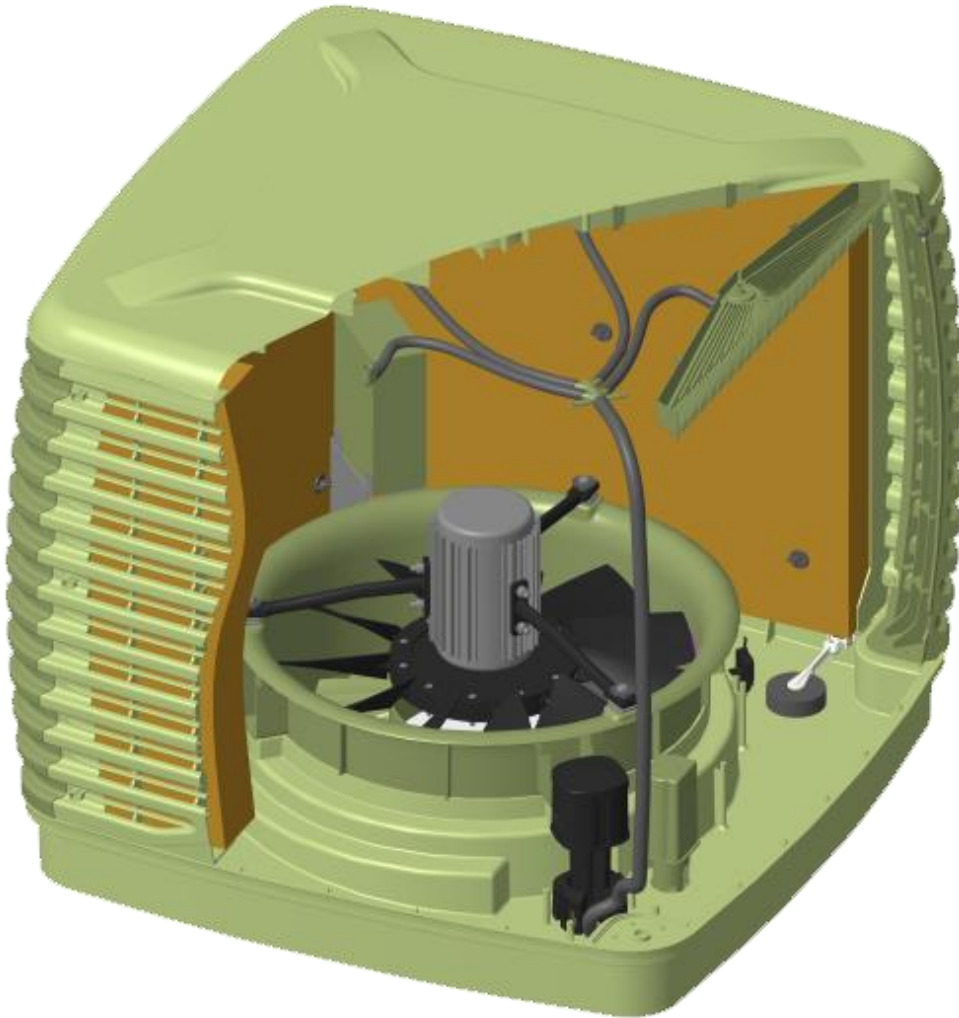


# OWNER'S MANUAL

READ AND SAVE THESE INSTRUCTIONS



MODEL NO.			
Air discharge	Down	Top	Side
30000CMH	ELO 30 D	ELO 30 T	ELO 30 S

**COLD PRO** 

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### **Preface**

We appreciate your support in advance. Our evaporative air cooler will bring you fresh air with least energy. Adopting the most advanced evaporative cooling technology in the world and advanced production management system. To ensure the optimal efficiency, we recommend you to read the manual carefully before using.

### **Safety**

- 1) This appliance is not intended for use by person (including children) 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.
- 2) Children should be supervised to ensure that they do not play with the appliance.

## Evaporative air cooler

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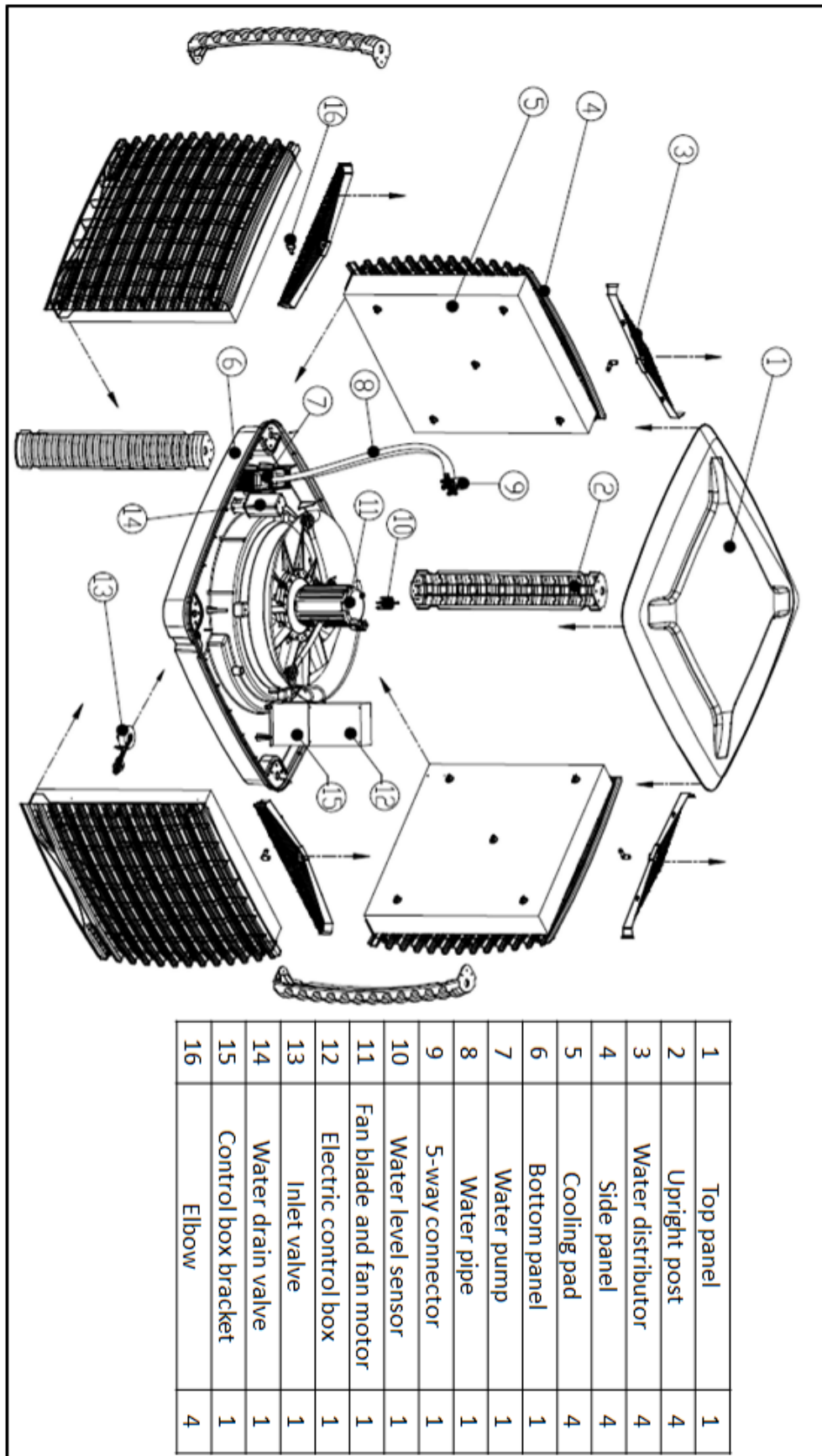
- 3) Read all instructions carefully before setting up and operating this product;
- 4) This manual is designed to provide you with important information needed to setup, operate, maintain, and troubleshoot your air cooler;
- 5) Failure to follow these instructions may damage and/or impair its operation and void the warranty.
- 6) If the power supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 7) Do not use the same socket together with other appliances, in case of current overload. Make sure the plug and socket good contact.
- 8) Please unplug when shutting down. Do not pull the wires by hand.
- 9) Please stop power immediately once air coolers failure or wires are broken. Users can not repair by themselves, please contact authorized servicer for maintenance.
- 10) The power must be switched off before servicing or maintenance.
- 11) Users cannot repair the air cooler, if equipment failure and need maintenance, please contact authorized servicer.
- 12) Do not install and use air coolers in flammable, explosive, or impact areas.
- 13) Please do not insert any metal or foreign objects to inside of air cooler, to avoid accident or personal injury.

