

# Fume Extractors

*Model: WK600-K, WK600-D; WK600-K2, WK600-D2*

## Operation Instruction manual

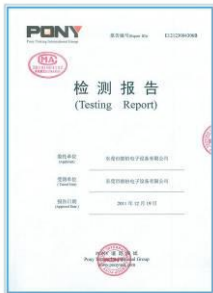


**This picture is just for reference only**

Thank you for purchasing our Fume Extractors. Please read this instruction carefully before using and retain it for future reference.

# Product Overview

Our Fume Extractors have been certified with CE security certificate and the purifying effect has been confirmed by American PONY international professional testing agency with the certificates as below:



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 99.97%. The purified air can be discharged directly indoors.

## Open-package Inspection

Please check if the following accessories are lost or damaged. In case of any lost or damaged parts, please contact our customer service center or dealers.

Name of Parts	Q'ty	Specification	Remarks
Main Unit (Motor)	1		
Power Cord	1	1.5M 10A/250V	
Duct	1 or 2	φ75mm*1.4M	WK600-K2 & WK600-D2 are complete with two ducts.
Nozzle	1 or 2		WK600-K2 & WK600-D2 are complete with two nozzles.
Operation Manual	1		
Pre-filter	5 pcs	QC315	One of the 5 pieces is installed inside the main unit.
Middle Filter	1 set	QP315	Placed inside the Main Filter
Main Filter	1 set		
※Remote Control	1		Only for WK600-D & WK600-D2

## Check Before Using

Before switching on the power for the first time, please ensure the following points, so as to guarantee the safety in operation.

1. the appearance of the machine is not damaged;
2. the power switch is set to OFF position;
3. the filters are properly placed inside the machine;
4. the cover and main body are installed securely;
5. the speed-adjusting knob is set to OFF position.

## Safety Precautions

Before operation, please take note of the following safety precautions in order to avoid fire or personal injuries.



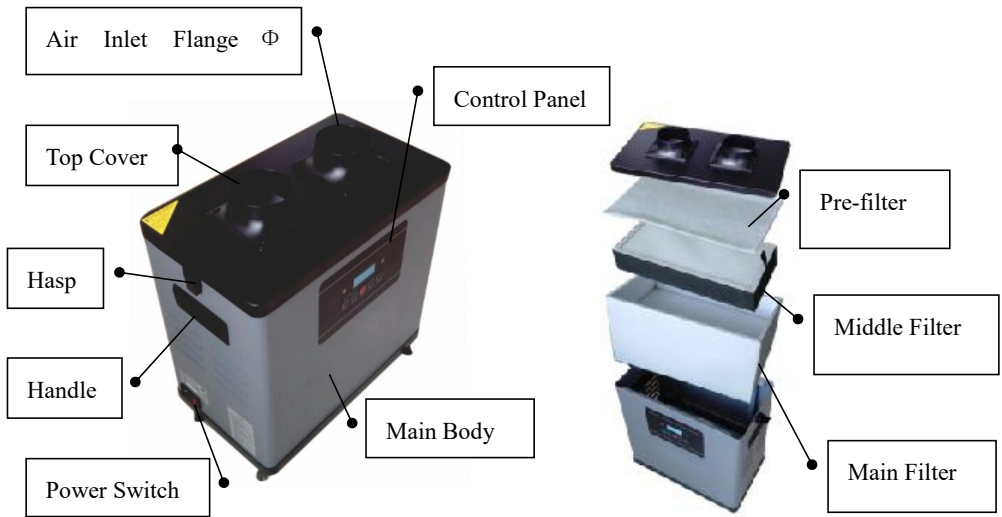
1. This product is prohibited to be used under high temperature environment (above 80°C), inflammable, explosive or greasy environment.
2. The power supply must be grounded while using.
3. The internal high voltage of the product reaches up to 310V. Non-professionals are prohibited to open the machine for checking and maintenance.
4. While the machine is working, the filters shall not be taken out or replaced.
5. Hands and other objects shall not be used to touch the rotating vane.



