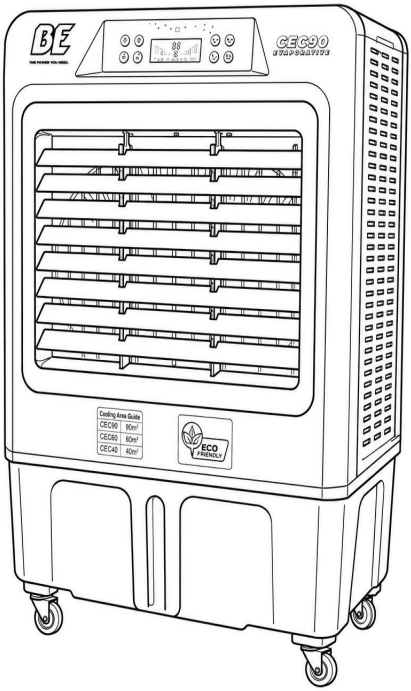
BE POWER® EQUIPMENT

9K COMMERCIAL
EVAPORATIVE COOLER
USER MANUAL



MODEL NO. PIN CEC90

V1.0 2026

CONTENTS

PREFACE 3

NAME OF VARIOUS FUNCTIONAL PARTS 4

THE LCD PANEL 5

CONTROL PANEL AND REMOTE CONTROL 5

INSTALLATION AND OPERATION 7

TYPICAL NEGATIVE ANION CONCENTRATIONS 9

NEGATIVE ION FUNCTION 10

CLEANING 11

TECHNICAL PARAMETERS 12

CIRCUIT DIAGRAM 12

WARRANTY CARD 13

TROUBLESHOOTING 14

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

PREFACE

Thank you for choosing a **BE Power Equipment Evaporative Air Cooler.**

This air cooler has been designed to provide reliable, energy-efficient cooling for commercial, industrial and residential applications. To ensure safe operation and optimum performance, please read this instruction manual carefully before installing or operating the unit. This manual contains important information regarding installation, operation, maintenance and safety. Please keep it in a safe place for future reference.
As part of our commitment to continuous product improvement, BE Power Equipment reserves the right to modify product specifications, features and design without prior notice. As a result, the product supplied may differ slightly from the illustrations or descriptions contained in this manual. If you require further assistance, please contact BAR Group Pty Ltd or your authorised BE Power Equipment dealer. We appreciate your confidence in BE Power Equipment and trust that your evaporative air cooler will provide many years of reliable and efficient service.

How Evaporative Cooling Works

The air cooler uses high-efficiency cooling pads as the evaporative medium to provide natural, energy-efficient cooling. As warm air passes through the water-saturated cooling pads, heat is absorbed by the evaporation process, producing cooler, fresher air. In addition to reducing air temperature, the cooling pads help capture larger airborne dust particles, contributing to improved indoor air quality.

Cooling Process

1. The fan draws warm ambient air through the rear of the air cooler, creating a slight negative pressure inside the unit.
2. Water is pumped from the water tank and distributed evenly across the cooling pads.
3. As warm air passes through the saturated cooling pads, a portion of the water evaporates, absorbing heat from the incoming air.
4. The cooled, slightly humidified air is then discharged into the room by the fan.
5. Any water that does not evaporate drains back into the water tank, where it is continuously recirculated through the cooling system.

This continuous recirculating water system provides efficient evaporative cooling while maintaining low energy consumption.