### **Important Notes**

- 1) Use the air cooler in a well-ventilated, dry place to obtain the best results. The device draws 100% fresh air from the outside without recirculation.
- 2) Avoid venting cold air into confined spaces. There must be enough space to exhaust the air, even using an exhaust fan.
- 3) For places without power exhaust, an exhaust area of 0.8m<sup>2</sup> is required for every 3600m<sup>3</sup> / h exhaust volume. When using power exhaust, the design exhaust volume must not be less than 85% of the air intake.
- 4) Keep the machine away from any fire source. During installation, keep the equipment away from welding sparks in particular.
- 5) Equipment must be tested and adjusted. For example: adjust the water level float before operation. Ensure that the equipment operates within the rated electrical range.

- 6) Make sure the wiring of the power supply and controller is correct. The power cord must be at least 2.5mm<sup>2</sup>. The device should use a dedicated power cord and should not share the power cord with other devices.
- 7) The power supply voltage should be within 10% of the rated voltage. Lower voltage may cause motor fail to start or unnecessarily frequent start and stop. Long-term low or high voltage can damage motor.
- 8) The controller and its wires should be kept away from strong electromagnetic interference, such as inverters, silicon speed and temperature controllers, high-frequency heater circuits or high-power motors. Avoid routing power cables parallel to these cables. Under unavoidable circumstances, the distance between the power cord and the source of interference must be kept at least 30cm.
- 9) Water must be clean. It is recommended to use tap water. The pressure of water source should be between 1.0kgf / cm<sup>2</sup> and 6.0kgf / cm<sup>2</sup>.
- 10) There shall be a water stop valve in the hose and a joint shall be fixed.
- 11) There should be a switch to prevent leakage. Also avoid short circuit, overload and electric shock.

## Exploded view of the air cooler



## Technical Details

Item	ELO 30 D	ELO 30 T	ELO 30 S
Dimension(mm)	1340*1340*1130	1340*1340*1150	1340*1390*1130
Net Weight(kg)	125	125	130
Pad size(mm)	(840+30)×900×120		
Cover area(m <sup>2</sup> )	250-300		
Noise(dBA)	≤78		
Airflow(m <sup>3</sup> /h)	30000		
Pressure(Pa)	300		
Fan type	Axial		
Power(kw)	3		
Vent size(mm)	800*800		
Control type	Interlligent touch screen control+LCD remote		
Water tank(L)	40		
Water consumption(L/H)	25-30		
Group control	Optional		
Speed	16 (inverter)		
Power supply	3PH 380V±10% 50Hz		

## Water inlet valve

Specification :

Water Connections : DN20mm.

Maximum pressure: 6.0 kgf/cm<sup>2</sup>.

**IMPORTANT:** If the water pressure exceeds 6.0 kgf/cm<sup>2</sup>, then a pressure reducing valve must be fitted near to the air cooler by the installer !

User can counterclockwise part A (Fig. 2) up 1 or 2 gears if water level probe fails to stop water coming at high water level (Fig. 1).

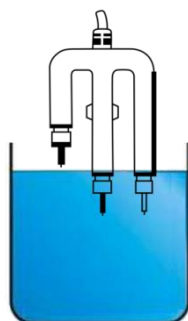


Figure 1

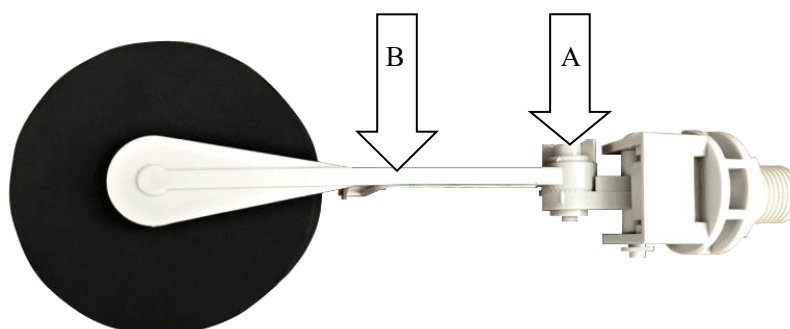


Figure 2

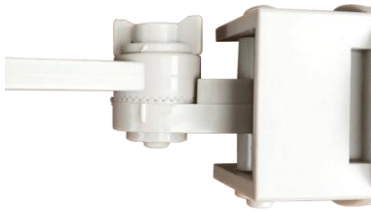


Figure 3 (Before)



Figure 4 (After)

When water level is over high, user can switch float (Fig. 5) to a suitable level(Fig. 6).




Figure 5



Figure 6

### Water level sensor

	Water level sensor
	Precisely and accurately checks the water level
	Device to prevent damage if the circulation pump lack of water

User can change water level probe to float probe with jumper cap.





Figure 7

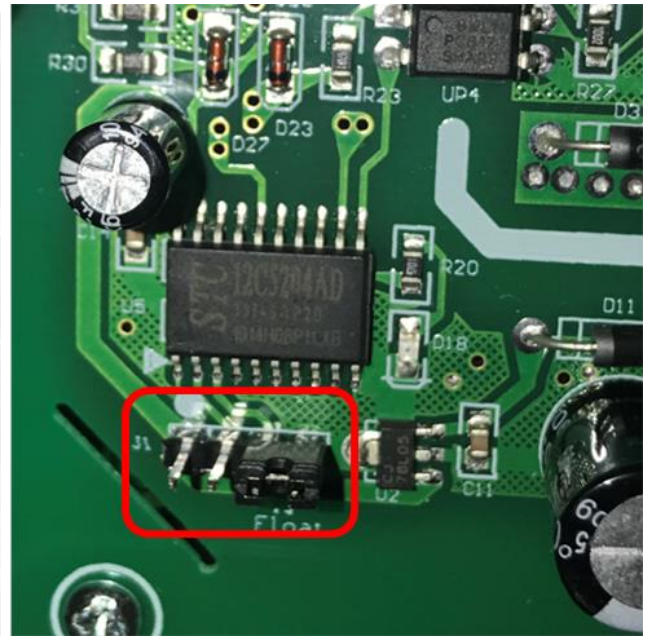


Figure 8


For inverter type cooler, the default position of switch(J1) is on the left (Fig. 7). User can change the jumper cap from left (water level probe) to right (float probe) as Fig. 8.



Figure 9

For 3 phase 1 speed type cooler, The default position of switch(S2) is without jumper cap (Fig. 9). In order to change to float probe, user need to connect it with jumper cap.

## **Drain valve**

	<p>Water Connections : DN32mm(1.2").</p>
---	--



## Evaporative air cooler

	Automatically drains out dirty water periodically at set intervals.
	Prevents algae growth, reduces salt concentration, water refresh.

### **Solenoid valve(Optional)**

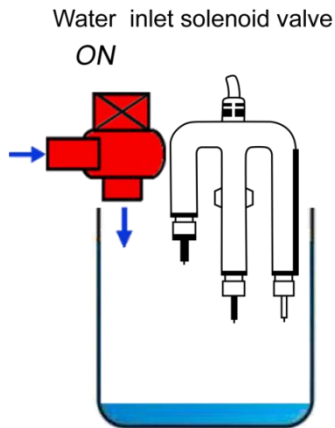


Figure 11

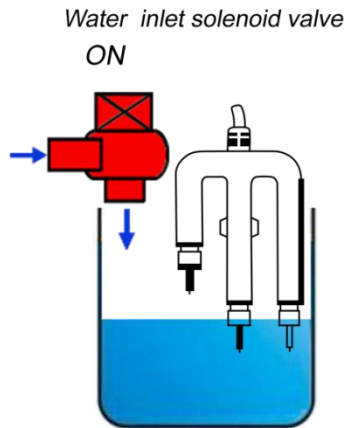


Figure 12

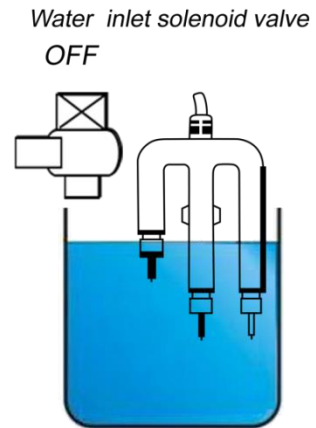


Figure 13

When water level is lower than the low level of probe, solenoid valve starts to work (Fig. 11), pump stop pumping.

