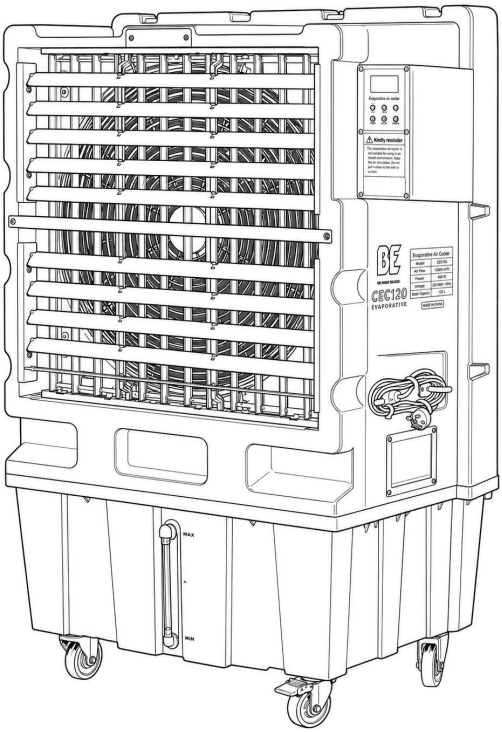
BE POWER® EQUIPMENT

12K COMMERCIAL
EVAPORATIVE COOLER
USER MANUAL



MODEL NO. PIN CEC120

V1.0 2026

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SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

INTRODUCTION

Thank you for choosing a **BE Power Equipment Evaporative Air Cooler.**
Designed with advanced evaporative cooling technology and European engineering principles, this air cooler provides reliable, energy-efficient cooling for commercial, industrial and large open-space applications.

The cooling system operates using the natural process of water evaporation. As warm ambient air passes through water-saturated cooling pads, heat is absorbed through evaporation, producing cooler, fresher and slightly humidified air. Water is continuously circulated from the reservoir to the cooling pads by a high-efficiency water pump. Any water that does not evaporate returns to the reservoir, where it is recirculated through the system. The air cooler can be operated using either:

- Manual filling, using the large 100-litre water reservoir for extended operating time; or
- Continuous water supply, using the supplied hose connection and automatic float valve, which maintains the correct water level automatically.

A digital water level indicator allows the remaining water level to be monitored at a glance. Designed for dependable performance, low operating costs and simple maintenance, the BE Power Equipment Evaporative Air Cooler provides an effective cooling solution for a wide range of applications.

Typical Applications
BE Power Equipment Evaporative Air Coolers are suitable for a wide range of commercial, industrial and agricultural environments where natural, energy-efficient cooling is required.

Commercial
- Offices
- Retail stores
- Shopping centres
- Restaurants and cafés
- Outdoor dining areas
- Schools and educational facilities
- Hospitals and healthcare facilities
- Recreation and community centres
- Warehouses
- Worker accommodation

Industrial
- Manufacturing facilities
- Textile production
- Engineering workshops
- Machinery manufacturing
- Metal fabrication
- Ceramic manufacturing
- Chemical processing
- Leather processing
- Packaging facilities

Processing Industries
- Electronics manufacturing
- Clothing and footwear production
- Plastics manufacturing
- Food processing
- Distribution and logistics centres

Agricultural and Other Applications
- Indoor sporting facilities
- Bakeries
- Commercial kitchens
- Laundries
- Garden centres
- Greenhouses
- Produce markets
- Underground car parks
- Poultry sheds
- Piggeries
- Livestock facilities
- Nurseries and horticultural operations

The BE Power Equipment Evaporative Air Cooler is designed for use in large, well-ventilated areas where a continuous supply of fresh air can be maintained, providing efficient and economical cooling throughout the year.

TECHNICAL SPECIFICATIONS

MODEL	CEC120
Max Airflow	12,000 m³/h
Power Supply / Frequency	240V / 50Hz
Power Consumption	450 W
Fan Style	Axial
Water Consumption	8 - 10 L/hr
Water Capacity	80 L
Dimensions (L*W*H)	935 x 560 x 1310 mm
Weight	45 kgs
Effective Cooling Area	80 - 100 m²
Amp Draw	3.5 A

KEY FEATURES

The BE Power Equipment Evaporative Air Cooler is designed to provide efficient, reliable and economical cooling for commercial, industrial and outdoor applications.

