

# AIR PURIFIER Instruction Manual

Model: WDH-616b

**Air purifying expert  
technology is changing the world**

AIR PURIFIER WDH-616b INSTRUCTION MANUAL



**Thanks for purchasing this products, protected by intellectual property rights!  
This product is covered by insurance company, with invention patent, new practical  
licensed technology and design patent.**

**Please read the instruction manual carefully before use.  
Please keep the instruction manual for any future needs.**

# An eco-friendly home avoids viruses



## Environment self-healing

produces "air vitamins"

- It can generate 3,000,000 "air vitamins" every second, improving home environment.

## Anti bacteria

Restrain the breeding and activity of viruses

- The catechol with UV can continuously kill bacteria and restrain the toxicity of viruses.

## Healthy air

- A child needs 400kgs of air everyday, equal to 100 times of an adult, very important for health to improve the air of your environment.

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# CAUTIONS



**Be sure to use a ground socket**

In order to prevent personnel harm or damage, be sure to comply with the requirements provided below.

	<b>Warning</b> Misusing or mishandling may cause death.
	<b>Attention</b> Misusing or mishandling may cause hurt.
	<b>FORBIDDEN</b>
	<b>OBSERVE CAREFULLY</b>



# WARNING

<p>No disassembly, repairing and reconstruction.</p> <p><b>NO DISASSEMBLY</b></p> <p>It may cause fire or damage.</p> <ul style="list-style-type: none"> <li>Please send to the retailer for repairing</li> </ul>	<p>Do plug the power completely into the socket.</p> <p>It may cause fire because of heating or electric shock.</p> <ul style="list-style-type: none"> <li>Do not use the damaged plug or loose socket</li> </ul>	<p>Do not use the aged socket or wiring connector. Do use the rated voltage.</p> <p><b>FORBIDDEN</b></p> <p>It may cause fire</p>
<p>Do clean the plug from time to time.</p> <p>It there is dust, it may weaken the insulation, even cause fire.</p> <ul style="list-style-type: none"> <li>Clean the plug with a dry cloth</li> <li>Please remove the plug from the socket if not using for a long period</li> </ul>	<p>Do not insert any metal objects into the unit.</p> <p><b>FORBIDDEN</b></p> <p>It may cause hurt or electric shock</p>	<p>Do not connect or Disconnect the power with wet hand</p> <p><b>AVOID WET</b></p> <p>It may cause electrical shocking.</p>
<p>Do not repair it when the cord or plug is damaged.</p> <p><b>FORBIDDEN</b></p> <p>It may cause short circuit, electric shock or fire.</p> <ul style="list-style-type: none"> <li>Please send it to retailer for repair.</li> </ul>	<p>Do disconnect the power when cleaning</p> <p><b>DISCONNECT POWER</b></p> <p>Otherwise the unit may start working suddenly, which may cause electric shock or hurt.</p>	<p>Avoid any water on the surface of the unit.</p> <p><b>AVOID WET</b></p> <p>It may cause short circuit or electric shock.</p>



# ATTENTION

<p>Do not in humid or hot surroundings.</p> <p><b>AVOID USING IN HUMID ENVIRONMENTS</b></p> <p>Otherwise it may cause creepage, electric shock or fire.</p>	<p>Do not use in a room with lampblack such as kitchen.</p> <p><b>FORBIDDEN</b></p> <p>It may cause hurt because the machine is not a ventilator</p>
<p>Please ventilate timely when used in a room with fire.</p> <p>Otherwise it may cause carbon monoxide poisoning. Do not use the machine as a ventilator.</p>	<p>Do not turn on the unit when using insecticide in the room</p> <p><b>FORBIDDEN</b></p> <p>Otherwise the insecticide may be stored in the unit and will blow out during the normal working time. It is harmful to the health.</p> <ul style="list-style-type: none"> <li>Please ventilate completely after having used the insecticide before turn on the unit.</li> </ul>
<p>Do not blow in any combustible or lighted cigarette into the unit</p> <p><b>AVOID FIRE</b></p> <p>It may cause fire</p>	<p>Keep away from alcohol, organic impregnant or insecticide</p> <p><b>FORBIDDEN</b></p> <p>It may cause cracking, short circuit, electric shock, hurt or fire</p>
<p>Please hold the plug instead of the cord when unplug the power.</p> <p>Otherwise it may cause short circuit, breaking of the cord, electric shocking or fire.</p>	<p><b>Attention</b></p> <p>Please remove the plug from the socket if conditions as shown below, occur:</p> <ul style="list-style-type: none"> <li>If all switches do not work.</li> <li>If the power cord or plug hot singularly.</li> <li>If any peculiar smell, exceptional noise or vibration.</li> <li>Any other abnormality or failure.</li> </ul>

If the power cord is damaged, please send to the retailer or service center or technician for repair. Do not change or repair it yourself.

