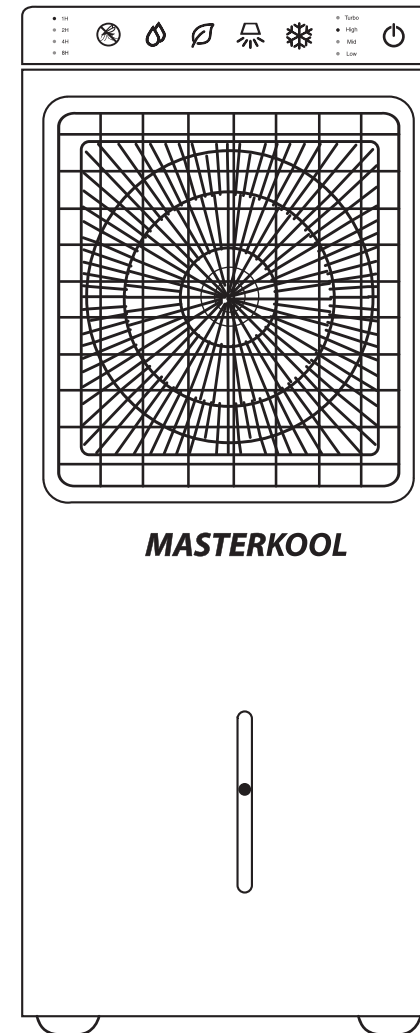


MASTERKOOL

Installation & Operation manual MIK-28EX

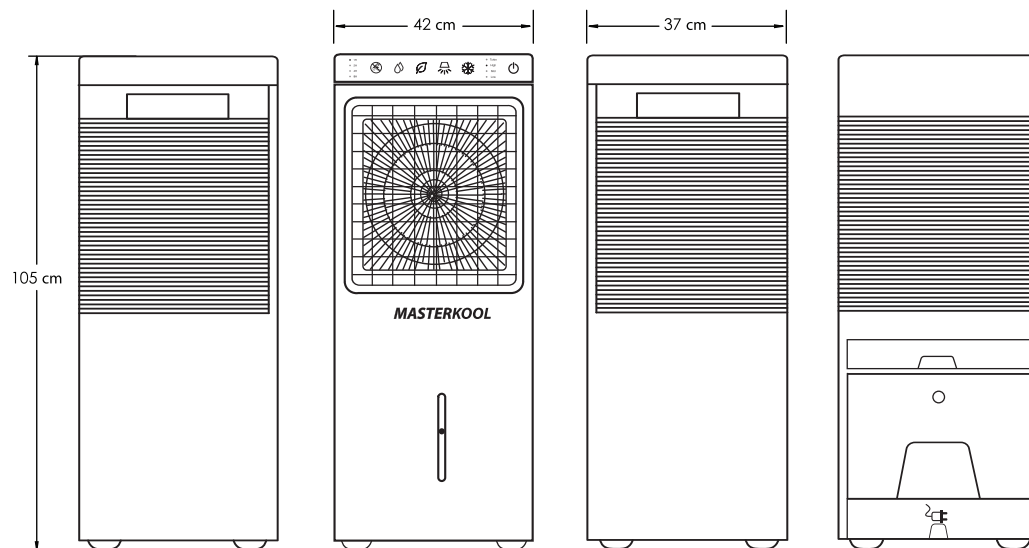


Please read this manual carefully before using the product

Contents

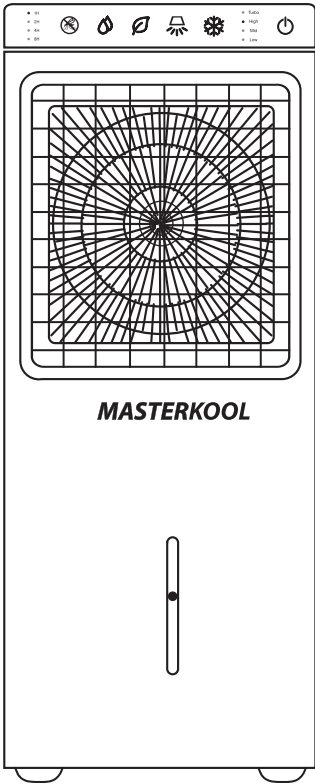
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8. Product Appearance