When water level reaching the low level of probe, solenoid valve keep working (Fig. 12), pump starts to pump water. Solenoid valve failed by working 30min with no water reach at the high level of probe. User need to turn off solenoid valve and check the water flow and pipe. Solenoid valve will automatically shut down when water level reaching the high level of probe (Fig. 13), and pump starts to work.

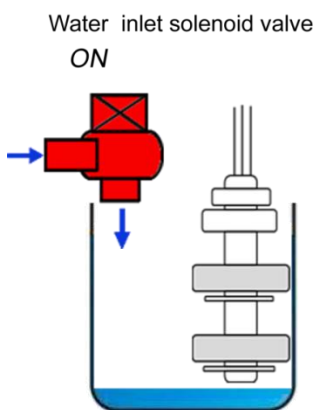


Figure 14

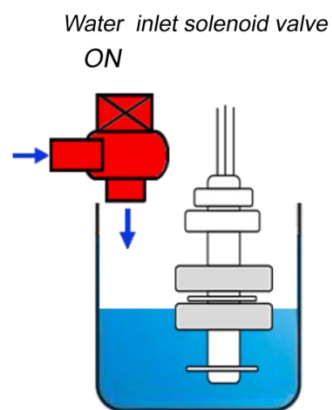


Figure 15

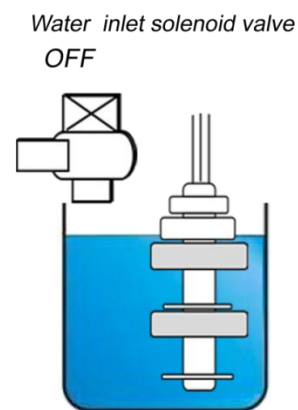


Figure 16

When water level is lower than the low level of float probe, solenoid valve starts to work (Fig. 14), pump stop pumping.

When water level reaching the low level of probe, solenoid valve keep working (Fig. 15), pump starts to pump water. Solenoid valve failed by working 30min with no water reach at the high level of probe. User need to turn off solenoid valve and check the water flow and pipe. Solenoid valve will automatically shut down when water level reaching the high level of probe (Fig. 16), and pump starts to work.

### **Check and adjust before operation**

- 1) Is the cooler installed horizontally?
- 2) Is the drain pipe connected to the machine?
- 3) Is the water supply leaking?
- 4) adjust the water level in the water tank?
- 5) Is the power supply connected correctly?
- 6) Is the power cord of the control panel connected properly?
- 7) Is the working current within the rated range?
- 8) Are there any unwanted objects in the ventilation holes?
- 9) Is the voltage correct?
- 10) Does the cooler vibrate significantly during operation?
- 11) Are there any foreign objects in the water tank?

## **Maintenance**

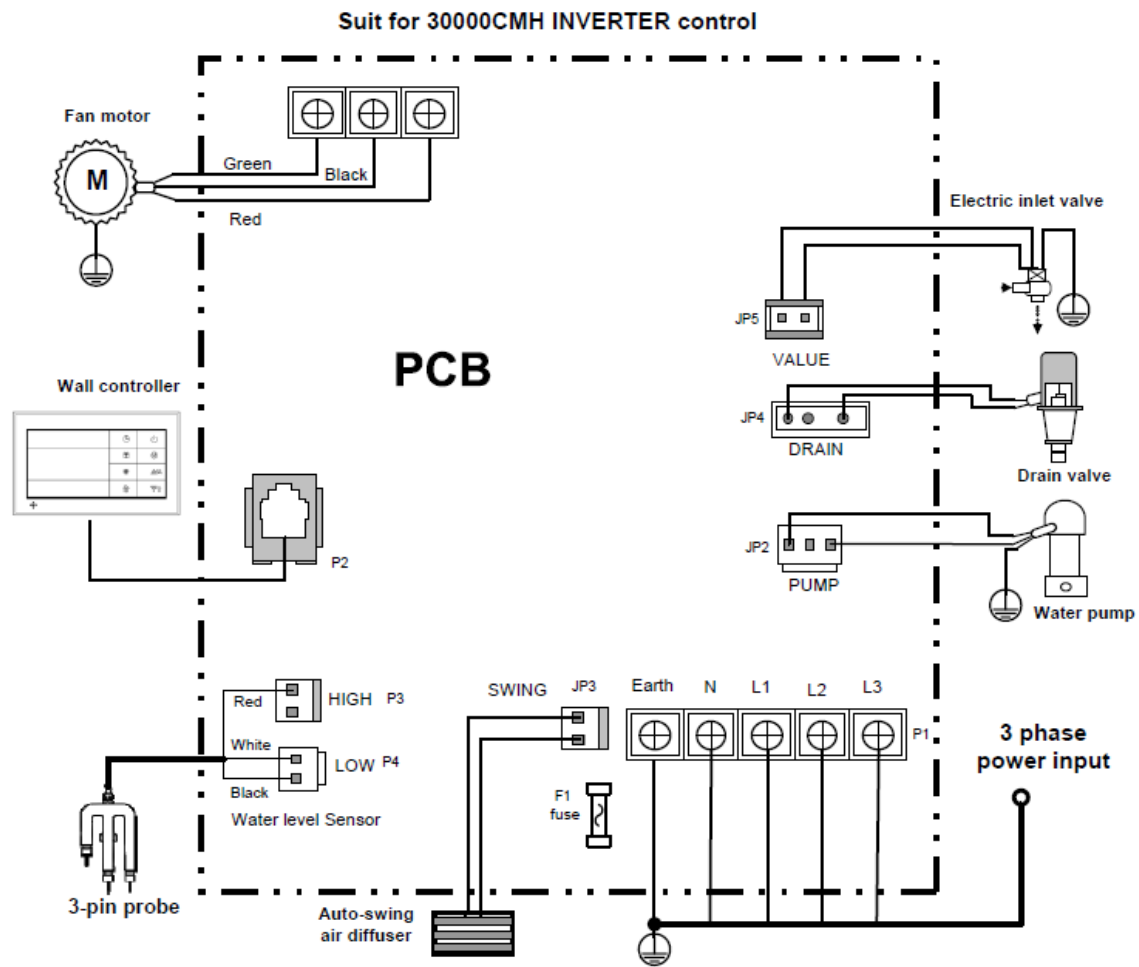
- 1) Water should be changed frequently when using the cooler.
- 2) When the equipment is not in use, the water supply should be turned off to prevent the generation of bacteria. In some dusty and snowy places, it is recommended to cover the cooler.
- 3) We recommend cleaning the cleaning pad once a month to maintain cooling efficiency.

## **Parts List**

No.	Name	QTY
1	Wall controller	1 pc
2	Remote controller	1 pc
3	Water inlet valve	1 pc
4	Owner's manual	1 pc
5	Flexible Hoses	1 pc
6	AAA battery	2pc
7	Pipe lock(skd)	2pc
8	Bulk screws(skd)	1 set