# FUNCTION

## Purification

**HEPA:** Inhaled pollen, smoke and some inhaled particles are easy to cause allergies, respiratory disease and asthma. The HEPA filter could filter out particles at min. 0.3microns with an efficiency more than 99.9%

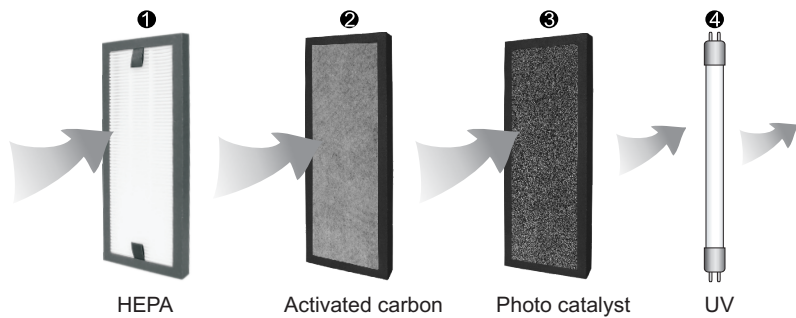
**Activated carbon:** Formaldehyde is colorless gas with a strong irritating smell which is widely used in architecture and it is cancer-causing. Activated carbon filters could purify formaldehyde at a rate of 87%, and benzene at a rate of 69.9%.

**Photo catalyst:** It is highly effective to decompose the harmful & toxic gas in air and kill the viruses in air. The sterilization rate and purification rate of TVOC are up to 97.6% and 95.3.% respectively.

**UV lamp:** Air is the main media for the spreading of influenza. Air purification is an effective method to influenza prevention. With UV sterilization technology, the rate of sterilization of natural germs is up to 97.6%

**Ion:** Negative ion is praised as "Air vitamin" in Medical Field. It improves human metabolism immunity if you live in high negative ion environment. 3 million negative ions will be generated per second to form an ion group.

## Diagram of filters and UV lamp



## Diagram of ion generator



## Technical innovation and application for purification

**UV lamp:** Combing with the filter characteristics and the physical characters of the UV sterilization, we realize high effectivity virus elimination in the fast flowing air.

**Photo catalyst filter:** Adopt Nano TiO<sub>2</sub> material which has a strong oxidation effect to destroy the cell membrane, freeze the virus protein and inhibit the activity of the virus captured by the filter screen. Solidification virus proteins, inhibit viral activity.

**HEPA filter:** Applying the latest electrostatics glass fibre, it captures particles which are smaller than cell.

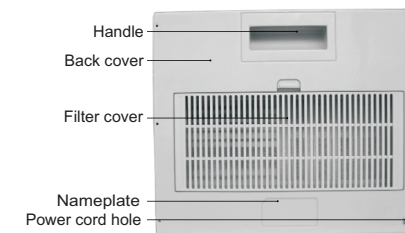
**Activated carbon:** Biosynthesized from walnut shell, the adsorption area of activated carbon is high

# INSTRUCTION

## Diagram of the outlook



Front view



Back view

# CAUTIONS BEFORE USE

## The working environment

Keep the unit 30cm or more from the wall or furniture.  
Keep the unit 1 meter or more from the TV or computer.

## Installation of the filters

- (1) Take off the cover of filter on the back panel.
- (2) Take out the HEPA, activated carbon and photo catalyst filter, tear off the protective bag and install it.



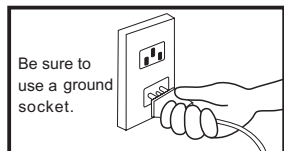
Take off filter cover



Install HEPA, activated carbon and photo catalyst

## Power setting

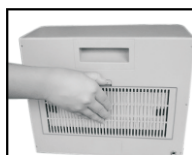
Please do not connect to the wrong rated power supply, insert the plug firmly into the power socket.



## Disassembly and installation of the cover

### Diagram of disassembly:

Press the place of button on the filter cover through thumb or first finger, then open the cover.



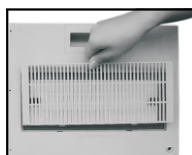
Press place of button



Disassembly cover of filter

### Diagram of installation:

Please set the two fixing points of the filter bottom into the fixing slot of unit, then close the filter cover. Installation is finished when you hear the clear voice "KA".



