



**McCarthy Hire**

PART OF MCCARTHY ENVIRONMENTAL GROUP  
ENGINEERING CLEAN AIR

# MC 250 AIR COOLER

## INSTRUCTION MANUAL





## MC 250 - INTRODUCTION

Thank you for choosing a McCarthy Hire air cooler. We hope it will give you lasting satisfaction. The cooler is a high-tech product that is extremely simple to use and exceptionally reliable, thanks to its European design.

It works on the following principle: the evaporation of water uses the surrounding heat to cool the room. When water is continuously distributed over the surface of the cooling panel, the air drawn through the cushion causes the water to evaporate, making the air cooler. The circulating water flows back to the reservoir, where it is pumped back through the cooling panels.

If the automatic refill option is used (supplied as standard), a float valve keeps the tank full at all times. If filled manually, the large 130-litre tank guarantees hours of uninterrupted operation. A level indicator lets you quickly check how much water is left.

This appliance is designed exclusively for room air cooling and must not be used for any other purpose. It only works with water and must not be combined with any other substances. In the event of inappropriate use, we will not be responsible for repairs.

## MC 250 - USAGES

This air cooler is currently used in several different industries for many different purposes in numerous countries. The examples are the following:

### **Service sector:**

Office buildings, stores, hospitals, schools, workshops, break rooms, outdoor tea/coffee shops, restaurants, recreational facilities.

### **Production and manufacturing:**

Textiles, machinery, ceramics, refined chemicals, metalworking, hardware, leather, electronics, footwear and apparel production, plastics, food processing, and packaging.

### **Others:**

Covered sports playing fields, playgrounds, industrial laundry cleaning, farmer's markets, gymnasiums, underground parking structures, greenhouses, chicken and cow farming, gardens, etc.



## MC 250 - PRIMARY FEATURES

- Efficient and economical
- Energy-saving
- Environmentally friendly
- Reliable operation
- Capable of cooling large spaces
- Quiet operation
- Adjustable speed
- Standard automatic oscillation function
- Large water reservoir for prolonged use
- No installation or ductwork required
- Easy to use and easy to clean
- Casing made from anticorrosive plastic
- Easy to maintain
- Completely portable
- Possible to connect to a standard garden hose
- Timer function for delayed start or automatic stop

## MC 250 - TECHNICAL SPECIFICATIONS

Max. Airflow	m <sup>3</sup> /h	22 000
Electric Supply	V/Hz	220-240 / 50
Surface Treated	m <sup>2</sup>	up to 250 m <sup>2</sup>
Water Capacity	L	130
Water Consumption	L/H	10 - 15
Nominal Current	A	2.8
Water Supply		auto or manual
Measurements (L/W/H)	mm	1120 x 640 x 1600
Weight	kg	50
Power	W	640
Reservoir Level Control		YES
Noise Level	dB	58/64/68
Fan		Axial

## MC 250 - TECHNICAL FEATURES



Economical and environmentally friendly evaporative cooling system



3 speed levels (low, medium, and high)



Low noise disturbance



High-capacity water tank for long hours of operation



Swing function



Large wheels and brake make it easy to move and immobilise the machine



Timer function



Program control via electric panel, LCD display



## MC 250 - IMPORTANT REMINDERS

**Please carefully read the manual before operating the air cooler.**

A) Operating conditions:

1. Temperature 18°C to 45°C ; Water temperature: < 45°C
2. The power supply must not exceed the required voltage (+ / -) 5%
3. The air supply must be largely free of dust, if used without a filter, or additional cleaning is required.

B) Protect the power supply cable from vehicular and pedestrian traffic. Connection to an incorrect voltage or a faulty installation could result in electrocution.