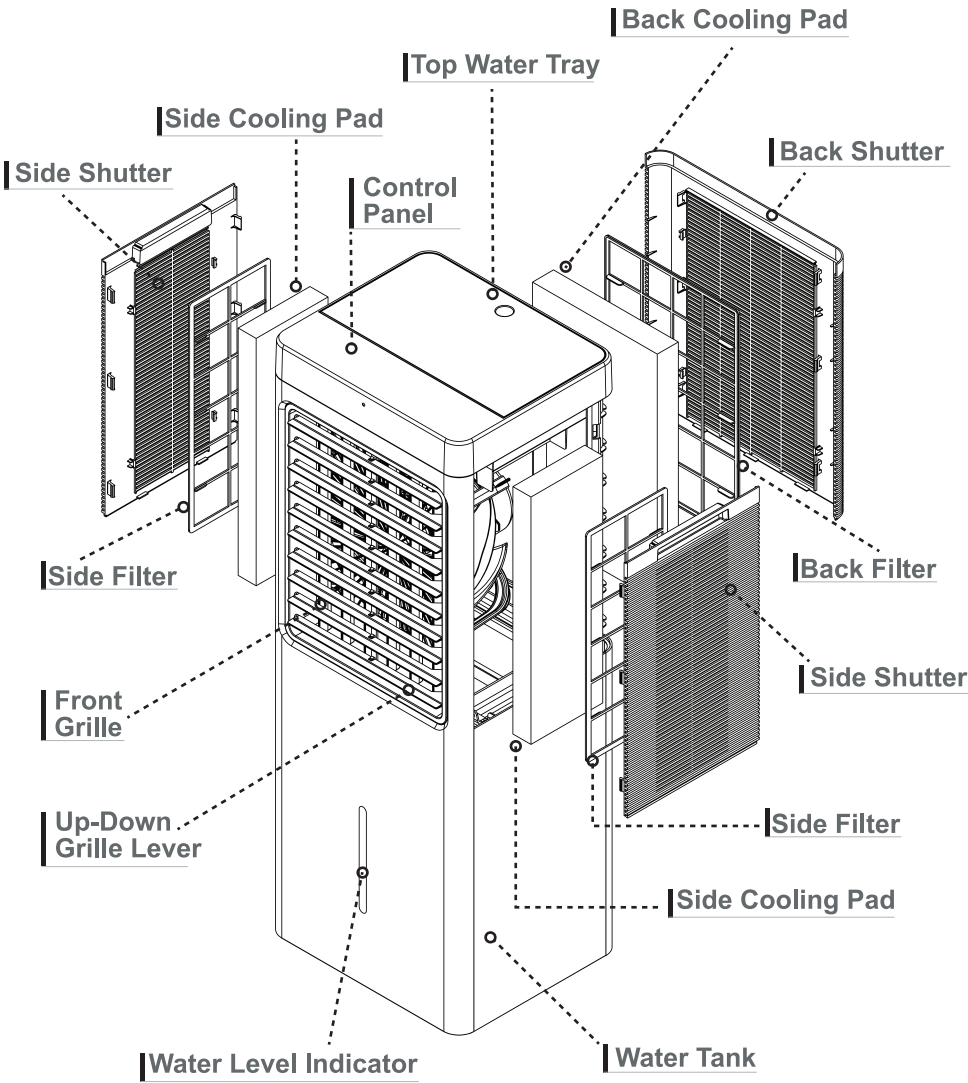


7. Technical Information

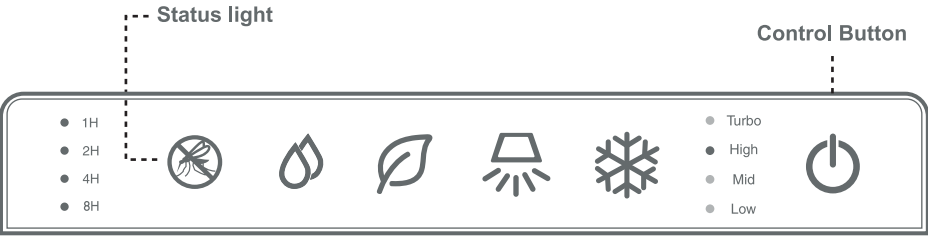
Model No.	MIK-28EX
Air volume	2,400 m ³ /hr
Area coverage	25 m ²
Power	150 W
Current	0.65 A
Water tank capacity	26 Liter
Water continuous usage	7 - 11 hour
Water evaporation rate	2.4 - 4.0 liter/hour
Fan speed	4 speed
Vent size	33.3 x 40 cm.
Cooling pad type	5090
Overall dimension	42 x 37 x 105 cm.