## Wiring diagram-2



## Evaporative air cooler

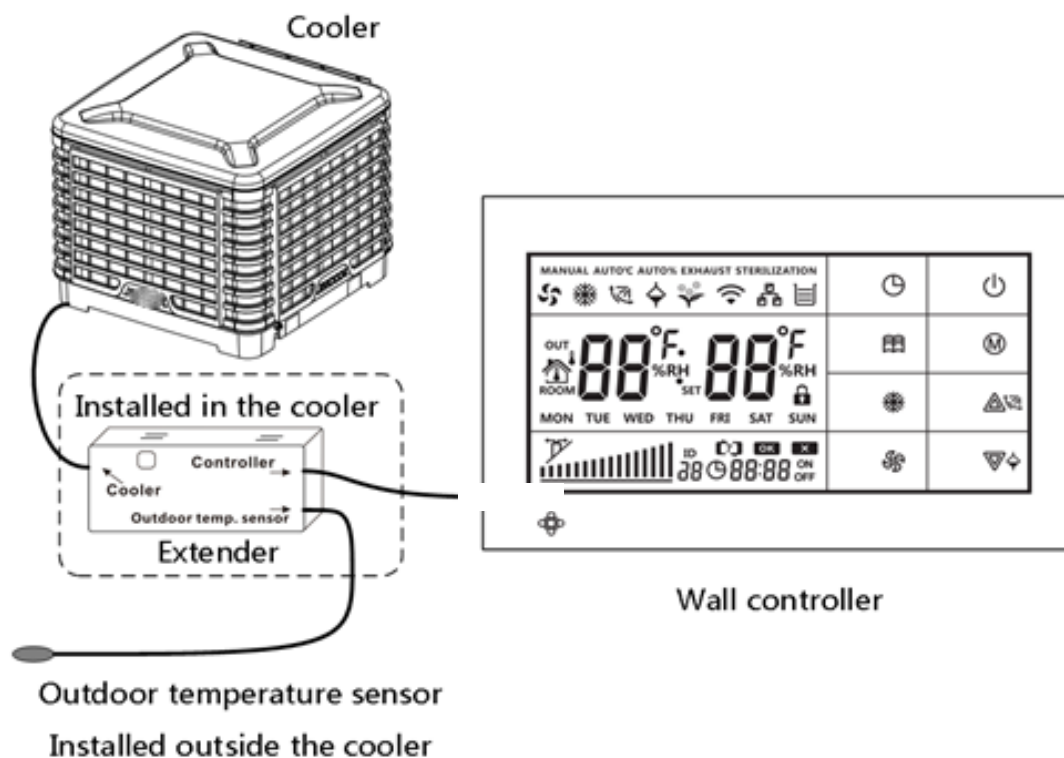
### **Troubleshooting**

The following troubleshooting guidelines are designed to address the most common symptoms. If symptoms persist, call qualified service personnel. Only certified electricians can perform electrical work. Turn off all power to the cooler before trying to resolve any of the following problems.

Number	Symptom	Cause	Action
1	Unit fails to start or deliver air	No electrical power to unit: A. Fuse blown B. Circuit breaker tripped C. GFCI tripped D. Cords unplugged or Damaged	Check power: A. Replace fuse B. Reset breaker C. Reset GFCI D. Plug in cord or replace if damaged
		Motor overheated	Try restart after cool down
		Motor frozen	Replace motor
		Capacitor aged. Symptom: Motor is able to free spin but does not run while press VENT.	Replace capacitor
2	Unit starts but air Delivery inadequate	Insufficient air exhausts	Open windows or doors
		Insufficient water-pad not wet: A. Cooling pads plugged B. Dry streaks on pads C. Large dry spots on pads D. Pump not working E. Loose water connections	Check water distribution system: A. Clean or replace pads B. Check water level C. Make sure cooler is level D. Clean or replace pump E. Check for leaks and correct
3	Musty or unpleasant odor	Stale or stagnant water in sump	Drain, flush and clean sump
		Pads mildewed or clogged	Replace pads
		Pads not completely wet before cooler is turned on	Turn on pump before starting fan
4	Knocking, shaking or rattling sounds	Loose parts	Check and tighten where needed
		Blower wheel loose or rubbing	Inspect and adjust, or replace
5	Water droplets in the discharge air stream	Too much water delivered to the cooling pads	make sure pads are properly positioned in the pad frames and The unit is level. If necessary, reduce the flow of water to the pads by tightening the screw on the hose restrictor clamp found on the pump discharge hose.
		Outdoor humidity level is too high or it is raining	Use cooler as a fan only (turn pump off) or discontinue use of cooler until outdoor humidity level drops.

# F Type Controller Manual

This controller needs to be connected with extender. Fix extender inside the control board box with nylon ribbon, and connect signal cable with extender.

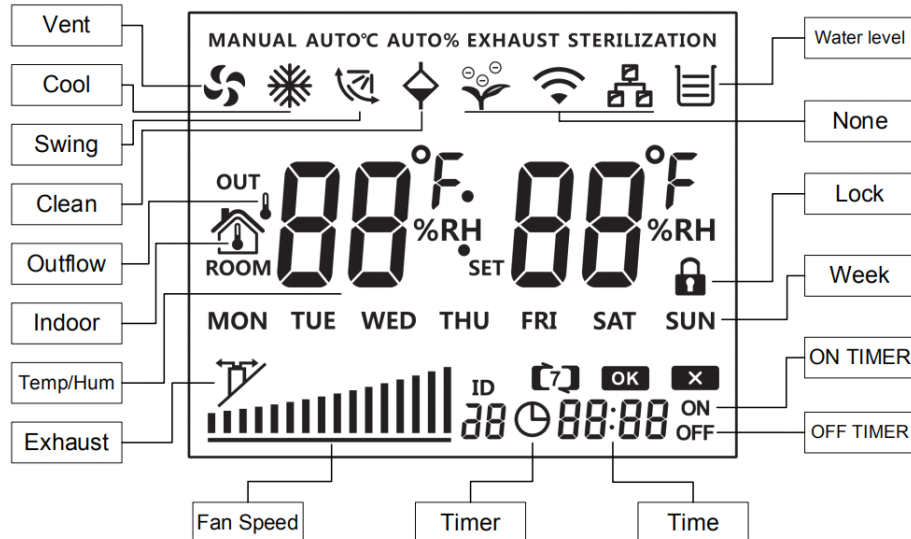


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COOL	17
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MODE	19
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### Screen display indication:



### Button Instruction:

Button	Short Press Function	Extended Press Function
	ON/OFF	Press button for 5 seconds, restore factory settings
	Mode	
	Increase	Press button for 3 seconds to turn on/off swing function
	Decrease	Press button for 3 seconds to turn on/off drain function
	Timer	Press button for 3 seconds to adjust time
	Setting	
	Cool	
	Vent	

### 1. TURN ON/OFF AIR COOLER








Press button, turn on/off air cooler.

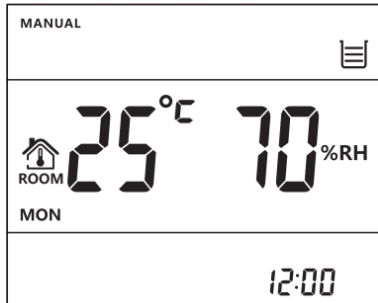
### 2. SETTING THE CLOCK

Set the clock on the controller before proceeding with any other programs. When power on, the screen shows as Pic 2-1, the current time is 12:00. The setting as follows:

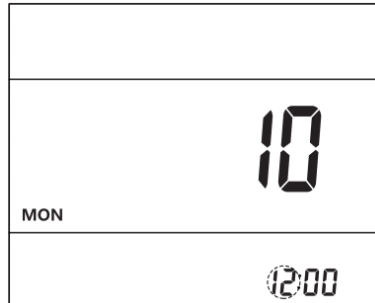
- 1) Press button for 3 seconds, as picture 2-1, the hour will flash, use button and to change hours.
- 2) Press button , the minute will flash, use button and to change minutes, as show 2-3.

## Evaporative air cooler

- 3) Press button , the second will flash, use button  and  to change seconds, as show 2-4.
- 4) Press button , the week will flash, use button  and  to change weeks, as show 2-5.
- 5) Press button  one more time, week stop flash, time setting been finished.



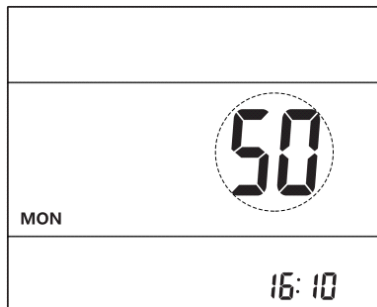
Pic 2-1 show present time



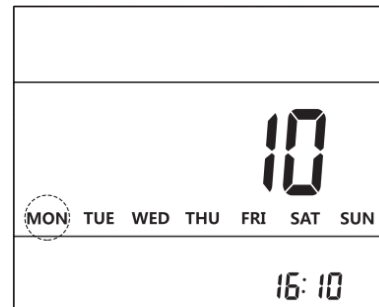
Pic 2-2 change hours



Pic 2-3 change minutes




Pic 2-4 change seconds





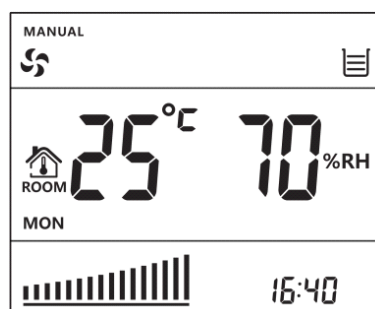
Pic 2-5 change weeks

### 3. VENT

VENT function is air been delivered into rooms, but the air doesn't been cooled.

