

SMOKE PURIFY MACHINE

HANDLING INSTRUCTIONS



The picture is for reference only, please refer to the real object

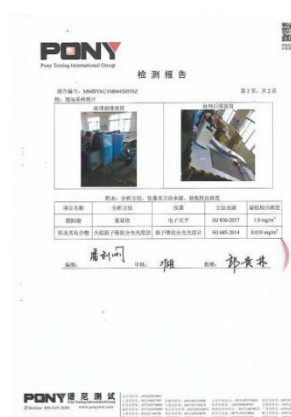
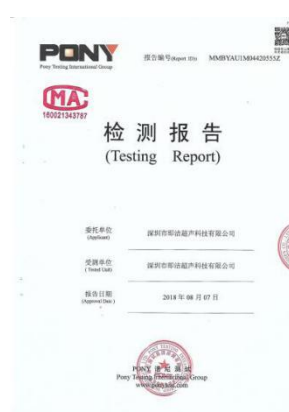
Thank you for buying the smoke purifier, Please read this manual carefully before use and keep it for future reference.

Thank you for purchasing the company's products

Before using this product, make sure you purchase the product type, product type identification plate in the fuselage side, as shown below:

Product description

The purification effect of our company has been tested and confirmed by PONY International professional testing agency, and has been selected as one of the top ten brands of smoke purifiers in China, and rated as A five-A-level enterprise of quality, service and integrity. Relevant certificates of the enterprise are as follows:



This product is suitable for places involved in air pollution like smoke, peculiar smell dust, poisonous and harmful gas, during the process of soldering, laser marking & carving, printing, and medical care, etc. With the triple-filter design and powerful suction, the absorbing efficiency and filtration ratio can reach 99.47%. The purified air can be discharged directly indoors.

Unpacking inspection

Please check the following attachments carefully for missing or damaged. If you find missing or damaged, please contact customer service or distributor.

Part name	Qty	Specification	Remark
Motor	1 set		
Power line	1 piece	1. 5M10A/250V	
Smoke absorbing pipe	1 piece	Bamboo smoking pipe/supporting arm smoking pipe	Duplex are complete with two smokel absorbing pipes
External exhaust pipe	1pcs	Round cover/square cover	Duplex are complete with two smokel absorbing pipes
Warranty card	1 sheet	Warranty for three years	After sale, the name of user who had placed and order should be filled in
Operation Manual	1 copy		
Remole control	1pcs	Only for Diaital display maching	

Filter element selection scheme

Primary filter cotton	5 piece	365*175*10mm	One of the five pieces is instaled in he main unit
Medium effectitering care	1 set	365*175*55mm	Being installed in nighty-effect
Medium effect filtering core	1 set	385*195*250mm	Main-effect filtering core is included the high-efficient

Pre-use inspection

Before first use, please check following issues for safety and reliability purposes:

1. Whether appearance is intact;
2. Whether power supply is switched off;
3. Whether filter element is evenly placed;
4. Whether the cover and box body is installed securely;
5. Whether the speed-regulating button is adjusted to "OFF" Status;

Security overview

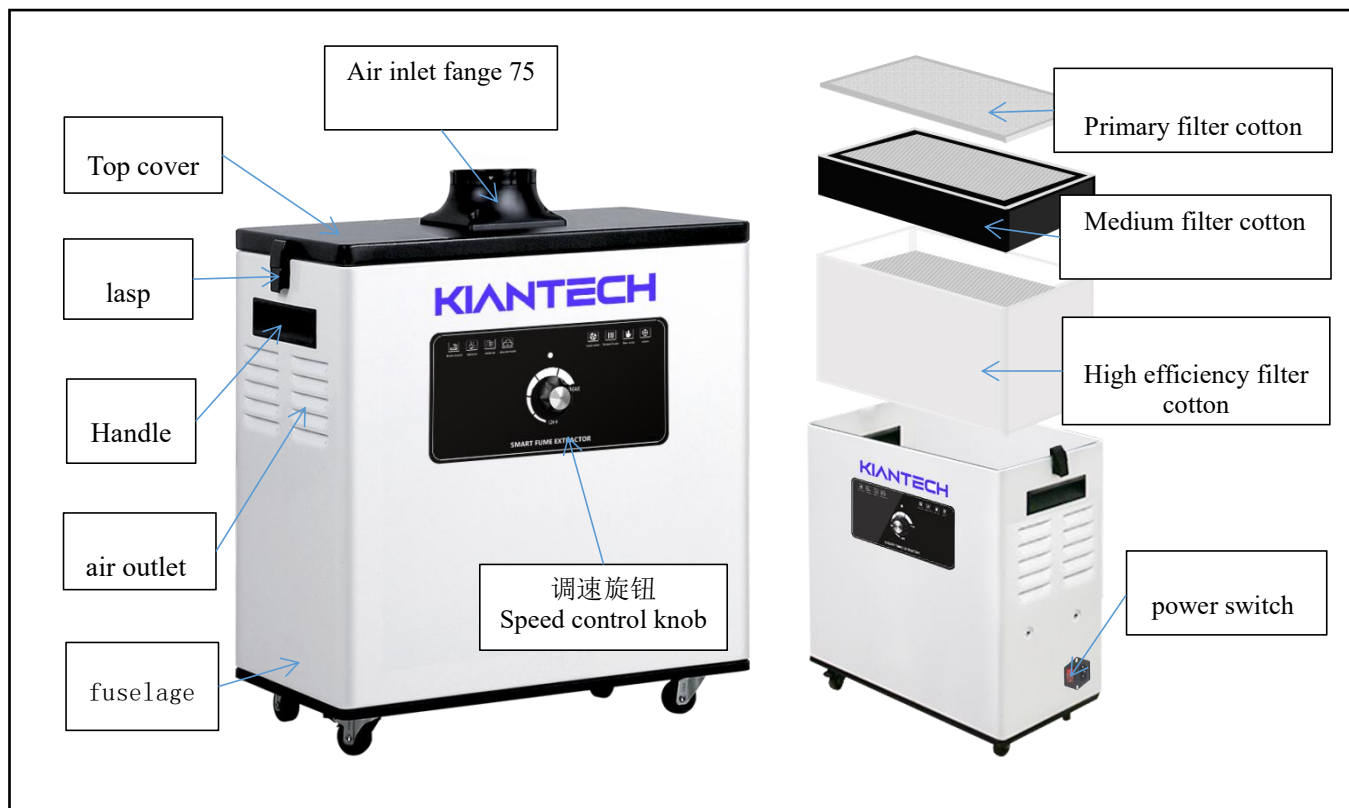
Before use, please carefully check the safety precautions as below to prevent fire and personal injury.

