



Machines-3D



Paint Booth

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1. Product overview

1.1 Overview

Dry spray booth is used for surface spraying of small parts. The equipment is composed of cabinet, exhaust fan, filter, pipeline and control switch.

2. Structure and working principle

2.1 Mechanical structure

The cabinet is made of galvanized sheet, the surface of the product is sprayed with powder. 24W lighting is installed on the top of the cabinet, one 1.1KW centrifugal fan is installed in the cabinet, and the exhaust port is equipped with a telescopic exhaust pipe with a diameter of 200mm. It is convenient to move and operate the spray booth. The equipment is installed and shipped as a whole, it can be used after unpacking, no need installation by customer.



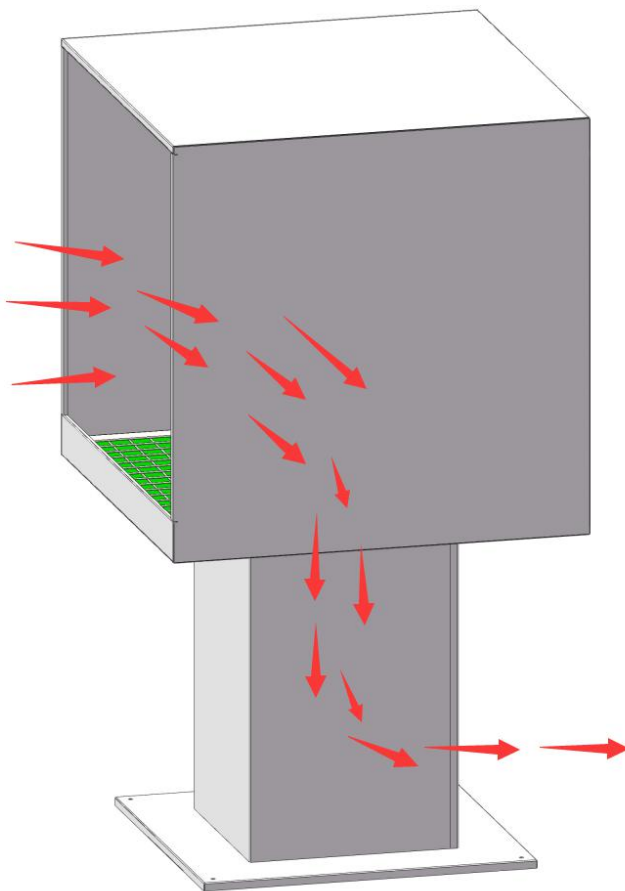
1. Paint box
2. Lighting
3. Control switch
4. Telescopic pipe
5. Filter

2.2 Working principle

2.2.1 Working principle of spray paint cabinet

When the spray booth is working, the task of the paint mist treatment system is to remove the excess paint mist generated during the painting process from the air. The air carries too much paint mist in the spray booth and directly enters the box. The oversprayed paint mist is absorbed on the surface of the filter cotton after passing through the filter. The clean air enters the exhaust channel under the traction of the centrifugal fan and is discharged outdoors.

Painting air flow diagram



3. Technical features

3.1 Main performance and nameplate parameters

Model :E1	Technical parameter
	Paint cabinet
Outside size:	1000*1000*1800mm
Working size:	1000mm*1000*1000mm
Fan power:	1100W
Air flow:	1900m ³ /h
Duct:	Φ 200 Expansion pipe
Light:	one explosion-proof LED lamp is used
Filter:	fiberglass filter and activated carbon cotton
Control:	start, stop , light switch
Surface technology:	powder spraying (white)
Total power(W)	1110W(220V, 50HZ)

4. Instructions for use

4.1 Detailed function



1. Lighting: To control the light, turn the switch clockwise, the light is on, and turn the switch counterclockwise to turn off the light.

2. Fan switch: Turn the switch clockwise to turn on the fan to work, and turn the switch counterclockwise to stop the fan.

5. Failure analysis and elimination

5.1 Failure and troubleshooting table

Malfunction	Cause Analysis	Solution
Fan does not work	1. The power supply is abnormal, no electricity or under voltage. 2. The rotary switch has no response. 3. The air volume of the fan is small.	1. Check whether the incoming line voltage is normal. Troubleshoot. 2. Check whether the switch is damaged, whether the power cord is damaged, and whether the plug fuse is damaged. 3. Check whether the filter cotton is clogged and replace it in time
Air volume of becomes smaller	Filter cotton clogged.	Replace the filter.
Lighting is not working	Lighting is not working.	1. Check the switch status and insurance status. 2. Check if the lamp is burned out.

6. Precautions for operation and maintenance

6.1 Cleaning

The cabinet must be kept clean, and the surface of the spray paint cabinet must be cleaned after each use to ensure that the sides are free of dust and oil. Before each work, it is necessary to conduct a cleaning inspection work and make corresponding treatments.

6.2 Notes

- 1 .The work piece must be cleaned up before painting, and no flammable, explosive and other dangerous goods are allowed to be placed within 3 meters of the painting cabinet.
- 2 .Minimize the number of leaving the spray booth during painting operations.
3. Workers must wear gas masks when painting.
4. Fireworks are strictly prohibited in the painting area.
- 5 .Safety review (human-machine environment) is required before work.
6. When you feel that the exhaust air volume becomes smaller, please replace the filter in time according to actual needs.
7. When the work is completed, the fan and lighting switch must be turned off, and the plug must be unplugged.

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