EVAPORATIVE AIR COOLER
FC440

User Manual

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TROUBLESHOOTING

Malfunction	Reason	Remedy/Solution
-LCD screen stays dark	-No power -Fuse is blown -Main control board failure	-Check unit is plugged in -Check power point is live by plugging in another appliance. -There is a fuse on the control board. Check fuse (electrician) -Change control board (electrician)
-Display is normal but no 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 -Change the fan -Change the main control board (electrician)
-Motor does not respond to control panel	-Main control board failure	-Change the main control board (electrician)
-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	-Swing motor is burnt out	-Change swing motor
-Water drops splash out of 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. Any electrical work must be carried out by a qualified electrician.

SPARE PARTS :

FC440-01	Cooling Pad	FC440-06	Float Valve
FC440-02	Water Pump	FC440-10	LCD Control Panel
FC440-04	Swing motor	FC440-11	Water Level Sensor
FC440-05	Level indicator		

INTRODUCTION

Thank you for purchasing our product. We trust it will give you long and trouble free service.

The cooler is a high-tech product, showing simplicity and outstanding reliability.

Its working principle is that water evaporation uses up the surrounding heat and causes the temperature to cool down.

When water is continuously distributed onto the cooling pad surface, the air being drawn through the pad causes the water to evaporate, making the air cool and fresh. The circulating water moves down to the reservoir, where it is again pumped up through the cooling pads. If the hose option is being used (supplied as standard), a float valve keeps the reservoir full continuously. If filled manually, the big 70 Litre capacity reservoir ensures hours of uninterrupted operation. There is a digital level indicator to quickly check the amount of water remaining.

APPLICATIONS

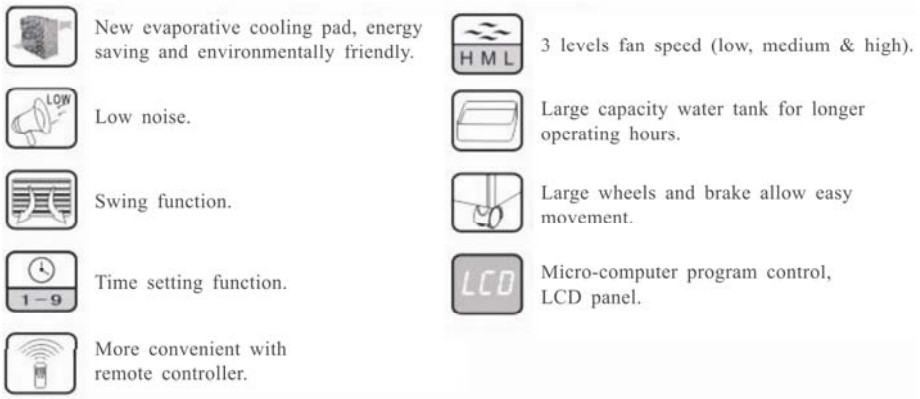
This cooler is currently being used in many different industries and applications

It is ideally suited to garages, workshops, outdoor events, large shops, animal husbandry and recreational facilities.

TECHNICAL SPECIFICATION

MODEL	FC440
Max Airflow (M^3/H)	12000
Power supply/Frequency (V/HZ)	220-240/50
Power Consumption (W)	440
Fan Style	Axial
Water Consumption (L/H)	8-10
Water Capacity (L)	70
Dimension (L*W*H) (mm)	925×580×1440
Weight (kg)	43
Effective Cooling Area (M^2)	100-150

KT-24 ----TECHNICAL FEATURE



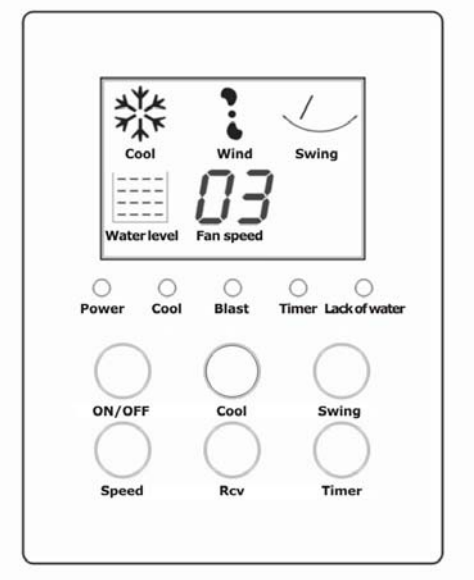
MAINTENANCE

FOR BEST RESULTS AND LONG TERM OPERATION REGULAR MAINTENANCE IS ESSENTIAL.

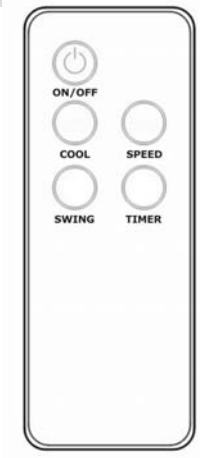
To ensure the cooler delivers fresh and clean air, regularly change the water when dirty, and clean both the dust filter and the cooling pad.

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 to drop into the lower slot.
2) Clean the pad from the inner-side to out-side of pad (inner side is towards motor). Never use any liquid detergent. 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 the float valve. Rinse thoroughly.
4) Use mild soap and 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 tablet manufacturer recommendation for evaporative cooler reservoirs.

CONTROL PANEL



REMOTE CONTROLLER



IMPORTANT REMINDERS

Please read the manual carefully before operating the cooler.

A) Operating conditions:

1- Temperature: 18℃ to 45℃; Water Temperature: < 45℃.

2- Power supply must not exceed the required voltage (+/-) 5%.

3- Air supply must be largely free of dust or extra cleaning is required.

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

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

D) Other tips for cooler use:

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 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- To prevent buildup of algae and other biological organisms in the reservoir, regularly add chlorine/bromine tablets as per tablet manufacturer recommendation for evaporative cooler reservoirs.

KEY COMPONENTS

OPERATION INSTRUCTION

WARNING

Before attempting to operate or install this unit carefully read and take note of the following safety warnings.

Failure to comply with these warnings may result in serious injury or death.

1. All electrical repairs must only be carried out by a suitably qualified electrician, after all power is disconnected.
2. This cooler is not intended for use by children or persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge.
3. Children should be supervised to ensure that they do not play with the appliance.

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.
BLAST	When COOL is pressed again, the water evaporation feature is turned off, with only the fan operating.
SPEED	Pressing SPEED will select low, medium or high fan speed.
SWING	This activates/deactivates swing function.
TIMER Delayed start	The timer setting can be used to start the cooler after a certain number of hours delay. 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 70L). 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.