



# USER MANUAL



## AEROSOL SUCTION MACHINE

SERIAL NUMBER: \_\_\_\_\_

DATE OF PRODUCTION: \_\_\_\_\_

Thank you for purchasing our aerosol suction machine. Please read this manual carefully before use and please keep it properly for future reference.

## • Product overview

This product is a mobile extra-oral smoke suction machine, which quickly strain the spray, aerosol, bacteria, and other harmful substances during the treatment, by utilizing the high negative pressure produced by a DC motor without a brush.

The first step is using a washable primary cotton filter to filter out the spray effectively, thin blood, scraps, and other large particles during the treatment. The second step is to filter out 99.95% of the smell and aerosol through customized H13 HE PA highly efficient filter and active carbon filter . The last step is through the UVC photo oxygen catalytic sterilization module, which sterilizes and expels it to the outside. Tower-like filters to purify the air. In conclusion, this product can make the air clean and fresh prove the cleanliness of the treatment environment, reduce the rate of viral cross-infection, and thus achieve the goal of preventing being infected.

## • Unpacking inspection

Please check carefully to ensure that the following listed parts are included. If there are any missing or damaged items, please contact the customer service department.

Name of Parts	Qty	Specification	Remarks
Motor	1	DC motor without a brush	Installed
Power Line	1	1.5M 10A/250V	
Duct	1	Φ50mm*1.7M	
Washable pre-filter	2		1 is installed, another for spare
G4 Filter	1		Installed
F7 Filter	1		Installed
H13 Filter	1		Installed
UV light	1	6W	Installed
Negative ion generator	1	L25*W15*H16mm	Installed
Remote Control	1		
User Manual	1		

## • Check before using

Before using the machine for the first time, please ensure that the following conditions exist, to guarantee the safe operation.

1. The machine should be intact;
2. The power switch should be OFF;
3. The filter element(s) should be evenly placed;
4. The cover and box body should be installed securely.

## • Symbols

This manual utilizes certain symbols throughout which represent the following:



**ATTENTION - CAUTION**



**FIRE HAZARD**



**ELECTRICAL HAZAR**

## ▪ Safety Precautions



Before use, please read and follow the below safety precautions to prevent the fire and personal injury.



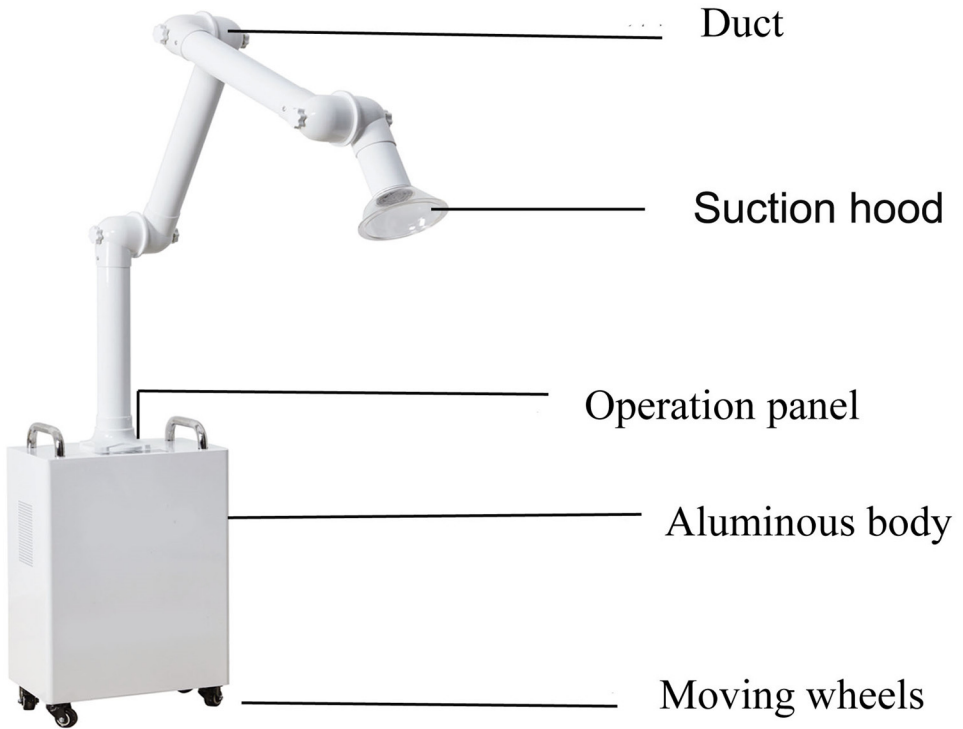
This product is prohibited to be used in a high temperature environment (above 80°C) or in a flammable, explosive or greasy environment.



Supply wire must be grounded during operation.

Internal electric voltage of the product is as high as 310V.

