

Who We Are:

From year of 2007 Airwoods has been engaged in supplying units and systems to create ideal climatic conditions with high efficiency, performance. Our Mission is to be an solution provider for Building Air Quality Constructions. The core business of Airwoods includes, HVAC Air Conditoning System, GMP clean room turnkey solutions, clean room building indoor construction, integrated indoor climatic systems.



Consult & Design



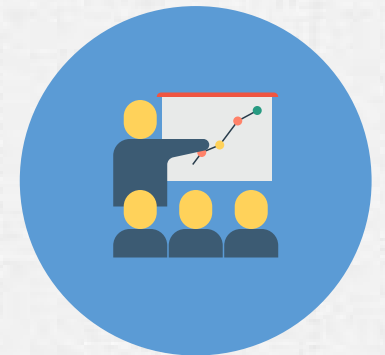
Procurement



Transportation



**Installation &
Maintenance**



**Training &
Commissioning**

Due to surge in demand of PPE. Business opportunity for disposable mask is ever booming. In Airwoods, we also received lots of inquiries regarding disposable mask cleanroom construction.

New to PPE industry, and looking for business opportunity

1

Expand production line due to increase demand

2

3

Limited budget and looking for economical solution

4

Received government order and looking to transfer from current factory

Webinar Topics

1

Manufacturing Cleanroom Design

2

***Cleanroom HVAC System
& Requirement***

3

Cleanroom Indoor Constriction

4

Cleanroom Projects Showcase

5

Questions & Answers

Cleanroom Design

- Disposable face masks production process flow design including two parts:

Personnel & Material Flow

- Separate entrance and exit route for personnel & material to avoid *air cross contamination*
- Common design process to avoid contamination from personnel:

Shoes change, cloth change and hand wash room, air shower/airlock room

- Common design process to avoid contamination from Material:

Raw materials storage room, Unpakcing anteroom, pass box/Air shower



To comply with ISO/GMP construction standards, customer can request the production machinery supplier to plan a well-organized design drawing or consult the local qualified design department according to your project requirements.

HVAC Requirements

01

Supplying airflow in sufficient volume and cleanliness to support the cleanliness rating of the room.

02

Introducing air in a manner to prevent stagnant areas where particles could accumulate.

03

Filtering the outside and re-circulated air across high efficiency particulate air (HEPA) filters.

04

Conditioning the air to meet the cleanroom temperature and humidity requirements.

05

Ensuring enough conditioned makeup air to maintain the specified positive pressurization.

HVAC Systems



01

Purification Air Handling Unit

Create and maintain an ideal indoor climate for face mask production.

Work with PLC system to precise control indoor environment.



02

HVAC ventilation system

In charge of air distribution and keep the cleanliness of the room.

Control the air route among difference rooms.



03

EO sterilization

EO sterilization is a production procedure of the face mask, which can be done by qualified and professional party.

It needs explosion-proof devices in the HVAC system

Cleanroom Indoor Construction



Laminar Flow Pass Box



Air Shower Pass Box



Air Shower



Hand Made Sandwich Panel



Machine Made Sandwich Panel



Double Tempered Glass Window

Desiccant adsorbs water vapor in hollow glass sandwich to prevent mist in the glass caused by temperature difference between indoor and outdoor to keep the glass clean and bright to ensure the window's transparency. It's ideal for cleanroom, hospital, pharmaceutical factory, laboratory, electronics factory etc.



