

# Manual Instruction

EN

AIR PURIFIER

***KJF-450BYB***



WinEurope S.A France

Email : [info@purline.com](mailto:info@purline.com)

Internet : [www.purline.com](http://www.purline.com)

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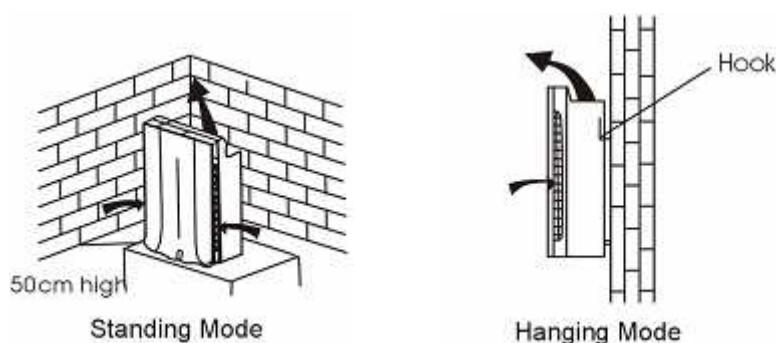
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## I. Features

KJF-450BYB/KJF-450AMW Intelligent Control Air Purifier is specially designed for some sites such as family, office, hospital, hotel, farm, school, kindergarten, laboratory and so on. This product not only has a novelty design but also has an excellent function. In this product air purification, sterilization and deodorization are well integrated. It obtains an honor certificate from the China's Household Product Quality Assurance Center.

1. This product uses medical-grade HEPA□High Efficiency Particulate Air□filter which can sift all kinds of motes and bacterias smaller than 0.3 micron.
2. This product uses photocatalysis filter mesh. On the mesh surface, there are activated porous carbons. They can absorb harmful gases from aldehyde, benzene and nitrogen compounds, as well as smells or odors. The photocatalysis material also can decompose the absorbed pollutants into carbon dioxide and water.
3. This product uses the ultraviolet range to kill all the virus and bacteria. Air is sucked and filtered. Through ultraviolet, fresh air with no virus or bacterias is produced and sent out by fan.
4. This product has different levels of wind speed. During sleeping time, slow (silent) level can be used to make your sleep reliable, sweet and comfortable.
5. This product adopts negative ion generator which can make the purified air with plentiful negative ions and give us a fresh environment.
6. This product adopts plasma equipment which can remove smoke, dust and pollen.
7. Users can choose this product with either HEPA filter or active carbon filter according to their needs.

## II. Installation



### 1. Installation points

- 1). Please install this product according to the sketch in the right.
- 2). For effectively absorbing dust, it shall be installed in a lower position.
- 3). For effectively filtering peculiar smell and harmful air, it shall be installed in a higher position.
- 4). For improving air circulation and air quality better while air conditioner is in running condition, it shall be installed opposite to the air conditioner, with a height about 1m.

This product can both keep air fresh and make temperature harmonic.

5). This product may not work beyond the following situation:

Room temperature 0-32□

Room humidity ≤80%

## 2. Notes

Before using this product, please read the following notes including “Warnings” and “Cautions”.

**Warnings:** Failure to follow “Warnings” may cause severe property damage or personal safety.

**Cautions:** Failure to follow “Warnings” may cause fire or personal injury.

### Warnings

- 1). Do not use a damaged power wire or a loose plug in order to avoid fire hazard, short circuit, electric shock. Please contact maintenance center of this product and ask professionals to change the wire if it is damaged.
- 2). Do not damage, bend or pull power wire. Do not install other things on power wire or let power wire be squeezed between two objects.
- 3). Use rated pressure. Otherwise components may be damaged or fire hazard and electric shock may happen.
- 4). Do not dismantle, repair or refit this product by yourself. It may cause fault or fire.
- 5). Switch off power and pull out the plug before changing filter or mesh, cleaning or moving this product. Then begin change and cleaning according to the instructions.
- 6). Do not operate this product with wet hand, or it may cause electric shock.
- 7). Do not install this product in any damp place (including moist or mist room, like bathroom). Moisture may cause electric shock and damage this product.
- 8). Do not use this product in a place with much oil. Otherwise damage, electric shock or fire may happen.
- 9). This product can purify air, but it can not decompose some gases including carbon monoxide.