1. Use in high temperature (ambient temperature exceeding 80C), flammable and explosive areas. or areas full of liquids or oil contaminations is prohibited.
2. Supply wire must be grounded during operation.
3. Internal electric voltage of the product is as high as 310V. Disassembly of the product for inspection or maintenance must be performed by professionals.
4. Do not pick and place filter elements when products are in operation.
5. Hands or other objects should not touch the rotating impeller.

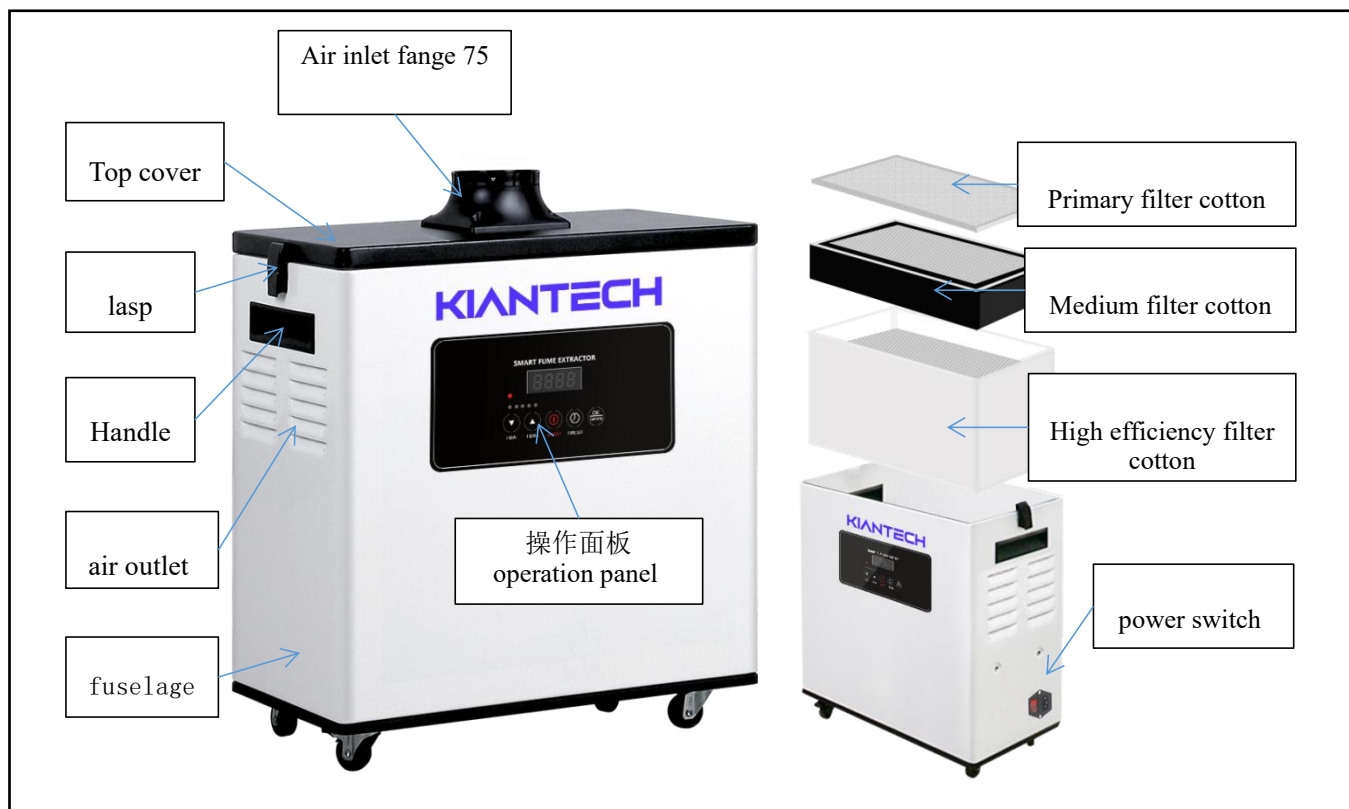
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structure and dimensions