Optimum Performance

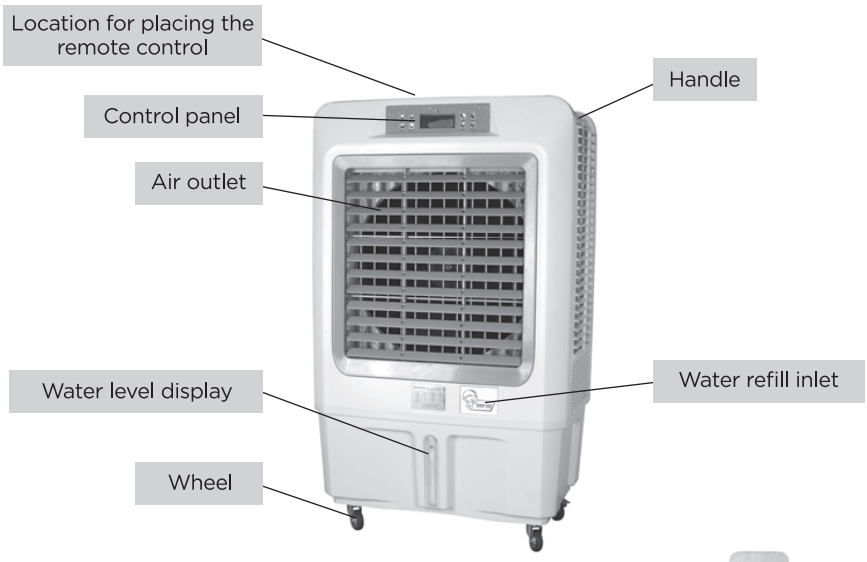
Evaporative air coolers perform best in well-ventilated areas with a continuous supply of fresh air.
For maximum cooling efficiency:

- Position the rear of the unit towards an open window or doorway.
- Keep another window or door open on the opposite side of the room to allow warm, humid air to escape.
- Maintain adequate cross-ventilation during operation.
- Regularly clean the air filter and cooling pads to ensure optimum airflow and cooling performance.

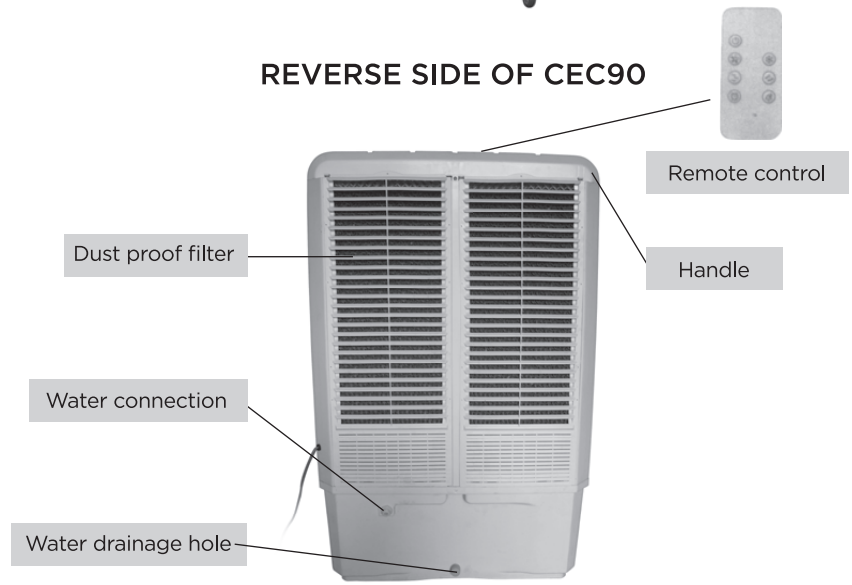
Following these recommendations will maximise cooling performance and provide the most comfortable indoor environment.