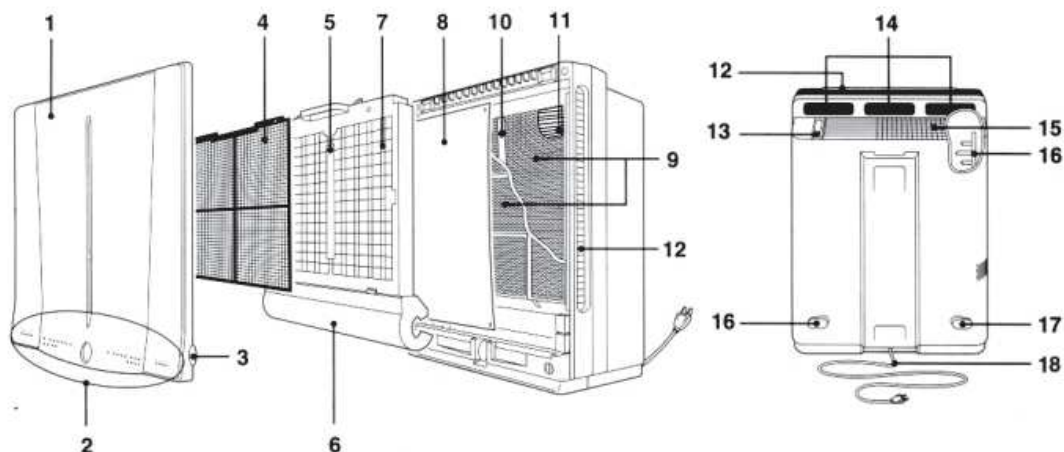
### Cautions

- 1). Do not put this product near lighting equipments(1 meter away). Do not put this product outdoors or under sunshine. Or color may fade and sensitivity of remote controller may decrease.
- 2). Do not put this product near heat resource which may cause discolouration and deformation.
- 3). Install this product 2 meters away from light, TV, radio, acoustics and antenna. This product may disturb signal. Light will decrease sensitivity of remote controller and cause discolouration of this product.
- 4). Do not use this product for smog discharge or ventilation in kitchen. It will shorten

- lifespan of filter mesh or damage this product.
- 5). Prevent synthetic fluid, sparks or burning objects from falling into this product. They may cause fire.
  - 6). Do not put your finger or other objects into air inlet and outlet. It will cause electric shock or injury.
  - 7). Turn off this product before you use insecticide in order to prevent chemicals from entering this product. Or it may produce harmful irritative substances.
  - 8). When this product works with humidifier, prevent moisture from entering this product. Moisture will cause electric shock and personal injury.
  - 9). Do not block inlet or outlet, because it will weaken function of this product and may damage this product.
  - 10). Do not put any water container near this product for fear of electric shock and fault.
  - 11). Neither use benzene or its diluent nor use insecticide to clean this product. Otherwise, plastic body of this product may break and electric shock or fire may happen.
  - 12). Please pull out the plug from the socket when you do not use for a period of time. Hold the plug handle and pull it out, or it may cause electric shock or fire owing to short circuit.
  - 13). Do not turn on this product before you follow this instructions to install the filtration in order to keep this product's usual function.
  - 14). Do not sit on or stand on this product.
  - 15). Do not operate this product when it is shaking, decumbent or tilting. It may cause faults
  - 16). Good ventilation should be available when this product works with other heater. This product can not remove carbon monoxide. Otherwise it may cause anoxic accident.
  - 17). Do not use this product in an area full of flammable gas, corrosive gas or metal dust. Otherwise, fire or fault may happen.