(Knob machine structure)



1.2 Digital machine structure and dimensions)



Performance index

parameter \ Model	Simplex bit	Double location
joint	Φ 75mm	Φ 75mm*2
Voltage	AC220V/110V	AC220V/110V
Power	20W-200W	20W-200W
wind speed	22m/s	2×13 m/s
Filtration	0.3 μ m 99.97%	0.3 μ m 99.97%
Noise	<50dB	<55dB
Smoking pipes (including joints)	Φ 75mm*L1.4M	Φ 75mm*L1.4M
Air volume	235m ³ /h	320m ³ /h
Size(mm)	L430×W240×H420	L430×W240×H420
Weight (excluding piping)	18kg	20kg

1. The length of smoking pipe can be customized according to customers' requirements
2. Outlet flange can be customized according to customer requirements

Product features

Appearance and construction

◆The appearance is simple and elegant, stable and elegant. Body integrated design, metal frame structure, high quality cold rolled steel plate electrostatic spraying process, durable.

The top of the unique bending handle, feel delicate, stable and reliable, easy to handle.

◆Humanized installation with remote control, you can adjust the air volume and suction size. Small volume, no installation, conducive to clean and beautiful work space, easy to move.

2、The fan

◆BRUSHless DC motor is adopted, with built-in controller to ensure performance and quality.

◆Stable operation and long working hours. No regular maintenance, lower cost.

◆The wind wheel adopts eddy current backward design with special alloy material to effectively prevent the wind wheel from being corroded. Unique dynamic balance correction technology, so that the wind wheel running more stable and reliable. High air volume, high suction, higher filtration rate.

Filtering system

◆Adopt three-layer filtration design.Layer upon layer filtration ensures that harmful fumes are filtered more thoroughly.The purification rate can reach 99.97%.

◆◆ Modular design, layer upon layer protection. Primary, medium and high efficiency can be replaced separately, the filter element has longer service life and lower replacement cost.

◆The unique internal sealing structure, coupled with special sealing materials, enables all harmful substances to pass through the filtration system, with higher filtration efficiency.

◆Built-in circulating active filtering method avoids discharging indoor air/heat out of the room and does not damage the temperature and humidity environment of the operating area.

Smoke collecting device

◆The machine is equipped with a universal smoking arm, which can be changed and positioned at will

(the length can be customized according to customer requirements). The end is equipped with a new type of smoke collecting hood with unique shape and higher smoking efficiency.

◆ Simple installation, easy to use, no need to lay additional pipe.

Safety certification and design standards, national patents

◆ It is safe and reliable according with CE, Spectrometer test report and medical device business record.