Features

- Energy-efficient evaporative cooling
- Environmentally friendly operation with low power consumption
- Reliable, heavy-duty performance
- Cools large open areas effectively
- Quiet operation
- Three adjustable fan speed settings
- Automatic left/right oscillation (Swing)
- Full-function remote control
- Large-capacity water tank for extended operating time
- Continuous water supply connection via a standard garden hose
- Digital water level indicator
- Automatic low water protection
- Timer function with automatic start/stop
- Durable corrosion-resistant polyethylene cabinet
- Fully portable with heavy-duty castors
- No refrigeration gases or compressors
- No permanent installation or ductwork required
- Easy to operate, clean and maintain

Important Information

Please read this instruction manual carefully before installing or operating the air cooler.

KEY FEATURES (Continued)

Operating Conditions
For optimum performance, operate the air cooler under the following conditions:
- Ambient temperature: 18°C to 45°C
- Water temperature: Below 45°C
- Power supply: Within ±5% of the rated voltage shown on the product rating label
- Operate the unit in a relatively clean environment. Excessive airborne dust may require more frequent cleaning of the filters and cooling pads.

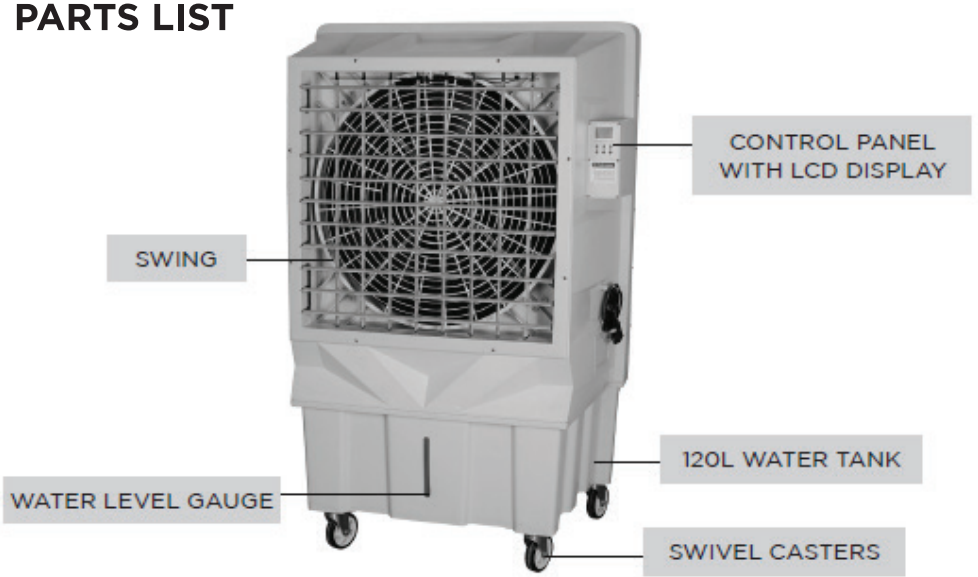
Electrical Safety
- Protect the power cord from vehicle traffic, sharp objects and areas where it may create a trip hazard.
- Always connect the air cooler to the correct power supply specified on the rating label.
- Incorrect voltage or improper electrical installation may result in equipment damage or the risk of electric shock.

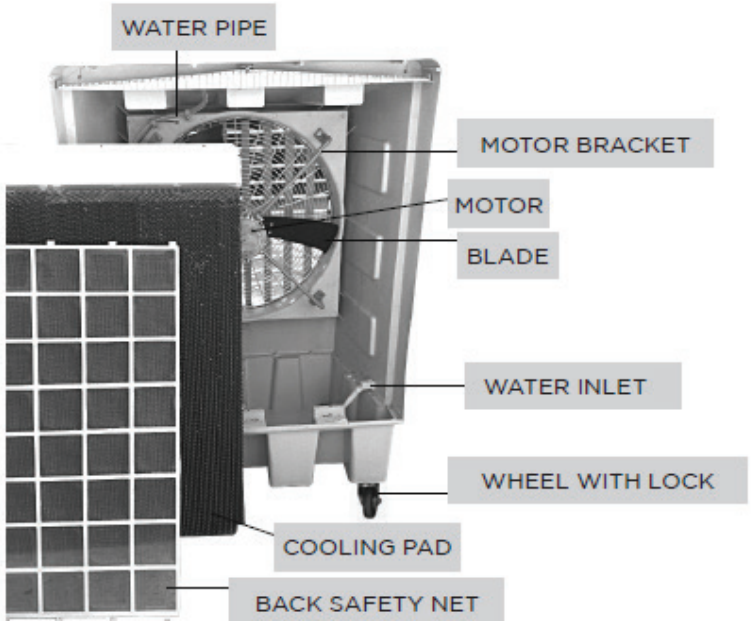
Operating Tips
To achieve the best cooling performance:
1. Keep doors and windows open to provide a continuous supply of fresh air and allow warm, humid air to escape.
2. If the Low Water indicator flashes red, refill the water tank before continuing to use the Cooling function.
3. If the air cooler has not been used for an extended period, drain, rinse and clean the water tank before refilling with fresh water.
4. Take care when moving the air cooler, particularly when the water tank is full. Move the unit slowly and avoid sudden impacts or excessive force to prevent the unit from tipping over.
5. To help minimise the growth of algae and other biological contaminants in the water tank, use a suitable evaporative cooler water treatment or sanitising tablet in accordance with the manufacturer's instructions.
6. Regularly inspect and clean the air filter, cooling pads and water tank to maintain optimum cooling performance and hygiene.

