

Specification

Clean Shed

Foreword

Honorable customers,
Thanks for choosing our purifying equipments!

Please read this introduction carefully before you use the clean shed.

This brochure will introduce all specialties about the clean shed. It is designed according to the principle of clean room. Please read the brochure with additional introduction if you use the special products. Meantime, this brochure will not explain to the products which just the material or size are changed. By safety reason, please reading carefully and safekeeping for reference.

In order to operation safely, please the appointers who supervise the machine must be professional. When the machine has any problem, please you contact the appointed person or our company.

We possess of excellent teams for our after-sales service in order to perfect service. the satisfaction of customers is our target. If you have any questions, please do not hesitate to contact us.

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1. Safety knowledge

i. Product characteristic and use

Clean Shed can offer the part of high clean environment in workshop and lab. It is combined by fan, HEPA filter, light, etc. The structure is compact. And it is used easily. It can be used by single and also can be connected to clean area in strip.

The air that come out from the fan will be filtered by the HEPA filter, then the clean air enter into the work zone vertically to insure the rank requirement. Comparing to the clean room, clean shed is simple and economical. Recently it is used for the precision instruments, food processing and beverage, pharmacy, photoelectricity etc.

ii. Using in environment

- Temperature: 5°C - 35°C
- Relative humidity: less than 85% (+35°C)
- Atmospheric pressure: 86Kpa – 106Kpa
- The glabrous grade of usage environment: Commonly
- Power supply: 220v; 50Hz

iii. Safety events

The basis of safety terms

- Don't set the equipment up on a big dirty and easy shaky place.
- Don't use some erodible, diluent or solvent liquid to wipe the equipment to avoid loss color or destroy the paint.
- Forbid to use the following place: low temperature, high temperature, humid, lampblack, fog place etc.
- Insure the space of maintainance for changing the fan, filter and electrical parts.

The safety about electricity

- Set the equipment up for the power supply firstly and then get the electricity.
- Please confirm the power supply before you use the equipment. The power supply for clean shed is 220V, 1Phase.

The safety events about operation

- In a normal atmosphere condition, this machine's outlier resistance should be more than 20mΩ and the outlier resistance should be more than 2mΩ after humidity test.
- Press the switch for control box power supply and then press the switch for light, timing. Then enter into the clean shed from entrance. After work, please come out from the entrance and turn off the switch for timing, light and power supply. If you find any problem in the operation, please stop the program or cut off the power supply and then contact supervisor or our staff.
- You must cut off the power supply before you troubleshooting in order to keep you and machine safely.