### III. Mainframe Structure and Introduction

#### 1. Structure sketch map

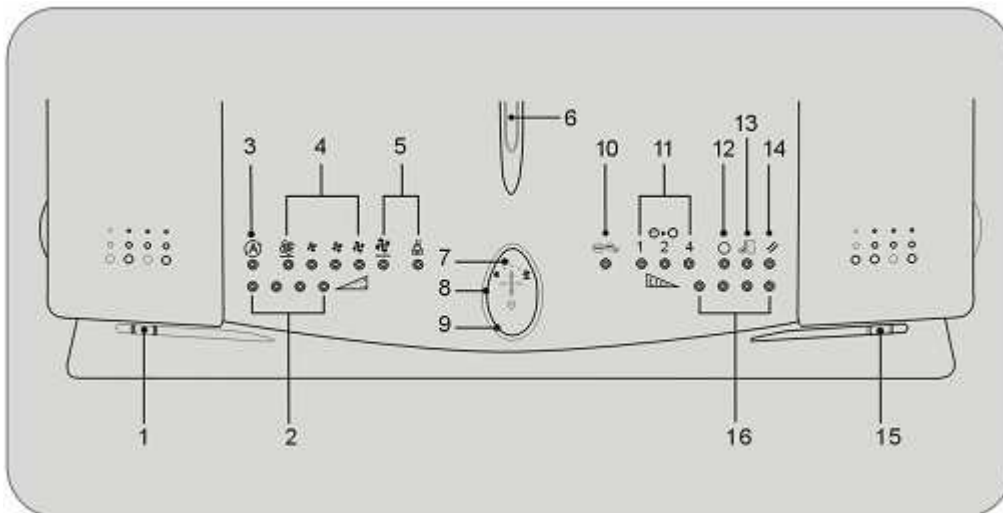


- |                                 |                      |                               |
|---------------------------------|----------------------|-------------------------------|
| 1. Front panel                  | 2. Mainframe display | 3. Panel removal handhold     |
| 4. Primary filter mesh          | 5. Plasma equipment  | 6. Filter cotton placement    |
| 7. Symmetry electrode panel     | 8. Filter cotton     | 9. Photocatalysis filter mesh |
| 10. Photocatalysis lamp         | 11. HEPA filter mesh | 12. Inlet                     |
| 13. Remote controller placement | 14. Handhold         | 15. Outlet                    |
| 16. Negative ion equipment      | 17. Wire hook        | 18. Power wire                |

#### NOTICE

- 1). There are maybe some catalysis smells when you use this product first time. The smell will disappear after a period of running.
- 2). The photocatalysis device can remove bacterias or virus and prevent disease from spreading. Some of irritative smells (such as smoke or garbage smell) can be decomposed by this product, but this product can not remove some gases (such as carbon monoxide).
- 3). Do not push photocatalysis mesh, because lamps inside are easily broken.
- 4). Do not remove photocatalysis mesh.
- 5). Do not wash photocatalysis mesh in water.
- 6). Do not stare at photocatalysis lamp for a long time for fear of injuring eyes.

#### 2. Function display panel



- 1). Sensor of smoke/dust  
The air is intaked here. This sensor detects pollution degree of smoke/dust.
- 2). Smoke content indicator light  
This part detects smoke/dust degree and shows it.

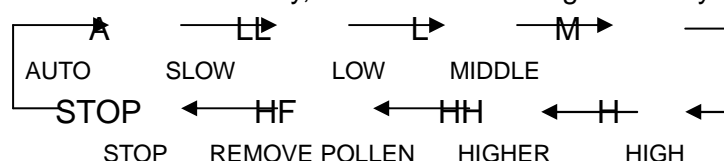
Indicator Light	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Color	Green	Yellow	Orange	Red
Pollution Degree	Low	→		High

- Indicator light on
- Indicator light off

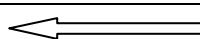
In the following situations, whatever how much pollution the air has, green indicator light will be on in the first 7 seconds.