- **Check before using**



- **Specification**

Input Voltage	<input type="checkbox"/> AC110V <input type="checkbox"/> AC220V    50Hz
Power	300W
Rotation Rate	6500r/min
Suction Power	13Kpa
Filtering Efficiency	0.3 $\mu$ m 99.95%
Noise	<60dB
Length of Ducts	1.7M
Flow	4000L/min
Dimensions of Main Unit	L360xW230xH560mm

## • Installation & Use instructions

### 1. Filtering Core Installation

Open the top cover and correctly install the high-efficient filtering core, medium-efficient filtering core, primary-efficient cotton filtering with top cover and press for buckle hasps at the two sides.

### 2. Suction Duct Hose Installation

A. Remove the hose from the package, and attach it to the duct flange on the cover of the machine.

B. Turn the tube, aim exhaust fume collecting hood with the smoke outlet. Adjust the suction distance based on the application.



When adjusting the direction of suction duct hose, try to maintain a broad loop or bend radius of the hose, otherwise it will affect the suction force. The suction inlet shall directly face the working point. Keep the distance within 150mm.



Try to avoid areas with excessive airflow, otherwise suction force will be affected or diminish completely.


### 3. Machine Operating Instructions

Plug in and check if the power plug is properly fit into the socket. Connect the power line and turn on the power switch (Picture 1).

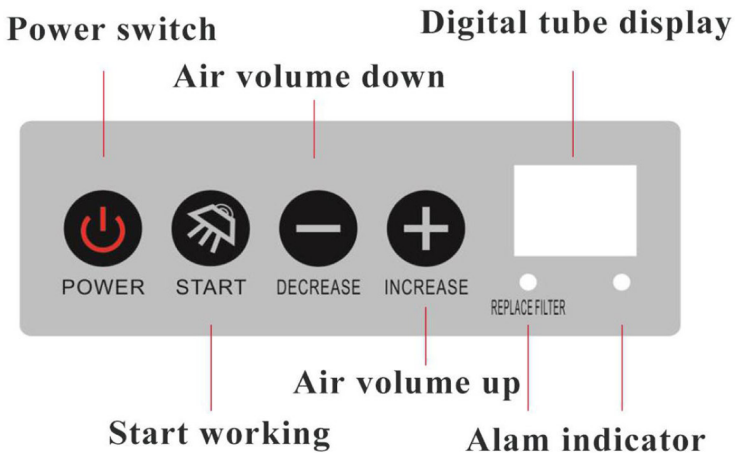


(Picture 1)

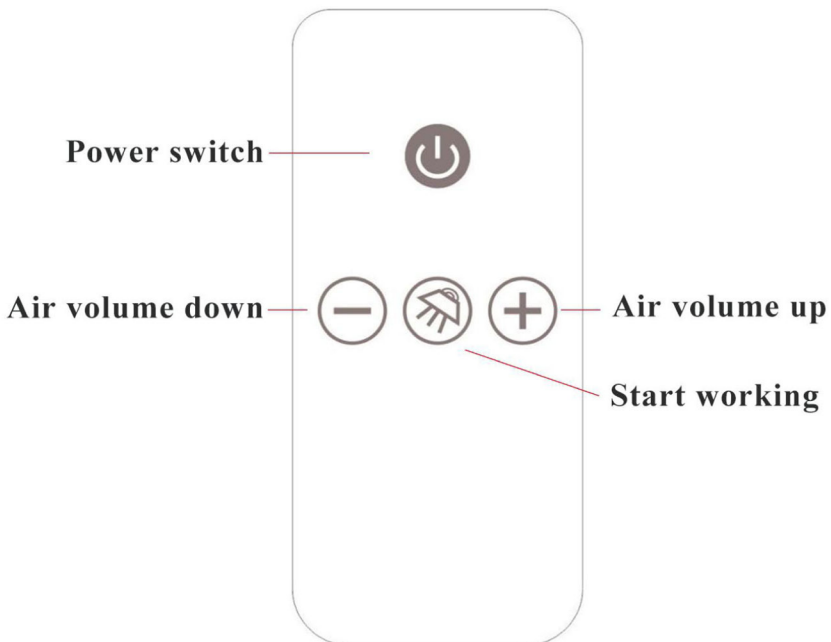
The airflow should be set according to the actual demand. It should not be set too high or too low. Excessive airflow increases the power consumption as well as the noise level.

 **Warning:** The ultraviolet light has great damage to the eyes, please do not look directly.

• **Illustration of Control Panel:**



• **Illustration of Remote Control:**



#### 4. Operator Interface Button Functions

##### Power Switch button

Pressing the power switch button, light's one. It means the machine has already been

electrified.



In the event that the machine takes a long time to shutdown, please turn OFF the power switch button of the machine and pull the power plug.

### **Start Button**

Press the start button, the machine will start working.