Net weight	14.2 kg.
Operating weight	40.2 kg.
Remote control	√
Direct water connectiton	X
Water level sensor	√
Humidity control	√
Mosquito repellent	√



1. Structure Diagram

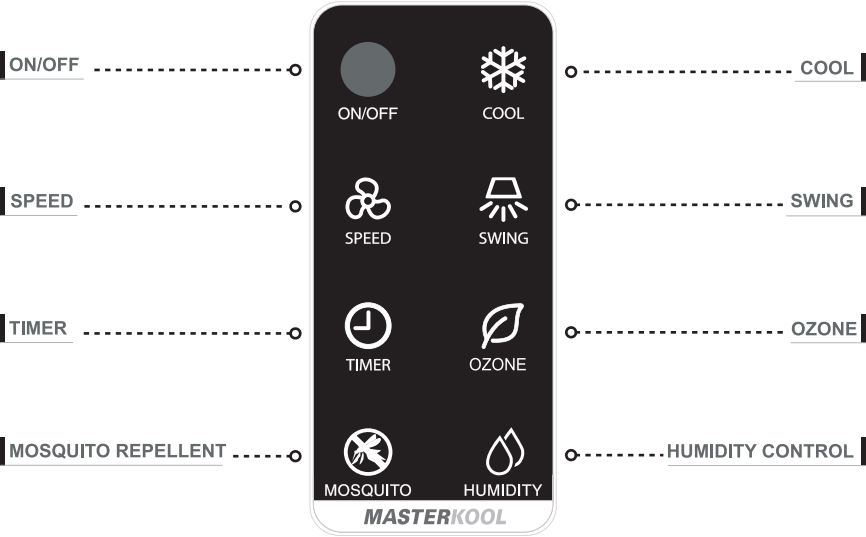


1.1 Functions



Control Panel

(The status light is illuminated 30 seconds after pressing any button on the control panel or the remote control, then it is dimmed)