Press button , to turn on and turn off vent function.


To increase or decrease the fan speed required, press button  and .




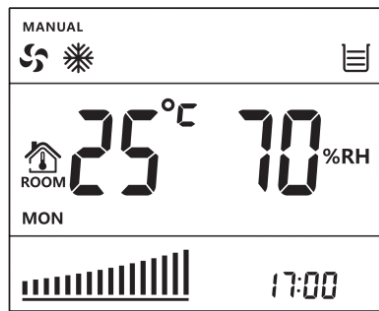
Pic 3-1 turn on vent function

### 4. COOL

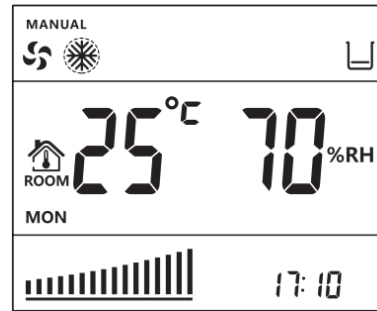
COOL function is by pump water and wet the pad.

Press button  to turn on and turn off cool function.

When user press  button, if the water level is too low, the snow icon will flash to remind user the cooler is lack of water. Pump will not run while snow icon flashing. Thus there is no COOL.




Pic 4-1 turn on VENT and COOL




Pic 4-2 pump stop running (water shortage)

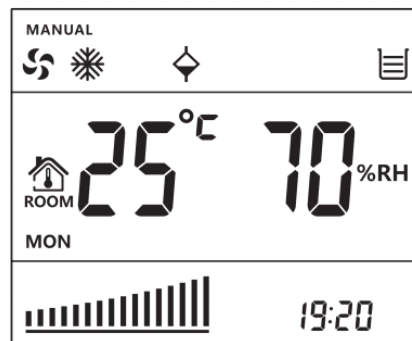
## 5. CLEAN

CLEAN function, means drain out the dirty water in tank, and change with clean water automatically.

Press button  for 3 seconds, turn on or turn off CLEAN function.

Press button  for 3 seconds, turn on clean function, the screen shows clean icon, the drain valve drains water inside the tank, drain function runs for 4 minutes, and then off.

When draining, the water level will decline rapidly, so if the COOL function still keep on, pump will pause automatically to protect itself, and running again when DRAIN stop and water filled enough.




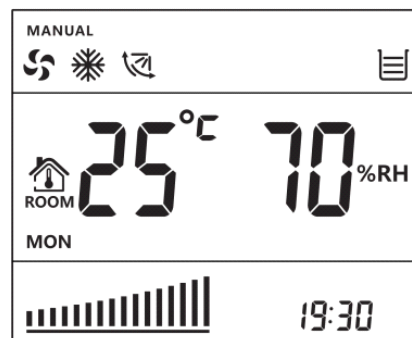
Pic 5-1 turn on VENT, COOL and CLEAN

## 6. SWING

SWING function means change wind direction circularly.


**Note: if there is no electronic swing air diffuser connected to the control box, this function will not available.**


Press button  for 3 seconds, turn on and turn off swing function.




Pic 6-1 turn on VENT, COOL, and SWING

## 7. MODE


Press button  to change 4 modes: MANUAL MODE, AUTO°C MODE, AUTO% MODE and EXHAUST MODE.

If cooler without Exhaust function, press button  to change it to MANUAL MODE, AUTO°C MODE or AUTO% MODE.

### 7.1 MANUAL MODE

Press button  until MANUAL is shown on the screen, current indoor & outdoor temperature and relative humidity are also shown on the screen.




Press button  to turn on and turn off vent function, the controller will show a constant fan speed.



If the water is enough in tank, press button  to turn on or turn off pump.



### 7.2 AUTO°C

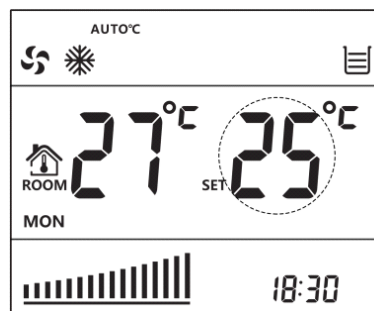
On AUTO°C mode, controller will adjust fan speed and pump's working to keep indoor temperature same as target temperature (preset it).

When the mode switch to AUTO°C, the icons of AUTO°C, FAN and COOL will be shown on screen, FAN and COOL functions will be turned on automatically.

As shown in pic 7-1, target temperature flash, press button  or  to change target temperature, and then press  to finish setting.

If want to change target temperature again, press button  till target temperature flash, and then press  to finish setting.

**Note: on AUTO°C mode, speed bar shows the highest fan speed, press button  or  to set highest fan speed needed. Fan speed will increase or decrease, but it will not exceed the presetting highest fan speed.**






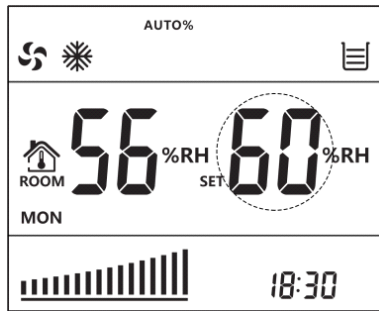
Pic 7-1 Adjust target temperature

### 7.3 AUTO%

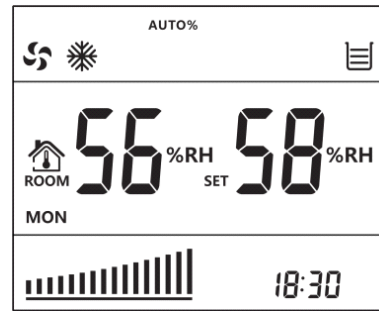
On AUTO% model, controller will adjust fan speed and pump's work to keep indoor humidity same as target humidity (preset it).

When the mode switch to AUTO%, the icons of AUTO%, FAN and COOL will be shown on screen, FAN and COOL functions will be turned on automatically.



As shown in pic 7-2, target humidity flash, press button  or  to change the target humidity, and then press  to finish setting, as shown in pic 7-3.



Pic 7-2





Pic 7-3

**Note:** on AUTO% mode, speed bar shows the highest fan speed, press button  or  to set highest fan speed needed. Fan speed will increase or decrease, but will not exceed the presetting highest fan speed.

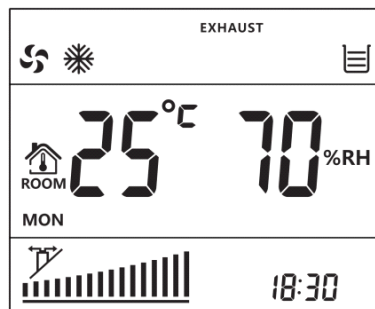
## 7.4 EXHAUST

On exhaust model, user can turn on or turn off cooler exhaust function.

Press button  or  to increase or decrease the fan speed required.

**Note 1:** Exhaust is workable only in inverter models.

**Note 2:** In order to protect motor, when the VENT function been switched to EXHAUST, or the EXHAUST function been switched to VENT, the motor will pause for 25 seconds.



Pic 7-4 turn on exhaust

## 8. TIMER






Timer function makes cooler timing turn on and timing turn off.




After timing turn on, cooler and controller will work same as the setting data before shutdown.



TIMER function is working on any modes, setting methods are same in any modes, take an example of manual mode (MANUAL), check be flowing.




### 8.1 TIMING TURN ON




The processes are as follows:

- 1) Press button  as pic 8-1, timer icon (turn on 1) flash, --:-- means timing turn on function doesn't be set, ( user can set 6 group time of timing turn on, press button  switch to different timing group, the setting methods are same, the following is the example to set timing turn on 1.
- 2) Press button , --:-- changes to 00:00 as pic 8-2, and the hour is flashing, use  and  to change hours.

3) Press button , the hour stop blinking, the minute is flashing, use  and  to change minutes as pic 8-3.