◆ GB21551.1-2008、GB/T 18801。

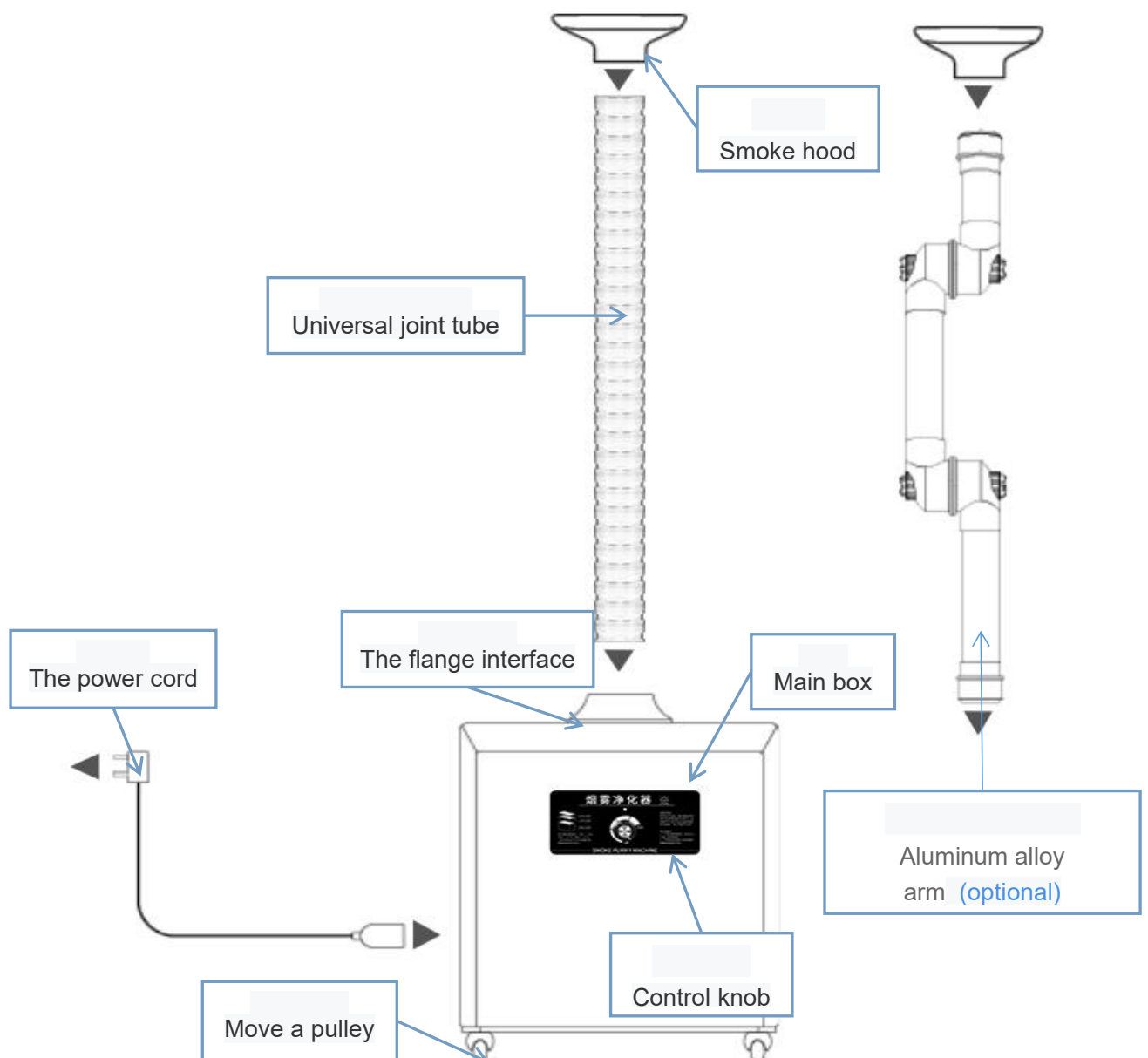
◆ Design standards: Indoor Air Quality Standards, GB21551.1-2008, GB/T 18801.

◆ Obtained the national design patent and the complete machine structure utility model patent, counterfeiting shall be prosecuted!

