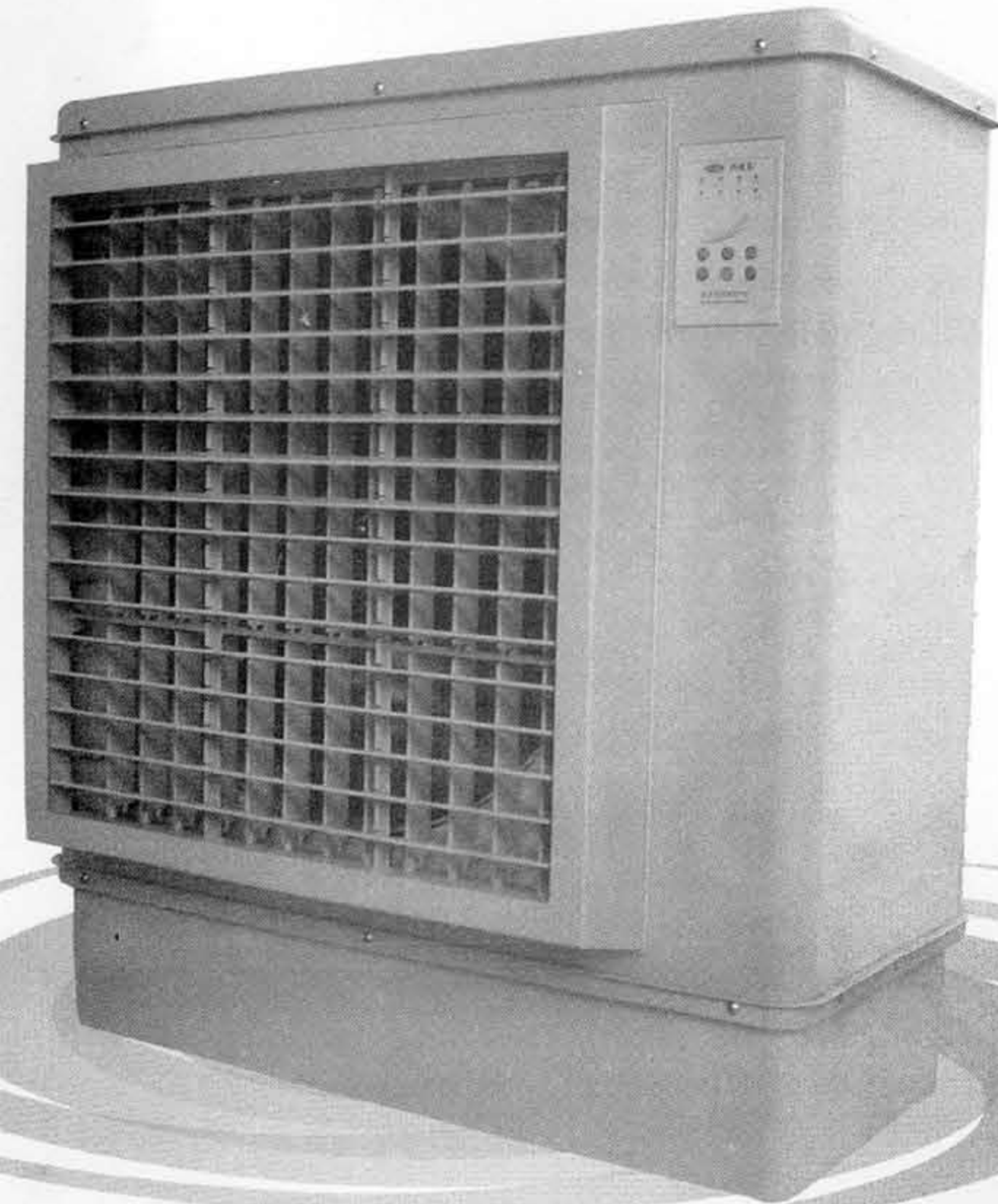




# Evaporative Air-Cooler Units

## KLF-06B Operation Manual



Patented product(s), counterfeiting forbidden.  
Statement: All rights reserved, copy is not allowed.  
The company reserves the right to change the product  
design and the specification without further notice.

**Preface**

Thanks for your trust and support choosing evaporative air cooler units. The appearance of the product your purchased might be different with the this manual. However , it won't affect the operation and use.

To operate the unit better, read the instruction carefully before using it.

**Content**

Preface

Content

Basic principle、 Application and Specification	2
Cautions	3
Operation instruction	4
Model instruction and Installation diagram	5
Installation diagram of stand	7
Assembly sketch map	8
Angle adjustment sketch map	9
Maintenance	10
Circuit diagram	11
Troubleshooting	12



### Basic principle

Evaporative air cooler units is a high-tech product, introduced from Europe and America. Its basic principle is as follows: Water evaporation brings away the surrounding heat and causes the temperature to become low. Its working principle is that negative pressure occurs because of wind draining by exhaust fan. Air goes through the cooling pad and the water pump transmits water to the pipes of cooling pad at the same time. The water nourishes the touching surface evenly and the cooling pad angel makes water flow evenly to the side of wind inlet, absorbing amount of the heat from air, which cool the air in cooling pad and makes the wind cool, wet and fresh. The unevaporated water falls into the bottom, forming the water cycle. There is a water inductor in the bottom, so when the water falls to certain level, inlet valve will open automatically to add water; when water reaches the appointed level, the valve will close automatically.

### Application

Manufacturing: textile, machinery, ceramic, refine chemical industry, metallurgy, glass, hardware and leather factories:

Processing: plating, electronic, shoe making, painting, plastic, clothes making, food package etc. Others: golf center, baking place, playground, hospital, waiting room, school, supermarket, washing room, kitchen, vegetable market, entertainment center, underground parking lot, park, greenhouse, poultry farms, garden, and places where air conditioning and ventilation fan has been installed but cooling is not enough.

### Specification

Model	Max airflow (m <sup>3</sup> /h)	Power Supply /Frequency (V/Hz)	Power consumption (W)	Outer Size LxWxH (mm)	Size of Air Orifice (mm)	Weight (kg)	Noise DB(A)
KLF-06B	6000	220/60	350	850x480x1000	570x570	32	≤65

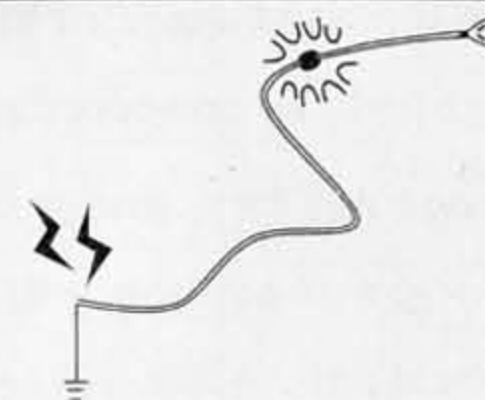
**Attention:** If the product you bought is different with specification, standard shall be object to the real fitting.