### **Air Volume Up Button**

Press this button when the machine is working, the number on digital tube display increases in multiples of 10 (maximum number), which means the machine is working in full speed.

### **Air Volume Down Button**

Press this button when the machine is working, the number on digital display decreases in multiples of 10 (minimum 1).

### **Indicator Light**

If the machine is in alarm status, it means you need to change a new filter.

## **• Troubleshooting**



**Make sure the power is switched off and unplugged before inspecting or repairing the machine!**

**Problem 1: The machine still works, but the air flow is very weak and suction power is greatly reduced.**

**Cause:** Air Inlet is blocked or other objects exists inside the duct. The filter becomes saturated and hence gets blocked and gives an alarm.

**Solution:** Turn off the power and open the door of the machine. Check if there is any other objects blocked in the air inlet. Then check if the air vent is locked or not. If the suction power of the empty-loaded machine is normal, it means the filter needs to be replaced.

**Problem 2: The machine shuts down automatically after it is just started. Even if you restart the machine, the same problem happens again.**

**Cause:** The air flow through the machine is obstructed. As a result, the starting current of the fan becomes very high, hence the machine shuts down automatically for self protection.

**Solution:** Turn off the power and open the top cover. Check if there is any foreign body blocked in the air inlet. Then press the speed-adjusting knob to the lowest level and restart the machine. The machine should start to work normally.

**Problem 3: Power switch is ON, but machine does not work and the power indicator does not light up.**

**Cause:** The fuse might be bad.

**Solution:** Replace a new fuse.

**If the problem remains after these inspections and maintenance, please contact customer service for further help.**

## • Filter Use & Maintenance

This product uses disposable filtering elements. When these elements have been used to a certain extent, they need to be cleaned or replaced in order to guarantee the good purifying effect.

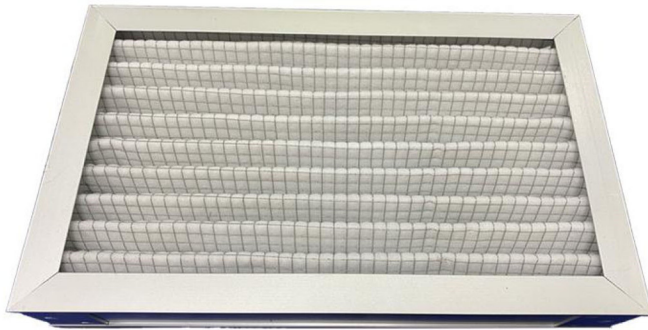
### 1 .Washable pre-filter





Use method: Place the Pre-filter on top of the filter. When the accumulated dust on the Pre-filter is over 70% and cannot be cleaned any more, please replace the Pre-filter with a new one. (1 month usually)

## 2. Middle Filter (G4 & F7)



Use method: With the handle side facing up, put the G4 Filter(second) and F7 filter (third) into the machine. The filter shall be immediately cleaned off when the accumulated dust on it evidently affects the suction power. When it cannot be cleaned any more, please replace the filter with a new one.(3 - 6 months usually)

### 3. Main Filter

Main materials of this filter is fiberglass, which can strain the dust  $\geq 0.3 \mu\text{m}$  at 99.95%.

When these elements have been use to a certain extent, they need to be cleaned or replaced in order to guarantee the good purifying effect of the machine.



Use method: With the handle side facing up, place the filter at the bottom inside the machine. When it cannot effectively strain the air, please replace it with a new one. (12 months usually)

#### • Important Use Consideration

The power source for this machine must fall within the specified nominal voltage scope (subject to the power identification on the machine body).

It is strictly forbidden to use this machine with excessive high or low voltage,if the

\* ambient voltage is unstable,please turn off the machine,unplug the power plug and use it again once the power has stabilized.

While using the machine, the ambient temperature range of the gas and the dust /\ which is sucked into the air inlet should be within the range of atmospheric temperature to a maximum of 60 °C.

Never use the machine when the temperature is higher or lower than this temperature range.

When using the machine, the humidity of the gas and the dust sucked into the air inlet should be between the range of 40%-80%. If the humidity is excessively high, the filter element will become ineffective rapidly and the internal circuit will be damaged. DO NOT use the machine when the humidity is higher than 80%.

If the machine has a primary cotton filter, then this filter must be properly installed before using the machine. The primary cotton filter is considered a disposable consumable item and should be replaced when it becomes clogged. (DO NOT WASH AND REUSE).

Please replace the primary cotton filter with an OEM part regularly. DO NOT turn on the machine without the primary cotton filter or with a poorly performing primary cotton filter.

It's strictly forbidden to use this machine without the filters. Because when smoke or dust particles are inhaled by the machine without going through the filters, it will eventually damage the air blower and the control system. Customers should be blamed for this kind of man-made damages.