- A. Start directly after plasma and front panel are set up.
- B. Start directly after power is on.

- 3). Automatism indicator light  
The indicator light will be on when automatism function is used.
- 4). Wind speed indicator light  
The relative indicator light will be on when you select different speed of wind.
- 5). Pollen removal /Strong function indicator light  
The indicator light will be on when you select pollen removal /strong function.
- 6). Photocatalysis indicator light  
The indicator light will be on when you select photocatalysis function.
- 7). Receiver  
Receive singal from remote controller.
- 8). Switch/Stop key  
When you press this botton ordinarily, the mode will change ordinarily as follow□



- 9). Lock indicator light  
The indicator light will be on when you choose lock function.
- 10). Negative ion indicator light  
The indicator light will be on when you use the negative ion equipment.
- 11). Time indicator light  
The indicator light will be on when you set stop time.
- 12). Cleaning reminding indicator light  
Cleaning is necessary when this indicator light is flickering.
- 13). Filter change indicator light  
The indicator light will be on when the filter needs changing. The indicator light will flicker if change time is delayed.
- 14). Reset key  
Please use reset key after changing the filter.
- 15). Sensor of smell  
It can detect content of smell in air.
- 16). Indicator light of smell contents  
The sensor can indentify the change of smell content and display as following:

Indicator Light	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Color	Green Yellow Orange Red
Degree of Smell	High  Low

- Indicator light on
- Indicator light off

- 1). It may responds to suddern change of room temperature/ humidity or gases without smell (carbon monoxide).
- 2). It may not respond when smell contents don't change.
- 3). It will not respond to smell of pet or garlic.
- 4). Different people have different sensitivity to smell. Some people may not feel the smell even if green light is on.
- 5). In the following situations, green light will be on in the first 1 minute and it is the standard value of sensor.
  - A. Start directly after plasma and front panel are set up.
  - B. Start directly after power is on.

## IV. Preparation for Operation

Warnings

**Make sure plug is pulled out during the following operation!**

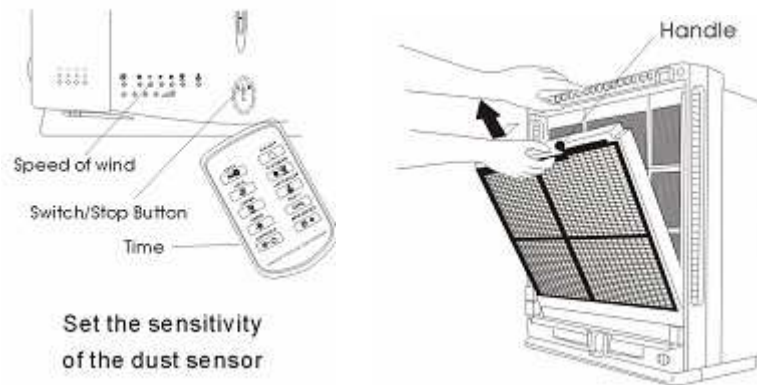
### 1. Remove front panel

Fasten the handhold on the front paneld. Pull and lift it out.

Be careful when you remove the front panel. The backside of the panel is connected with safe switch. Please do not damage it, or this product can not be run.

## 2. Take plasma equipment out.

Hold the two sides of plasma equipment and raise it up  
Lay it on the table carefully.