### Cautions

Before operating the unit, please read the following instructions carefully:

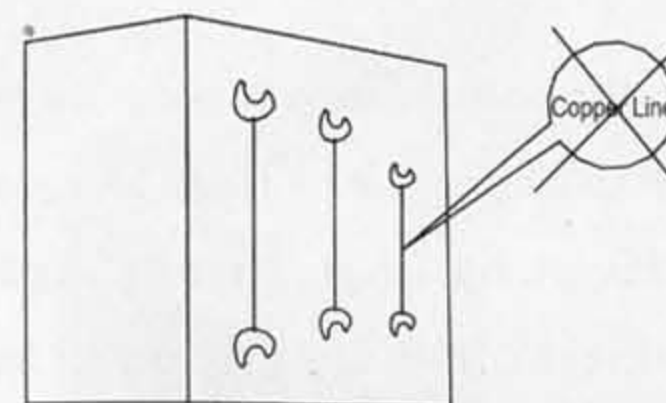
#### Running the unit correctly under the following items:

- Environmental temperature : 18-45°C.
- Environmental relative humidity: ≤85%.
- Atmospheric pressure: 86KPA-106KPA.
- The supplied water should be soften water, water temperature ≤45°C, water supply pressure: 0.15-0.6Mpa.
- Voltage tolerance +5%.
- Environmental Air quality should be no less than GB3096 third grade(Including).
- Corrosion-free environment.

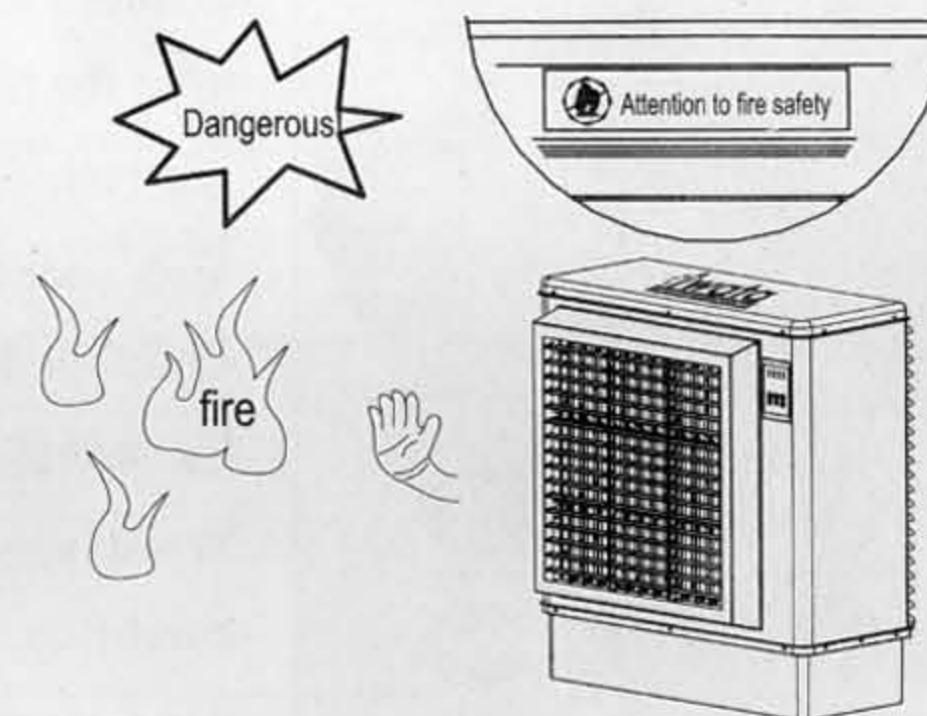


The wiring should be connected correctly and kept solid, keep away from mouse biting and overweight pushing, stretching, or changing of power cord and control wire.

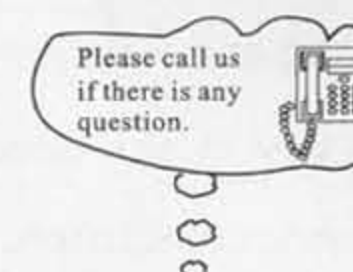
**Power cord should be changed by the manufacturer or qualified personnel if there is damage.**



Don't use the incorrect fuse or other metal fuse, it might cause fire.



Keep far away from fire during transportation, installation and operation.



Any abnormality occurred during operation, please stop using immediately and inform manufacturer or distributor.

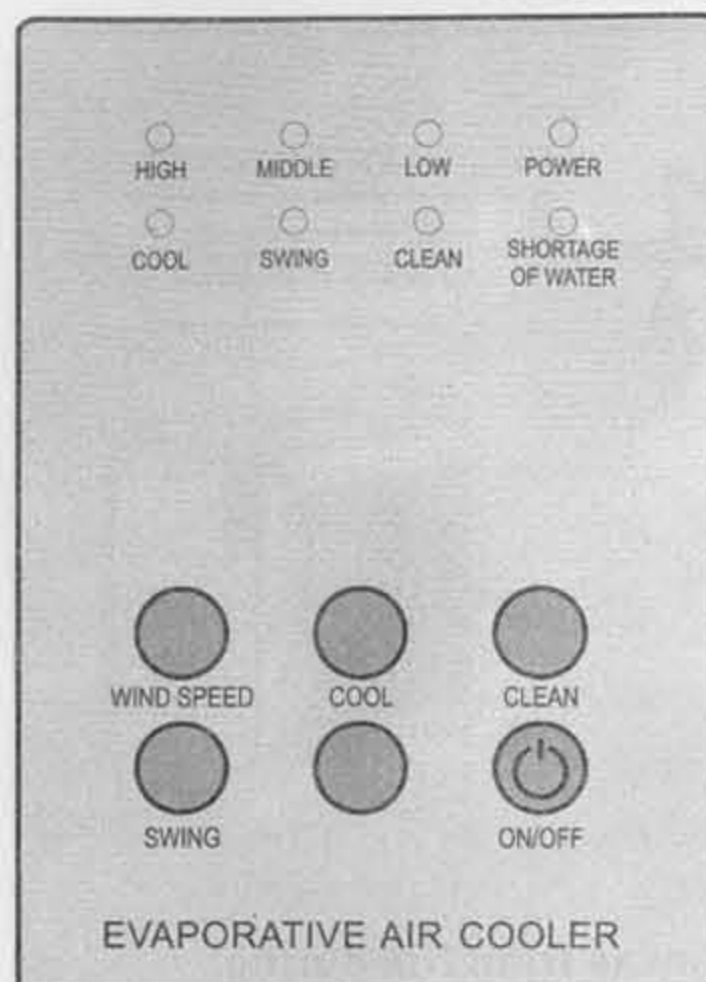
#### Warning :



All users please operate under above instructions, if not, any fortuitous accident occurred, our company shall not take any responsibility.



## Operation instruction



**Power:** The power indicating light will be on when power connected, the machine goes into “standby” condition after the buzzer rings.

**On/Off:** Press On/Off key to start, the machine will be in high speed of cooling and air circulation, press On/Off again under this condition, the machine will turn to “Standby”.

**Wind speed:** Press wind speed key under “standby” condition, the fan will operate in full speed, then press the wind speed key to change the wind speed of high, middle and low, the indicating light will be on accordingly.

**Cooling:** Press the cooling key under “standby” condition, the machine stops working, and the indicating light of cooling will be on and indicating light of cooling flickers, water pump starts operating. After 30 seconds, the machine starts cooling and swing works.

**Clean:** Press clean key in any condition, the draining valve will be working for 3 minutes, then goes back to former condition.

**Swing:** In condition of wind or cooling, press the swing key to start or stop swinging.

#### Full water alarm:

The buzzer will ring for 8 seconds if water level reaches to the highest when add water manually.