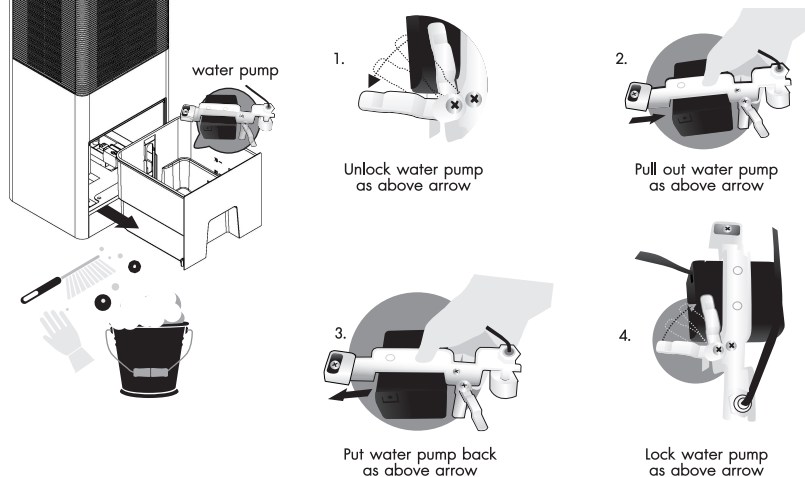
Remote Control

6. Troubleshooting

MIK-28EX				
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 Centre.
		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.	Contact Service Center.
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.	Contact Service Center.
		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 the 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 pad more frequently.	

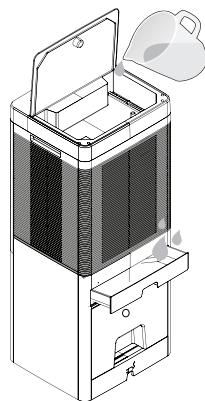
5.2 Cleaning water tank

Pull out water tank, unlock water pump (picture no.1), pull out water pump (picture no.2), then remove water tank and clean by soft brush. After cleaning is finished, put water tank back into the air cooler, put water pump (picture no.3), lock water pump (picture no.4), then push water tank back into air cooler completely.



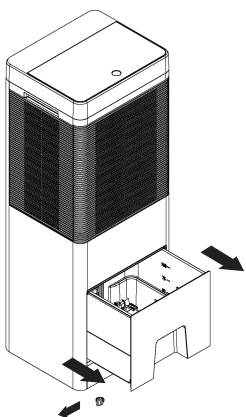
5.3 Filling water

Can be from the top by opening the top cover, fill up water, then water go to water tank. Or can be through the back water tray, fill up water until the max level (the whole on water tank turn orange), then push water tray back into air cooler completely.



5.4 Draining water

Pull out water tank, remove drain valve and wait until water tank is empty, then put drain valve and push water tank back into air cooler completely.



2. Operating Guide

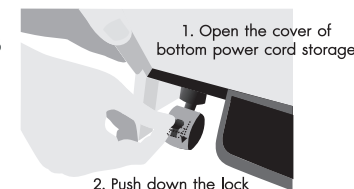
- 2.1 Avoid using the evaporative air cooler in a closed area. The unit should be used in well-ventilated areas only.
- 2.2 Before turning the unit on, fill the tank with water to ensure efficient operation of the evaporative air cooler. Avoid operating COOL function while the water tank is empty. Remarks: Water level must not exceed the limit of water level scale.
- 2.3 Drain the water tank and clean the tank frequently.
- 2.4 Fill the tank with clean water only, do not put any other liquid into the tank.
- 2.5 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.
- 2.6 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 Locking casters



4.2 How to use the functions

4.2.1 POWER

Press  button on the control panel or the remote control to turn on the air cooler and its light is illuminated. Press  button again to turn off the air cooler.

4.2.2 SWING

Press  button on the control panel or the remote control to let the vertical front grille swing automatically and its light is illuminated. Press  button again to stop SWING mode.

4.2.3 SPEED

Press  button on the control panel or the remote control to adjust fan speeds to Low (1), Medium (2), High (3), Turbo (4). The fan speed change on rotating basis.

4.2.4 OZONE

Press  button on the control panel or the remote control to turn on OZONE mode, press  button again to stop OZONE Mode. (OZONE is used for water purification).

4.2.5 TIMER ⏰

Press ⏰ button on the control panel or the remote control to set the timer to 1H, 2H, 4H, 8H (The unit will be turned off automatically after 1 hour, 2 hours, 4 hours, 8 hours).

4.2.6 COOL ❄️

Enter the COOL mode by pressing ❄️ button on the control panel or the remote control. To turn off the COOL mode, press ❄️ button again.