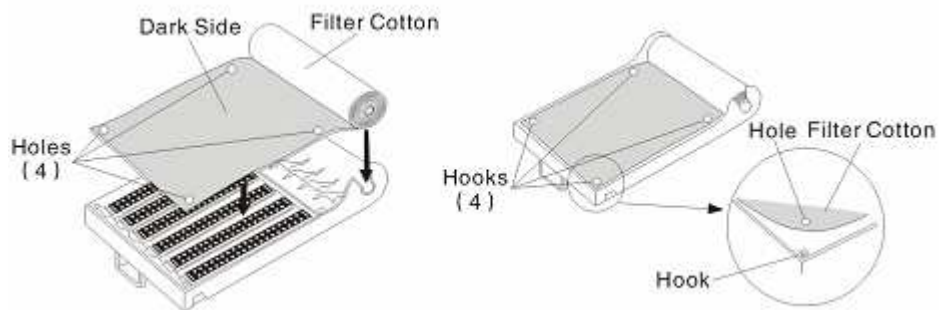
## 3. Install filter cotton

Tear packaging bag of filter cotton, take it out and spread cotton roll. Lay one in the four hooks on plasma frame and make sure dark side is upward. Put rest cotton back to its placement and clip cotton core into brackets.

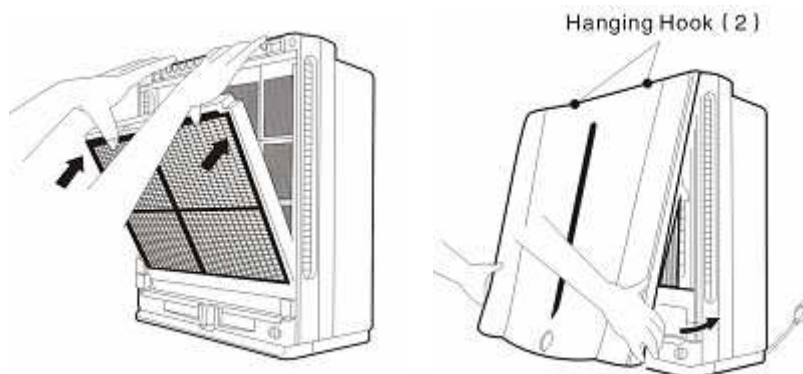
Fasten four holes of filter cotton to four hooks on plasma frame.

Put rest filter cottons back to their placement.

- 1). Put rest filter cotton back.
- 2). Fasten four holes to four hooks on plasma frame.



## 4. Put plasma frame back



## 5. Put front panel back

This product doesn't work before front panel is put back.

## V. Operation

### 1. Preparation of remote controller

#### 1). Preparation of remote controller

The battery is already fastened to the controller. Take it out of transparent film, then put it into the controller.

#### 2). Placement of the controller

You should put the controller back to its placement.

#### 3). The effective function scope of the remote controller

Point the remote controller emitter to the receiver of this product. There should be no object in the way, or the sensitivity of the controller will be reduced. The effective function scope of the remote controller is 6 meters maximum.

#### 4). Change of battery



Pull the battery block out as the picture above. Change the battery with CR2025. Make sure the battery is in "+" direction. Push the block back into the remote controller.

### NOTICE

A. Please change the battery in time if the controller is not effective. Make sure the battery is in the correct type.

B. Please take the battery out if you do not use the controller for a period of time.

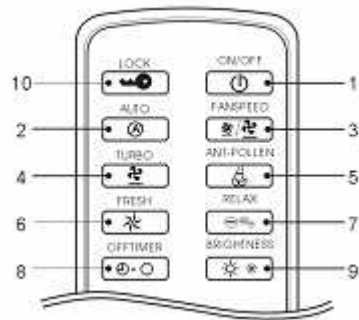
C. The controller won't work if there is any water in it.

D. Do not use any sharp object to press the button in order to protect the controller.

E. The controller may not work effectively if there is some electronic fluorescent light around (such as, ballast fluorescence or other remote control equipments), and you'd better change the position of this product.

F. Please put the battery in a position where the children can not reach.

G. Disposal of waste battery should conform with requirements of environmental protection. Please send waste battery back to special shop or recycle station.