Dispensing Booth



Automatic Sliding Door of Air Shower



Rapid Rolling Door



Swing Door

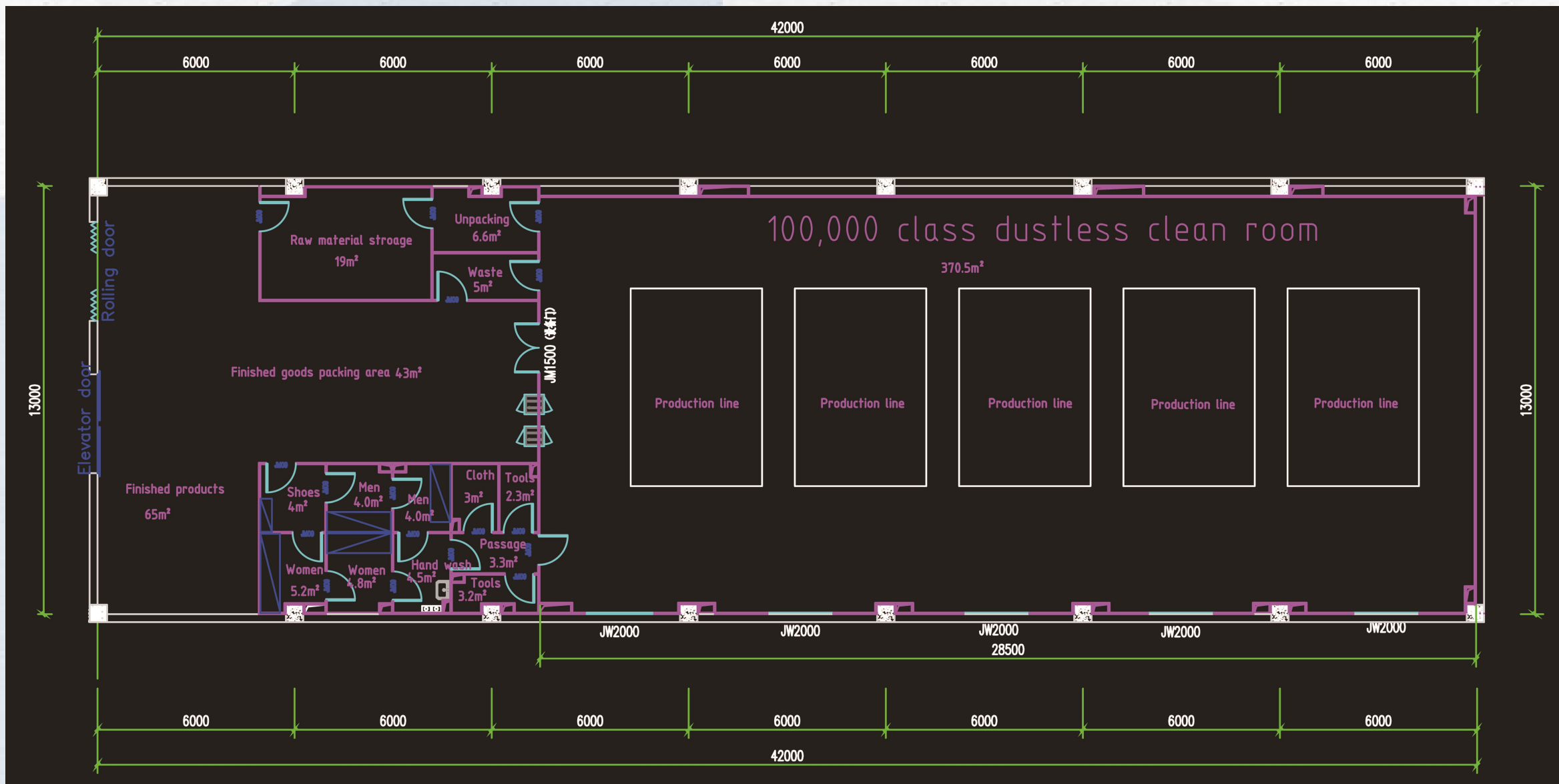


Half-Glass Swing Door



Full Glass Swing Door

Project Showcase



Project Showcase

Factory Area: 550 m²

Cleanroom Covered Area: 370.5 m²

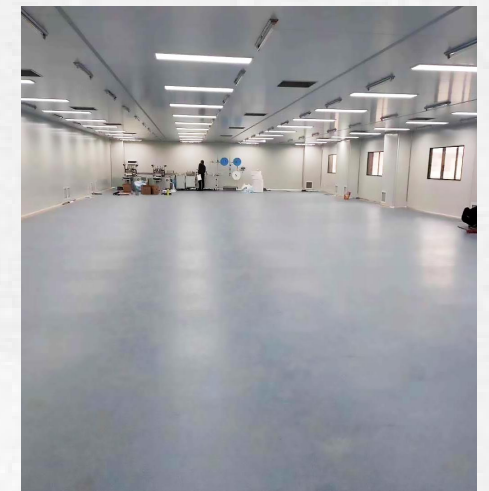
Cleanroom Class: ISO 8 / Class D

Airflow: 8000 m³/h

Indoor Air Pressure: +15 Pa

Cleanroom Coverage:

Production workshop,
Male/female Change Room,
Hand Wash Room, Corridor,
Tools Room, Raw material room,
unpacking room, Waste Room;
External Packing and finished product
storage room



Cleanroom for Disposable Mask Manufacturing Workshop

Feature:

Well organized room according to GMP standard, Energy-saving design concept

Advantage:

Turnkey Solution, One-stop service

Benefit:

To help customer saving time & money, guarantee a high quality project

Factory Total Area: 546m²

Cleanroom Area: 440 m²

Cleanroom Coverage:

Production workshop, Male/female Change Room, Hand Wash Room, Corridor, Tools Room, Raw material room, unpacking room, Waste Room; Extrenal Packing, finished product storage room

Cleanroom Class: ISO 8/Class D

Indoor humidity & Temperature Control: 23±2C/50%±5%

Indoor Air Pressure: +15pa

Service:

- 1.Cleanroom Interior Construction Design**
- 2.HVAC System Design**
- 3.Construction materials & HVAC Equipment Supply**
- 4.Installation and Commissioning**

Feel free to contact us if you need any further information

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