**Water shortage alarm:** If the water level goes down to the lowest for 30 seconds when cooling, the indicating light of water shortage will flicker and buzzer will ring, 15 seconds later, the indicating light of water shortage will be on, the pump stops working, and the machine stops cooling, when water level increase to normal level, indicating light will be off after 30 seconds, then press the cooling key to start cooling.

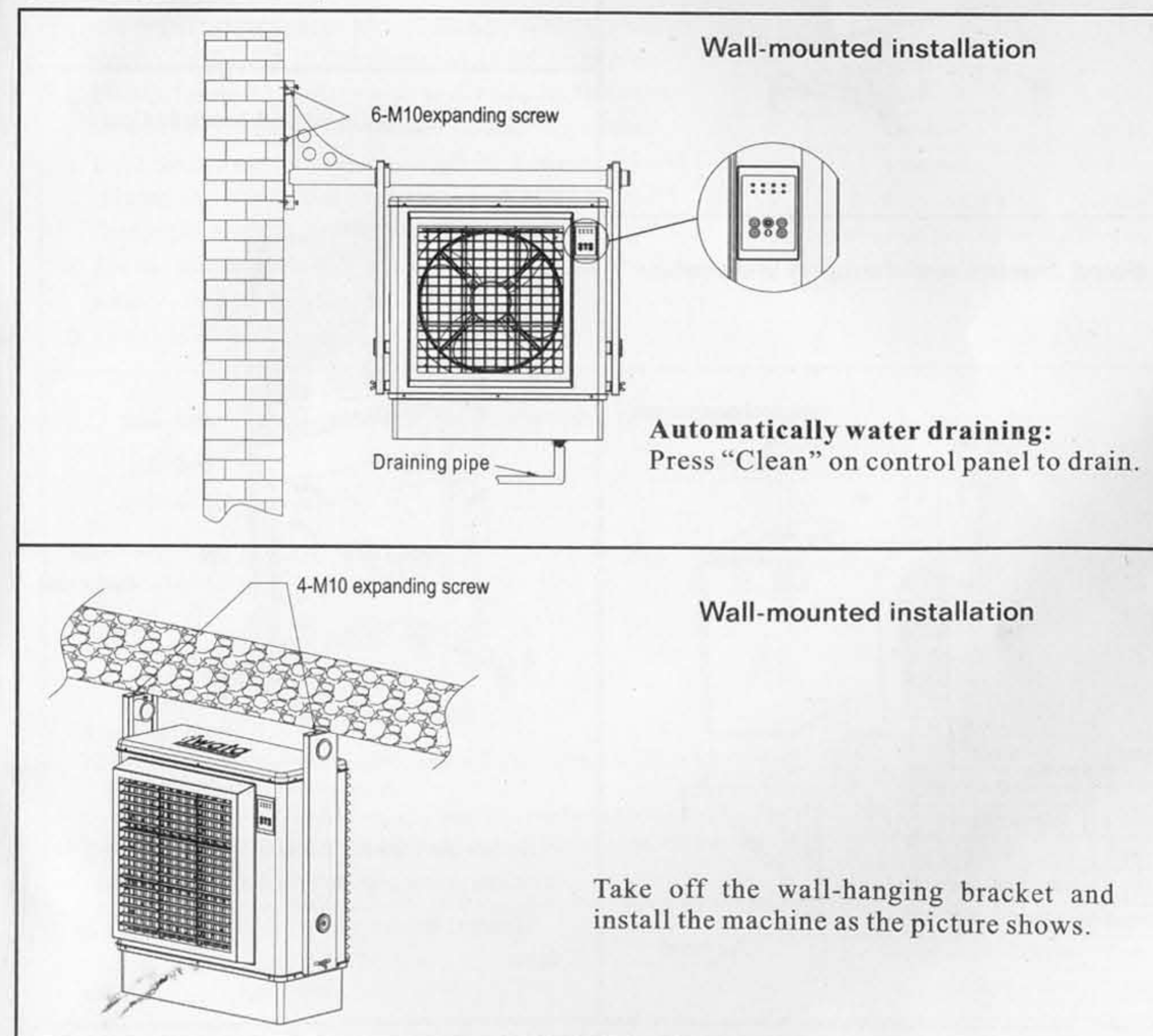
**Remote control:** The function of remote control is the same as above on control panel.

## Model description

**Attention:** The product you brought may be different from picture showed on this operation manual because of modifications or improvements of model.

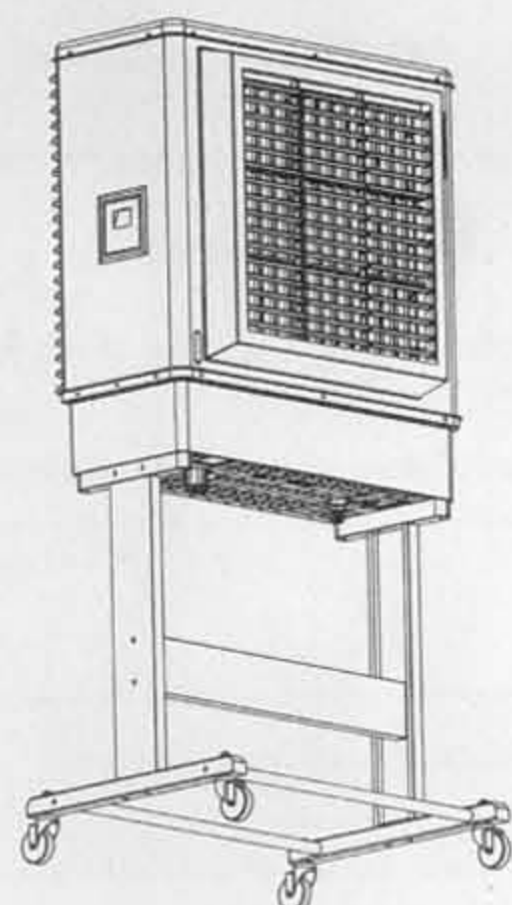
Model	Water feeding	Drainage	Remark
A	Manually	Manually	Applicable to the installation of wheel stand, high stand and low stand
B	Automatically	Automatically	Applicable to the installation of wall hanging
C	Automatically	Automatically	Air nozzle separately, applicable to the installation of wall, hanging with foot stand fixed
D	Manually and automatically optional	Manually	Applicable to the installation of wheel stand, high stand and low stand

