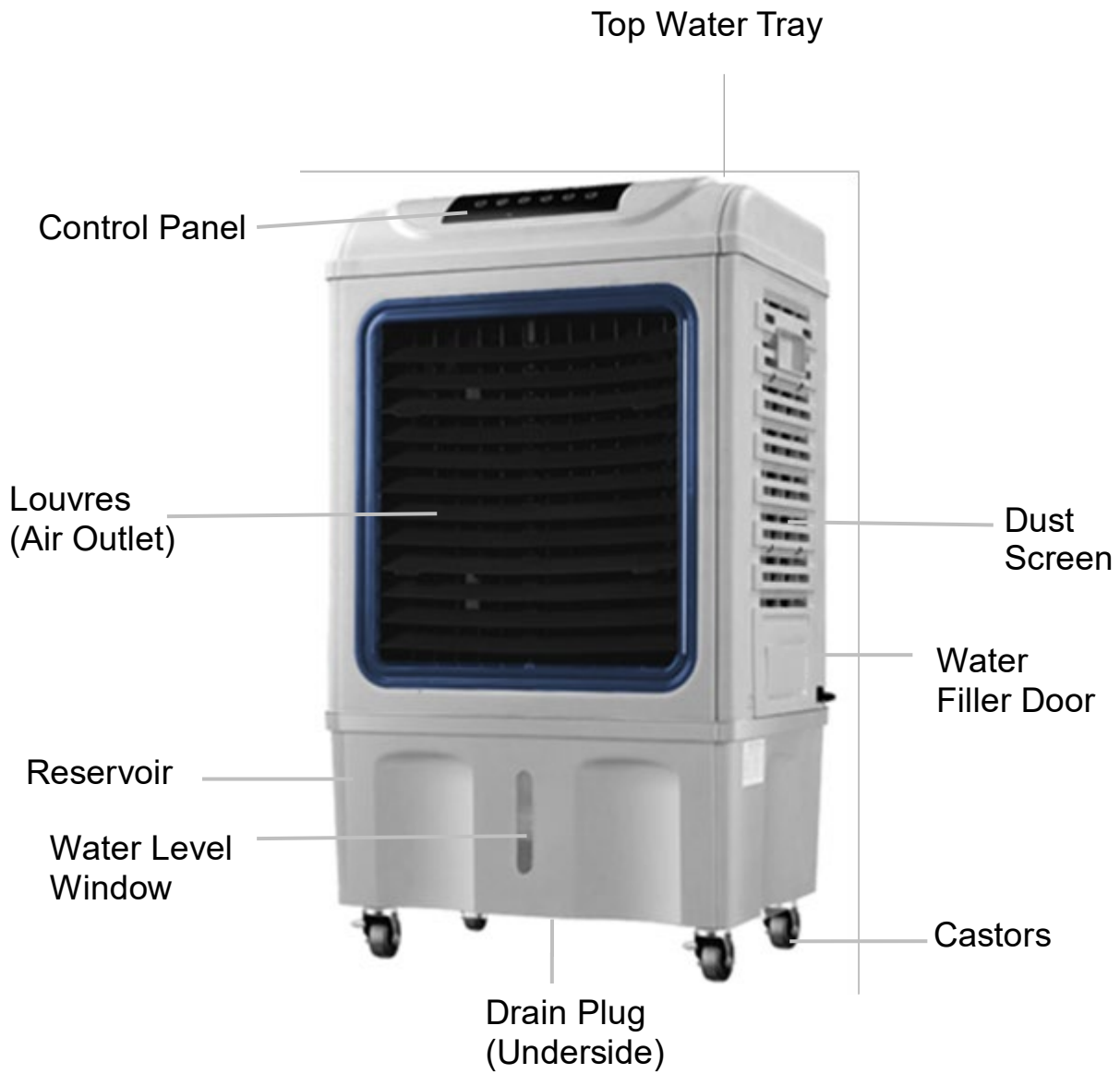
HOW EVAPORATIVE AIR COOLERS WORK

The evaporative cooler cools the air by means of evaporation. When water evaporates, liquid water is converted into vapor using the thermal energy in the air resulting in a lower air temperature and spot cooling effect. Evaporative cooling therefore causes a drop in the temperature of air proportional to the sensible heat drop and an increase in humidity proportional to the latent heat gain.



- The recommended relative humidity for optimum operation is 60% or lower. A drier climate makes for more noticeable cooling.
- The evaporative air cooler should not be used in enclosed or sealed spaces. It must be kept level and there must always be water in the water tank. In a room setting, doors and windows should be open to allow cross air flow.
- When the product is used for the first time the Honeycomb cooling media may have an odor. This should dissipate within a week of use.

