# EVAPORATIVE AIR COOLER KT-14
## User Manual

# KEY FEATURES

**Effective and Economical**
**Energy-saving & Environmentally friendly**

- **Reliable operation.**
- **Cools a large area.**
- **Quiet running.**
- **Adjustable speed.**
- **Automatic swing function – standard.**
- **Large water tank for extended time between fills.**
- **No need for compressed air.**
- **No installation, no duct work required.**
- **Easy to use, easy to clean.**
- **Corrosion-proof plastic body.**
- **Easy to maintain.**
- **Fully portable.**

## KT-14 Introduction

This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance. Ensure that the fan is switched off from the supply mains before removing the guard. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard. Unplug the appliance during filling and cleaning.

## KT-14 Applications

This cooler is currently being used in many different industries and applications in many countries. Company offices, shops, hospitals, schools, workshops, workers dormitories, outdoor teahouse/coffee bars, restaurants, recreation facilities.

Manufacturing:
Textile, machinery, ceramic, refined chemical industries, metallurgy, hardware, and leather industries.

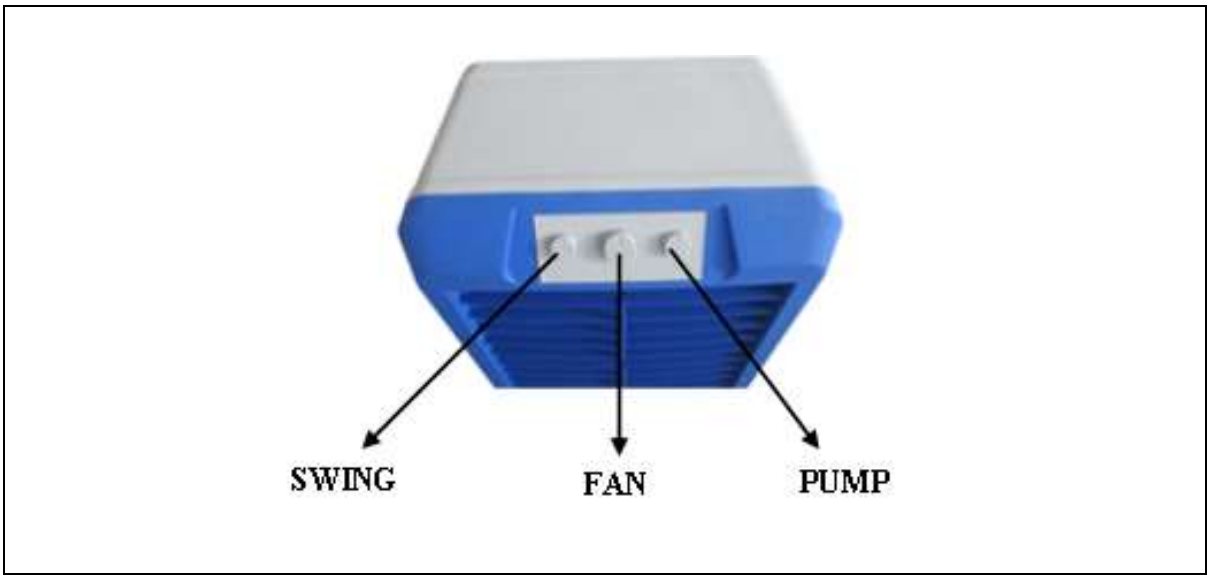
Industrial processing:
Electronics, clothes & shoe making, plastics, food industries, packaging.

Others:
Indoor sports courts, bakeries, playgrounds, laundries, kitchens, vegetable markets, gymnasiums, underground parking lots, greenhouses, chicken and pig farms, gardens, the list goes on.

## KT-14 Technical Specification

| | | |
|---|---|---|
| Model | - | KT-14 |
| Max airflow | $m^3/h$ | 4,000 |
| Rated voltage/frequency | V/Hz | 22-240/50 |
| Rated power | W | 110 |
| Fan style | - | Axial |
| Water consumption | L/H | 2-3 |
| Water capacity | L | 33 |
| Dimensions | Mm | 500x365x975 |
| Effective | $m^2$ | 20-25 |

## KT-14 Technical Feature



## KT-14 Important Reminders

Please read the manual carefully before operating the cooler.

Operating conditions:

1) Temperature: 18℃ to 45℃; Water Temperature: < 45℃.
2) The power supply must not exceed the required voltage (+/-) 5%.
3) Air supply must be largely free of dust or extra cleaning is required.

Protect the power cable from vehicle or foot traffic. Connection to incorrect electric voltage, or faulty installation, will cause danger of electric shock.