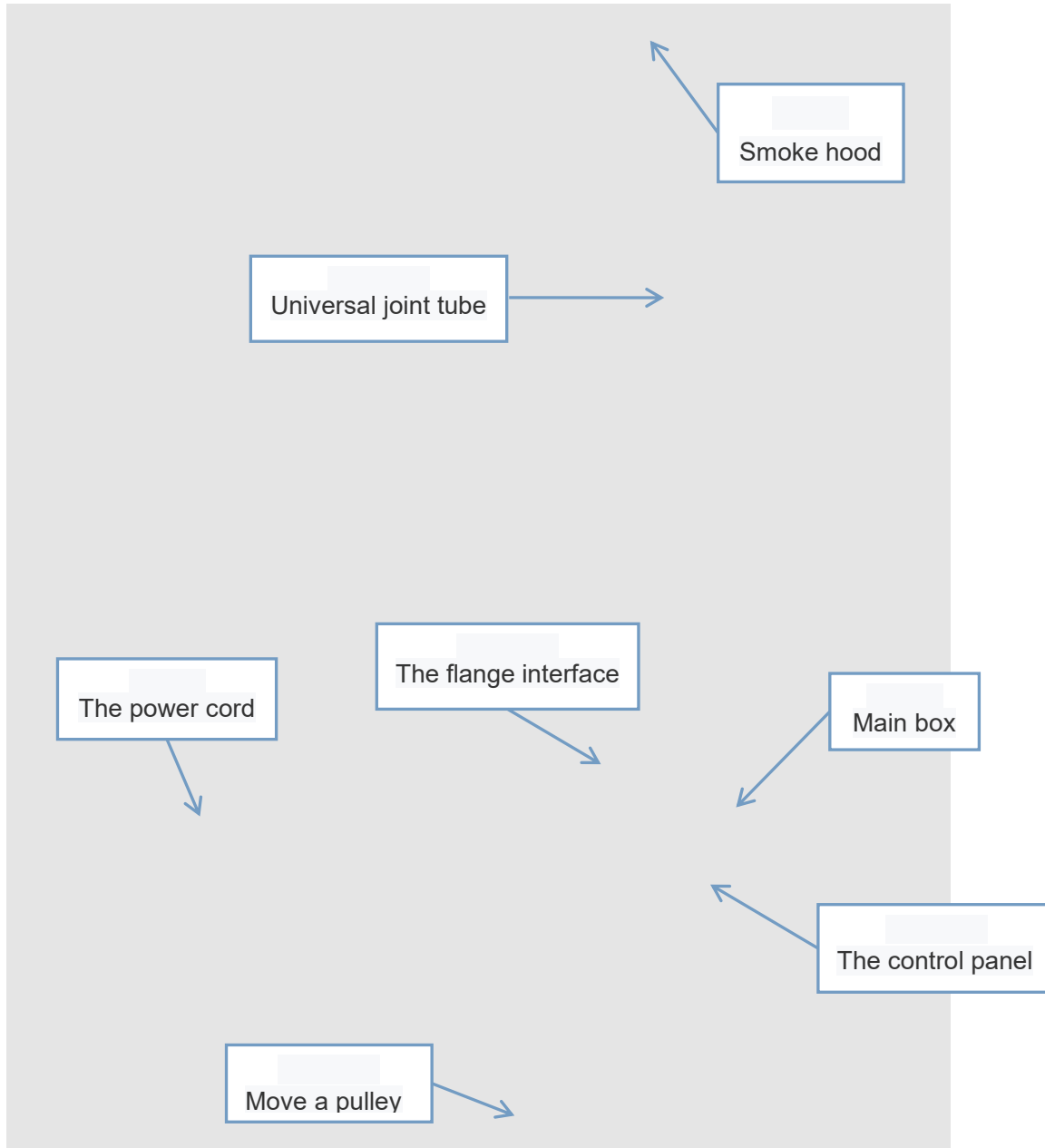
How the machine works

The purification equipment adopts physical active purification and filtration. Pollutants are inhaled by eddy current centrifugal fan. After purification by multi-layer filtration unit, clean air is directly discharged in the room.

Mechanical knobs



4.2、 Digital remote control



Operation instructions

5.1 (Smoking pipe assembly)

The packing case of accessories includes the following parts: bamboo joint tube (aluminum alloy support arm, etc.), smoking cover

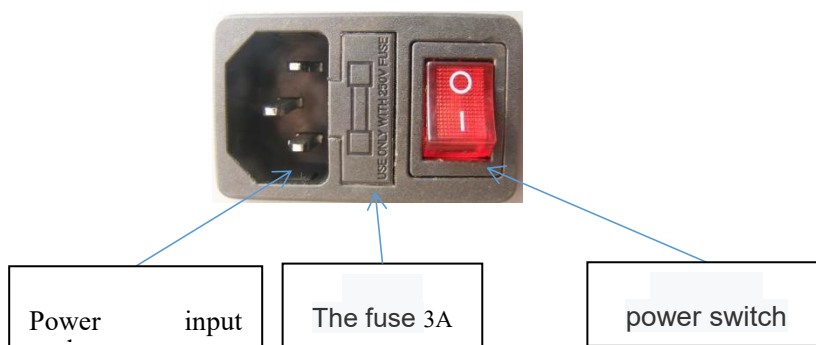
★The knuckle pipe or knuckle arm should be forced into the flange of the lid. The sound of "click" means the connection is firm.

b. Remove the purifier and place it on a flat floor or table (the caster brake should be locked on the machine with casters) to avoid vibration.

c. Insert the bamboo joint tube or joint arm into the flange hole of the cover on the machine; Turn the tube body and point the smoke hood at the smoke producing point.

5.2 (Startup work)

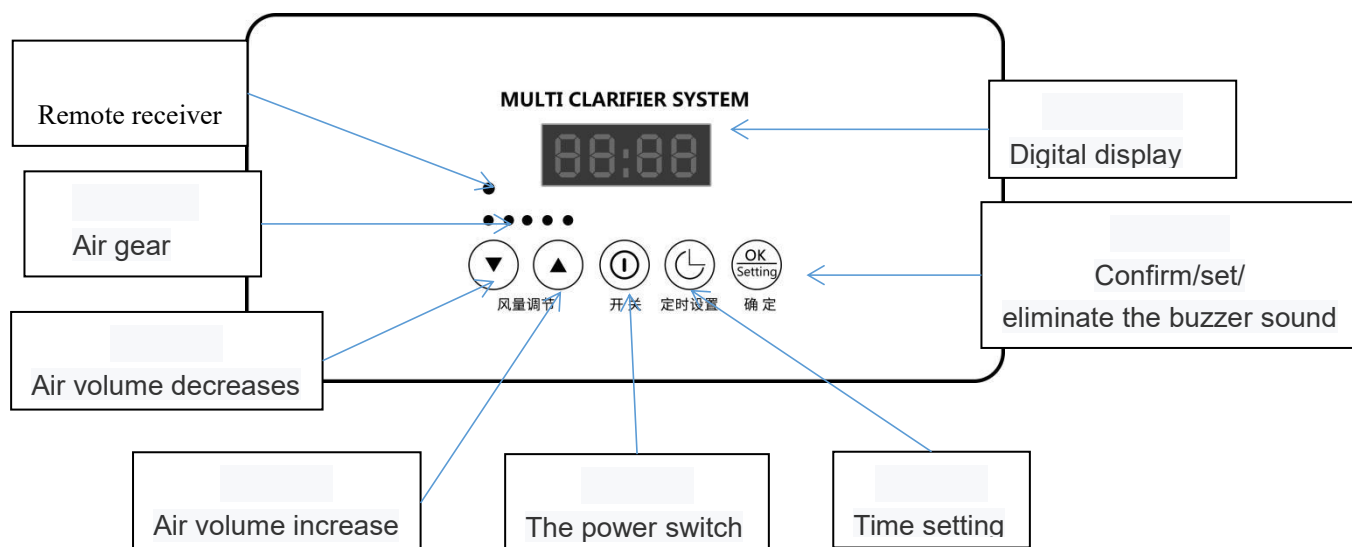
a. Plug the power cord into the three-in-one socket on the back of the device and insert the other end into the power socket (AC220V 50Hz). Press the red switch, if the red light is on, the power is normal.