NAMES OF VARIOUS FUNCTIONAL PARTS

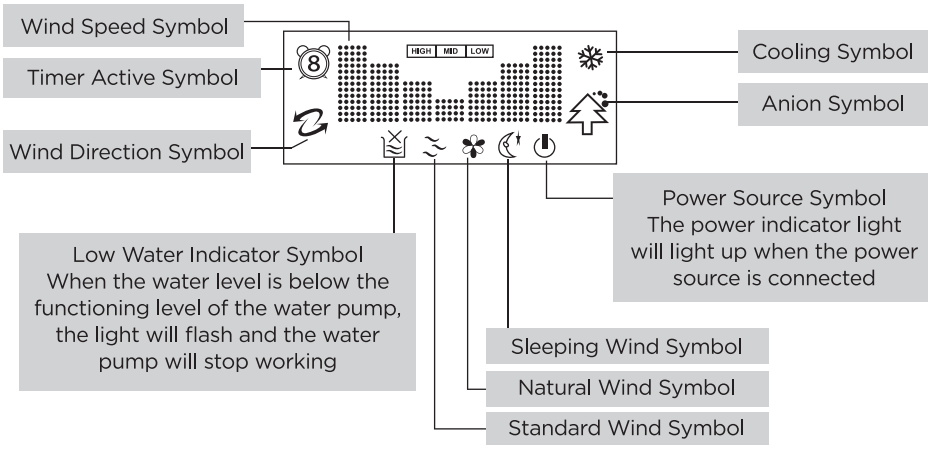
FRONT SIDE OF CEC90



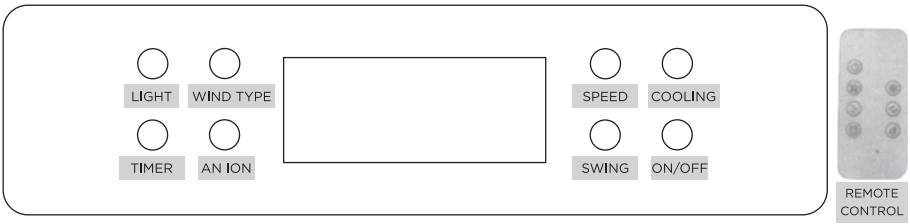
REVERSE SIDE OF CEC90



THE LCD PANEL



CONTROL PANEL AND REMOTE CONTROL



Control Panel Functions
When the air cooler is connected to the power supply, the **Power Indicator** will illuminate, a single beep will sound and the unit will enter **Standby** mode.

1. On/Off Button
Press the Power button to switch the air cooler **ON** or **OFF**.
When switched on for the first time, the unit will start in its default operating mode. Thereafter, the air cooler will automatically resume the last operating mode used before it was switched off. Pressing the **Power** button at any time will stop all operating functions and return the unit to **Standby** mode.

2. Cooling Button
Press the Cooling button to activate the evaporative cooling function.
When Cooling mode is selected:
- The Cooling Indicator will illuminate.
- The water pump will begin circulating water through the cooling pads.
- The default fan speed is Low.

Note: Ensure the water level is above the MIN mark before selecting Cooling mode.

3. Wind Speed Button
Press the Fan Speed button to select the desired airflow.
Three fan speed settings are available: Low, Medium and High
The corresponding fan speed indicator will be displayed on the control panel.

4. Wind Direction Button
Press the Swing button to activate automatic left and right oscillation.
The oscillation indicator will illuminate while the feature is operating.
Press the button again to stop the oscillation.

5. Wind Type Button
Press the Wind Mode button to select one of the following airflow modes:
Standard Mode
The fan operates continuously at the selected speed.
Natural Mode
The fan speed automatically varies between Low, Medium and High to simulate a natural breeze.
Sleep Mode
Sleep Mode gradually reduces the fan speed to provide quieter overnight operation.
When starting from High speed:
- After 30 minutes, the fan automatically changes to Medium speed.
- After a further 30 minutes, the fan changes to Low speed.
- The unit will then continue operating at Low speed until another setting is selected.

6. Anion Button
Press the Anion button to activate the negative ion generator.
The Anion Indicator will illuminate while this function is operating.
Note: The anion function is designed to enhance the perceived freshness of the indoor environment and does not replace normal ventilation or air filtration.

7. Timer Button
Press the Timer button to set the automatic shutdown time.
The timer can be adjusted in 1-hour increments from 1 to 9 hours. The selected time will be displayed on the LCD screen. After reaching 9 hours, pressing the Timer button again will cancel the timer function.

8. Light Button (Display)
The LCD display backlight is illuminated by default.
Press the Light button to switch the display backlight OFF.
Press the button again to switch the display backlight ON.

Additional Functions
Audible Button Confirmation: A single beep will sound each time a button is pressed, whether using the control panel or the remote control.
Low Water Protection: The air cooler is equipped with an automatic Low Water Protection System.
When the water level falls below the minimum operating level:
- The water pump will automatically stop.
- An audible alarm will sound.
- The Low Water indicator will flash on the display.

