

# **MASTERKOOOL**

## Installation & Operation Manual Model no.: MIK-09EX

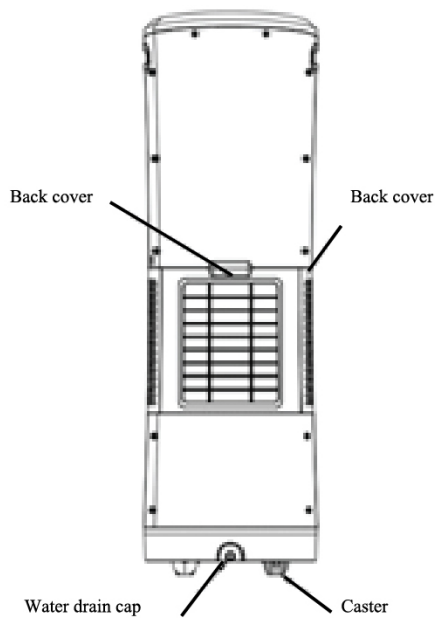
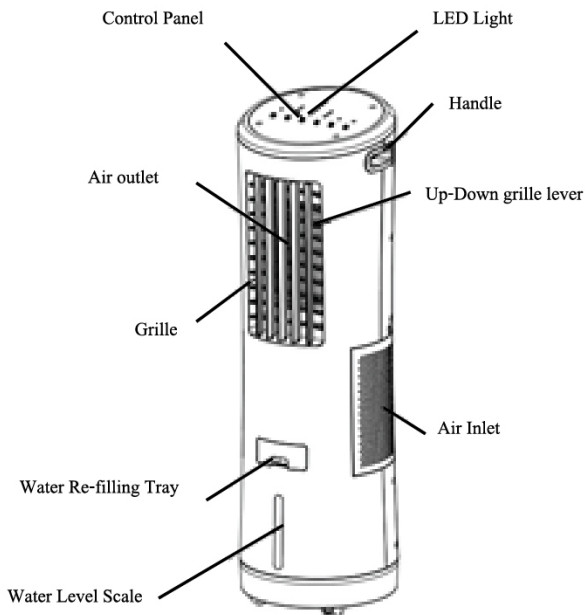


Please read this manual carefully before using the product

# Contents

	Page
1. Structure Diagram	1
1.1 Functions	2
2. Operating Guide	3
3. Caution	3
4. Operating Instruction	4
4.1 Filling Water	4
4.2 How to use the functions	4
4.2.1. Power	4
4.2.2. Swing	4
4.2.3. Fan Speed	4
4.2.4. Anion	4
4.2.5. Timer	5
4.2.6 Cool	5
5. Cleaning & Maintenance	5
6. Troubleshooting	7
7. Technical Information	8
8. Product Appearance	9

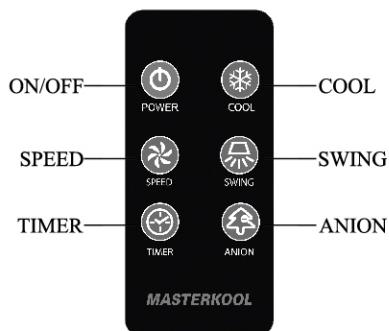
# 1. Structure Diagram



## 1.1 Functions



- |                         |                        |
|-------------------------|------------------------|
| 1. ON/OFF (POWER)       | 4. ANION               |
| 2. SWING (Left-Right)   | 5. TIMER (1H / 2H/ 4H) |
| 3. SPEED (Low/Mid/High) | 6. COOL                |



## 2. Operating Guide

- 2.1 The air cooler is designed and controlled by Capacitive Sensor Therefore, the system will start operating only when finger touch on each sign of the control panel.
- 2.2 Avoid using the evaporative air cooler in a closed area. The unit should be used in well-ventilated areas only.
- 2.3 Before turning the unit on, fill the tank with water to ensure efficient operation of the evaporative air cooler. Avoid operating Cool function while the water tank is empty.

### **Remarks: Water level must not exceed the limit of water level scale**

- 2.4 Drain the water tank and clean the tank frequently
- 2.5 Fill the tank with clean water only, do not put any other liquid into the tank.
- 2.6 Make sure that the operating voltage is not lower than regular voltage (220 V) or exceed than 5% of regular voltage. If the voltage is lower than the limit, the air cooler cannot be operated smoothly or even turned on. If the voltage is higher than the limit, it can cause the damage to the machine.
- 2.7 Remove the plug from the socket when the machine is not being used.

## 3. Cautions

- 3.1 Be careful the water spilled out while moving the unit
- 3.2 Do not put anything on top of this air cooler or obstruct the air inlet and outlet
- 3.3 Do not insert any object into the vent while the machine is operating
- 3.4 Unplug the machine before cleaning to prevent the electric shock
- 3.5 Stop operating this air cooler immediately if it functions abnormally for example the power cord damaged, electricity leaks, and contact our service center for further instruction. User is not recommended to unassembled and repair the machine.