## Installation diagram

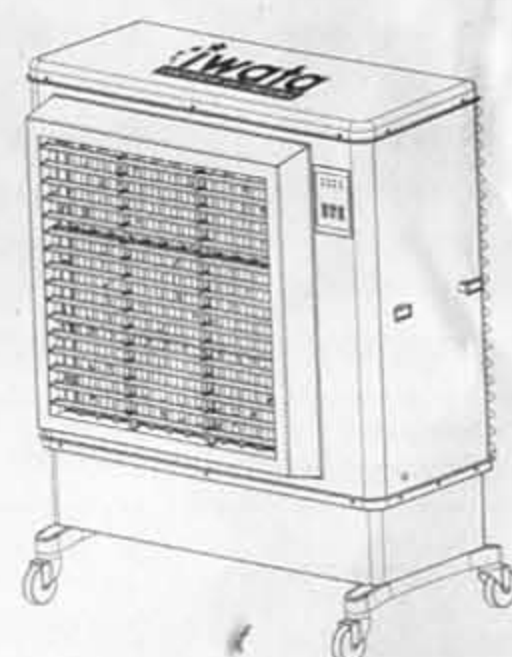




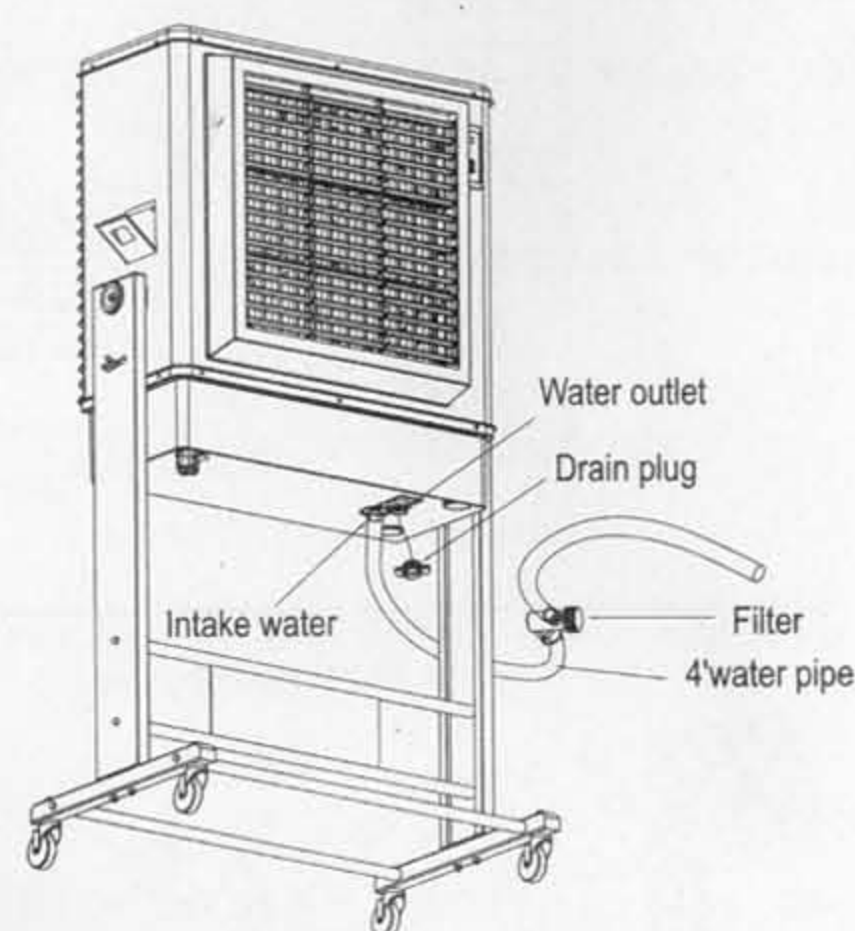
High stand installation



Wheel stand installation



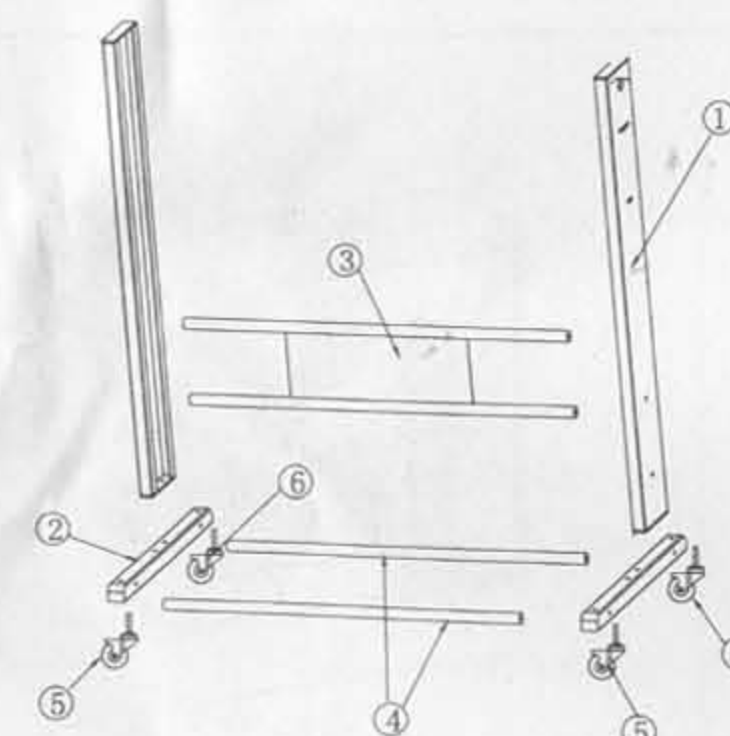
High side stand installation



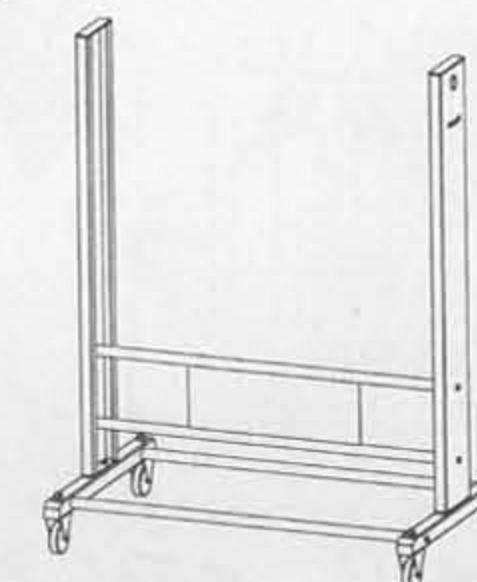
**Automatic water feeding:** Connect the filter with the water pipe to add water automatically.

**Manual drain:** screw off the drain plug to drain.

Installation diagram of stand



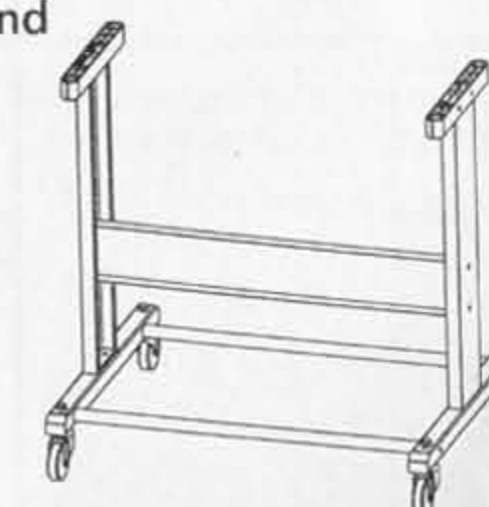
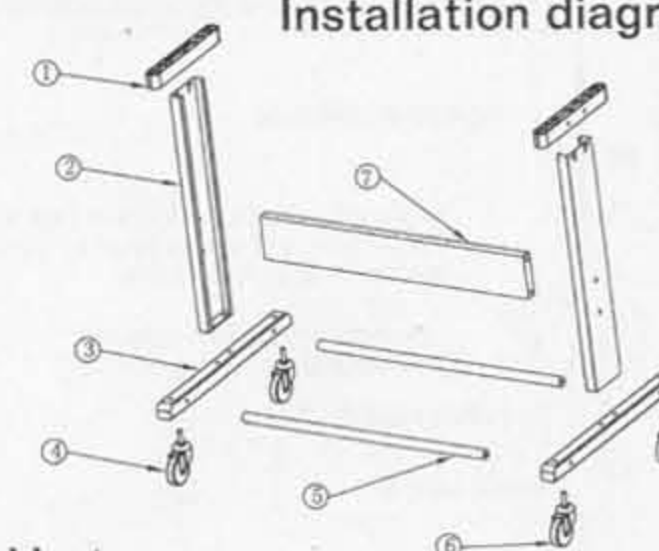
High side stand assembly sketch map

**Assembly steps:**

1. Fix the 3in wheel to the box section with M10 circular nut. At fixing, put 10 flat washers and spring washer.
2. Fix the frame supporting pipe to the box section with M8x55 hex bolts and Ø8 washers and spring washer.
3. Drill the M8x55 hex bolts through the bottom of frame column and box section, and fix it with MB8 bolts. At fixing, put one flat washer at the upper and lower part.
4. Fix the brand frame with M8x 20 hex bolts and Ø8 flat washers and spring washer.
5. Finished as the picture.