Best Performance
For maximum cooling efficiency:
- Position the rear of the air cooler towards an open window or doorway.
- Ensure a second window or door is open to allow warm, humid air to escape.
- Maintain adequate clearance around the unit to ensure unrestricted airflow.
- Replace the water regularly and perform routine maintenance as recommended in this manual.

Following these recommendations will maximise cooling performance, improve operating efficiency and extend the service life of your BE Power Equipment Evaporative Air Cooler.

PARTS LIST


CONTROL PANEL WITH LCD DISPLAY
SWING
120L WATER TANK
WATER LEVEL GAUGE
SWIVEL CASTERS


WATER PIPE
MOTOR BRACKET
MOTOR
BLADE
WATER INLET
WHEEL WITH LOCK
COOLING PAD
BACK SAFETY NET

OPERATION INSTRUCTIONS

WARNING: To reduce the risk of injury, fire or electric shock, always observe the following safety precautions before operating the air cooler.

1. All electrical repairs and servicing must be carried out only by a qualified electrician or an authorised BE Power Equipment service technician. Always disconnect the unit from the power supply before carrying out any maintenance or repairs.
2. Before removing the air filter, cooling pads or any protective guard for cleaning or maintenance, ensure the air cooler is switched OFF, disconnected from the power supply, and that all moving parts have come to a complete stop.
3. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or by persons lacking experience or knowledge, unless they have been given supervision or instruction concerning the safe use of the appliance by a person responsible for their safety.
4. Children must be supervised at all times to ensure they do not play with the appliance.
5. If the power supply cord is damaged, it must be replaced by the manufacturer, an authorised service agent or a similarly qualified person to avoid a hazard.
6. If the unit is connected to a continuous water supply, ensure the incoming water pressure is maintained at 0.1 MPa ±10% (approximately 100 kPa ±10%) to ensure correct operation of the float valve.

Before First Use

Before operating the air cooler:

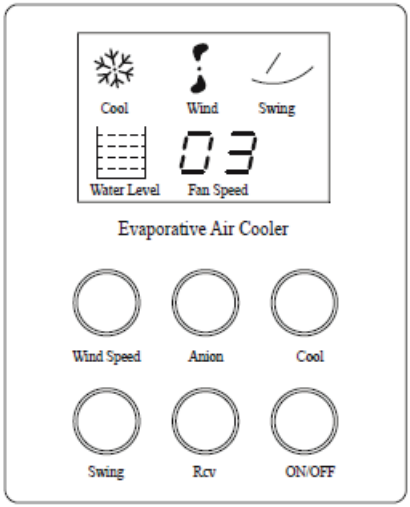
- Ensure the unit is positioned on a firm, level surface.
- Fill the water tank or connect the automatic water supply, if fitted.
- Confirm that the water level is between the MIN and MAX level indicators.
- Ensure all air inlets and outlets are free from obstructions.
- Open a window or door to provide fresh air intake and another opening to allow warm, humid air to escape.
- Connect the unit to a suitable earthed power outlet.

Following these instructions will ensure safe operation and optimum cooling performance.