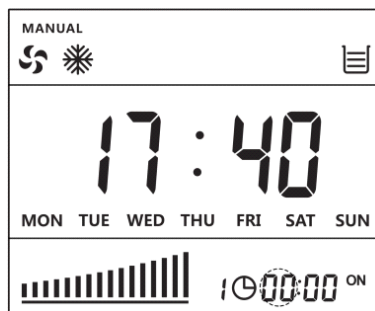
4) Press button , the minute stop blinking, **OK** is flashing as pic 8-4, if confirm this time, press button  to finish setting. If need to set week timer, please go on step 5.

5) When **OK** is flashing, use  or  to choose week, chosen week is flashing as pic 8-5, press button  to confirm or delete the chosen week, if only choose Monday, the timing turn on is only valid on Monday. User can set several week as needed. If no week is chosen, the setting is only valid for single time, this setting will be deleted after execution.

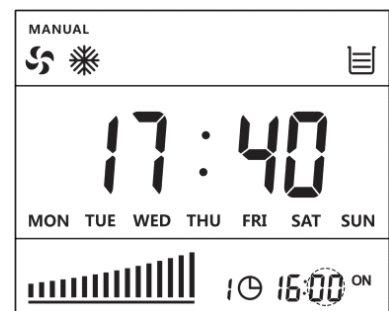
6) After setting week, use  or  to adjust until the icon **OK** flashing as pic 8-4, press button  to finish setting, it shows time and 1 timer icon, remind timer has been set, like pic 8-6.



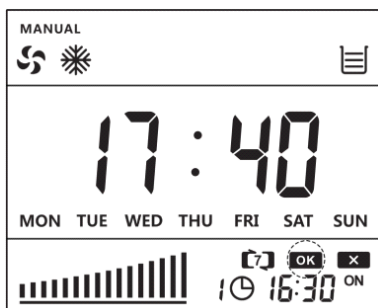
Pic 8-1 set timing turn on



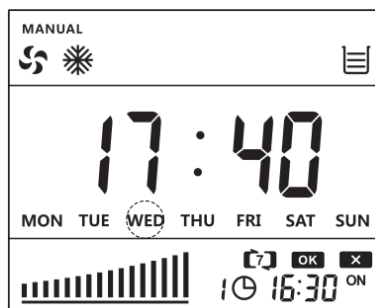
Pic 8-2 hour setting  
(timing turn on)



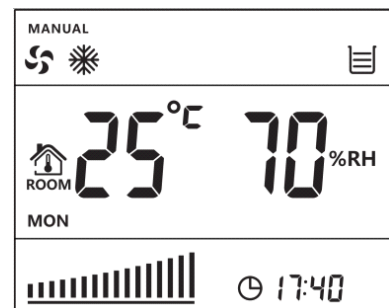
Pic 8-3 minute setting  
(timing turn on)



Pic 8-4 confirm time of  
timing turn on





Pic 8-5 set week of  
timing turn on









Pic 8-6 finish setting  
timing turn on

## 8.2 TIMING TURN OFF



The processes are as follows:




1) Press button  as pic 8-7, timer icon (turn off 1) flash, --:-- means timing turn off function doesn't be set, (user can set 6 group time of timing turn off, press button  switch to different timing group, the setting methods are same, the following is the example to set timing turn off 1.




2) Press button , --:-- changes to 00:00 as pic 8-8, and the hour is flashing, use  and  to change hours.

3) Press button , the hour stop blinking, the minute is flashing, use  and  to change

minutes as pic 8-9.

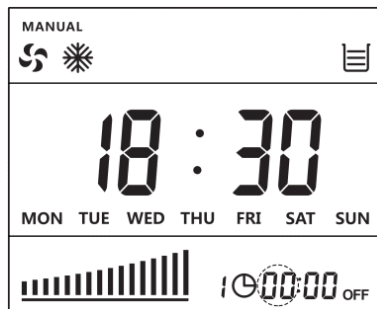
4) Press button  , the minute stop blinking, **OK** is flashing as pic 8-10 , if confirm this time, press button  to finish setting. If need week timer, please go on step 5.

5) When **OK** is flashing, use  or  to choose week, chosen week is flashing as pic 8-5, press button  to confirm or delete the chosen week, if only choose Monday, the timing turn off is only valid on Monday. Uses can set several week as needed. If no week is chosen, the setting is only valid for single time, this setting will be deleted after execution.

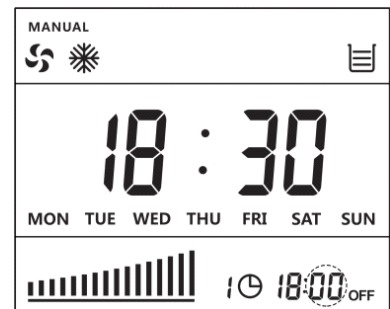
6) After setting week, use  or  to adjust until the iron **OK** flashing as pic 8-10, press button  to finish setting.



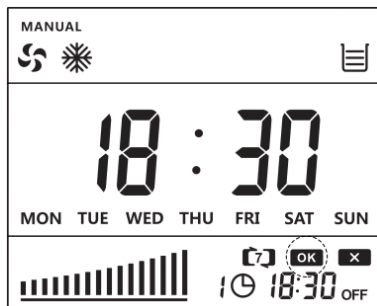
Pic 8-7 set timing turn off



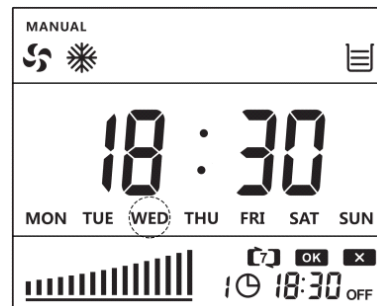
Pic 8-8 hour setting  
(timing turn off)



Pic 8-9 minute setting  
(timing turn off)



Pic 8-10 confirm time of timing turn off






Pic 8-11 set week of timing turn off



## 8.3 CANCEL TIMING

The processes are as follows:

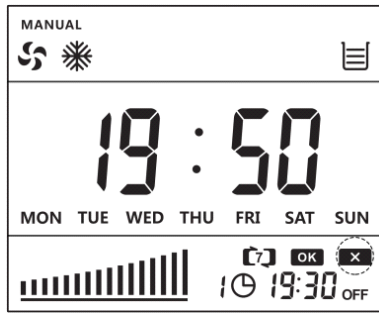
### 1. Cancel one timing group

When setting timing turn on or timing turn off, in the interface of pic 8-4 and pic 8-10, when the icon **OK** flashing, use  or  to adjust till icon **X** to flash, as pic 8-12, then press button  to cancel one timing group.

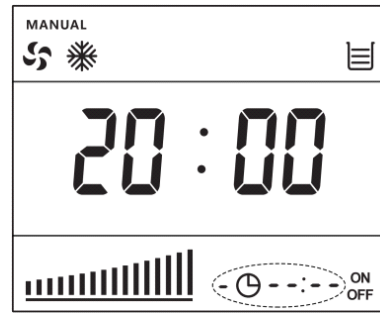
### 2. Cancel all timing group

In the interface of pic 8-1, extended press  until the screen shows as pic 8-13, press button  to cancel all timing group.





Pic 8-12 Cancel one timing group



Pic 8-13 Cancel all timing group

## 9. ADVANCED SETTINGS

When cooler shutdown, press button and at the same time, the screen shows “P” as pic 9-1, press and hold button and at the same time, controller enter advanced setting. After enter advanced setting, use and to choose item P01-P12, press button to choose, and use and to adjust more details as in the following table. After setting all items needed, press button to confirm or wait the operation till timeout, the setting automatically takes effect.