No.	Names	Quantity
1	Frame column	2 articles
2	Box tube	2 articles
3	Brand frame	1 articles
4	Frame supporting pipe	2 articles
5	3-inch common Steering wheel	2 articles
6	3-inch Steering wheel with brake	2 articles

Installation diagram of high stand

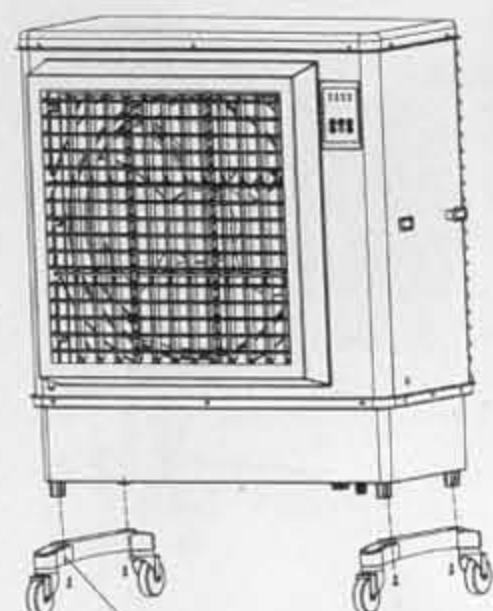
**Assembly steps:**

1. Fix the 3-inch wheels on the box tube with M10 nut; the flat washer 10 and spring washer 10 are necessary.
2. Fix the bolt M8\*50 on the box tube with flat washer 8 and spring washer 8.
3. put the M8x55 hex bolts though the bottom of box section, then screw it with bolt M8 and flat washer.
4. Fix the reinforced board with M8\*10 bolt and spring washer as well as flat washer.
5. Fix the high stand with M5\*10 bolt
6. Finish it as picture shows.

No.	Names	Quantity
1	Frame column	2 articles
2	Pole of stand assembly	2 articles
3	Box tube	2 articles
4	3-inch common Steering wheel	2 articles
5	Frame supporting pipe	2 articles
6	3-inch Steering wheel with brake	2 articles
7	Reinforced board of stand	1 articles

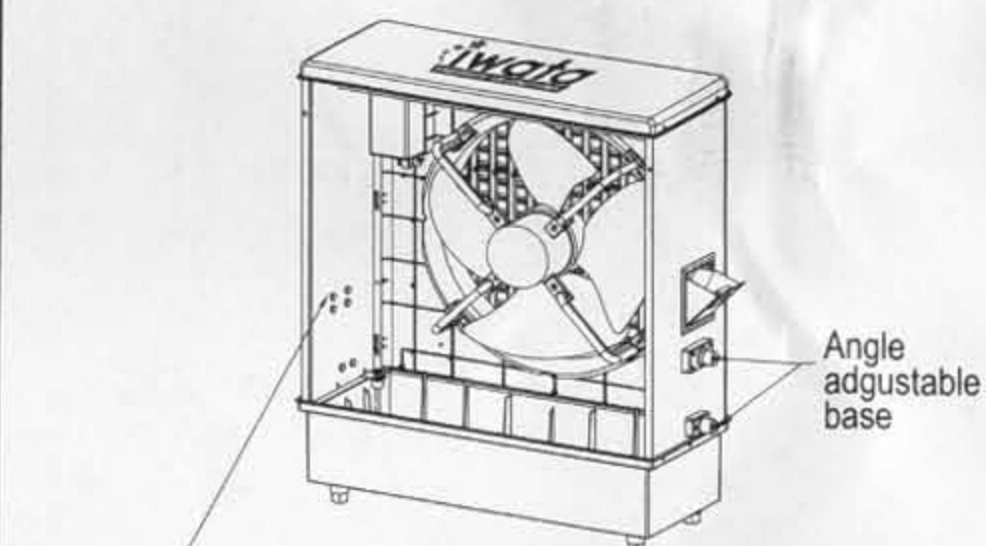


## Assembly sketch map



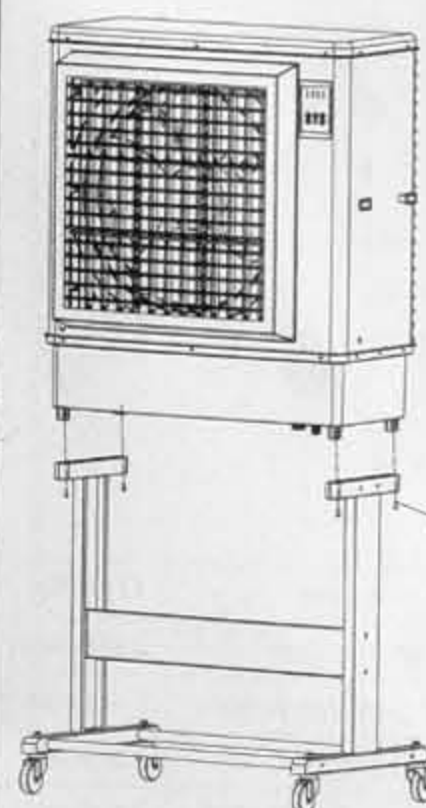
Take out plastic foot from accessory carton, enclose in the chassis according to diagram.

If don't install frame on the mainframe, don't install angle adjust base, too. plug up hole of side board by plastic washer of side board.