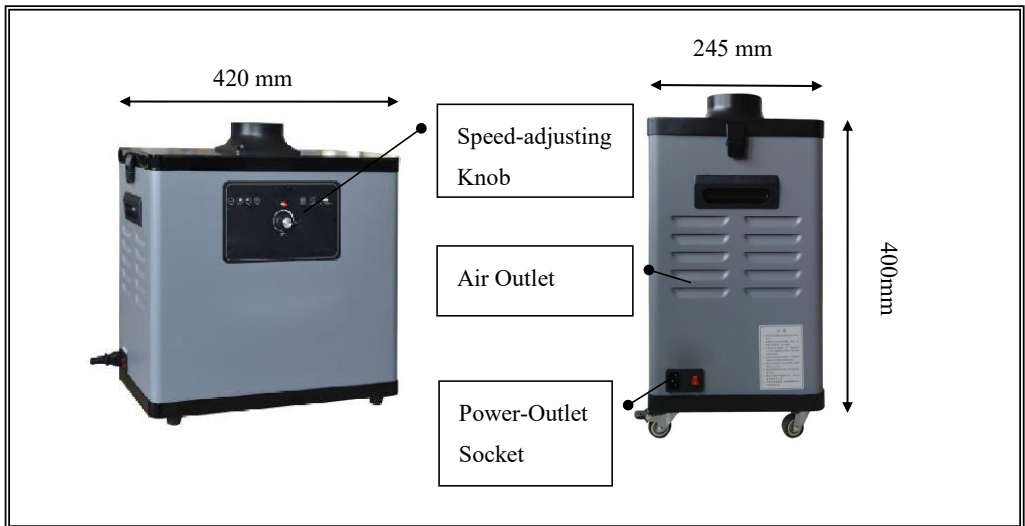
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# 1. Structure and Dimensions



for WK600-D & WK600-D2



for WK600-K & WK600-K2

## 2. Performance and Indicators

Model Parameters	WK600-K WK600-D	WK600-K2 WK600-D2
<b>Air Inlet Interface</b>	<i>φ75mm Flange</i>	<i>φ75mm*2 Flange</i>
<b>Input Voltage</b>	<i>AC220V /110V</i>	<i>AC220V /110V</i>
<b>Maximum Power</b>	<i>80W</i>	<i>200W</i>
<b>Air Velocity</b>	<i>17m/s</i>	<i>2×11 m/s</i>
<b>Filtering Efficiency</b>	<i>0.3μm 99.97%</i>	<i>0.3μm 99.97%</i>
<b>Noise Level</b>	<i>&lt;52dB</i>	<i>&lt;52dB</i>
<b>Length of Duct</b>	<i>1.4M</i>	<i>1.4M</i>
<b>Systemic Flow</b>	<i>235m<sup>3</sup>/h</i>	<i>2×150m<sup>3</sup>/h</i>
<b>Dimensions of Main Unit</b>	<i>L420×W250×H410</i>	<i>L420×W250×H410</i>
<b>Weight (excluding the duct )</b>	<i>14kg</i>	<i>14.5kg</i>

## 3. Using Instruction

### 3.1 Filter Installation Instruction

Open the top cover, and then install in sequence the Main Filter, Middle Filter, Pre-filter and Top Cover. Then buckle hasps at the two sides.

- 1) Install the Main Filter;
- 2) Install the Middle Filter;
- 3) Install the Pre-filter;
- 4) Buckle hasps at the two sides.



1



2



3



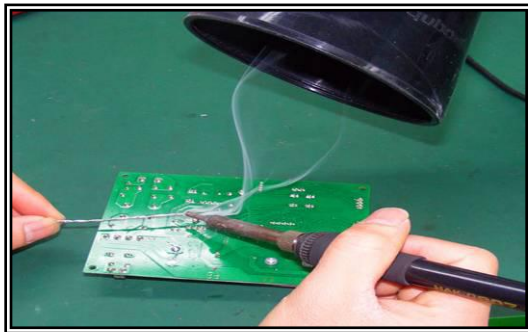
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### 3.2 Duct Installation Instruction

Install the ducts on the flange of top cover as shown in the below pictures:



Rotate the ducts and adjust the nozzle near to the smoke-producing area. Then adjust the smoke-absorbing distance according to different occasions.



◆ Attention: While adjusting the direction of the duct, the duct body shall be kept flat or bent gently. Otherwise, it will affect the suction power. The nozzle shall be facing the working positions. The distance shall be kept within 150mm.

◆ Attention: The machine shall not be used at places with strong air mobility, which will cause the reduction of the suction power.

### 3.3 Operation instruction of WK600-K and WK600-K2

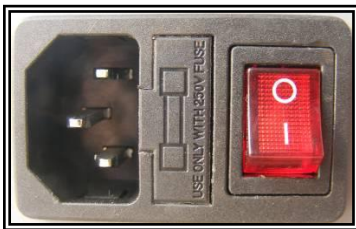
- 1) Plug in and check if the power plug is properly fit into the socket.
- 2) Turn on the power switch (Picture 1).
- 3) Adjust the speed-adjusting knob to start the machine according to different needs on the air flow (Picture 2).

#### ◆ Attention:

Before starting the machine, the speed-adjusting knob shall be adjusted to OFF position.

The air flow shall be set according to the actual demand. It shall not be set too large or too small.

Excessive air flow increases the power consumption as well as the noise level.