EXTERIOR PARTS OF THE EVAPORATIVE COOLER

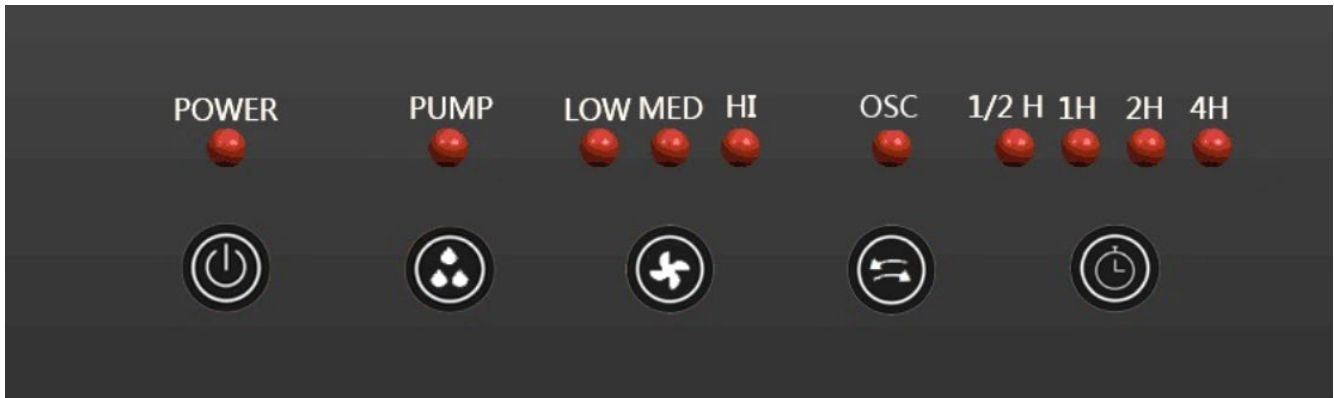




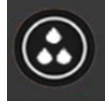
UNPACKING AND INSTALLING CASTERS



- Keep the evaporative cooler in an upright position and remove the packaging.
- Make sure all the parts are present: Castors (4pcs) & Screws (16pcs), Remote Controller (1pc), Ice Pack (2 pcs).
- Lay the evaporative cooler on its side gently. Locate screw holes for the casters under the Reservoir. Use the screws provided to fasten the casters to the underside of the Reservoir. Set the cooler right-side up when the casters are installed.

CONTROL PANEL AND REMOTE CONTROL OPERATIONS

CONTROL PANEL



	<p>Press to turn the air cooler On / Off</p>
	<p>Press to change the fan speed between low, medium and high. The LED below fan speed will be lighted to show the current selected speed.</p>
	<p>Press to activate the pump. Ensure that the water level is sufficient for the operation. The LED above the symbol will be illuminated when the function is active. If this function is not turned on the unit operates as a fan / air cleaner.</p>

	<p>WHILE THE UNIT IS RUNNING: Press the timer button repeatedly to select the number of hours to keep the unit operating. The corresponding LED symbol will be lighted. The maximum is 7.5 hours</p>
	<p>Press to activate the swing mode. The airflow will swing from left to right. The up-down airflow can be controlled manually by adjusting the horizontal louvre. The LED above the symbol will be illuminated when the function is active. Press again to turn it off.</p>

REMOTE CONTROL



The remote control enables you to control all the functions that the control panel does from up to 6 meters. The remote control should be pointed towards the receiver on the front of the air cooler.

ATTENTION:

- Do not mix old and new or different types of batteries
- Remove the batteries if the remote controller will not be used for an extended period.

Touch the “Power” button to turn on the evaporative cooler which will start the fan in Low Speed. Touch the “Pump” button to activate the pump for evaporative cooling.

OPERATING THE EVAPORATIVE COOLER

FILL THE RESERVOIR

Fill the reservoir with clean water through the Water Filler Door manually. 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.

Alternatively, connect a garden hose to the hose valve (use the hose adaptor provided) which also provide continuous water fill.

The reservoir must be filled with a minimum volume of water before using the cooling function. The water has to be at least half on the Water Level Window.

USING ICE PACK (OPTIONAL)

Slide back Top Water Tray Cover slightly and lift up Top Water Tray Cover. Place each frozen ice pack in each compartment on the tray to chill the water before it flows through the Rigid Media Pad.

PLUG IN THE GFCI PLUG INTO AN GFCI ELECTRICAL OUTLET IF AVAILABLE

Note: The GFCI Plug can be plugged into an ordinary 110-115V electrical outlet.