2. Technology feature

Parameter information

External dimension (mm): 5000*3000*2400

Internal dimension (mm): 4900*2900*2110

FFU dimension (mm): 1175*575*290

2 unit FFU with one piece control box

Frame :Epoxy powder coated steel

The wall and ceiling are covered by anti-static plastic curtain, t=0.3mm

Door:soft strip curtain, width 1000mm

Purifying rank: 10,000rank

Power supply: 220V/50Hz

3. Configuration characteristic and principle

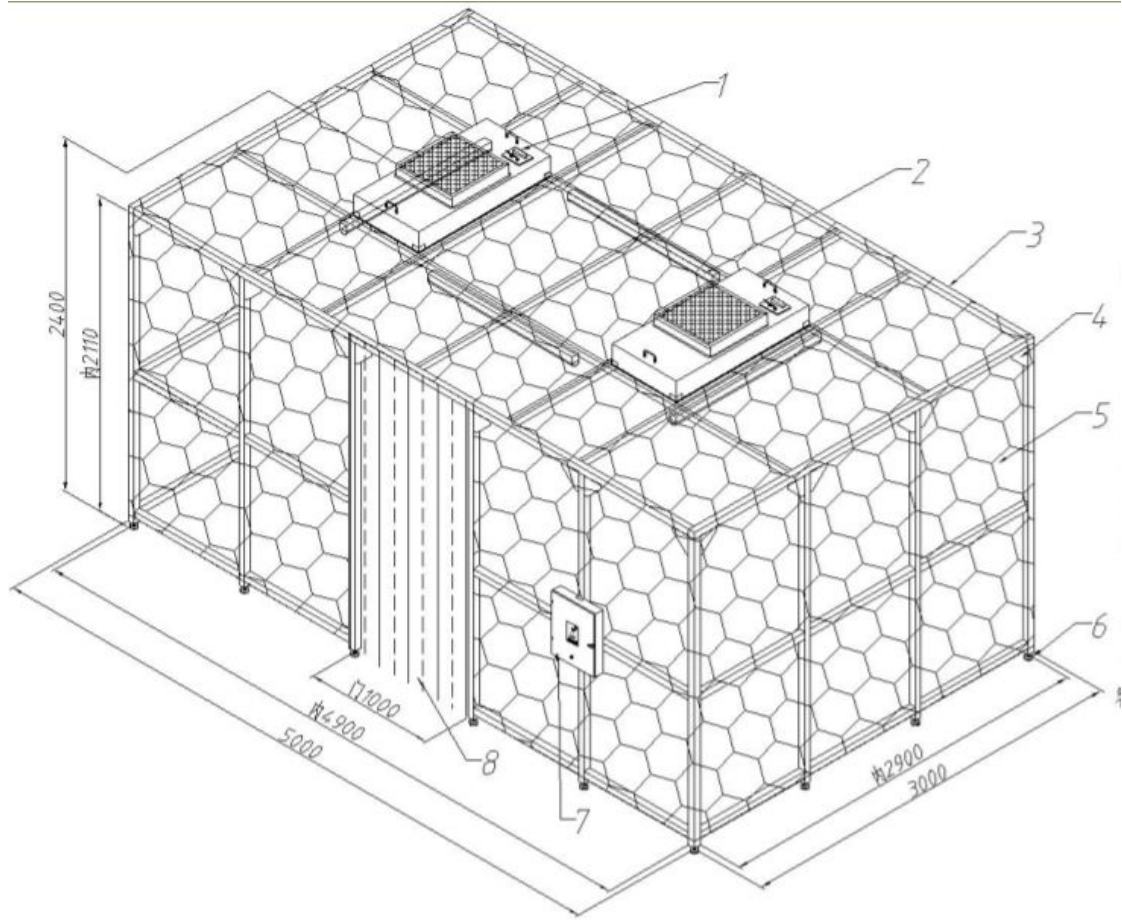
1) Configuration characteristic

According to the sketch:

- (1) The clean shed is made of shelf, FFU, Hepa filter and operation panel. It is controlled by hand.
- (2) It adopts entire epoxy powder coated steel for the basal configure.
- (3) It is setted up a control box on outside.

2) Working Principle

The sketch for clean shed



1. Frame (Epoxy powder coated steel)
2. FFU(1175*575*290mm) 2sets
3. HEPA filter(570*1170*69 mm), pre-filter(495*495*21 mm)
4. Cold rolled steel cover
5. Light(36W*4pcs)
6. Control box (The switch for power supply)
7. Anti-static plastic curtain

4. Installation

- 1) For considering the usage period, we kindly advise you to set the machine up in the room, which has 100 thousand class or better.
- 2) The installation place should be away from the volume dust .
- 3) The steps for installing (unassembled machine) :
Confirm the place→ Shelf→ Set box up→ Tighten the shelf and screws → Adjust the size→ Adjust all joint screws→ Put the FFU→ Connect electrical wire → Install the control box.

5. Usage

1. Connecting the power supply;
2. Opening the switch for power supply,light, and timing by hand;
3. Entering into purifying zone from the entrance;
4. After work,please turnoff the switch for timing, light and power supply on the exit(entrance).

6. Troubleshooting

Malfunction	Reason	Solution
Average velocity lower or higher than the rating.	3 phase is connected wrong	Adjust 3 phase
If 3 phase is connected right, the air velocity is still low	1. The prefilter gather a lot of dust. 2. The HEPA filter is not working.	1. Washing the prefilter or change new one 2. Change the new HEPA filter.
The fan is not working.	The connection of fan power has some problem.	Checking the connection of fan power.

7. Maintenance

- 1) By the clean rate of environment, usually change pre-filter about 1-6 months and HEPA filter about 6-12 months.
- 2) Usually, supervisor should be checking the clean rate of clean zone by the particle counter in each two months. If the checking result isn't noncoincidence with the required rate, please check it. (Leak or the HEPA filter is null). If the HEPA filter is not working, please change new one.
- 3) Please cut off the power supply when you change the prefilter or HEPA filter.

4) Attention about changing the HEPA filter:

- ◆ Please ensure the filter paper with intactness when you change the HEPA filter. Don't touch the filter paper.
- ◆ Please check the HEPA filter in a bright place before you change it. If the filter paper with any leak, please don't use it.
- ◆ When you change the HEPA filter, please open the lid firstly, and then take the press stick off. Finally, take the null filter out, and change the new one. (Please the arrow of HEPA filter should be coincidence with air flow arrow.) Meantime, you will set back the lid up before ensuring the frame was airproofed.

8. Transportation and store

- 1) Transportation: It is suitable for normal conveyance, but it can't put side and impacting. Meanwhile, please don't put it directly down below sunning, raining or snow.
- 2) Store: the packing equipment should place in a breezy warehouse with the humidity of no more than 85%. Meantime, the environment can't contain any acidic, alkaline or corrosive air.
- 3) The expiration of filter is available in 180 days in packing state.

9. Unpacking and examination

- 1) Please open the packing with attention.
- 2) Please check the product is right after unpacking, and then checks everything with packing list. If found any wrong, please contact us in one week.

