

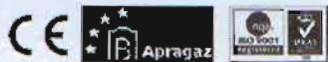
MODEL : 155



## OWNER'S MANUAL

READ AND SAVE THESE INSTRUCTIONS

- Read all instructions carefully before setting up and operating this unit.
- This manual is designed to provide you with important information needed to setup, operate, maintain, and troubleshoot your cooler.
- Due to continuous research and development the specifications herein are subject to change without notice.



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## 1. THEORY OF TEMPERATURE DROP

Evaporative Air Cooler is the high-tech product researched and developed by company.

This cooler use the theory of evaporation and cooling,by using the cellulous pad and Fan as the evaporator, the cooler can make the temperature drop effectively and improve the quality of air as it filters the dusts in the air.

The principle is: the fan does a suction to make a subpressure ,at the same time the pump carries the water to the distribution instrument to fully moist the surface of the cellulous pad, and the frame of the cellulous pad cause large touch area of water and air, which will maximize evaporation. While air passes the wet pad, water evaporation absorbs heat from air and the temperature come down. The air is also filtered by pad, then become fresh and cool, and, the unevaporated water drop to the base plate to make a loop.

## 2. PRODUCTS LIST

1. one cooler
2. one remote controller
3. the book of instructions

## 3. NAME AND FUNCTION OF EACH PART

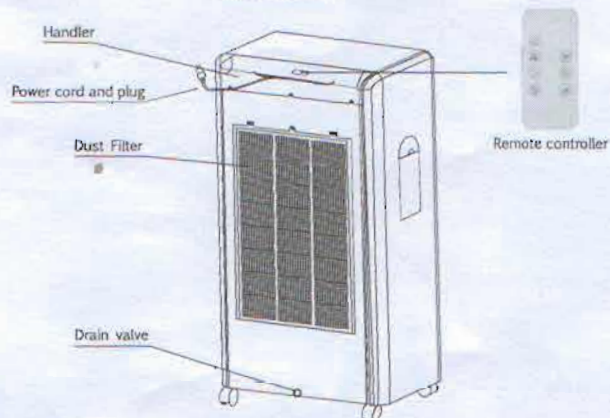
The front of 155



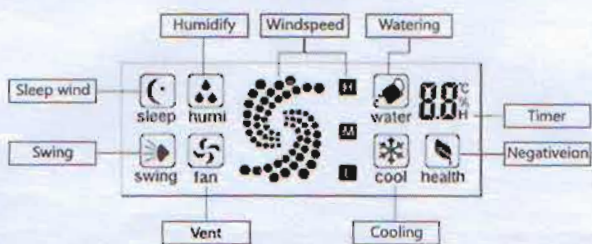


Health and fresh

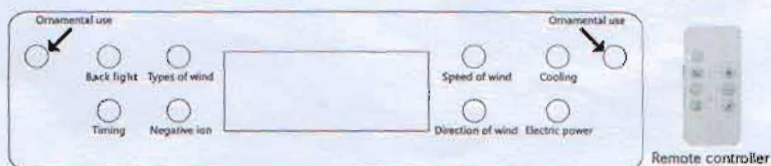
### The back side of 155



### 4. DISPLAY PANEL



### 5. CONTROLLING SYSTEM AND REMOTE CONTROLLER



#### ◆ electric power

Plug in the power cord, get a buzzer, then the cooler is ready to be turned on.

##### 1. ON/OFF

Switch on/off the electric power supply to the cooler.

##### 2. cooling

Press this button to enter the cooling mode. Acquiescent as the Low Speed Wind.

##### 3. wind speed

Press to set the wind speed as high/middle/low, the wind speed pattern will be changed correspondingly.

##### 4. auto swing function

Control the swing louver in air outlet, press again to stop swinging.

##### 5. types of wind

Change among the standard wind, the natural wind and the sleep wind.

**standard wind:** settle a wind speed which won't change

**natural wind:** the wind speed will change automatically and randomly

**sleep wind:** turn to middle speed half an hour later when switched from the high speed, turn to low speed half an hour later when switched from the middle speed, and no change when changed from low speed to this state.

##### 6. negative ion

Press to release negative ion as the same time the pattern lights.

##### 7. auto timing on/off

Press to use the time function, the pattern lights, chose the definite time as you want according to time displayed. when turned to 9h, Press to close the timing service.

#### ◆ Others

##### 1. sounds

Buzzer when pressed. The remote controller is same with the LCD Panel.

##### 2. protection for lacking of water

flashing when the water line is lower than the regular line, and the pump would stop working; back to work if water is added.

## 6. OPERATION AND USE

1. get the cooler out of the package.

2. add water

open the water filler (press to open), use bucket to fill water.

#### Tips for filling water:

◆ avoid to damage the electric parts by water

◆ max is enough, otherwise the water will overflow

◆ do use clean water

Our cooler also has auto water inlet valve. Just connect with tap water with hose, the cooler can add water by itself.