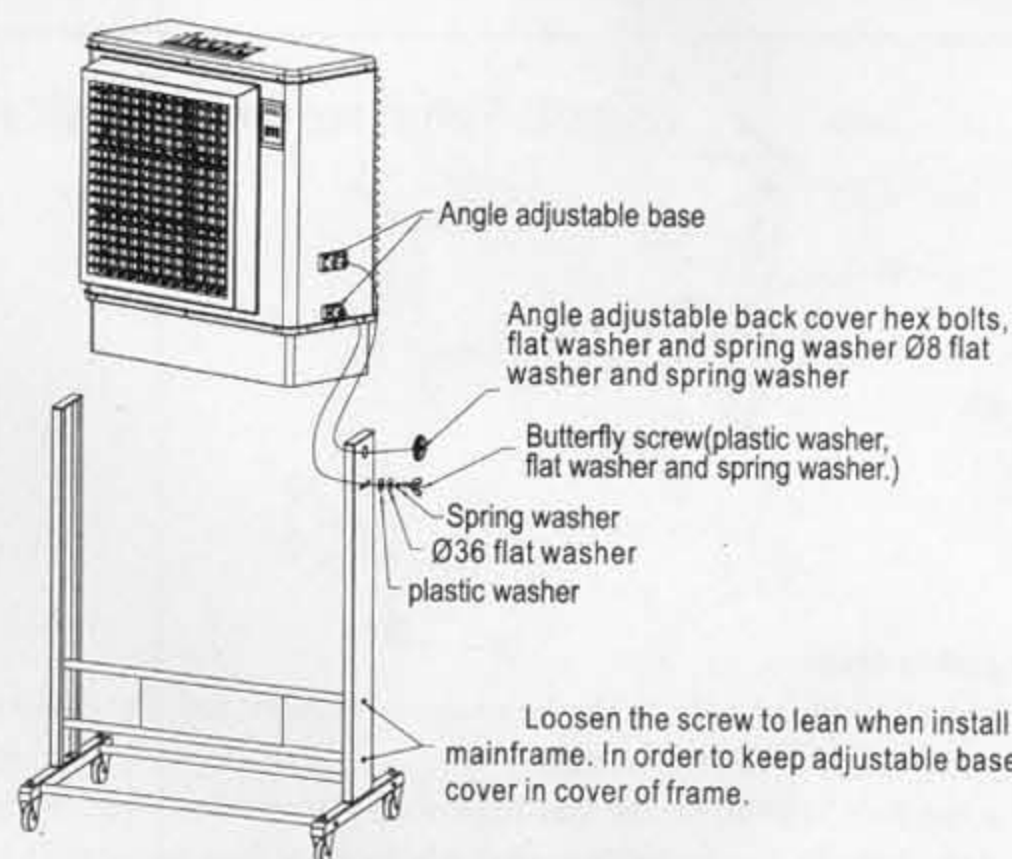


M8x20 hex bolts Ø8 flat washer and spring washer.

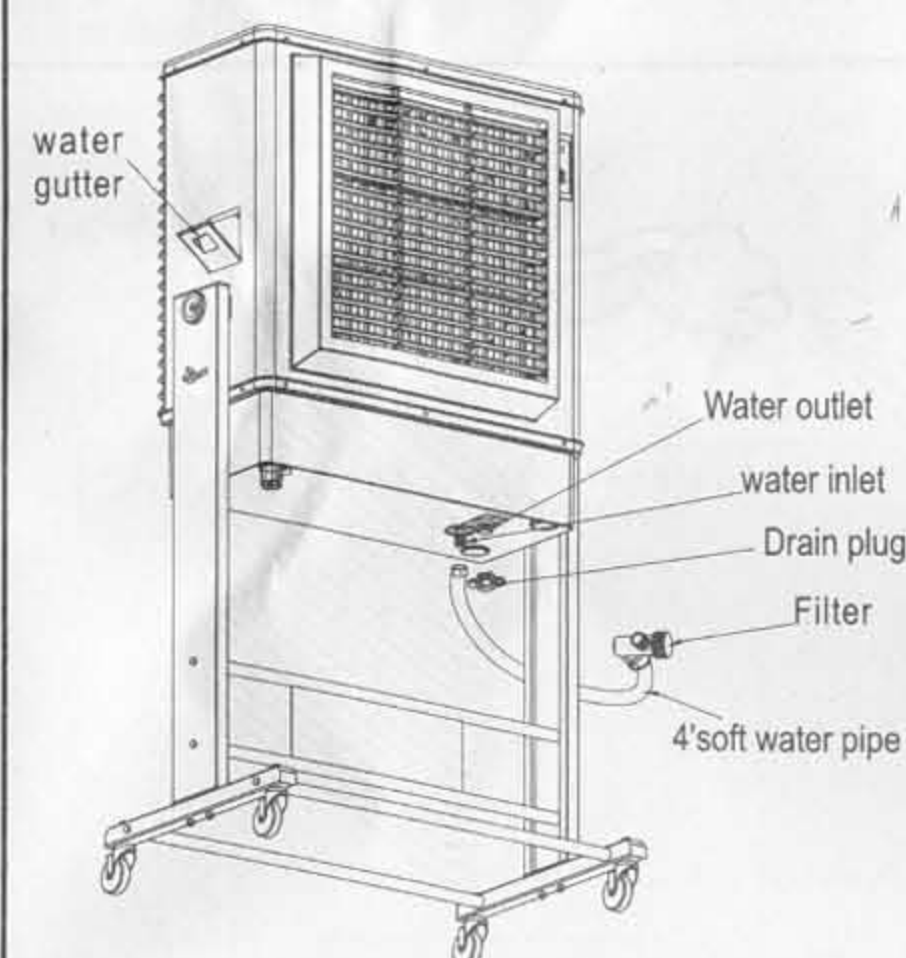
open the cooling pads, take out angle adjustable base from accessories carton according to sketch map, fix adjustable base to two sides of side board with M8 screw.



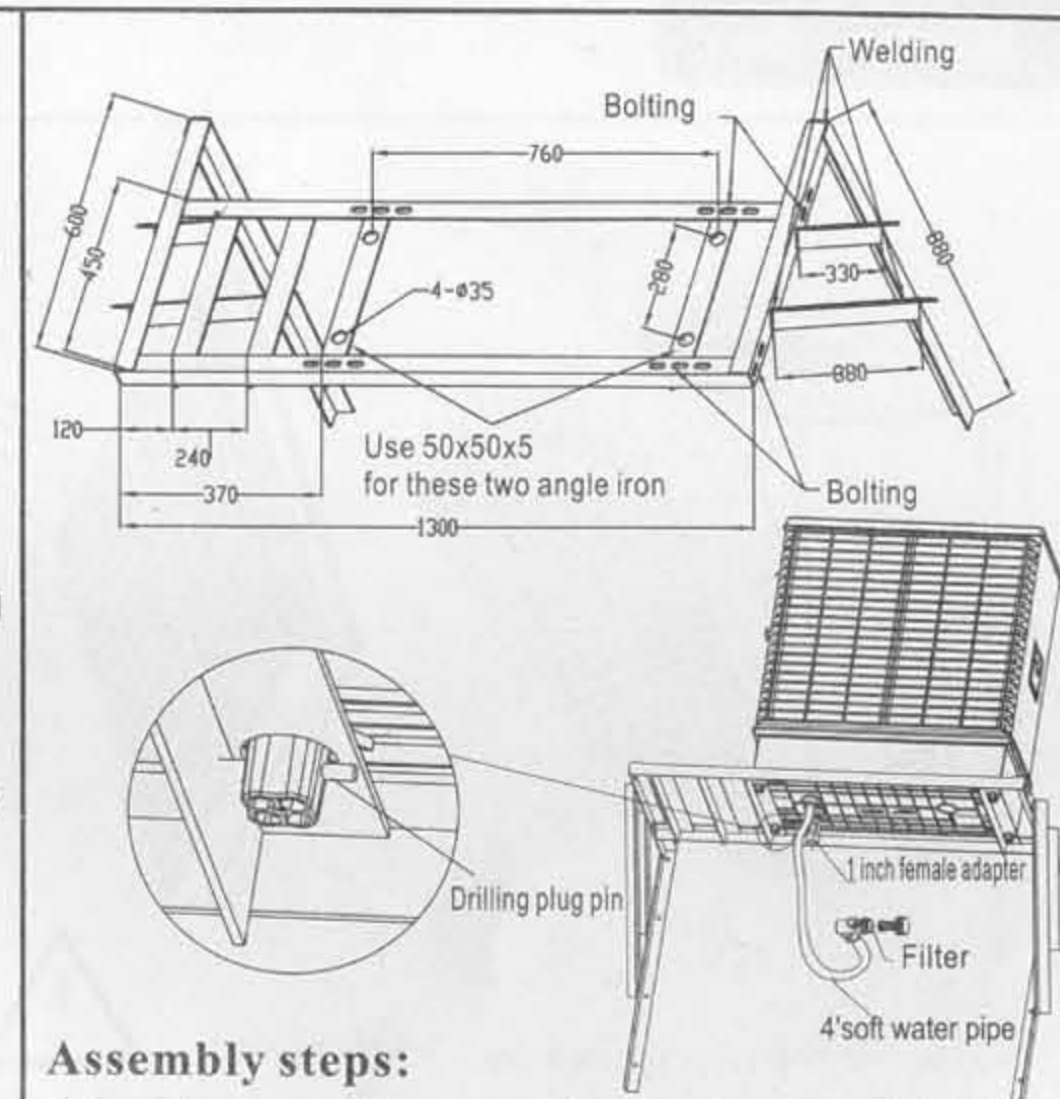
Put the mainbody into the high stand, and fix it by cross oblate auto-attached bolt (ST5\*12)