After the water tank has been refilled above the MIN level, the water pump will automatically resume normal operation. This protection system helps prevent the cooling pump from operating without sufficient water.

INSTALLATION AND OPERATION

Unpacking

1. Carefully open the carton and remove the air cooler and all supplied accessories.
2. Inspect the unit for any signs of damage that may have occurred during transport.
3. Remove all protective packaging materials before use.

Filling the Water Tank

1. Press the water filler door located on the left-hand side of the unit to open it.
2. Fill the water tank with clean, fresh tap water.
3. Monitor the water level indicator and stop filling when the water reaches the MAX level.

Important:

- Do not allow water to spill onto the motor, control panel or other electrical components.
- Do not overfill the water tank. Filling above the MAX level may cause water to overflow during operation.
- Always use clean tap water for optimum performance.

Operating the Air Cooler

1. Connect the air cooler to a suitable power outlet.
2. The unit will enter Standby mode.
3. Press the Power button to switch the unit ON.
4. Use the control panel to select the desired:

o Fan speed
o Cooling mode
o Wind mode
o Oscillation (Swing)
o Timer
o Other available functions

When you have finished using the air cooler, press the Power button to switch the unit OFF. The air cooler will return to Standby mode.

Using the Remote Control

The air cooler can also be operated using the supplied remote control. All remote control functions correspond to those available on the control panel.
Installing the Batteries

1. Remove the battery cover from the rear of the remote control.
2. Insert the batteries, ensuring the correct polarity (+/-) is observed.
3. Refit the battery cover securely.

INSTALLATION AND OPERATION (Continued)

Operating the Remote Control

- Point the remote control directly towards the control panel on the air cooler.
- The effective operating range is approximately 10 metres, provided there are no obstructions between the remote control and the unit.
- When not in use, store the remote control in the holder provided on the top of the air cooler to prevent it from being misplaced or damaged.

Before First Use

Before operating the air cooler, ensure that:

- The water tank is filled above the MIN level if Cooling mode is required.
- The rear of the unit is positioned near an open window or doorway.
- A second window or door is open to provide adequate ventilation and allow warm, humid air to escape.
- The air inlet and outlet are free from obstructions.

Following these recommendations will ensure optimum cooling performance and efficient operation.

TYPICAL NEGATIVE ANION CONCENTRATIONS

Note: ion/cm^3 = ions per cubic centimetre. Values are approximate and may vary depending on environmental conditions and measurement methods.

Location	Typical Anion Concentration (ions/cm^3)	General Characteristics
Forests and Waterfalls	100,000 – 500,000	Very high concentration of naturally occurring negative ions.
Mountains and Coastal Areas	50,000 – 100,000	Clean, fresh air with naturally elevated ion levels.
Open Countryside and Fields	5,000 – 50,000	Moderate naturally occurring ion concentration.
Parks	1,000 – 2,000	Typical concentration in well - vegetated outdoor spaces.
Street Green Spaces	100 – 200	Slightly elevated compared with urban streets.
Residential Urban Areas	40 – 50	Typical urban air environment.
Air - Conditioned Indoor Spaces	0 – 25	Low negative ion concentration due to enclosed conditions.
Air Cooler with Anion Generator	Up to 100,000 - 500,000*	Generates negative ions to help recreate a fresher indoor environment.

*Performance depends on the ioniser design, airflow and testing conditions. This table avoids medical or therapeutic claims and is suitable for general product literature.

NEGATIVE ION FUNCTION

How the Negative Ion Generator Works
The air cooler is equipped with an integrated negative ion generator. During operation, the generator releases negatively charged ions into the airflow, where they combine with oxygen molecules naturally present in the air.
These negative ions are then distributed throughout the room by the fan as part of the normal airflow.

Fresh Indoor Air
Negative ions occur naturally in outdoor environments such as forests, waterfalls and coastal areas, where their concentration is generally much higher than in enclosed indoor spaces.