OPERATION INSTRUCTIONS (Continued)

Keypad Instruction	Comment
ON/OFF	This turns the cooler on or off.
COOL	This activates the cooling function. Note that there is a delay of one minute before the fan starts while the cooling pads wet up.
SPEED	Pressing SPEED will select low, medium or high fan speed.
SWING	This activates/deactivates swing function.
TIMER Dealyed Start	This timer setting can be used to start the cooler after a certain number of hours delays. When only the green POWER light is on, press TIMER until the number of hours delay (1-24) is shown.
TIMER Automatic Stop	When the cooler is already going, press timer to set the number of hours (1-24) until the machine will automatically switch off.
WATER Supply	Use only clean, fresh water. Pour water into the water inlet on the right hand side of the unit (max 100L). Alternatively, attach a hose to the water inlet on the left side for automatic filling. Note a pressure reducing valve is recommended for high pressure water supplies.

REMOTE CONTROLLER





MAINTENANCE

Regular maintenance is essential to ensure optimum cooling performance, clean airflow and a long service life. To maintain the efficiency of the air cooler:
- Replace the water whenever it becomes dirty.
- Clean the air filter and cooling pads regularly.
- Keep the water tank free from dirt, sediment and biological growth.

Always switch the air cooler OFF and disconnect it from the power supply before carrying out any maintenance.

Cleaning the Cooling Pad
1. Remove the four retaining screws from the rear filter panel.
2. Lift the cooling pad assembly upwards and pull the bottom outwards to remove it from the unit.
3. Clean the cooling pad by rinsing from the inside towards the outside (the inside is the side facing the motor).
4. Allow the cooling pad to drain before reinstalling.

To reinstall the cooling pad:
1. Insert the top edge into the upper locating slot.
2. Push the bottom of the pad into position.
3. Ensure it locates correctly in the lower slot.
4. Refit and tighten the four retaining screws.

Important:
- Do not use detergents, solvents or chemical cleaners.
- Do not use high-pressure water, as this may damage the cooling media.
- Replace damaged or excessively worn cooling pads.

Cleaning the Water Tank
1. Remove the drain cap and allow all water to drain from the reservoir.
2. Wipe the inside of the water tank using a soft cloth.
3. Clean the following components to remove dirt, sediment and mineral deposits:

o Water level sensor
o Water pump
o Float valve

4. Rinse the tank thoroughly with clean water.
5. Refit the drain cap securely before refilling the tank.

Cleaning the Cabinet
Clean the exterior of the air cooler using a soft cloth and warm water with a mild detergent if required.
Do not:
- Use abrasive cleaners or scouring pads.
- Use corrosive or solvent-based cleaning products.
- Spray water directly onto the control panel, motor or electrical components.

Water Treatment
To help minimise the growth of algae, bacteria and other biological contaminants in the water reservoir, use a suitable evaporative cooler water treatment or sanitising tablet in accordance with the manufacturer's instructions.
Regular water treatment will help:
- Reduce biological growth.
- Minimise unpleasant odours.
- Improve hygiene.
- Extend the service life of the cooling system.

RECOMMENDED MAINTENANCE SCHEDULE

Component	Recommended Maintenance
Water Tank	Drain, clean and refill with fresh water daily during regular use.
Cooling Pads	Inspect monthly and clean as required. Replace if damaged or excessively worn.
Air Filter	Inspect weekly and clean whenever dirty.
Water Pump & Float Valve	Inspect and clean monthly.
Complete Unit	Inspect regularly for dirt, damage or loose components before operation.

Routine maintenance will maximise cooling efficiency, improve air quality and help ensure reliable, long-term operation of your BE Power Equipment Evaporative Air Cooler.

TROUBLE SHOOTING

Malfunction	Reason	Remedy/Solution
Operating screen Stays dark	-No power -Main control board failure -Fuse is blown -panel failure	-Check unit is plugged in -Change control board -Change fuse -Change panel
Display is normal but without air flow or the air speed is too low	-The fan is jammed -Cooling pad or dust filter is blocked -Fan is distorted -Main control board failure	-Check to ensure there is nothing preventing free rotation of the fan -Clean the cooling pad and dust filter -Change the fan -Change the main control board
Motor does not Respond to control Panel	-Main control board Failure -Panel failure	-Change the main control board -Change panel
Water leaking From drain valve	-Drain valve is loose -Dirt in valve	-Tighten drain valve nut -Clean drain valve
Air diffuser/swing Function not working	-Synchronous motor is burnt out -Crankshaft is broken	-Change synchronous motor -Change crankshaft
Water drops splash Out df the air diffuser	-Water pipe has come loose	-Check water pipe to top of filter pad and reattach or tighten as necessary

NOTE: This troubleshooting is for reference purposes only. If any technical assistance is needed, please contact your distributor for service/rep.

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