

INSTALLATION CHART



Guangli Spray booth
Model: GL1



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Description



1. infrared lighting
2. control box
3. cabin
4. generator
5. exhaust duct

Instruction and maintenance will be explained in the following content.

一. **Principles**

Painting/Baking booth comprises mainly painting/baking cabin, generator, infrared lighting, control box and other parts.

When painting, one exhaust fan works, sucking fresh air from top inlet, filtering dust through top air chamber. Filtered air flows down equably from the top to the floor, then to the mouth filter in rear wall ducts, and finally goes out through central chamber. Air flowing semi-down and it keeping positive pressure inside cabin, prevents dust entering.

When baking, one main fan drives air flow. Warm up paint and vehicle for about one minute by auto-controlled infrared lightings, avoiding paint bubbles caused by sudden heat. Then bake places by it which can move in all directions and be adjusted flexibly. GL1 is necessary for body repair plants, suitable for repair of mid & small places, and is mainly used for drying oil, dust, stuff and prime paint, and finish of vehicle bottom and surface.



二. **Spray booth and infrared baking lights technical data:**

Spray booth inner size: 6.9×3.9×2.7(M); lighting: 24 pieces、40w / piece

Exhauster fan: 1set、5.5kw / set,18000m³/set;

Wall panel thickness: 50mm; Filter area: 21 m²。

Baking lights technical data

Input power: 1PH 220V 50HZ rating power: 3KW

Time adjust: pre-heat 0.1-3min dry: 0.1-28min

Work distance:0.5-0.7M work electric current:13A

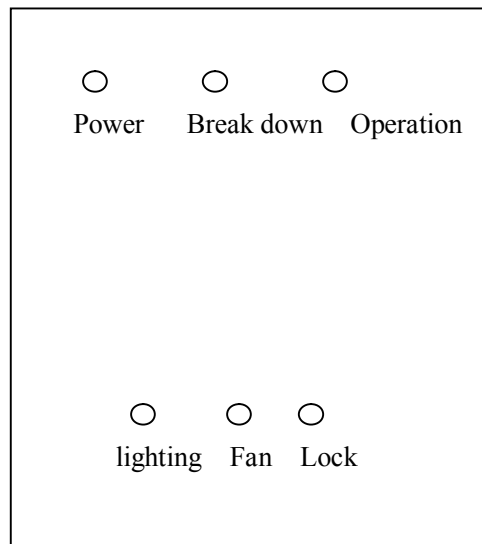
Output temperature:60-80° C

Baking lights drying time (pre-baking 1 minute)

putty 2-3min stuffing 3-6min anti-rust paint 6-10min

primer 4-8 minutes finish 6-10min gloss paint 5-10min

三. **Control panel switch and instruments function**



1. **Lock switch**

Control loop electrify when the lock is open

2. **Fan switch**

The fan indicator is on when the fan switch turns on

3. **Lighting switch**

Lights on when the switch open

4. Power indicator:

Lights illuminate when external power supply is input into the electric control panel.

5. Fan operation indicator:

The indicator on when the fan operate

1. Operation Procedures of the spray booth:

- (1) Clean the inner parts of the spray booth (including wall panel, ceiling filter and floor) and the automobiles ready to be sprayed ;
- (2) Close tightly the doors of the spray booth, turn on fan and the air compressor, turn on the lighting, and blow the booth inside from the top and down with compressed air and the automobile is ready to be sprayed.
- (3) After finishing the above cleaning work, the paint spray is ready to start. If the ambient temperature is below 20°C, turn the ignition switch to the heating spraying position to ensure the temperature in the booth is 20°C in order to ensure the paint has good fluidity.

2. Operation Procedures of baking lights:

- (1) Connect input power with 20A or above power electrical plug, socket and switch. If cable need to be lengthened, should use 4mm² or above rubber cover.
- (2) Adjust needed pre-baking and drying time. Space between lights and products is 0.5M.
- (3) Turn on operation switch, heater works.
- (4) light tray angle adjust, if light tray needs to be up and down, release angle lock knob, and lock tightly after adjusting.

四. Cautions on Using spray booth

1. Keep floor clean. Before spraying, clean the floor with water every time.
2. Before spraying, automobiles should be cleaned out. And remove the dangerous goods, which are inflammable and exposable (expect the gasoline in the gasoline tank) from the automobiles.
3. During spraying, reduce pass in and out of the booth to keep out of the dust.
4. Workers should wear work clothes and change shoes before entering the booth. Smoking is strictly prohibited inside the booth.
5. Expect spray gun and oil carrier, no more paint materials put in the booth.
6. Any mosquitoes in the booth, use mosquito pesticide before spraying

五. booth

3. The floor of the cabin should be clean and every time before spray must be cleaned by water
4. The vehicle should be clean before come into the spray booth and the inflammable and explosive dangerous goods prohibited (except the gas oil box)
5. In order to prevent dust from entering the cabin, please minimize the number out and enter the spray booth
6. The worker must wear the standard clothes and shoes when working in cabin and smoking is must prohibited
7. In addition to baking spray at room and contain the oil outside the browser, should not be more material on the baked paint room 。 In addition to spray gun and the oil browser, should not be more oil material left in cabin..
8. before spray operation , the mosquitoes should be eliminate if necessary

六. Instruction for the spray light

1. Mobile desiccators should work on the ventilation dryer environment; required solvent does not exceed 50%of lower explosion limit
2. Desiccators around 5M or 16 feet shall not have to use or storage solution (Francis) objects
3. The desiccators should not exposed in dust or aerosol 。
4. The desiccators should be checked every week, if any one lamp does not work, may lead to uneven heating zone temperature distribution
5. Check all wires, damaged wire could lead to dangerous
6. Monthly check mirrors broken or polluted or not, Because of contaminated mirrors will reduce its light reflectivity
7. Quarterly application of high-pressure air cleaning air filters, the one with dirty faces should be changed
8. With the automatic temperature controller, the paint and the vehicle body warm up (one minute), and then entering the drying temperature to avoid paint bubble caused by sudden high temperature .

七. **routine maintains of spray booth**

1. Clean the filter with compressed air every 40 hours
2. Every month clean the filter net of the oil-entering pipe line of the burner
3. The top filter should be replaced once after per 200 unit's vehicles sprayed

八. **Spray booth usual fault and repair**

| Fault | Cause | Solution |
|---|---|---|
| Baking lights are wrong | 1 transformer or rectifier is broken, or power lack phase 2. circuit diagram is wrong 3. socket does not connect well | 1. change transformer and rectifier, repair the power 2. change the circuit diagram 3. fix the frame and the socket |
| Single baking light is wrong | 1. light is broken 2. socket does not connect well | 1. change the light 2. fix the frame and the socket |
| Light is wrong | 1. light is broken 2. Socket and frame don't connect well 3. Rectifier is wrong | 1. change the light 2. fix the frame and the socket 3. change the rectifier |
| Air volume is low during painting | 1. The first top filter is stopped 2. Damper is stopped by paint | 1. clean the first top filter 2. Check the damper |
| Temperature increase slowly during baking | Have not set fixed temperature | Check temperature button for baking light |
| The main motor does not work | 1. fuse is broken 2. motor is turnoff | 1. change the fuse 2. change the motor |