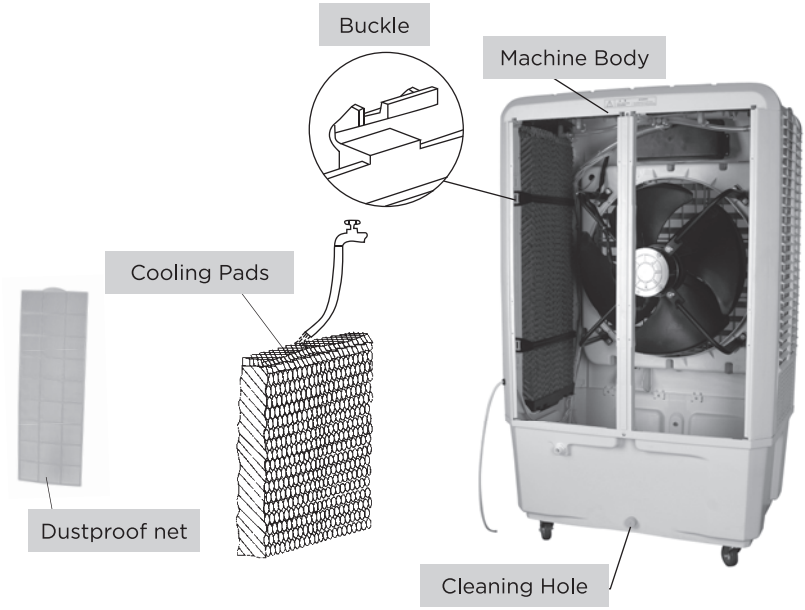
The integrated negative ion generator is designed to help recreate a fresher indoor environment by increasing the concentration of negative ions during operation.
Many people associate environments with naturally higher levels of negative ions with a greater sense of freshness and comfort.

Helping Reduce Airborne Particles
Negative ions can attach to certain airborne particles, such as dust, pollen and smoke. As these particles become heavier, they are more likely to settle from the air, helping to improve the perceived freshness of the indoor environment.
The negative ion function is intended to complement the air cooler's normal cooling and airflow performance.

Important Information
The negative ion generator is designed to improve the freshness of the indoor environment and should not be considered a substitute for adequate ventilation, air filtration or regular cleaning.
The air cooler should always be operated in a well-ventilated area to achieve optimum cooling performance.

Note: The negative ion function is not intended to diagnose, treat, cure or prevent any disease or medical condition.

CLEANING



- Dustproof Net
  Unplug the power source, screw of the screw on the upward side of the dustproof net and then pull the dustproof net backward after pressing its buckle to take down the dustproof net. Use mild soap water and soft brush to clean the dustproof net, dry it and then put it back to the air cooler.

- Cooling Pads
  Unplug the power source, take down the dustproof net and then take out the cooling pads. Clean the cooling pads with clean water and then put it back to the air cooler.

  Attention: The water pressure can't be too high when cleaning. Don't use acid or alkaline detergent to clean the cooling pads.

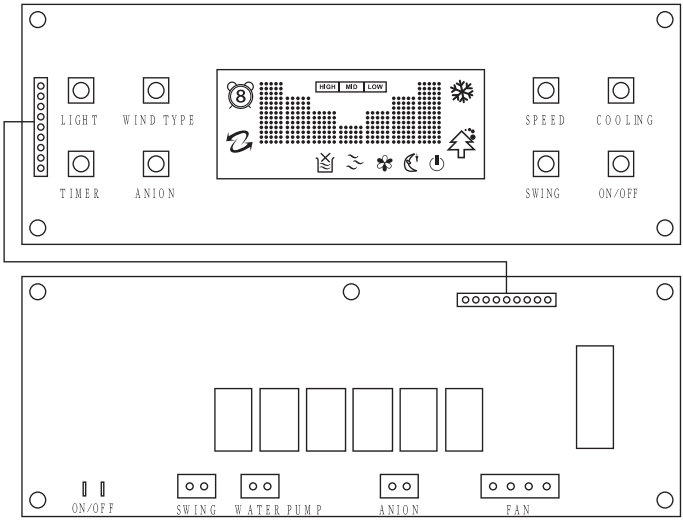
- Water Tank
  Unplug the power source and then the choke plug of the cleaning hole on the back of the machine to drain the waste water, then add clean water into the air cooler.