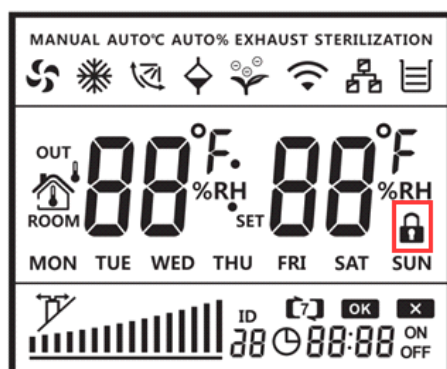


Pic 9-1

ITEM	MEANING	or	FACTORY DEFAULT
P01	AUTO-CLEANING	User can set it 0 ~120 hours 0 - function is off If set 8 hours, function is on after cooling for more than 8 hours	0 hour
P02	PRE-COOLING	OFF or ON	OFF
P03	INTELLIGENT CLEAN	OFF or ON	OFF
P04	SHUTDOWN CLEAN	OFF or ON	OFF
P05	AUTO START	OFF- when power on again, cooler is still off ON-when power on again, cooler keeps working as the previous status (before power off)	OFF
P06	AUTO DRAIN TIME	User can set it 60~600 seconds	240 seconds

## Evaporative air cooler

P07	Outdoor temp function on AUTO °C mode	User can set it 0~30 °C If users set 20°C(target temp) When the target temp >= ( real outdoor temperature +2°C), water pump stops working.	3°C
P08	On AUTO °C mode & AUTO % mode, how to control the fan speed	User can set it 0~2 On AUTO °C mode, when indoor temperature is lower than target temperature or On AUTO % mode, indoor temperature is higher than target temperature 0-fan speed decrease automatically 1-fan stop running 2-fan speed will not increase or decrease	0
P09	Temperature slewing error	0~10°C On AUTO °C mode: Target temp ≤ indoor temp + Temp slewing error, the water pump will begin to work. Target temp ≥ indoor temp + Temp slewing error, the water pump will stop working. (Note: this setting is only workable for cooler with AUTO°C function)	0°C
P10	Humidity slewing error	0~30% On AUTO % mode: Target hum ≥ Indoor hum - hum slewing error, pump will begin to work Target hum ≤ Indoor hum + hum slewing error, pump will stop working (Note: this setting is only workable for cooler with AUTO% function)	0%
P11	Key beep	OFF or ON	ON
P12	ID address	User can set it 0~32, 0 means no setting	0
P13	Screen Lock		



When LOCK icon shows in the screen, Keystroke operation invalid.

Unlocking by press button  for 5 seconds.

### 9.1 AUTO-CLEANING

When FAN and COOL functions work together for N hours (N can be set), air cooler will start CLEAN function, drain out the dirty water in tank, and change with clean water automatically. The default of Auto-cleaning cycle is 0 hour (means this function is off).

### 9.2 PRE-CLEANING

If turn on PRE-COOLING function, water pump will work for 1 minute before fan begins to work ( at this time, the icon flashing), after the cooling pad is all wet, and then the fan is working, so that fan will not bring dust into room.

- (1) If the water level is too low, the water inlet valve will be on automatically.
- (2) 2 minutes later, the pump will be turned on and wet pads. If the water tank cannot be added to normal level in 2 minutes, the PRE-COOLING will end automatically.
- (3) 1 minute later, after pads have been fully wet and cleaned, fan will be started. The FAN icon will not flash again while PRE-COOLING end.

**Note 1: PRE-COOLING will not be activated in case restart the cooler shortly after last turn off.**

### 9.3 INTELLIGENT CLEAN


**Note: This feature does not apply to all models. Only models with EXHAUST function have INTELLIGENT. CLEAN FUNCTION. We suggest user consult to the dealer before operating this settings.**

- 1) If the fan is working, user turn on EXHAUST function, the fan will turn off first, and after 25 seconds turn on EXHAUST function and drain valve automatically.
- 2) 4 minutes later, drain valve will turn off automatically to finish clean.

### 9.4 SHUTDOWN CLEAN

If shutdown clean function is turned on, when cooler is off, the working status is as following:

- 1) All functions will be closed except the clean function, screen shows CLEAN icon.
- 2) 5 minutes later, cleaning function will be turned off automatically. The screen shows nothing.

Press and hold button  to end clean function, to make cooler off.

### 9.5 AUTO START

If turn on AUTO START function, when power on again, cooler keeps working as the previous status (before power off). For example, if cooler is power off while fan is working, when the power on again, fan will work again automatically.

### 9.6 AUTO DRAIN TIME

Users can set time of auto drain time 60~600 seconds, when time is up, it stops draining.

### 9.7 Outdoor temp function on AUTO °C mode

On AUTO °C mode, this setting to turn on or turn off water pump by setting an target (outdoor) temperature. (as show in the above table)

### 9.8 On AUTO °C mode & AUTO % mode, how to control the fan speed

On AUTO °C mode, when indoor temperature is lower than target temperature, or on AUTO % mode, indoor humidity is higher than target humidity, the pump stops working, and the factory default is that

fan speed will decrease. But user can also set it: Stop fan totally or do not change fan speed.

## 9.9 Temperature slewing error

As show in the above table.

## 9.10 Humidity slewing error

As show in the above table.

## 9.11 Key beep

Use can turn on or turn off the key beep.



Note: Turning off key beep can reduce the consumption of controller, increase the distance between cooler and controller.

## 9.12 ID address


When user want to control several coolers at the same time, user needs to set ID address of each cooler, and then connect all coolers with group controller.

# 10.HINT INSTRUCTION

## SNOW ICON FLASHING

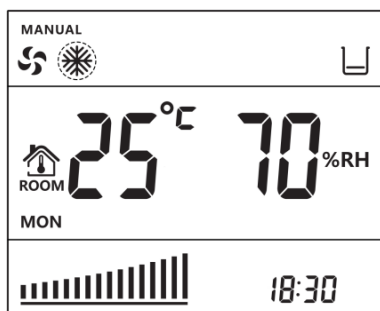
COOL icon flashing  (as shown in pic 10-1), screen show the water low water level,  indicates the water tank with low water level. Now, in order to protect water pump, pump will stop working till the water is enough inside tank.

## FAN ICON FLASHING

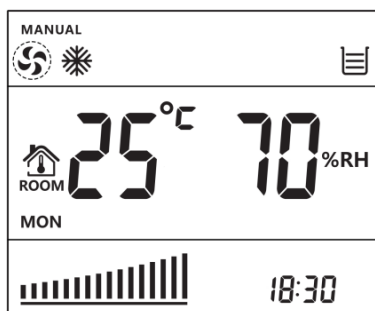
When the FAN icon flashing  (as shown in pic 10-2), that means, the air cooler is pre-cooling, pump works for 1 minute, the FAN will be opened automatically. If the water level is too low, will add water automatically.

## MALFUNCTIONS

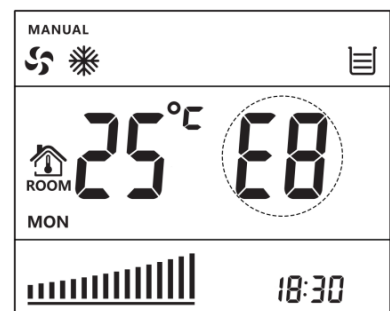
(As shown in pic 10-3), when any malfunctions are checked, screen will show fault code to remind user, the following table is the malfunctions and solutions.



Pic 10-1



Pic 10-2

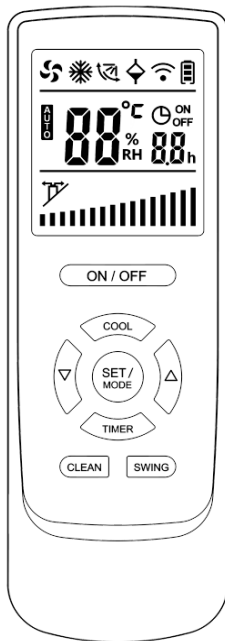


Pic 10-3

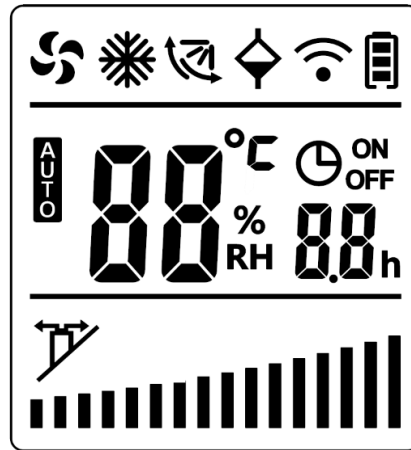
## Evaporative air cooler

<b>Fault Code</b>			
<b>Code</b>	<b>Explanation</b>	<b>Problem Cause</b>	<b>Solutions</b>
E1	over-current	1.locked-totor 2.motor overload 3.motor short-circuit	Check fan
E2	over-voltage	Power grid voltage anomaly	Check power supply
E3	under-voltage	Power grid voltage anomaly	Check power supply
E4	IPM with over temperature (only for inverter models)	Poor connection between IPM and thermal sink	Check thermal sink on control board
E5	Reserved, unused		
E6	Capacitor charging failure (only for inverter models)	1.Capacitor is broken 2.IPM or bridge rectifier is broken	Change a new control board
E7	Low capacitor capacity (only for inverter models)	1.capacitor with bad welding 2. Low capacitor capacity 3. Power grid voltage anomaly	Check power supply/ Change a new control board
E8	connection failure	connection failure between controller and extender	Check signal cable and crystal head
E0	connection failure	connection failure between cooler and extender	Check signal cable and crystal head