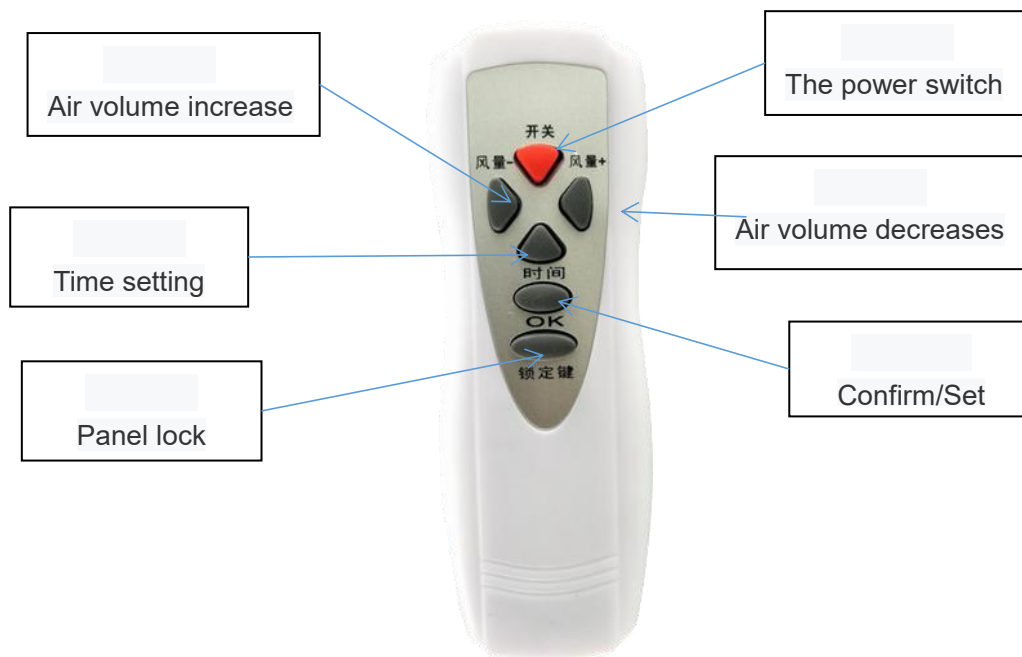
It is strictly prohibited to cover the air inlet or outlet with objects during the operation of the equipment. Otherwise, it will cause the machine to run at high speed and heat up, burning out the internal motor and circuit control board!

5.3 (Operation interface description) :

Schematic of control panel



Remote control button diagram



★When the equipment is working, the size of the suction force is appropriate to just can smoke inhalation, rather than must be adjusted to the maximum.

The greater the suction, the greater the noise and power consumption, and the lower the filtering effect!

Key function description

A.Power on key)

The whole machine is in standby mode. When the power switch light is on, the control panel is energized and the whole machine starts to operate. When the control panel lights off, the machine stops running. (Note: If the machine needs to be shut down for a long time, please turn off the main power switch or unplug the power cord.)

B.Air volume increase key)

C.Air volume reduction key)

D.Timing shutdown key)

E.set up the key)

chine enters the alarm state and the buzzer sounds, press this key once to cancel the sound of the buzzer. Press this key to inquire the accumulative running time of the machine before alarm.

F. (Panel lock key)

Press this button when the machine is working, and all function keys on the control board of the machine will be locked. After locking, relevant parameters such as air volume and timed shutdown cannot be adjusted. Press this key to unlock, or disconnect the main power supply of the whole machine to restart before it can be removed.

Replacement and maintenance of filter unit

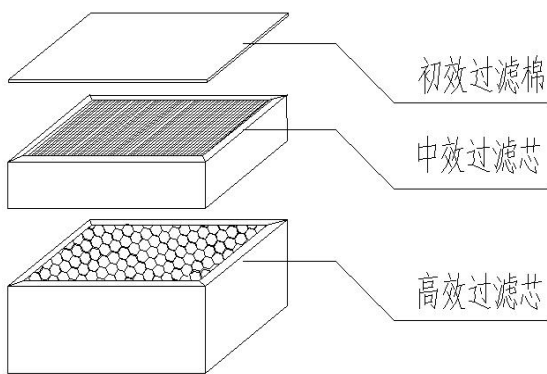
Notes:



Since the purification equipment mainly adopts physical filtration, the filtration unit has rated saturation. When the equipment absorbs pollutants and reaches the rated saturation of the filter element, the filter element will become blocked and lose its purification effect. At this time, a new filter element shall be replaced!

Filter element replacement judgment

When used in the place specified by the equipment, the replacement cycle of each filter element is suggested as follows according to the results of many tests (for reference only) :



The placement order of each layer core shall be subject to the left figure. It is strictly prohibited to replace.

Because of the pollution of each site in the specific replacement cycle with the actual situation.