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. When any button is pressed, the fan speed will be changed the LOW speed for 30 seconds before resuming the speed previously set.

4.2.7 HUMIDITY CONTROL 💧

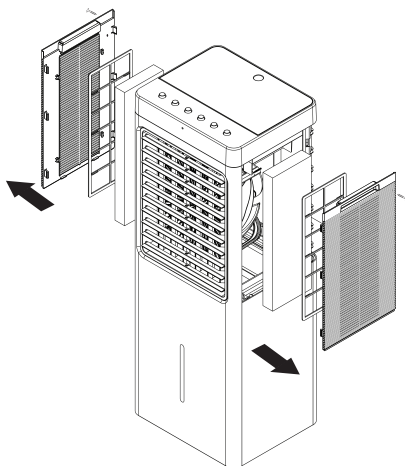
Press 💧 button on the control panel or the remote control to enter the humidity control mode, once the relative humidity is over 85%, 💧 status light is blinking and the COOL mode is turned off while the fan is still working. When the relative humidity is below 70%, 💧 status light is illuminated and the COOL mode is turned on again. Press 💧 button again to stop the humidity control mode.

4.2.8 MOSQUITO REPELLENT 🦟

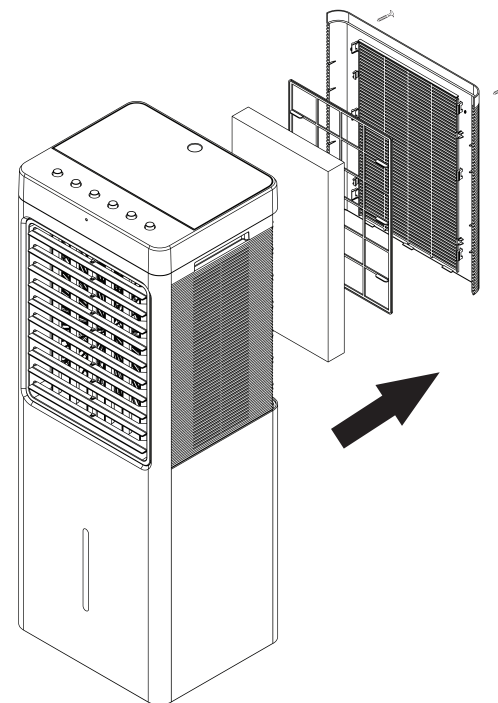
Press 🦟 button on the control panel or the remote control to enter the mosquito repellent mode and the machine emits ultrasonic wave to repel mosquito. Press 🦟 button again to stop the mosquito repellent mode.

5. Cleaning, Filling and Draining

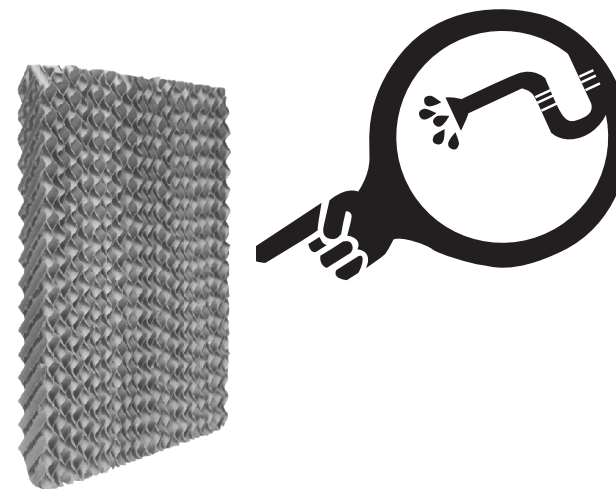
5.1 Cleaning dust filter and cooling pad.



Unscrew and remove the side shutter which the dust filter is attached and then pull the cooling pad out as above arrows.



Unscrew and remove the back shutter which the dust filter is attached and then pull the cooling pad out as above arrow.



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