3. switch on to get to the holding state, press the on/off again, set different modes according to your needs: wind speed, direction of wind, negative ion, types of wind and the timer.
4. press the keyswitch to stop the running state and back to the holding state.
5. you can use the remote controller to operate the air cooler, the function of the remote controller is the same with the LCD screen.

- (1) remove the back cover to insert battery and check the indicator.
- (2) with the remote controller pointing toward the air cooler unit within 10m, signal is effective.

## 7. FUNCTION AND CONFIGURATION



The new type of evaporative cooler by using the cellulose pad, a pioneer for energy-saving



Large capacity water tank for long time cooling



Optimize the airflow in low noise



Humanized design to remove



Wide-angle wind to cover big area



Cooling and humidify air in traditional air-conditioned room as Aircon mode



Convenient auto timing on/off function



Enjoy the moist in a dry room with a heat retaining function



Remote controller makes it convenient



Beautiful LCD with nice back light



Three different wind speed to regulate as you wish



Different types of wind for a natural feeling



Oxygen bar give out of negative ion, feel like a forest and a waterfall, good for health

## 8. EFFECTS OF THE NEGATIVE ION

### ◆ How does the negative ion generate?

The new type of fully effective air conditioner gets the negative ion which full of oxygen from the discharged electricity from the carboforms, which combine with the oxygen to produce the negative ion, and adsorb to be an oxygen molecule. Those molecules with sufficient oxygen also named active oxygen.

### ◆ The negative ion is the significant element for the healthy air

correlational research shows that, the key point of a healthy air is the amount of negative ion in the air. The oxygen content of forests, waterfall and the beach is thousand-fold than the amount in the



uptown and office building, that is why we feel the fresh in the outside. Anions may improve metabolism, maintain a fresh air, relieve fatigue and effectively prevent the diseases arising from the air-conditioning, then keep the life health and fresh.

Ion: negative ion    S: number of negative ion    CC: millilitre

Locality	Concentration of ion	Effect
Forest & waterfall	100000-500000 Ion S/CC	self-healing
Mountain & beach	50000-100000 Ion S/CC	sterilization
Outdoor & openland	5000-50000 Ion S/CC	immunologic enhancement
park	1000-2000 Ion S/CC	General healthy
forest belt	100-200 Ion S/CC	Edge of physiological barrier
Uptown building	40-50 Ion S/CC	physiological barrier, headache & insomnia
air-conditioned room	0-25 Ion S/CC	Air-conditioning disease
air-cooler room	100000-500000 Ion S/CC	self-healing

#### ◆ Prevent air conditioning disease

prolonged reliance on air-conditioning environment, the body will contain the outside temperature regulation and the environment inherent adaptability, then there will be headache and insomnia, crack-up, memory loss etc.

The test shows that, Evaporative Air Conditioner produces two million negative ions each second and after several hours work, the content of negative ion will reach the level of that in the forest. The more one stays in this situation the better health one will get. such as: improve lung function, promote metabolism, improve resistance, improve sleep.

#### ◆ Sterilizing function and remove smoke and dust

The negative charge in the negative ion in the air could reach everywhere in the room by using the Air Conditioner. The negative charge combines with the dust and smoke and then change into neutral particle, the one which will precipitate naturally; and also, the negative charge combines with bacillus which will be eliminated later by the change of structure.

## 9. TO OPERATE YOUR UNIT PROPERLY

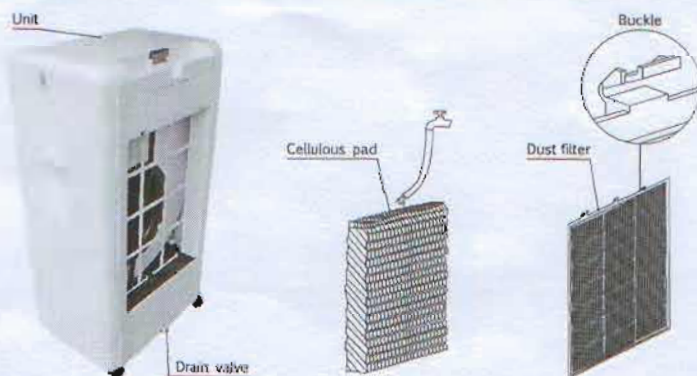


Please read carefully how to operate the unit properly. We shall not hold the responsibility if the accident appears unexpectedly

1. The water level must not exceed the MAX level at anytime or lower than the MIN level while cooling.
2. When the ambient humidity is high, normal fan mode without cooling is recommended.
3. When added water to the unit, do not slant or hit in order to avoid overbrimming and never overturn the unit.
4. Do not put anything on the unit or cover the air-out place, no obstacle within one meter during work.