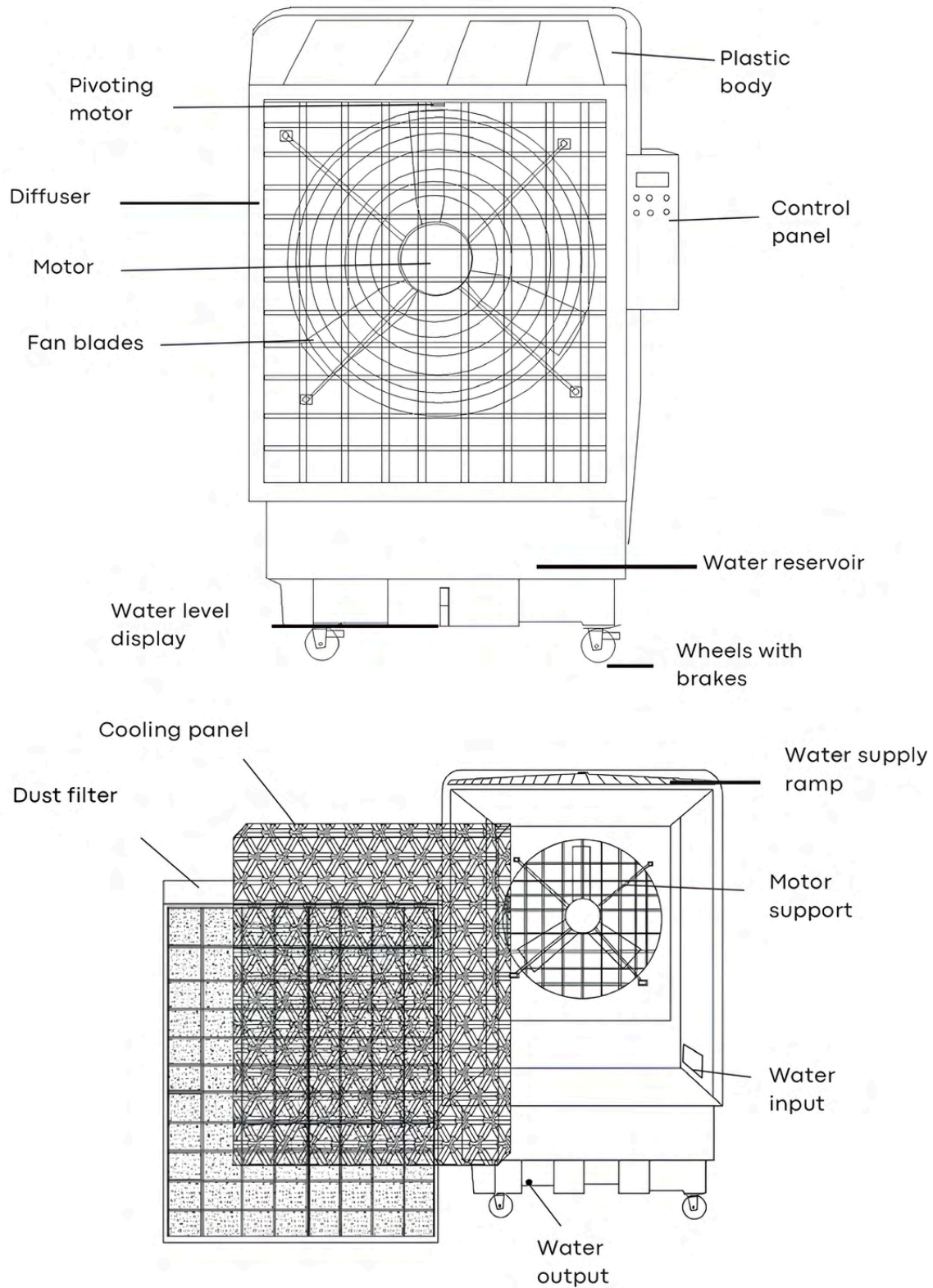
C) If the device does not function properly at startup, unplug it immediately from the power source and contact your distributor for repairs.