## 2. Operation

- 1). Turn on/off this product  
Press the ON/OFF button to start or stop.
- 2). Automatic change of wind  
This product will change the speed of wind automatically according to air quality if you press the AUTO button.
- 3). Change speed of wind  
You can control the speed of wind by pressing the FANSPEED button. The speed will change from Lower, Low, Middle to High in turn. The lower one is suitable for sleeping.
- 4). Clean the air quickly  
If you press the TURBO button, the strong wind can remove the dust quickly.
- 5). Remove the pollen  
If you press the ANTI-POLLEN button, the speed of wind changes from middle to low every 5 minutes. All pollens can be removed before falling to the ground.
- 6). Turn on the catalytic light  
The catalytic light will work if you press the FRESH button. This product can remove smell, odor and toxic gases in the air.
- 7). Negative ion equipment  
If you press the RELAX button, the negative ion equipment will work and produce lots of negative ion to the air.
- 8). Time setting  
Pressing the OFF TIMER button, the time setting will be changed according to the order of “1 hour/ 2 hours/4 hours/ cancel” in turn.  
And the setting time will be showed on the time setting indicator light.
- 9). Adjust brightness of catalytic light and cleaning reminding indicator light  
The brightness of light will be changed if you press the BRIGHTMESS button
- 10). Lock
  - A. Press LOCK key to prevent children from mis-operating this product.  
You could cancel the lock by the remote controller. If the remote controller is not on site, you also can cancel the lock by unplugging this product. Plug it again and this product can be started.
  - B. Use key on this mainframe to start.  
If the remote controller is not on site, you can use the key of “ Operation Switch/ Stop” on the mainframe to control this product.

## NOTICE

In the first 2 seconds after installing front panel & plasma genetator or connecting plug, this product will not work, even if you press ON/OFF key on the controller.

If some light and electromagnetic wave affect this product or remote controller does not work, pull out the power plug and connect it again , then start this product.

## VI. Maintenance and Cleaning

### Warning

During maintenance, stop operation and pulled out the plug, or it will cause electric shock. Do not use water to clean the mainframe, or it will cause electric shock or damage of the machine.

### 1. Clean the primary filter mesh

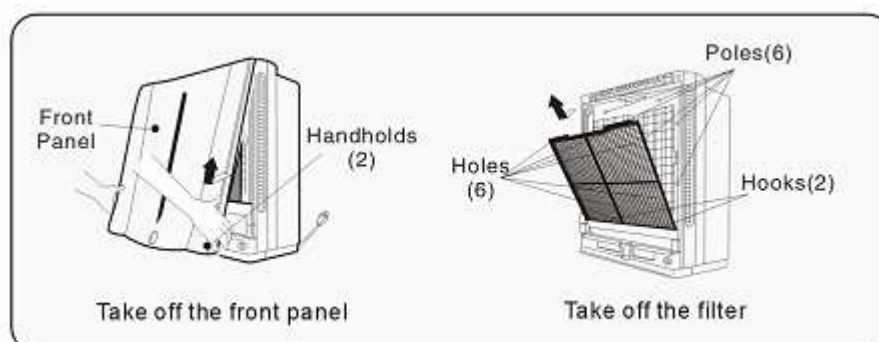
1).Remove the front panel

A. Fasten the handhold on the front panel and pulland lift it.

B. Be careful when you remove the front panel. The panel backside is connected with safe switch. Please do not damage it, or this product can't be run.

2). Remove the primary filter mesh

Remove the filter mesh from the six positioning poles in the plasma equipment.



3). Clean the primary filter mesh

A. Remove the accumulated dust with a vacuum cleaner, then rinse it with water.

B. Brush it with a soft brush or rinse it with neutral detergent, and dry it in the shadow.

C. Neither dry it under sun or clean it with water hotter than 50℃, nor dry it near fire.

Otherwise the primary filter mesh will deform, fade and loose function.

4). Install the primary filter mesh back

Fasten the six holes on the filter cotton to the six hooks in the plasma equipment, then set the filter mesh back.

5). Install the front panel back

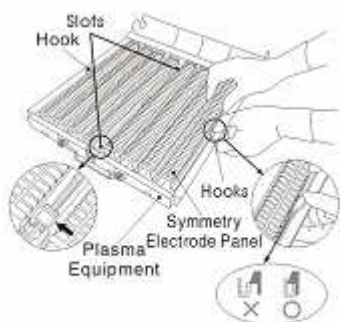
Place two top hooks of the front panel to two slots in the upper side of mainframe. Then push front panel into the mainframe. Make sure two handle buttons are fasten to mainframe enough. Otherwise, this product will not work.