## 4. Operating Instruction


### 4.1 Filling Water

By pulling the water refilling tray at the front of air cooler, then use the water container or water pipe to fill up the water tank up to “MAX” level which appear at the Water Level Scale



Caution: Do not fill up the water exceed “MAX” level to avoid the water spilling out while moving the air

### 4.2 How to use the functions



#### 4.2.1 POWER ON/OFF

Press  icon on the Control Panel or the Remote Control to turn on the air cooler and its light is illuminated. Press this icon again to turn it off and its light is off.

#### 4.2.2 SWING SWING



Press  icon on the Control Panel or the Remote Control to let the vertical front grille swing automatically and its light is illuminated. Press this  icon again to stop the swing mode, then its light is off.

#### 4.2.3 FAN SPEED SPEED


Press  icon then the fan will start operating at the lowest speed (1). Press  icon on the Control Panel or the Remote Control to adjust wind speeds to low (1), medium (2), high (3).

3 speed lights (1,2,3) indicates selected current wind speed. The wind speeds change on rotating basis (from low-mid-high)



#### 4.2.4 ANION ANION

Press  icon on the Control Panel or the Remote Control. To stop Anion mode, press  icon again. The system will stop Anion function.  
(Anion is the air purification system)

#### 4.2.5 TIMER TIMER

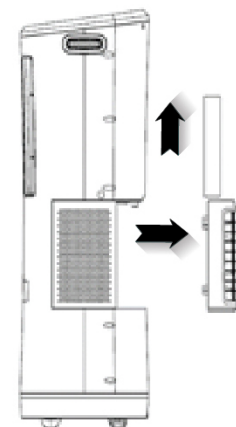
Press   
TIMER icon on the Control Panel or the Remote Control to set the timer. Each time that the icon is pressed, it will change from 1H to 2H, from 2H to 4H and from 4H to non-setting mode by. The time will be circulating in from of 1H-2H-4H-Non-time. (The Timer can be set from 1-7 hours)

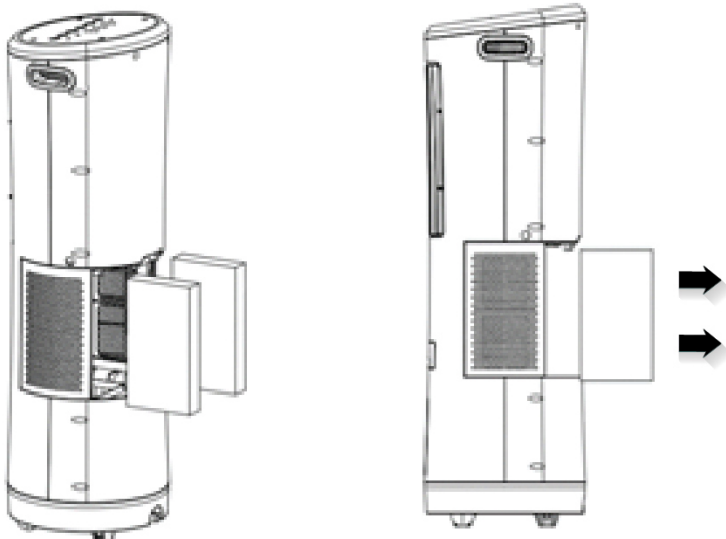
#### 4.2.6 COOL COOL

Enter the Cool mode by pressing the   
COOL icon on the control panel or remote control. To turn off the Cool mode, press   
COOL icon again. The system will automatically exit the Cool mode.

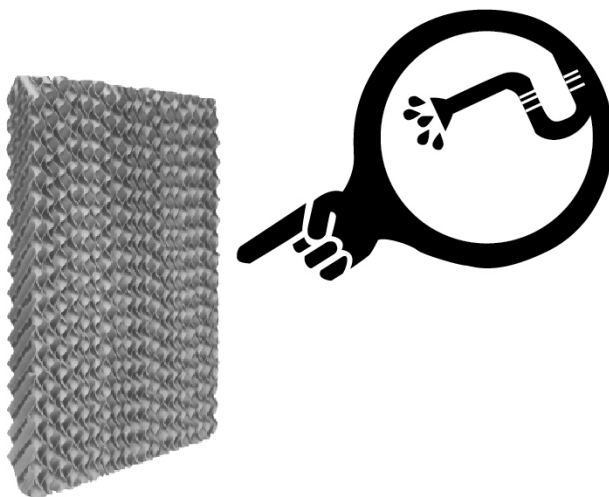
**REMARKS:** When the Cool mode is activated, the pump inside the water tank will pump water to saturate the cooling pads. Heat that flows through the cooling pads will exchange with the water and cool the air flowing through the cooling pads to lower the temperature. Therefore, a decrease in temperature depends on relative humidity and air temperature when the unit is in Cool mode. In the case where the fan speed is high, when the icon is pressed, the fan will drop to the lowest speed for 30 seconds before resuming the speed previously set.