Set fixing place into fixing slot

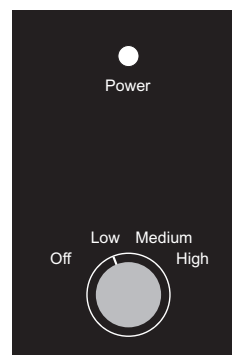
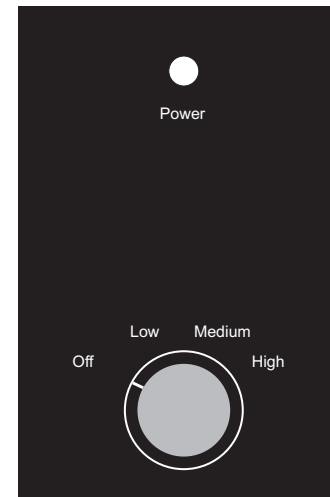


close filter cover

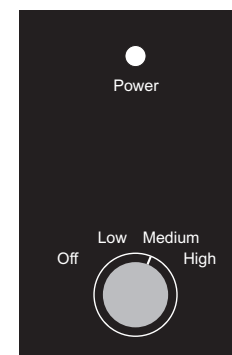
# OPERATING INSTRUCTION

## Function setting

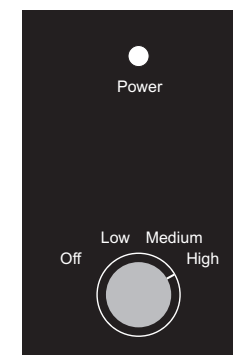
- (1). The unit will start to work while turn the rotary button to right side, the power LED will light. There are three fan speeds available, high, medium and low.
- (2). HEPA, activated carbon, photo catalyst, UV lamp and ion are normal functions. Once the unit is turned on, all these functions are working.



Low



Medium



High

# MAINTENANCE AND CLEANING INSTRUCTION

## Maintenance and cleaning instruction



Please remove the plug from the socket before cleaning and maintenance.

- Do not clean the unit with water.
- If you are cleaning with scour, please dilute the scour before use.
- Do not clean the unit with the solvent listed on the right which may cause distortion or depigmentation.
- if clean with chemical solvent, please read its cautions carefully before use.



## Cautions for the replacement of the UV lamp

### • Warning

(1) Please turn off power before replacement of filters and UV lamp, otherwise UV damages eyes or skin when it is working.

### • Diagram of disassembly

- (1) Take off back panel, take out HEPA, activated carbon and photo catalyst filter.
- (2) use forefinger and thumb hold the UV lamp, rotate for 90 clockwise or anticlockwise, then take it out.



Take off cover and filter



disassembly UV lamp

### • Diagram of installation

- (1) Use forefinger and thumb hold the UV lamp, and then put it into UV lamp bracket rotate for 90 clockwise or anticlockwise, installation finished.



Install UV lamp



Installation finished

# F A Q

Please kindly check as below before you send out for repair.

Abnormality	Inspection items
Does not work	<ul style="list-style-type: none"> <li>• Check if the plug has disconnected from the socket.                             <ul style="list-style-type: none"> <li>➔ Connect the power again.</li> </ul> </li> <li>• Check if the front panel is installed completely.                             <ul style="list-style-type: none"> <li>➔ Recover the front panel carefully.</li> </ul> </li> </ul>
Continuously working and can not stop. The LED is in red all the time	<ul style="list-style-type: none"> <li>• It maybe because of IC interference.                             <ul style="list-style-type: none"> <li>➔ Unplug the power and restart the unit after 15 minutes later.</li> </ul> </li> </ul>
The dirt in the air is not removed and it is noisy	<ul style="list-style-type: none"> <li>• HEPA filter is dirty.                             <ul style="list-style-type: none"> <li>➔ Clean the HEPA filter or replace with a new one.</li> </ul> </li> </ul>

If the problem still exist after the above inspection, please disconnect the power and send for repair.

## TECHNICAL PARAMETERS

### Technical parameters of the unit

Description	Air Purifier		
Model No.:	WDH-616b		
Fan speed	Low	Medium	High
Air flow volume	100	140	180
Noise level(db)	25	32	38
Power rating(W)	18		
Ions	3X10 <sup>6</sup> Ions/cm <sup>3</sup>		
Length of power cord	≥ 1.8 m		
Product size	L303*W133*H245(mm)		
Net weight	2.3 KG		
Voltage supply	220V-240V, 50Hz	Applicable area	15m <sup>2</sup>

### Technical parameters of the UV lamp

Description	size	Power rating	Wave length	Life time
UV lamp	T5	6W	254nm	6000 hours

### Technical parameters of the HEPA

Description	Size	Purification rate	Mini size of purification	Life time
HEPA	L245xW102xH25 (mm)	≥ 99.9%	≤ 0.0003mm	About 1 year

### Technical parameters of activated carbon and photo catalyst

Description	Size	Raw material	Purification area	Life time
Activated Carbon & Photocatalyst	L245xW106xH6(mm)	Walnut shell	300000m <sup>2</sup>	About 1 year