If the product malfunctions at startup, please disconnect from electric power immediately and refer to the dealer for service.

Necessary caution measure including grounding:

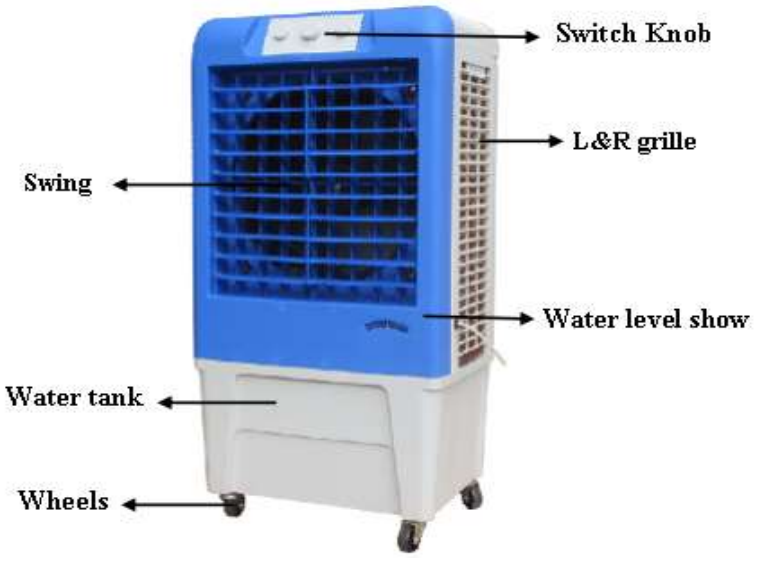
1) Keep doors and windows open to allow fresh air to enter, and treated air to exit, when cooler is operating.
2) Flashing red light on the control panel means the water level in reservoir is low.
3) Rinse the reservoir with fresh water and clean prior to use after a period where the cooler has not been in operation.
4) Take care when moving the cooler, especially when it is full of water. Pushing too hard will cause the cooler to overbalance and tip over, which may cause injury and will damage the cooler.
5) Simplified description of the cooler installation process and the connection modes to supply main of water and electricity.

Open the carton, make sure the cooling machine is good looking, put water into the water tank, put plug on, power supply is 220-240V/50Hz including grounding. There is no lubricating process because there is no belt.

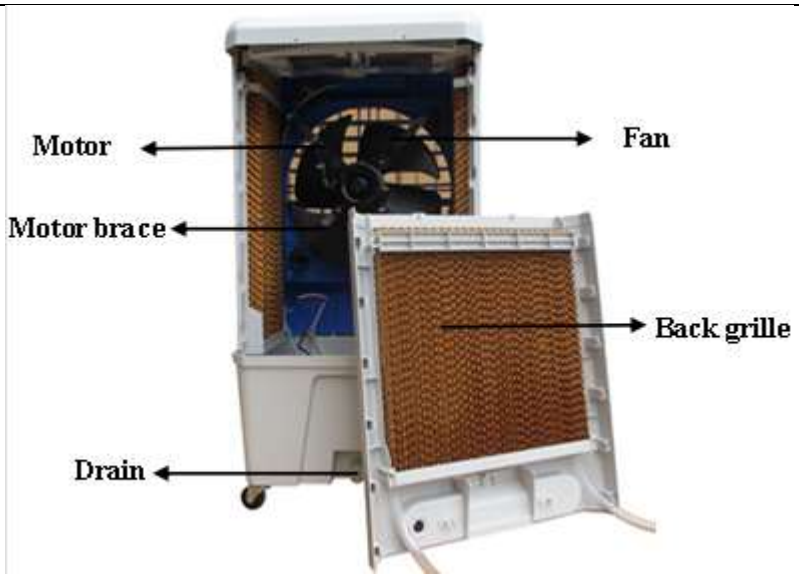
Clean the water reservoir and change the water in the reservoir each month. Make sure the power is off, open the cooling pad, wash pad and water tank in clean water monthly.

## KT-14 Diagram

Outside:



Inside:



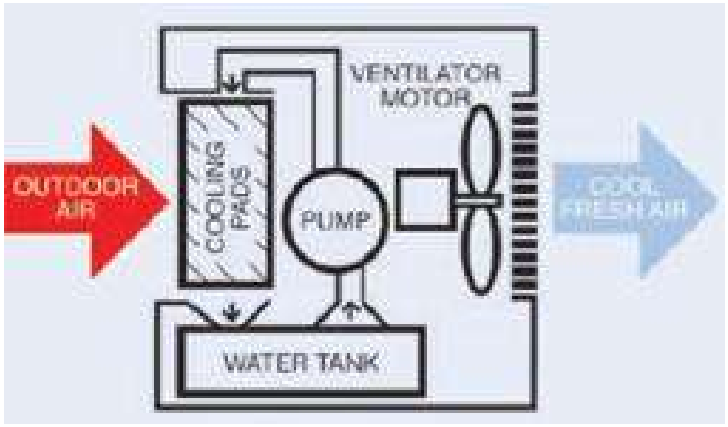

## Operating Instruction

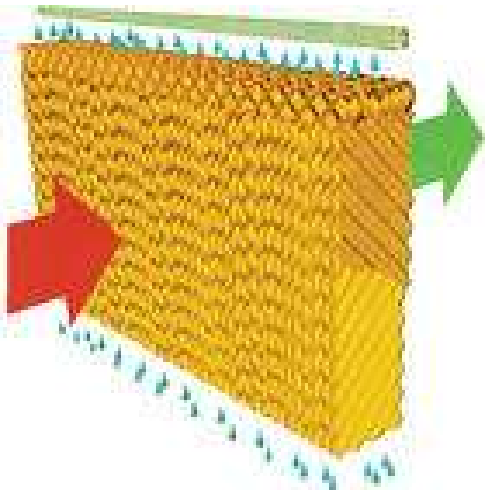
**WARNING**

1) The power supply cord includes 3 wires (live, neutral & earth) and the switch must be near to where the cooler is placed.
2) The electric supply shall be disconnected when inspection or maintenance of the cooler is taking place.
3) Children should be supervised to ensure that they do not play with the appliance.
4) Ground connection and electrical supply shall be disconnected before opening the window.

| Keypad instruction | Operation method |
|---|---|
| POWER | Plug the unit in. |
| COOL/FAN | This activates the cooling function. Note that there is a delay of up to one minute before the fan starts whilst the cooling pads soak. |
| PUMP | When COOL is pressed again, the water evaporation feature is turned off, with on the fan operating. |
| SPEED | Pressing SPEED will select low, medium, or high fan speed. |
| SWING | This activates/de-activates swing function. |
| WATER SUPPLY | Use only clean, fresh water.<br>Pour water into the water inlet on the right-hand side of the unit (max 30L). 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. |

## KT-14 Basic Principal



## KT-14 Maintenance

For the best results and long-term operation, regular maintenance is essential.

To ensure the cooler delivers fresh and clean air, regularly change the evaporation joint and clean the water reservoir. It is vital to change the water in the reservoir each month.

1) Remove the filter pad by unscrewing the 4 screws on the rear of the cooler, then lift the pad and pull out at the bottom to release. To replace the pad, slide up into the slot under the top of the cooler, push in at the bottom and allow dropping into the lower slot.
2) Clean the pad from the inner side to outside of the pad (inner side is towards the motor). Never use any liquid detergent and never use pressurized water as it may cause damage to the pad.
3) Unscrew the drainage lid to let dirty water flow out, then clean the water tank thoroughly with a soft cloth. Wash off dirt on the water sensor, water pump and then float valve. Rinse thoroughly.
4) Use mild soap and a soft, clean cloth when cleaning the cooler casing. Do not use any caustic chemical detergent that may cause damage to the surface of the cooler.
5) To prevent buildup of algae and biological organisms in the reservoir, regularly add chlorine/bromine tablets as per the tablet manufacturer recommendations for evaporative cooler reservoirs.

## KT-14 Troubleshooting

| Problem | Possible reason | Solution |
|---|---|---|
| Unable to start the fan | Power failure<br>Loose PCB connection<br>Fuse burned out | Check power supply<br>Check PCB connection<br>Replace fuse |
| Lower or no airflow | Fan damaged<br>Cooling pad jammed<br>Filter jammed<br>Starting capacitor damaged<br>Fan stuck | Replace fan<br>Clean cooling pad<br>Clean filter<br>Replace capacitor<br>Check fan and its housing |
| No cooling airflow | Water lack<br>Cooling pad jammed<br>Water pump damaged<br>Water sensor damaged<br>Water pipe drops off<br>Water distributor jammed | Fill water into tank<br>Clean cooling pad<br>Replace water pump<br>Replace water sensor<br>Tighten water pipe<br>Check water distributor |
| Grill does not swing | Swing motor damaged<br>Swing motor crankshaft drops off | Replace swing motor<br>Check swing motor crankshaft |
| Leak from drainage outlet | Loose drainage cap<br>Rubber O-ring damaged | Tighten the cap<br>Replace O-ring |
| Water splashes out of grill | Water pipe drops off | Tighten water pipe |

Note: this troubleshooting is here for reference purposes only. If any technical assistance is needed, please contact your distributor for service/repair.