#### 5. Cleaning & Maintenance (3 pieces of Cooling Pad)





Pull the cooling pad out in the same direction as the arrow identify above.



Clean the cooling pad with normal water and wipe the dirt with soft brush.



7. Technical Information

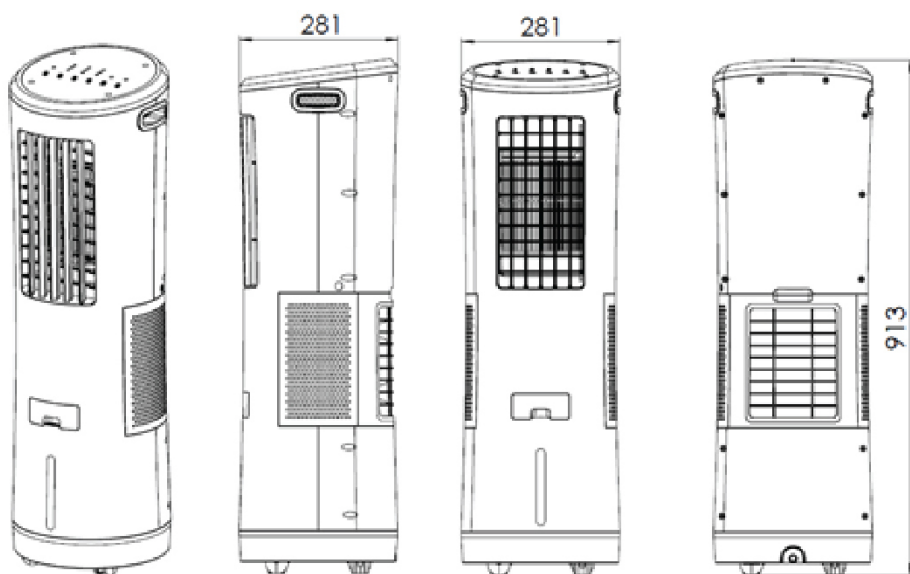


Model Name	MIK-09EX
Air volume	900 m <sup>3</sup> /hr
Area coverage	15 m <sup>2</sup>
Power	85 W
Input electricity	220 V/50 Hz
Current	0.38 A
Water tank capacity	10 Liter
Water continuous usage	12 Hour
Water evaporation rate	0.5-0.75 liter/hour
Fan speed	3 speed
Vent size	18x30 cm.
Cooling Pad Type	4090
Overall dimension	281x281x913 mm.
Net weight	6.5 kg.
Operating Weight	16.5 kg.
Remote control	✓

## 6. Troubleshooting

MIK-09EX				
No.	Problem	Possible Cause	Corrective Action	Remarks
1.	The evaporative air cooler is not functioning and does not respond when buttons are pressed	Blackout or faulty power connection	Measure the input voltage and connect to a designated power supply.	Recommended to use Voltage meter to get the right voltage..
		AC fuse is damaged or the circuit stops functioning in order to prevent power overload.	Replace the fuse or restart the unit.	If the problem remains unsolved, please contact Service Center
		Remote control batteries have run out.	Change the batteries.	
		Remote Control or Control Panel is damaged	Repair or replace the control panel with another of the same model.	Change the batteries.
2.	No air flows from the unit while the machine is operating.	Damaged motor	Repair or replace the motor with another of the same model.	Change the batteries.
		Incorrect motor connection or loose motor connection	Determine whether or not the motor with connections are in order.	
		Thermal protection inside the motor is working.	Leave the unit off until the fan motor is cool enough to be used as usual.	
3.	The pump functions but it is not cool enough.	The dust filters clogged or dirty clogged.	Clean or replace the dust filters.	
		The cooling pads clogged.	Clean or replace the cooling pads.	
		The cooling pads are dry or contain insufficient water while the evaporative air cooler is working.	Check the top water distribution tray to determine whether or not there is a clog. Determine if the pump is functioning correctly.	
		Excessively high relative humidity.	When the evaporative air cooler is used for a long period of time the room humidity will be very high, so the evaporative a cooler will be unable to lower temperature as much as when the room's humidity is lower. Turn th Cool mode of and is lower. Turn the Cool	
4.	The pump fails to function and provide cooling.	Damaged pump	Repair or replace the pump with a pump of the same model.	
		Loose pump motor connection	Tighten connection.	
5.	The pump functions but does not circulate water, or the cooling pads contain too little water	Clogged top water distribution tray	Clean the top water distribution tray.	
		Clogged water supply hose or pump strainer.	Clean the water hose or remove the particles clogged at the pump strainer	
6.	Water spitting from the unit	Cooling Pad stay out of the position.	Place Cooling Pad in the right position.	
		Clogged top water distribution tray	Clean the top water distribution tray.	
7.	Undesirable odor	The unit is placed in an area where undesirable odors are present, or algae are present in the water tank.	Clean the water tank and the cooling pads.	
8.	White sediments in the water tank	Water has a high content of salt.	Drain the tank and clean the cooling pads more frequently.	

## 8. Product Appearance



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