  Suggestion: Replace the water with clean water everyday in case undesirable smell will be produced.

TECHNICAL PARAMETERS

Name of Parameter	Units	Model
		CEC90
output air flow	m^3/ h	9000
voltage/frequency	v/Hz	240/50
motor power	w	450
water consumption	L/h	5-6
water storage capacity	L	70
boundary dimension	LxWxH(mm)	840X565X1320
weight	Kg	32
dimension of air outlet	LxH(mm)	620X660
noise	dBA	54
applying space	m^2	Up to 65
operating current	A	1.5

CIRCUIT DIAGRAM



WARRANTY CARD

Warranty Terms

Thank you for choosing our evaporative air cooler. Please read the operating instructions and warranty terms carefully before using this product.

1. After buying this product, please send scan or photo of the completed User Receipt and the copy of invoice to our company.
2. If the product need any maintenance, please contact BAR Group to be advised of you nearest service agent.
3. The following circumstances are not covered by the units limited warranty.
   Malfunction or damage caused by disassembling the machine or replacing the inner spare and accessory parts arbitrarily.
   Malfunction or damage caused by using the machine in improper environment (such as voltage instability, low hydraulic pressure, water source containing impurities and so forth). Malfunction or damage caused by irresistible factors (such as fire disaster and earthquake and so forth). Malfunction or damage caused by improper installation or other human factors.

User Stub

Please fill out the following information of User Stub.
(Please keep this stub and show it when the machine is sent for maintenance.)
Please fill out the following product information.
Product Model: Item No.
Note: The start date of the warranty period is the date when the product is purchased.

Please fill out the following user information.
Name of User: Address:
Tel: Contact Person:
Please fill out the following purchasing information.
Name of Dealer: Dealer's Tel:
Contact Person: Purchasing Date:
Invoice No.:

User Receipt

Please fill out the following information of User Receipt.
Please photograph or scan this receipt and send it to our company.
Please fill out the following product information.
Product: Model:
Item No.:
Note: The start date of the warranty period is the date when the product is purchased.

Please fill out the following user information.
Name of User: Address:
Tel: Contact Person:
Please fill out the following purchasing information.
Name of Dealer: Dealer's Tel:
Contact Person: Purchasing Date:
Invoice No.:

TROUBLESHOOTING

Fault Phenomenon	Reasons	Elimination Methods
the Indicator Light Being Dark	1: the power Source Having no Power 2: Main Control Panel Failure 3: the Blowout of Fuses 4: Panel Failure	1: Restore the Power and Check the Power Supply Circuit 2: Replace the Main Control Panel 3: Replace the fuses 4: Replace the Panel
Control Failure	1: Power Supply Shock Interference 2: Environmental Disturbance 3: Panel Failure	1: Turn off the Power and Restart the Machine 2: Clear up or Keep away from the Interference Source 3: Replace the Panel
No Wind Supply or Wind Speed Being Too Small	1: Machine Shell Get Stuck 2: Cooling Pads or Air Filter Net Stocking 3: Machine Shell Deformed 4: Panel Failure	1: Check Whether the Motor is Damaged and Whether the Fixed Hoop and the Fan Base are Deformed 2: Clean or Replace the Cooling Pads or the Air Filter Net 3: Replace the Machine Shell 4: Replace the Main Control Panel
Motor Out of Control	1: Main Control Panel Damage 2: Panel Failure	1: Replace the Main Control Panel 2: Replace the Panel
Abnormal Sound	1: Sundries Inside 2: Fan Looseness 3: Motor Failure	1: Take Down the Filter Net and Cooling Pads, Then Take out the Sundries 2: Tighten the Fan 3: Replace the Motor

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