Under the following circumstances, the filter element is basically deemed to need to be replaced:

- A. The suction of the characteristic equipment for the replacement of the primary filter cotton and the medium filter core is weakened; The filter cotton becomes yellow or black, and many particles and stains accumulate on the surface; Replace periodically according to the working cycle.
- B. Features of efficient filter element replacement: When the suction of the equipment is weakened and the peculiar smell of the exhaust outlet is serious, check whether the primary and medium efficiency filter elements need to be replaced; If the suction is still low after the replacement of primary and medium efficiency, a new hePA filter should be replaced.

7.2

perating steps of filter element replacement

A. Turn off the working equipment, cut off the external power supply, and unplug the smoking pipe device.

B. Pull up the buckles on both sides of the machine and remove the top cover.

Primary filter cotton replacement: directly remove the old cotton, the new cotton flat spread in the medium filter core.

Medium effect filter element replacement: hold the handle on both sides of the old medium effect filter element and slowly pull it out of the high effect filter element. Press the new medium effect filter element into the high effect filter element smoothly and gently, and press hard to the bottom.

★ A handle face up to place

Efficient filter element replacement: according to the above, after taking out the primary filter cotton and the medium filter element, replace them with a new efficient one, and then put the medium and primary filter cotton into them one by one. Grab the two short sides of the efficient filter element and place it gently into the machine as shown on the left.

★ When replacing a new main filter, to indicate the start date.






C. Hang the clasps on both sides and press down on both sides at the same time with your hands to lock the clasps. If you feel the downforce is too high, please press down the cover and pull down the buckle. Do not force down. Insert the smoking pipe, adjust the direction as described above, and then start the machine.

◆ The filter element provided by the original factory must be used, otherwise the company will not be responsible for the machine failure caused thereby!

◆ The smoking arm should be cleaned regularly (usually once every 3 to 6 months, depending on the specific working environment).

◆ When installing and removing the filter element, hold the surrounding frame with both hands, slowly put it in and take it out, and do not use the head or hand to lift the inside of the filter element during handling, so as to avoid deformation or damage of the filter material and affect the filtering effect.

Select accessories and consumable materials

The name	instructions	The picture
Primary filter cotton	It mainly filters out large particulate matter and dander	
Medium effect filter element	Used to filter out fine dust and smoke	
Efficient filter element	Used to filter out peculiar smell, toxic substances and secondary particles	
Slub tube or aluminized	The size, length and direction of the tube can be adjusted (no gold support arm for , up to 1.4m)	
Switch valve	Can be individually controlled, convenient.	

Machine breakdown and maintenance

Due to the high voltage and strong current inside the equipment, please be sure to cut off the power before checking and maintaining the equipment! Non-professional personnel, do not disassemble! So as not to cause a safety incident.

1. Failure phenomenon: the system is still working, the noise is intensified, but the air volume is weak, and the suction force is greatly reduced.

The reason may be:

- (1) the air inlet or outlet is blocked
- (2) the filter element to saturation failure and the formation of blockage

Treatment: Turn off the power supply, open the top cover, and check whether there is any foreign matter blocking the inlet; Check again to see if the outlet is blocked.

If there are no abnormal samples after inspection and treatment, restart the machine. If the air volume is still small, the filter element should be replaced.

2. Failure phenomenon: The machine will shut down automatically after starting, turn on again and repeat the above phenomenon.

The reason may be: the internal air flow is not good, the filter element resistance is too large, leading to the fan starting current is too large, the system will automatically protect shut down.

Treatment: Turn off the power supply, open the top cover, and check whether there is any foreign matter blocking the inlet; If there are no abnormal samples after inspection and treatment, adjust the air volume knob to the minimum, and restart the machine. Then adjust the knob to the appropriate air volume position.

3. Failure phenomenon: the equipment does not work.

The reasons may be as follows: A, the power switch behind the machine is not turned on; B, the fuse of the three-in-one switch is blown out; c, the operation panel is not opened or the knob is not opened clockwise.

Treatment method:

- (1) Check whether the power cord is plugged, whether the red switch on the back is pressed?

If the red light is on the back, the device is energized normally. Open the front switch panel again. If the work indicator is on, the device circuit control is out of order. Please contact the manufacturer for treatment.

(2) if the back red light is not bright, then take out the fuse in the three-in-one switch, see if it is burned out? If the fuse blows, please replace the spare fuse and turn it on again.

If the above inspection and maintenance still can not troubleshoot, please contact the manufacturer or dealer.

Notes for machine use

1. The power input of the machine shall be used within the specified rated voltage range (subject to the power identification on the machine body). It is strictly prohibited to use the machine when the voltage is too high or too low. If you find that the ambient voltage is not stable, please turn off the machine and unplug the device. Use it after the voltage is stable.

2. When using the machine, the ambient temperature range of the gas and dust inhaled by the air inlet is: normal temperature -- 60 C. It is forbidden to use above or below this temperature range.

3. When using the machine, the humidity of the gas and dust inhaled by the air inlet is 40%-80%. Too high humidity will cause the filter element to fail soon and the circuit inside the machine to be damaged.