10. Notice events

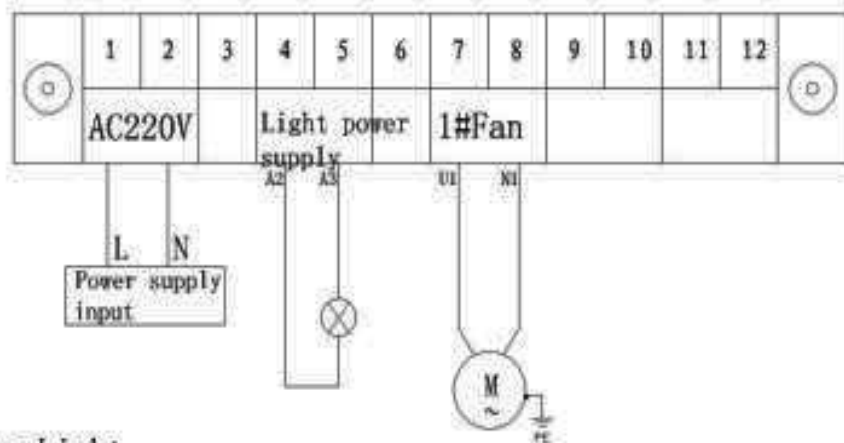
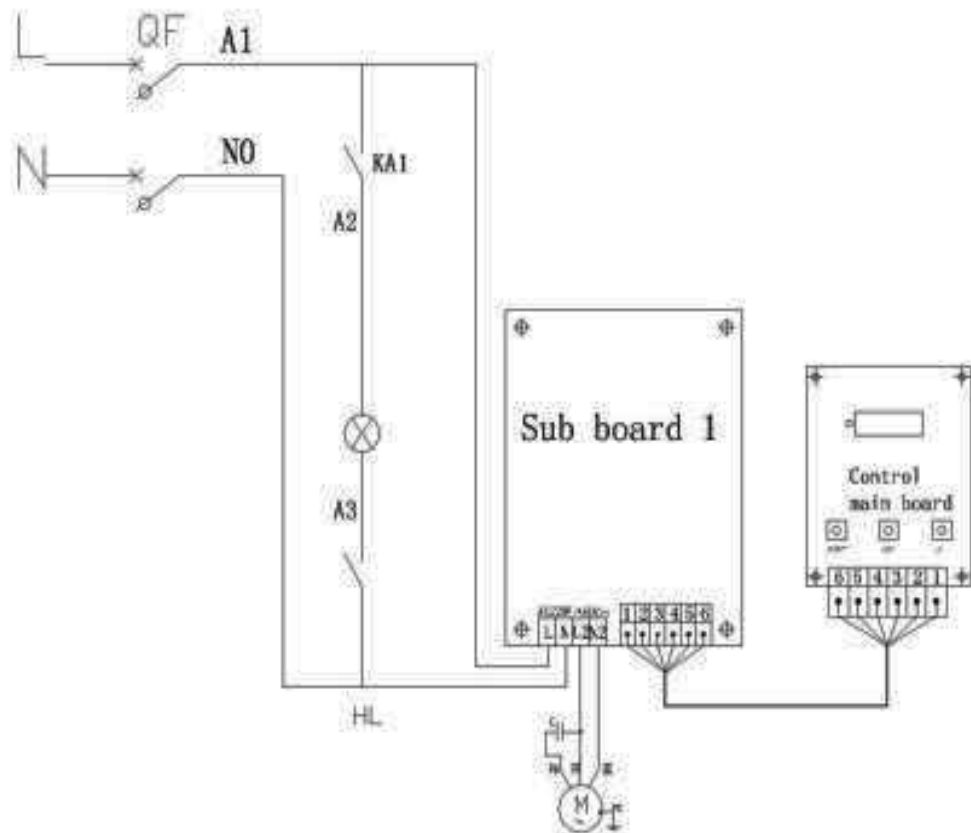
- Don't repeat on or off the switch in one minute, that can protect the machine.
- This equipment has not blastproof. Please don't use this machine in a explosive place.
- Don't touch the electrical parts of product. Please cut the electrical supply when you touch it involuntarily.
- Forbid to refit the machine to avoid getting an electric shock or fire.
- You must cut off the power supply before you troubleshooting in order to keep you and machine safely.
- Don't put the heavy stuff on the wire and push the wire. If the wire is destroyed,

it is easy to get an electric shock or fire.

- Don't use the fuse over the limit when you change the new fuse.
- Please cut off the power supply in a period of long-term suspension.
- If you find any problem in the operation, please stop the program or cut off the power supply and then contact supervisor or our staff.
- Please check the variant parts of BNC connector plugs whether it has the dusts or not. It is easy to bring fire if it has dusts.
- Please ensure grounding.

11.Attached drawing

The elements sketch for wiring



Remark: QF is GFCI HL is Light

Warranty

Notice:

- 1) We will provide a charged service for the follow status:
 - i. Customers can't to show the warranty or valid receipt.
 - ii. The warranty hasn't the stamp, date and retailer's name. The malfunction caused by the operation method, which it didn't follow the introduction.
 - iii. The malfunction caused by disassemble, repair and refit without manufacturer authorization.
- 2) The warranty's item must be written by the customers and the period for 12 months.
- 3) We can't renew the warranty for any missing.

Maintenance record:

Maintenance date	Malfunction and solving	Transactor	Sign for examination

Equipment warranty card

Product		Period of validity	
Model №			
Producing date			

The follow the table be wrote by the retailer.

Customers name		Contact №	
Address		Postcode	
Purchase date			

Retailer (with stamp)			
Contact name		Telephone	