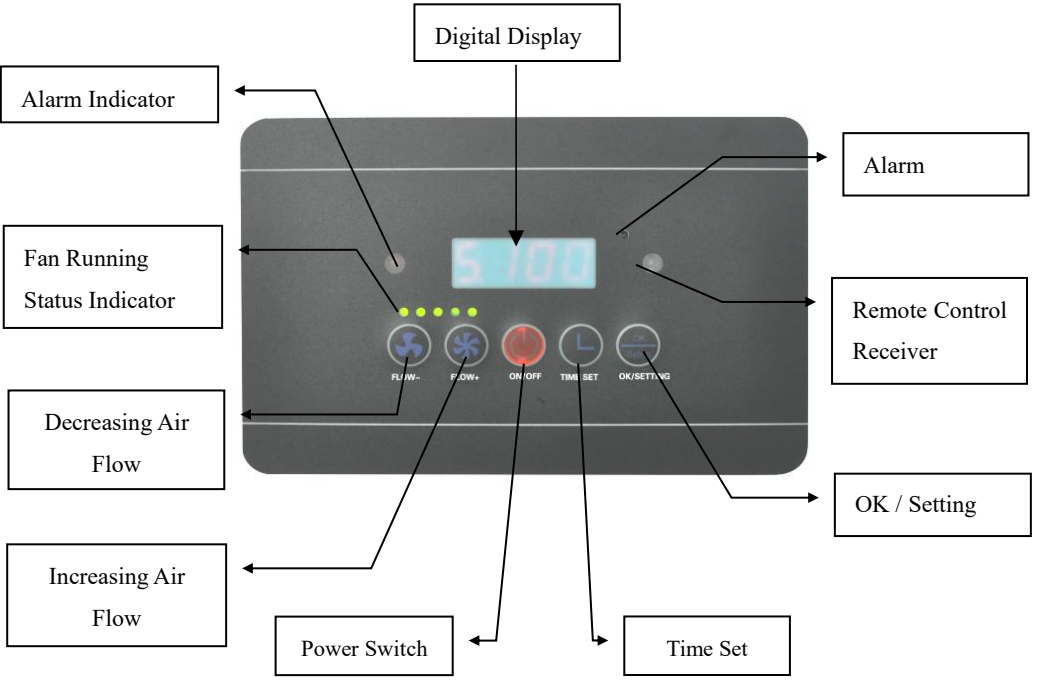
(Picture 1)



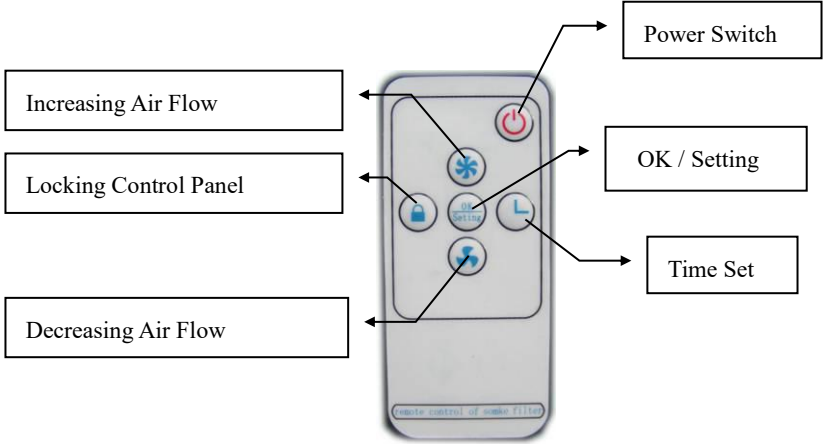
(Picture 2)

### 3.4 Operation instruction of WK600-D and WK600-D2

#### Illustration of Control Panel:



#### Illustration of Remote Control:



## **Illustration on Button Functions**

### **Power Switch**

Press the power switch and the orange light is on. The machine starts to work. Turn off the orange light, the machine will stop running. (Attention: In case of long time shutdown, please turn off the main power switch on the machine and unplug the power plug.)

### **Increasing Air Flow**

While the machine is running and you press this button for one time, the number on the digital display will increase by 10. Under the maximum value of 100, the machine is running at full speed.

### **Decreasing Air Flow**

While the machine is running and you press this button for one time, the number on the digital display will decrease by 10. The minimum value is 10.

### **Time Set (Shutdown Timing)**

While the machine is running and you press this button, the digital display will show HXXX. Then press the Increasing /Decreasing Air Flow buttons to adjust the shutdown timing. XXX represents the set running hours of the machine with the maximum of 300 hours and the minimum of 1 hour. After you complete the setting, press the Time Set button again, the digital display will show the fixed set time: HXXX. For example, H005 represents that the machine will shut down automatically in 5 hours.

### **OK / Setting**

When the machine gives alarm and the buzzer rings, press this button to stop the buzzer. In normal status, by pressing this button you can check the accumulated total running time of the machine.