4. When the machine is equipped with primary filter cotton, it should be installed correctly before use. The primary filter cotton belongs to disposable consumables. It is strictly prohibited to reuse with water. Please replace the primary filter cotton regularly. It is forbidden to use the machine without installing the primary filter cotton or using the inferior primary filter cotton on the market. (The inferior primary filter cotton on the market and the primary filter cotton after washing have poor filtering effect, which will make the intermediate and efficient filter core of the later stage blocked and ineffective quickly, causing you greater losses!)

5. It is strictly prohibited to use the machine without a filter element. The soot or dust particles directly inhaled into the machine will cause damage to the fan and control system. The fault caused by using the machine in the above state needs to be repaired at one's own expense, which will cause you greater loss.

6. It is strictly prohibited to continue using the machine after the filter element and filter cotton are seriously blocked, which will greatly shorten the service life of the machine and even cause damage to the machine. The machine should be cleaned and maintained regularly and the filter element should be replaced regularly. In order to ensure that the machine is in good condition.

7. When the blocking suction of the filter element of your machine becomes smaller or the filter element fails to remove the peculiar smell, it is strictly prohibited to reduce the layers of the filter element of the machine or not put the primary filter cotton or filter element into use. Please replace the filter element and the primary filter cotton.

8. It is strictly prohibited to open the inside of the machine for maintenance. The warranty sticker on the fuselage is the only proof that you enjoy the after-sales service. Please do not tear or damage the warranty sticker on the fuselage

The company shall not be responsible for any loss caused by the above reasons. Not covered by warranty.

Six myths about smoke and dust purifiers

Myth 1: The greater the suction, the better!

The greater the suction, the greater the power consumed and the greater the noise. So suction force according to the use of demand is good enough! Not bigger is better.

Myth 2: The higher the filtration rate, the better!

There is nothing wrong with a high filtration rate. The problem is whether it is necessary to achieve a very high filtration rate according to the use environment. An operating room or a laboratory, for example, requires a high degree of air cleanliness; On the factory floor, there is no need to use the high "filtration rate" of a hospital operating room. The higher the "filter net rate", the more sophisticated the filtration system, the greater the wind resistance, the more the cost will multiply!

Myth 3: The more pipe locations a machine can connect to, the better!

The maximum inlet pressure of the purification plant is constant. The greater the number of connecting stations, the greater the pressure loss and the smaller the simplex suction. So that the smoke can not be completely inhaled into the machine, but directly to the workshop or outdoor. So the number of stations that can be connected to the number of stations depends on the amount of smoke that the stations produce.

Myth 4: The lower the filter replacement frequency, the better!

Under the premise of ensuring suction and filtering effect, of course, the lower the replacement frequency, the better. However, the filter element is rated saturated. If there is more dust in the field, the filter element will fail and saturate faster, which means the replacement frequency will be higher. This is inevitable, depending on the state of the environment. If the filter element is saturated and blocked, but not replaced, it will inevitably lead to reduced suction and incomplete filtration, thus polluting the environment.

Myth 5: The more power, the better!

The more power, the more noise, the more energy, and the higher the price. According to the use of the situation, choose the appropriate power; On the use of autonomous high efficiency, low power motor, although the power is small, suction is not small.

Myth6: The more the better

Industrial purifiers are mainly about the negative pressure (negative pressure, suction force is large) rather than the volume of air. A large amount of air is not necessarily a large suction force.

Warranty Card

Guarantee clause

The warranty (repair for free) of product begin from the purchase date to the warranty end date

1.Goods within the warranty period can only be repaired in the dealer handling bank recognized by our company;Please show me this warranty ticket when making the warranty

2.The electric motor carries a three-year warranty since the date of purchase. (Notice:The filterelement and accessories belongs to consumable material, which is beyond the scope of warranty.)

3.Product under the following circumstances cannot be treated as warranty even if they are under warranty period, we will charge for repairing:

a.Damages causing by wrong ways which are not according to the instructions to the use/ maintenancef custody of the product;

b.Damages caused by incorrect operation/ abnormal power supply! fall;

c..Darnages caused by disassembling the machine without authorization;

d.Cannot prove that the machine is under warranty

e.The information in the warranty card doesn't conform to the product or be altered;

f.Darnages causing by nuclear or chemical corrosion

g.Darnages causing by irresistible factors (lightning earthquake/ flood/fire and other natural disasters)

4. reserves the right for the final explanation of terms of after-sales service.

Warranty Card

Commodity information	Commodity name		Factory number		
	Model		Production date		
Customer information	company namg		Contact person		
	Address		Contact number		
Sales information	Dealer name			Contact person	
	Address			Contact numibe	
	Sales date			Invoice number	
	Warranty period	The electric motor carries a thre-yar warranty			
Maintenance record	Faulty candition	Maintenance results	Customer signature	Repairnan signature	Date

Cut aling the dotted line, this copy should be kept by the dealer

Commodity information	Commodity name		Factory number		
	Model		Production date		
Customer information	单位名称 company namg		Contact person		
	地址 Address		Contact number		
Sales information	Dealer name			Contact person	
	Address			Contact numibe	
	Sales date			Invoice number	
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