D) Other advice for using the air cooler:

1. Leave doors and windows open to allow fresh air in and treated air out when the cooler is running.
2. The blinking red light on the control panel indicates that the water level in the reservoir is low.
3. Rinse the reservoir with fresh water and clean it before using it after a period of inactivity.
4. Be careful when moving the cooler, especially when it is full of water. Pushing too hard can cause the cooler to become unbalanced and tip over, resulting in injury and damage to the cooler.
5. To prevent the build-up of algae and other biological organisms in the tank, regularly add the appropriate product as recommended by the tablet manufacturer for evaporative cooler tanks.



## MC 250 - KEY ELEMENTS





## MC 250 - OPERATING INSTRUCTIONS



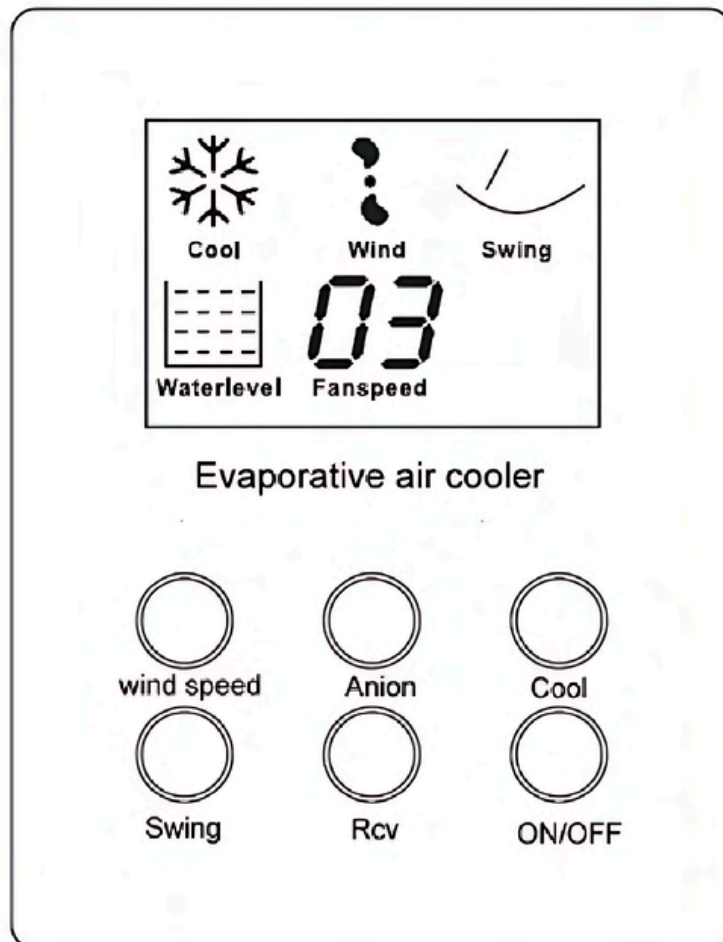
### WARNING

1. All electric repairs should be carried out by a qualified electrician, after having cut the power supply.
2. If the instructions indicate that the protective grille is to be removed for cleaning: ensure that the fan is disconnected from the power supply before removing the protective grille.
3. This device is not designed to be used by people (including children) whose physical, sensorial, or mental capacities are reduced or by those who lack the experience and knowledge unless they are under surveillance or instruction from someone responsible for their safety. Children must be supervised to ensure that they are not playing with the device.
4. If the power supply cord is damaged, it must be replaced by the manufacturer, the service representative, or by a person with similar qualifications in order to avoid any danger.
5. Water pressure 0.1 MPa (+ / -) 10%

Instruction Key	Comments
ON / OFF	This function allows to activate or deactivate the reservoir.
COOL	This activates the cooling function. Note that there is a one-minute delay before the fan starts, the time it takes for the cooling panels to dampen.
SPEED	Press SPEED to select low, medium, or high fan speed.
SWING	This allows to activate or deactivate the oscillation function.
TIMER Delayed start	The timer function can be used to start the air cooler after a certain number of hours of delay. When the green POWER light is on, press the TIMER button until the number of hours of delay (1-24) appears.
TIMER Automatic stop	When the air cooler is already operating, press the TIMER button to set the number of hours (1-24) until the device turns off automatically.
WATER SUPPLY	Use only clean water. Pour the water into the water input valve situated on the right side of the device. If needed, a hose can be attached to the input valve on the left side of the device to allow for automatic filling. Note: it is recommended to use a pressure reducer for high pressure water supplies.