Press the "Re-set" button on the GFCI plug first and connect the GFCI power plug to a GFCI electrical outlet. Re-set GFCI outlet if necessary.

TOUCH THE "POWER" BUTTON TO TURN ON THE EVAPORATIVE COOLER WHICH WILL START THE FAN IN LOW SPEED. TOUCH THE "POWER" BUTTON AGAIN TO TURN OFF THE COOLER.

TOUCH THE "PUMP" BUTTON TO ACTIVATE THE PUMP FOR EVAPORATIVE COOLING.

TOUCH THE "OSC" BUTTON FOR THE AIRFLOW TO SWING LEFT AND RIGHT.

TOUCH THE "TIMER" BUTTON REPEATEDLY TO SELECT AND SET DURATION OF OPERATION.

Note: It is completely normal if the cooler has a slight odor or the water tank has slight discolouration when it is used for the first time.

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 panel and the control panel itself; make sure no water enters the control panel. Control Panel warranty does not cover damage caused by water.

CLEANING THE RESERVOIR

- Unplug the appliance then remove the screws securing the rear filter frame.
- Lift the filter frames to remove from the unit.
- Drain the Reservoir by removing the Drain Plug on the underside of the Reservoir.
- With a cloth (dipped in mild detergent solution), 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 Pads 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 pads and restrict air flow. If mineral deposits remain on the media pads, they should be removed and washed under fresh water or replaced. We recommend cleaning the media pads at least every two months, depending on water conditions.

For best results, allow the media pads to dry after each use by turning off the cooling function for 15 minutes (without water in the Reservoir) before turning the unit off.

Go to www.dialmfg.com/pec/technical-data for detailed instructions on removing and replacing Rigid Media Pads.

END OF SEASON MAINTENANCE

1. Empty the reservoir and wipe it with warm soapy water.
2. Dry the reservoir and clean the Honeycomb pads.
3. Store any Ice Pack you may use in the water tank.
4. Cover the unit and keep it 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.

Problem	Cause/Corrective Action (Control Panel)
A. Cooler does not work at all.	<ol style="list-style-type: none"> 1. GFCI Plug on the unit power cord is not plugged into the electrical outlet properly. 2. Re-set the GFCI Plug 3. The GFCI outlet may have been tripped and need to be re-set. Or use a non GFCI outlet. 4. Touch "Power" button to turn it to "On".
B. No Cool Air	<ol style="list-style-type: none"> 1. Pump is not activated. Touch "Pump" button to turn it on. 2. Water level is low. Fill reservoir with water (at least half full) and activate pump. 3. Pump and/or Pump Hose are/is clogged. Clear debris. 4. Pump may be defective. Replace Pump.
C1. Fan does not operate.	<ol style="list-style-type: none"> a) GFCI Plug on the unit power cord is not plugged into the electrical outlet properly. b) Re-set the GFCI Plug. c) The GFCI outlet may have been tripped and need to be re-set. Or use a non GFCI outlet. d) Touch "Power" button to turn it to "On".
C2. Fan runs slow	<ol style="list-style-type: none"> e) Check for faulty motor capacitor. Motor capacitor may need to be replaced (for select models).
D. Vertical louvre does not operate	Louvre does not move. Touch "Swing" button to turn it on. Check oscillation motor for connection and defect.
E. Leakage	<ol style="list-style-type: none"> 1. Check Drain Plug or Cap. Make sure Drain Plug is plugged fully and Cap is tightened completely. 2. Inspect Reservoir for cracks or damage. 3. Check for Media Pad scale build-up. Scaling can cause water flow disruption and spill water out of the unit. 4. Check for leaks from Water Spreader/Distributor Rail and hose connections.
F. Float Valve	<ol style="list-style-type: none"> 1. Adjust the valve if the water level is too low or high. 2. Check for a crack on the float valve causing valve failure and water leakage. Replace cracked float valve.
G. Odor emission	<ol style="list-style-type: none"> 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. 2. Media Pad may have developed mold or bacterial growth. Replace Media Pad.

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-2200-1RC 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.

PART MODEL NUMBER	PART DESCRIPTION	PART NUMBER
PEC-RP-001-2200	Water Pump	82000
PEC-RP-002-8888A	Float Valve Set	82001
PEC-RP-005-888B1	Remote Control	82003
PEC-RP-006-2200	Fan Blade	82004
PEC-RP-010-2200	Rigid Media Pad (Set)	82008
PEC-RP-011-2200	Dust Cover/Screen (Set)	82012
PEC-RP-012-2200	Drain Plug	82016
PEC-RP-013-8888A	Hose Adaptor	82018
PEC-RP-014-8888C	Ice Pack	82019