Put the host on the mainframe with its sides angle adjustable base cover in cover of frame. According to sketch map, fix back cover. after adjusting angle, fix it by butterfly screw.



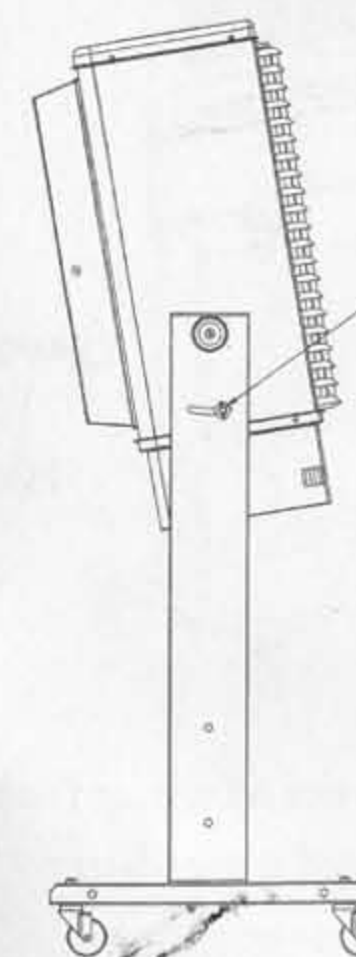
Connect one end of soft hose onto the water inlet, the filter should be connected with the end of water source, the valve can not be opened in case of water leakage, it can be unscrewed when cleaning.



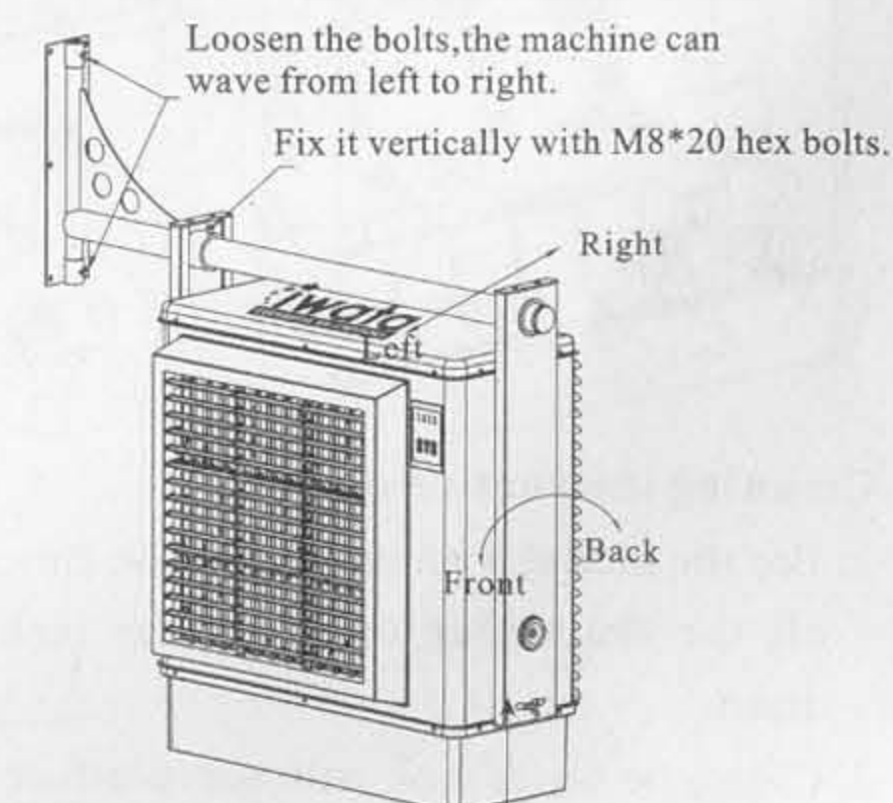
## Assembly steps:

1. Put the machine onto the bracket, and drill holes in the pillar to put into cotter.
2. Connect the soft hose with the water inlet, and connect the other end with filter onto the water source,.
3. Screw the female connector into the draining valve, and then connect 1-inch water hose for water draining purpose.

## Angle adjustment sketch map



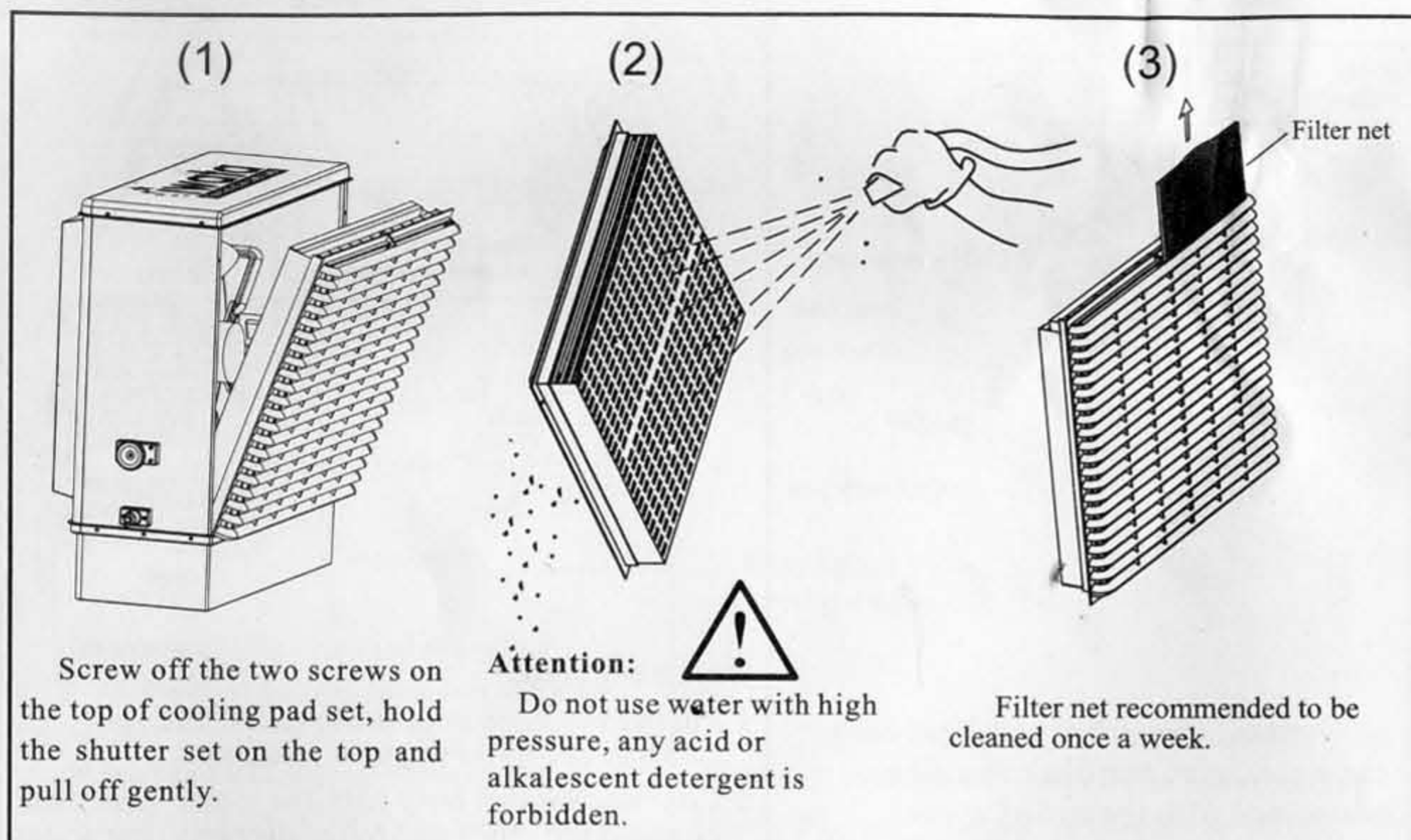
Loosen the screw, adjust mainframe declining forward and backward. After adjusting angle, tighten screws to fix.