## MC 250 - CONTROL PANEL







## MC 250 - MAINTENANCE

**For optimal results and long-lasting operation, routine maintenance is essential.**

In order to ensure the cooler supplies fresh and clean air, it is necessary to change the water regularly when it is dirty, clean the dust filter, and the cooling panels.

Disconnect the machine from the mains and switch it off before carrying out any maintenance on the appliance.

1. Remember to lock the brakes to prevent the machine from drifting.
2. Remove the filter by unscrewing the 4 screws located on the back of the air cooler.
3. Next, lift up the filter and pull on the lower part to release it. To replace the filter, slide it upwards to the slot underneath the upper portion of the cooler, push it downwards and let it fall into the lower slot.
4. Clean the panel from the inside out (the inside is facing the motor). Never use any liquid detergent. Never use pressurised water, as this could cause damage to the pad.
5. Unscrew the drain cover to allow the dirty water to drain away, then clean the water tank thoroughly with a soft cloth. Remove the dirt from the water sensor, water pump, and float valve. Rinse thoroughly.
6. Clean the cooler housing with a soft cloth. Do not use caustic chemical detergents which could damage the cooler surface.



## MC 250 - TROUBLESHOOTING

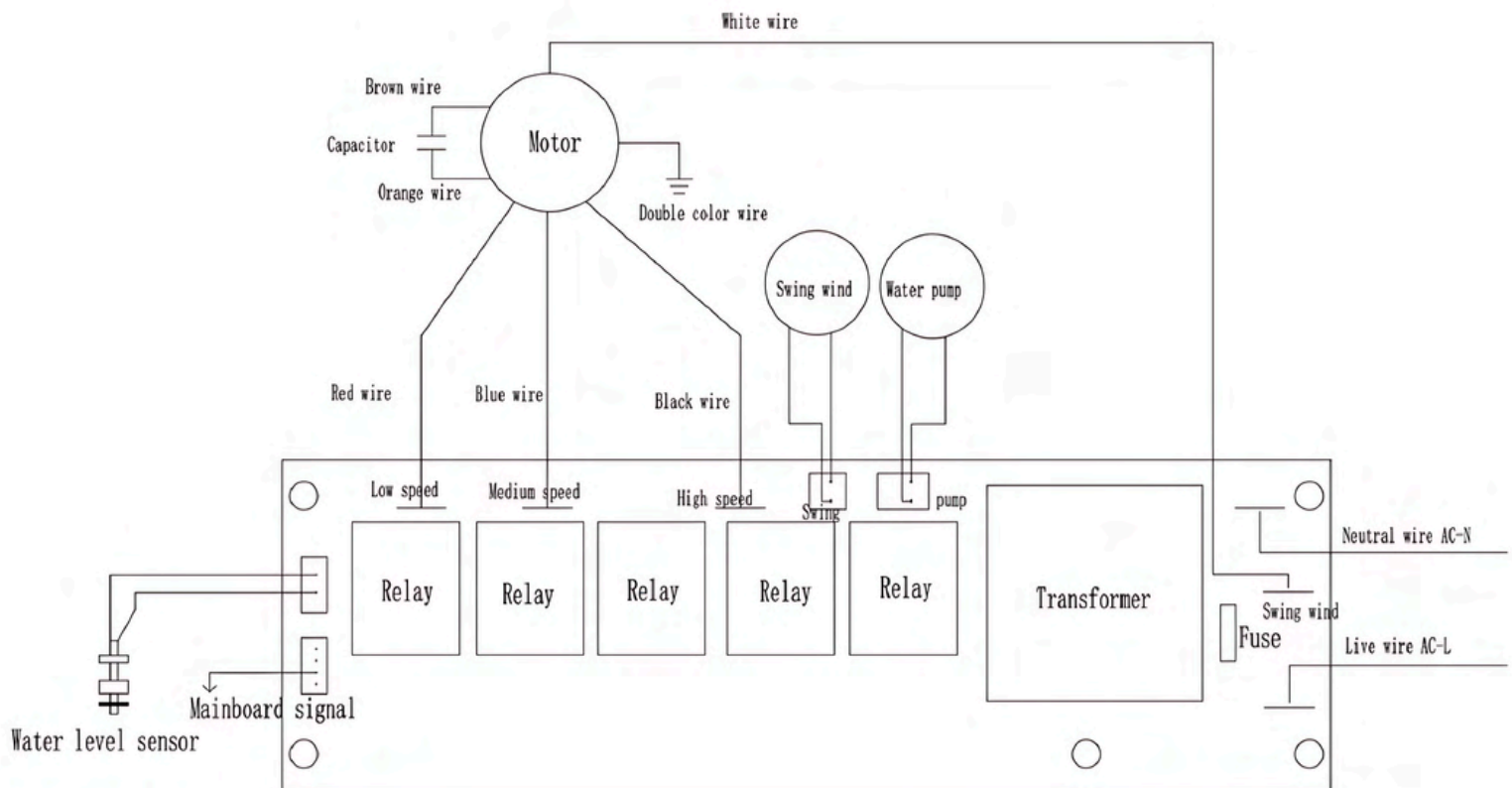
Malfunction	Reason	Solution
The display screen remains dark	<ul style="list-style-type: none"><li>• No electricity</li><li>• Main control board failure</li><li>• The fuse has blown</li><li>• Faulty panel</li></ul>	<ul style="list-style-type: none"><li>• Ensure that the device is plugged in</li><li>• Change the control board</li><li>• Change the fuse</li><li>• Change the panel</li></ul>