### **Locking Control Panel**

While the machine is working, you press this button and all the buttons on the control panel of the machine will be locked. It will be unlocked only when you press this button again or restart the machine by turning off the main power switch on the machine.

## 4. Troubleshooting

◆ Attention: Please make sure to turn off the power before checking and 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 foreign body exists inside the duct. The filter becomes saturated and hence gets blocked and gives an alarm.

**Solution:** Turn off the power and open the top cover. Check if there is any foreign body blocked in the air inlet. Then check if the air vent is blocked 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 inside the machine is not smooth. The obstruction of the filter is very strong. 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 turn the speed-adjusting knob to the lowest level and restart the machine.

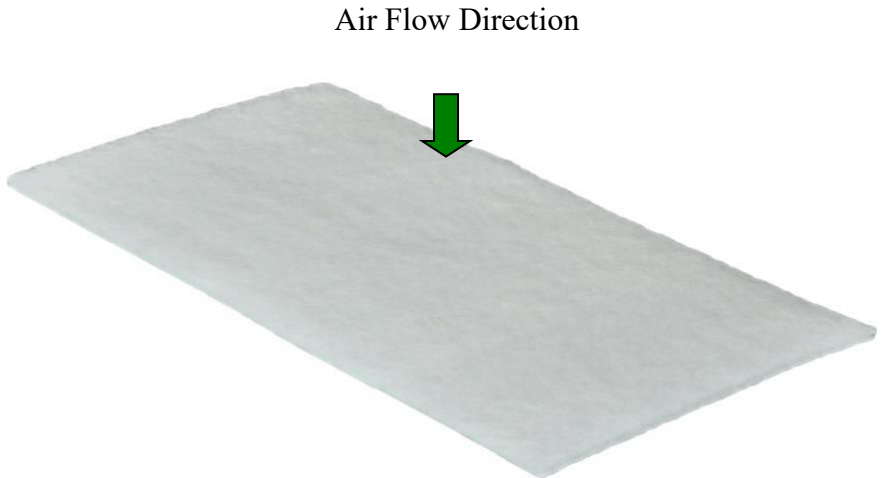
The machine will be back to normal.

**If the above methods still cannot solve the problem, please contact the manufacturer or the dealers.**

## 5. How to use and maintain the filters

This product uses replaceable filtering consumables. When the consumables have been used to a certain extent, they need to be cleaned or replaced, in order to guarantee the good purifying effect of the machine.

### 1) Pre-filter



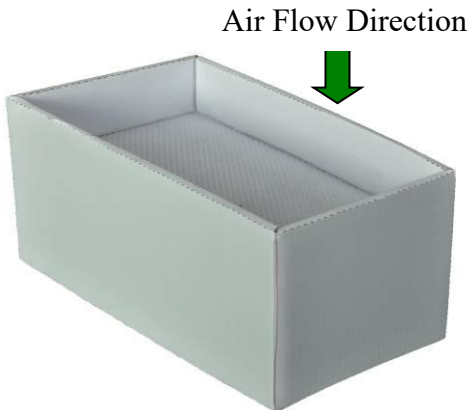
Using method: Place the Pre-filter on top of Middle Filter. The front side (rough side) is facing upwards (air inlet direction). When the accumulated dust on the Pre-filter is over 70% and cannot be cleaned any more, please replace the Pre-filter with a new one.

## 2) Middle Filter











Using method: With the handle side facing up, put the Middle Filter inside the Main Filter. It shall be immediately cleaned off when the accumulated dust on the Middle Filter evidently affects the suction power. When it cannot be cleaned any more, please replace the Middle Filter with a new one.

## 3) Main Filter



Using method: With the handle side facing up, place the Main Filter at the bottom inside the machine. When it cannot effectively eliminate the peculiar smell in the smoke, please replace it with a new one.

## 6. Optional Accessories

Name	Model	Remarks	Pictures
Pre-filter	QC315	Mainly filtering large particles.	
Middle Filter	QP315	PP medium efficiency filter, used for filtering small particles.	
Main Filter		Used for filtering the soldering fume, 0.3um particles, and other harmful gases.	
Winding Duct	50mm	Its dimension, length and direction can be adjusted (Supporting upholder is not needed with the maximum length of 1.5m).	
Corrugated Duct		The maximum prolonged length can 4 times. It can be lengthened and bent freely.	
Bench Top Fixing Mount for Soft & Hard Ducts		Fix it on the working bench top. Soft duct is connected to the machine air inlet. Hard duct is directly inserted onto the fixing mount.	
Rectangular Nozzle		It can achieve good absorbing by reducing the effect of wind blow.	
Slant Nozzle		Suitable for extracting fume from a small concentrated area.	

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