## 2. Change the filter cotton

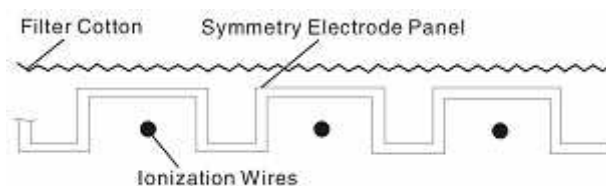
- 1). You should change the filter when the indicator light of filter changing reminding turns on. Remove the front panel and plasma equipment. Follow the instruction above.
- 2). Remove the old filter cotton.
- 3). Take the filter cotton core out
- 4). Pull out a piece of new filter cotton and fasten it to the plasma equipment by following the instruction above.
- 5). Put the rest filter cottons back to the placement.
- 6). Please make sure the dark side is upward, or the function of this product will be weakened.
- 7). Install the plasma equipment frame back to its placement.
- 8). Install the front panel back to its placement.
- 9). Connect the plug.
- 10). Press the "Reset" button on the mainframe function display.  
You can press this button through the hole with with a vimineous bar and cotton changing reminding signal will be cancelled (a sound of "Do" will be heard.)

## 3. Clean the plasma equipment

- 1). Please clean the plasma equipment when the indicator light is on.
- 2). Remove the front panel and plasma equipment by following the instruction above.
- 3). Take the symmetry electrode panel ( double) out.
  - A. Open hooks with fingers and pull the symmetry electrode panel out.



Clean the plasma equipment



- B. It is recommended to wear latex gloves during washing the plasma equipment.
    - C. There are lots of ionization wires in the back of the symmetry electrode panel.  
Do not touch or break them during taking the symmetry electrode panel out.
  - 4). Clean the symmetry electrode panel
    - A. Wash it with clean water or neutal detergent. You can also wipe off the dust by clother or soft brush . Then dry it in the shadow.
    - B. Do not wash the frame of the plasma equipment with water. Please wipe off the dust with dry cloth.

C. Do not use any acidity or alkaline cleanser, otherwise, the symmetry electrode panel will easily rust.

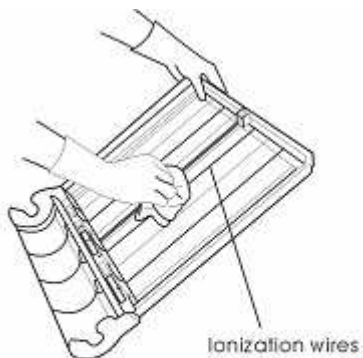
5). Clean the plasma equipment

A. Slightly clean resin around ionization wires and frame with a slight wet cloth.

B. It is recommended to wear latex gloves during washing the plasma equipment.

C. Do not break the ionization wire during your washing. If the ionization wire are broken, you can contact our service center. Otherwise the cleaning reminding indicator light will flicker. Their function will fail.

D. Please dry the plasma equipment thoroughly, or the cleaning reminding indicator light will flicker.



Clean the plasma equipment

6). Install the symmetry electrode panel back to the plasma equipment.

7). Install the filter cotton core back to its placement.

8). Install the plasma equipment back to its placement.

9). Install the front panel back.

Follow the instructions above.

#### 4. Clean the front panel

1). Clean it if necessary. If used in a dreggy place, it should be cleaned more frequently.