Loosen the screw, adjust mainframe declining forward and backward. After adjusting angle, tighten screws to fix.



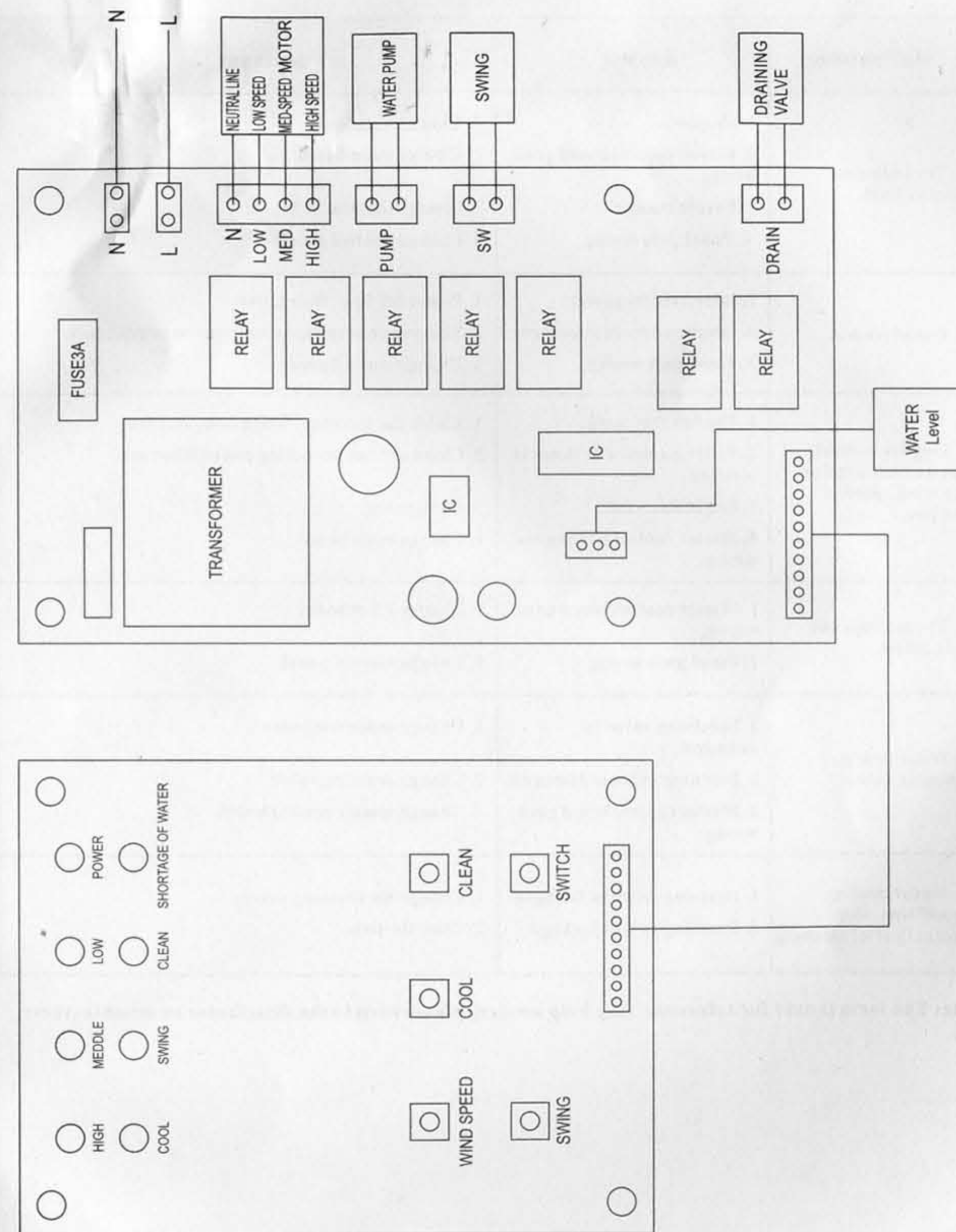
## Maintenance



## Cleaning instructions:

1. For the model without auto-drain function, screw off the drain plug on the water tank bottom to drain.
2. Clean the water tank with soft cloth or brush.
3. Clean dirt on water level with wet cloth.
4. Clean water pump and filter net with soft brush.
5. Clean out dirt on the bottom of drain valve.

## Circuit diagram



(Only for reference, for details pls refer to switch box)

## Troubleshooting

Malfunction	Reason	Methods
1. The indicator doesn't light.	1. No power. 2. Master control board goes wrong. 3. Fuse is burnt. 4. Panel goes wrong.	1. Check the circuit. 2. Change main board. 3. Change the fuse. 4. Change control panel.
2. Out of control.	1. Interfered by power; 2. Interfered by environment; 3. Panel goes wrong;	1. Power off first, then restart. 2. Remove or keep far away from the interference. 3. Change control panel.
3. Display normal, but without wind or the wind speed is too low.	1. The fan gets stuck. 2. Water screen or dust-net is blocked. 3. Fan is distorted. 4. Master control board goes wrong.	1. Check the machine, fixing hoop and fan. 2. Clean or change cooling pad or filter net. 3. Change fan. 4. Change main board.
4. The motor is out of control.	1. Master control board goes wrong. 2. Panel goes wrong.	1. Change main board. 2. Change control panel.
5. Water leak at draining valve.	1. Induction valve is damaged. 2. Draining valve is damaged. 3. Master control board goes wrong.	1. Change induction valve. 2. Change draining valve. 3. Change master control board.
6. Under cooling condition, stop working after cleaning	1. Draining valve is damaged. 2. Draining valve blockage.	1. Change the draining valve. 2. Clear the jam.

**Note:** The form is only for reference. Any help needed, please turn to the distributor or manufacturer.