## Remote control

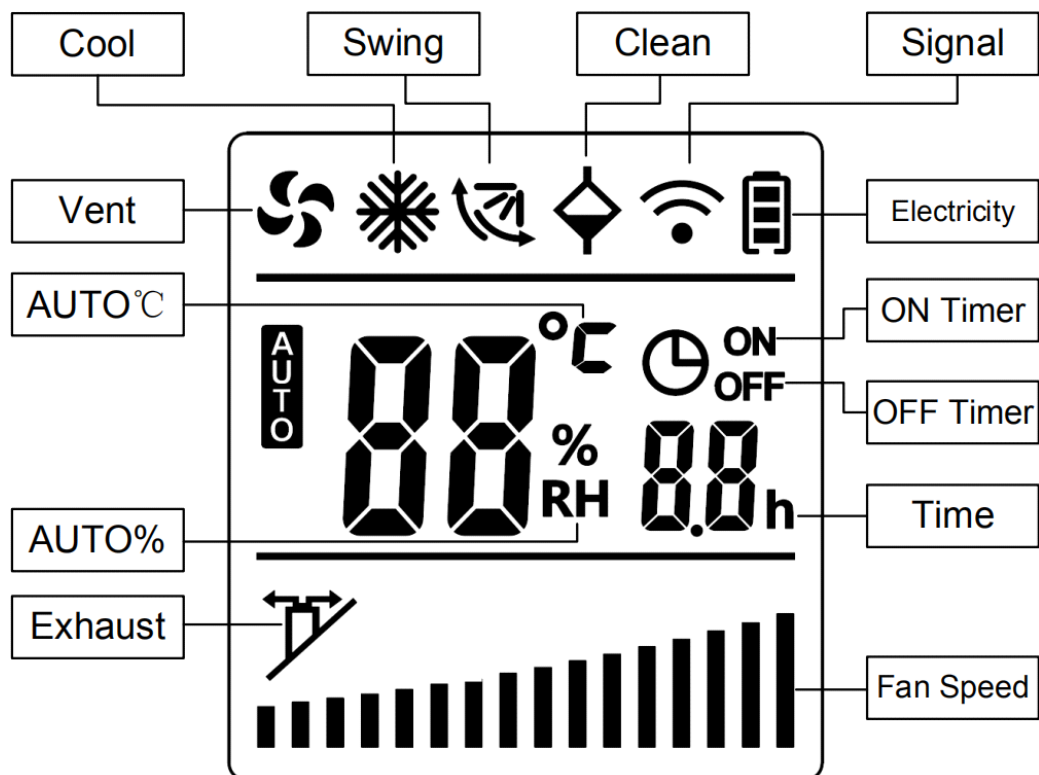


L1 Remote controller



LCD interface

### Screen display indication:



### Key description:

Key	Functions
ON/OFF	Power on/off air cooler
SET/MODE	Press and hold this key for 2 seconds to change the working mode. In the temperature control mode or humidity control mode, press this key to modify the set temperature or humidity.
△	Increase
▽	Decrease
TIMER	Time setting, Set timed power on and timed power off
COOL	Turn on/off COOL function
CLEAN	Turn on/off CLEAN function
SWING	Turn on/off SWING function

### Turn on and off air cooler

Press **【ON/OFF】** key to turn on and off air cooler manually.

#### 1. Fan speed

After turning on air cooler, press △ and ▽ key to adjust fan speeds.

#### 2. COOL

Press **【COOL】** key to turn on/off COOL function.

#### 3. CLEAN

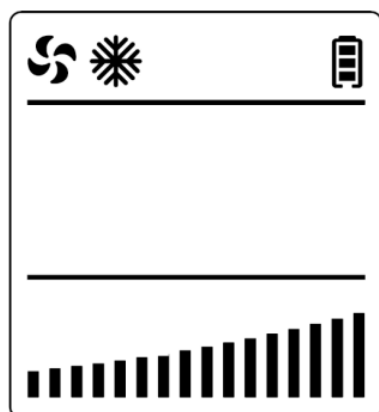
Press **【CLEAN】** key to turn on/off CLEAN function.

#### 4. SWING

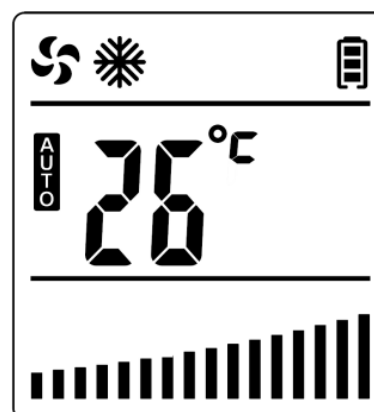
Press **【SWING】** key to turn on/off SWING function.

#### 5. Working mode

Press and hold the **【SET/MODE】** button for 2 seconds to switch the working mode, which is Manual mode, Temperature control mode, Humidity control mode and Exhaust mode. If air cooler does not support exhaust mode, then no exhaust mode.

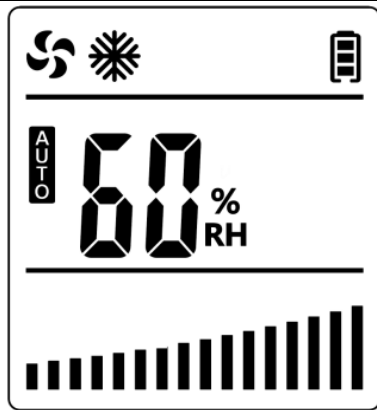


Manual mode

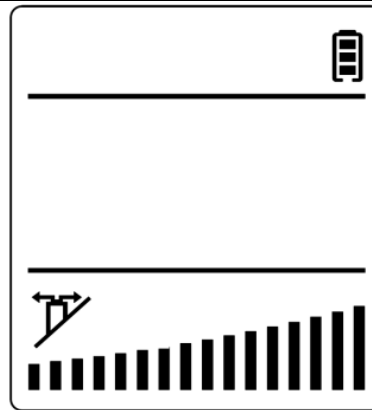


Temperature control mode





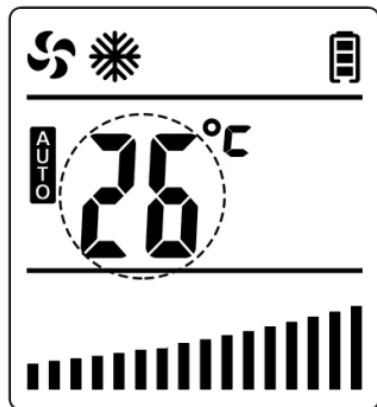
Humidity control mode



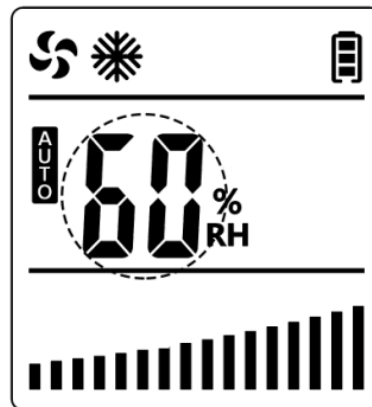
Exhaust mode

### 6. Adjust the set temperature and humidity

In the temperature control mode or humidity control mode, press the 【SET/MODE】 key, when the set temperature starts to flash, press  $\Delta$  or  $\nabla$  to change the set value.



Adjust the set temperature



Adjust the set humidity

### 7. Fan speed

Press the 【TIMER】 key, the timer power-on icon flashes, press the  $\Delta$  and  $\nabla$  key to set air cooler to turn on after N hours;

### 8. Timed power off

Press the 【TIMER】 key, the timer power-on icon flashes, then press 【TIMER】 key again, timer power-off icon flashes, press the  $\Delta$  and  $\nabla$  key to set air cooler to turn off after N hours;

### 9. Cancel timed function

Press the 【TIMER】 key, the timer power-on icon flashes, press the  $\Delta$  and  $\nabla$  key to adjust the timing to - - h.