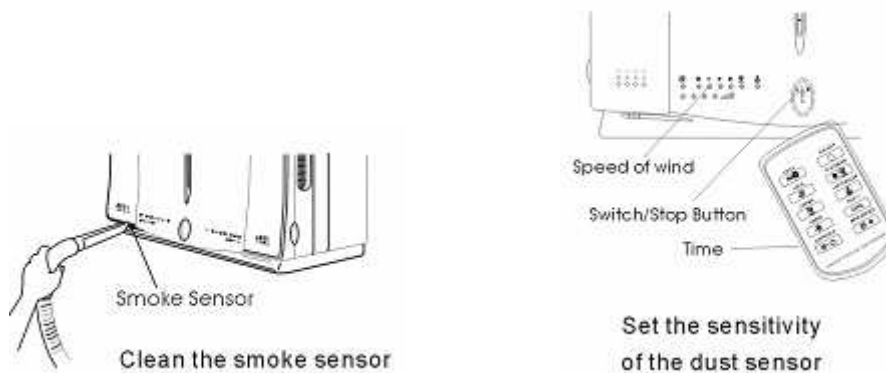
2). Clean the filth with a cloth or a piece of gauze.

3). Use cloth dipped with neutral detergent to clean serious filth.

4). Avoid scratching front panel surface and damaging pointed parts of the back.

#### 5. Clean the dust sensor

Use a vacuum cleaner to remove the dust.



## 6. Set the sensitivity of the dust sensor

The sensitivity of the dust sensor will be influenced by use time and the situation. You can set its sensitivity as follows when it is of no use to move this product or clean the dust on the sensor.

- 1). Press the “Switch/Stop” button for a period of time (about 10 seconds), meanwhile, press the “OFF TIMER” button on the remote controller which should face the machine.

Now, the speed indicator light of wind on function display will be changed from “Lower/Low/Middle/High” and a “Do” will be heard after 5 seconds. Then the smoke/dust sensor indicator light will be on.

- 2). Use the “Switch/Stop” button in frame to change the setting

The speed of wind will be changed by turn as follows when you press the button:

Wind speed indicator light	High	Middle	Low
Sensitivity of Dust sensor	Low	Middle	High
	It is not easily for the indicator light to be on	Setting when it works	It is easily for the indicator light to be on

- 3). Pull out the plug and plug it again after 3 seconds. Then setting is finished.
- 4). This product can not return to its normal operation mode if you do not finish the step above. The setting can not be changed during setting period if you have finished the step above.
- 5). The sensor indicator light will not be off easily if you set the sensitivity to “High”.

## VII. Troubleshooting

Problem	Cause Analysis	Remedy
Can not start.	Power connected or not?	Connect it.
	Front panel well set up or not?	Set it up.
	The battery is valid or not?	Change it.
Poor purifying effect	Poor ventilated condition? Some obstacles around?	Change the installation position or remove the obstacles.

	Too much dust on the filter mesh or HEPA mesh?	Clean the HEPA mesh or change the filter mesh.
	Too much smoke and smell?	Contact service center.
Television signal disturbance	Is there any television, radio or antenna within 2 meters?	Move this product away from them.
	Plasma equipment is not set up exactly?	Set it up.
Breakage or humming during operation	There is dust on the ionization wires?	Clean it.
	Does water get into the negative ion generator?	Check the negative ion generator and dry it.
There is a little smell around outlet	Too much smell comes into being at the same time ? (e.g. many people smoke or make barbecue)	It will disappear gradually after a period of operation.
	Filter mesh or plasma equipment too dirty?	Please check and clean it.
Smoke/dust indicator light does not change	Too much dust on the inlet?	Wipe off the dust with vacuum cleaner. Operate by manual mode. It will normalize half a day late.

## VIII. Accessories

1. Filter cotton roll □ 7 pieces/roll, already inside □ 1 roll
2. CR2025 button battery □ in remoter controller □ 1 pc
3. Product instructions 1 pc
4. Installation hook 1 pc

## IX. Specifications

ITEMS	KJF-450BYB
Rated Voltage	220V~ 50Hz
Product Dimensions	400x576x210mm
Rated Power	75W
Airflow Volume	60- 450 m <sup>3</sup> /h
Coverage Area	45 m <sup>2</sup>
Net Weight	9.0kg