The display is normal but the airflow is insufficient or the air speed is too low	<ul style="list-style-type: none"><li>• The fan is blocked</li><li>• The cooling pad or the dust filter is clogged</li><li>• The fan is defective</li><li>• Main control board failure</li></ul>	<ul style="list-style-type: none"><li>• Ensure that there is nothing blocking the free rotation of the fan</li><li>• Clean cooling panel and dust filter</li><li>• Change the fan</li><li>• Replace the control board</li></ul>
The motor does not respond to the control panel	<ul style="list-style-type: none"><li>• Main control board failure</li><li>• Panel malfunction</li></ul>	<ul style="list-style-type: none"><li>• Change the control board</li><li>• Change the panel</li></ul>
Water leak from the drain valve	<ul style="list-style-type: none"><li>• The drain valve is loose</li><li>• Dirt in the valve</li></ul>	<ul style="list-style-type: none"><li>• Tighten the drain valve nut</li><li>• Clean the drain valve</li></ul>
The air diffuser/the oscillation function is not working	<ul style="list-style-type: none"><li>• The synchronous motor is burnt out</li><li>• The crankshaft is broken</li></ul>	<ul style="list-style-type: none"><li>• Change the synchronous motor</li><li>• Change the crankshaft</li></ul>
Water droplets are projected from the air diffuser	<ul style="list-style-type: none"><li>• The water pipe has detached</li></ul>	<ul style="list-style-type: none"><li>• Check the water pipe to the top of the filter and re-attach or re-tighten</li></ul>

**Note:** This troubleshooting is provided for reference only. If you require technical assistance, please contact us for service/repair.

**Warning:** The reservoir contains a UV lamp to disinfect the water. This lamp is on when the cooling function is active. The UV light emitted by this lamp may cause burns to the eyes. Never look directly into a UV lamp in operation. Always unplug from the power source before maintenance.



## MC 250 - WIRING DIAGRAM





First Name:	Contact:
Last Name	Address:
Maintenance Records:	