5. The pump won't work if the function of cooling is required while there is no water in the tank.
6. Unplug power supply before checking or cleaning
7. When cleaning the surface, use a wet packing sheet, do not use detergent that would corrode the unit and do not rinse directly with water.
8. Unplug and re-start the unit before the unit is out of water when it is slanted with water in the tank.
9. The air outlet holes should be kept away from the wall and the curtain, or it would block the way of wind and cause the failure of the effect.
10. Do not hit or shake the unit during working or it would automatic stop. Restart it if happened.
11. Unplug the unit when not use in long time
12. Do not use the cooler if the covering of power plug or code is broken.
13. Remote controller handling procedure
  - (1) Attention to the + / - marks
  - (2) Better not throw out cells for the environmental protection
  - (3) Remove cells when the remote controller is not used for a long period.

## 10. HOW TO CLEAN



### ◆ Dust filter

Screw out the bolts on the filter, press the buckle to get off the filter, use soapy water and banister brush to clean the filter then dry in the sun and reinstall the air filter.

### ◆ Cellulose pad

After take the filter out, the pad can be taken out easily. Use water to clean and reinstall the curtain.

Attention: high pressure or brush can not be used to clean the pad.

### ◆ Water tank

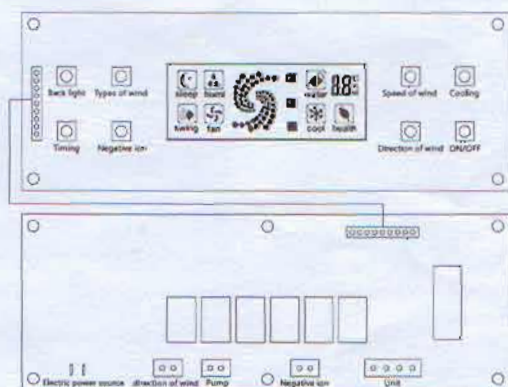


Screw out the drain valve in the back bottom of cooler, discharge the water out and fill with clean water.  
**Advice:** change clean water everyday, do not wait for the water become smelly.

## 11. TECHNICAL PARAMETER

Model number	155
Output capacity	3500m <sup>3</sup> /h
Voltage	220V
Frequency	50Hz
Power input	300w
Type of fan	Centrifugal
Water consumption	3-4L/H
Water storage	35L
Size of figure	620*440*1170mm
Weight	25Kg
Size of the output	460*260mm
Noise	54db (A)
Cooling area	20-30m
Working current	1.45A

## 12. CIRCUIT DIAGRAM



### 13. WHEN THE OPERATION FAILS HOW TO REPAIR

We hope you will know the following when using the unit.

Symptom	Reason	How to do
Power light not flashed	1. No power 2. Maincontrol panel problem 3. Fused 4. Lcd panel problem	1. Get the power supply 2. Change the main control panel 3. Change the fuse 4. Change the lcd panel
Out of control	1. Obstruction for the power source 2. Obstruction for surrounding 3. Lcd panel problem	1. Restart the unit 2. Clean and away from obstruction 3. Change the lcd panel
No wind or wind is too small	1. Fan blocked 2. Water curtain or filter plugged up 3. Fan out of shape 4. Maincontrol panel problem	1. Check and tight 2. Change and clean 3. Change the fan 4. Change the main control panel
Motor out off control	1. Maincontrol panel problem 2. Lcd panel problem	1. Change the main control panel 2. Change the lcd panel
Abnormal noise	1. Varia inside the unit 2. Fan loose 3. Electric motor error	1. Take off filter to get varia out 2. Tight the fan 3. Change a motor

**Notice:**

1. The above is only for your reference, if the problems can not be found in the table, please contact us or a qualified technician for further inspection.
2. Do NOT open and repair the unit by yourself.

#### 14. ATTENTION

1. Must be installed in well-ventilated and dry place to ensure 100% fresh air can be bring in.
2. Enough air exhaust is a Must to run the cooler. (3600m<sup>3</sup>/h airflow requires up to 0.8m<sup>2</sup> of exhaust area when natural exhausting and the exhaust capacity should not less than 85% of airflow when mechanical exhausting.) Mechanical can be combined with the natural exhaust.
3. Debugging the cooler when the first running. Ensure that the operating current at the rated current range.
4. Keep away any source of fire when assembling or operating the cooler.
5. Ensure the supply voltage is within the rated  $\pm 10V$  range, otherwise it will break the cooler such as cannot start the cooler or start and stop frequently.
6. Keep the wall controller and the control lines away from strongly EMI (such as the equipment with frequency speed controller, SCR temperature and speed controller, high frequency heating circuit or super high power motor etc). It is better not to keep them at the same line of power lines, if you have to, then make sure the distance between them is more than 30cm.
7. Please power OFF the cooler while it is raining or thundering, otherwise the air compressor will absorb moisture.
8. The appliance must be fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under over voltage category III conditions, and these means must be incorporated in the fixed wiring in accordance with the wiring rules.
9. Please make sure that the unit and power connection have good earthing, otherwise may cause electrical shock.
10. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or 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. Children should be supervised to ensure that they do not play with the appliance.
11. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.