














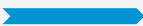















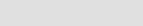




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C O N T E N T S



Products Used In Different Industri'es Cleanrooms



Biomedicine Industry



Biological Industry



Electronic Industry



Food Processing Industry



Hospital Segments



Chemical Research Laboratory



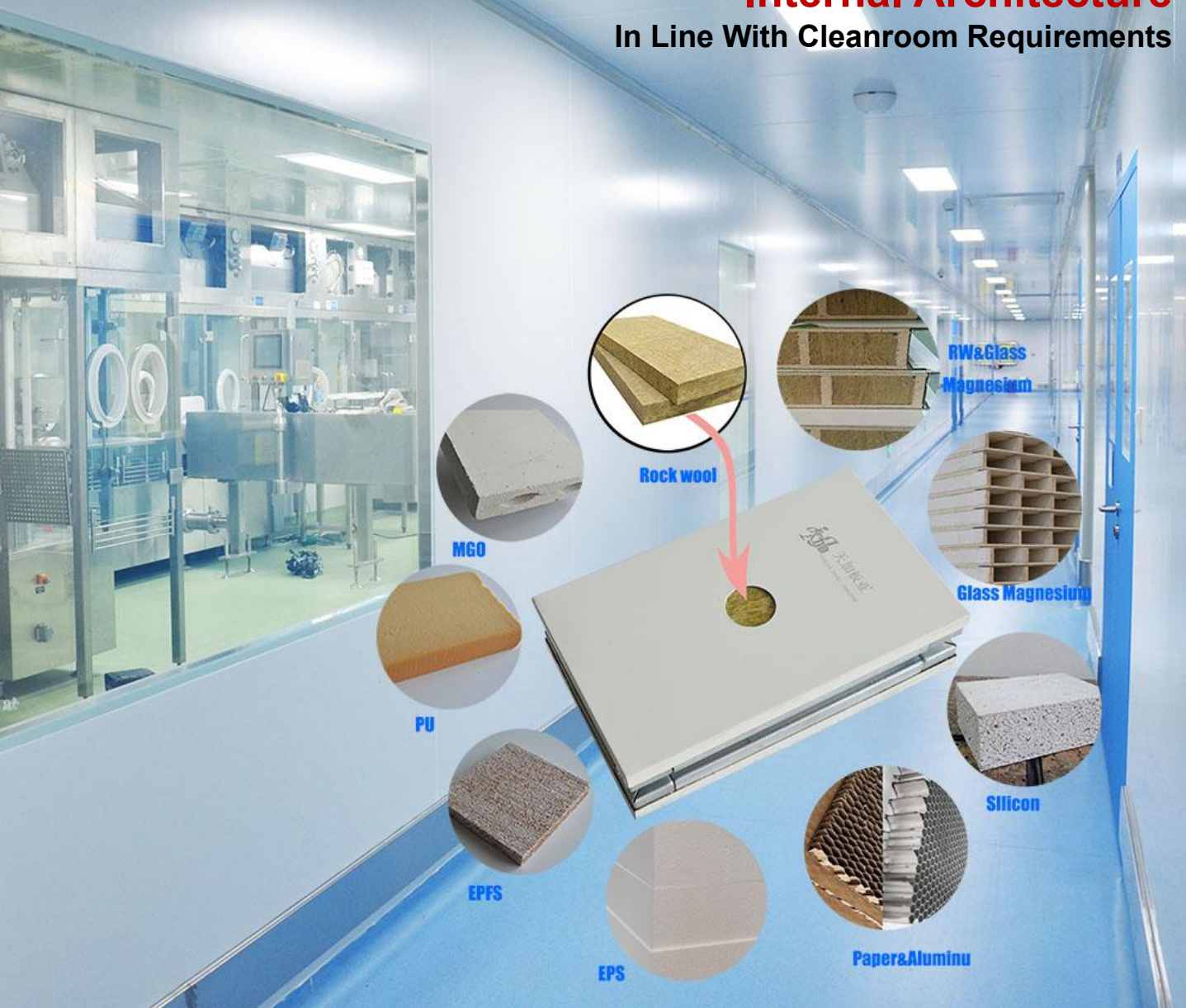
Pharmaceutical Industry



Semi-Conductor



Internal Architecture In Line With Cleanroom Requirements



Ceiling System

- High strength walkable, serviceable ceiling
- Fast & easy installation
- Concealed suspension
- Interior flush surface
- Flexible to make cutout at site for lighting, HEPA filter stc.

Wall System

- Prefabricated panel with concealed electrical wiring
- Fast & easy installation
- Self-supporting, dismantlable system
- Flush surface and corner coving system
- Accommodate changes in cleanroom layout and future expansion
- Built-in panel return air riser. Return air duct concealed in panel in order to minimize dust deposit and increase utilizing room area for production activity.
- Single piece wall corner

墙板与墙板连接节点示意图

墙板与墙板安装节点示意图

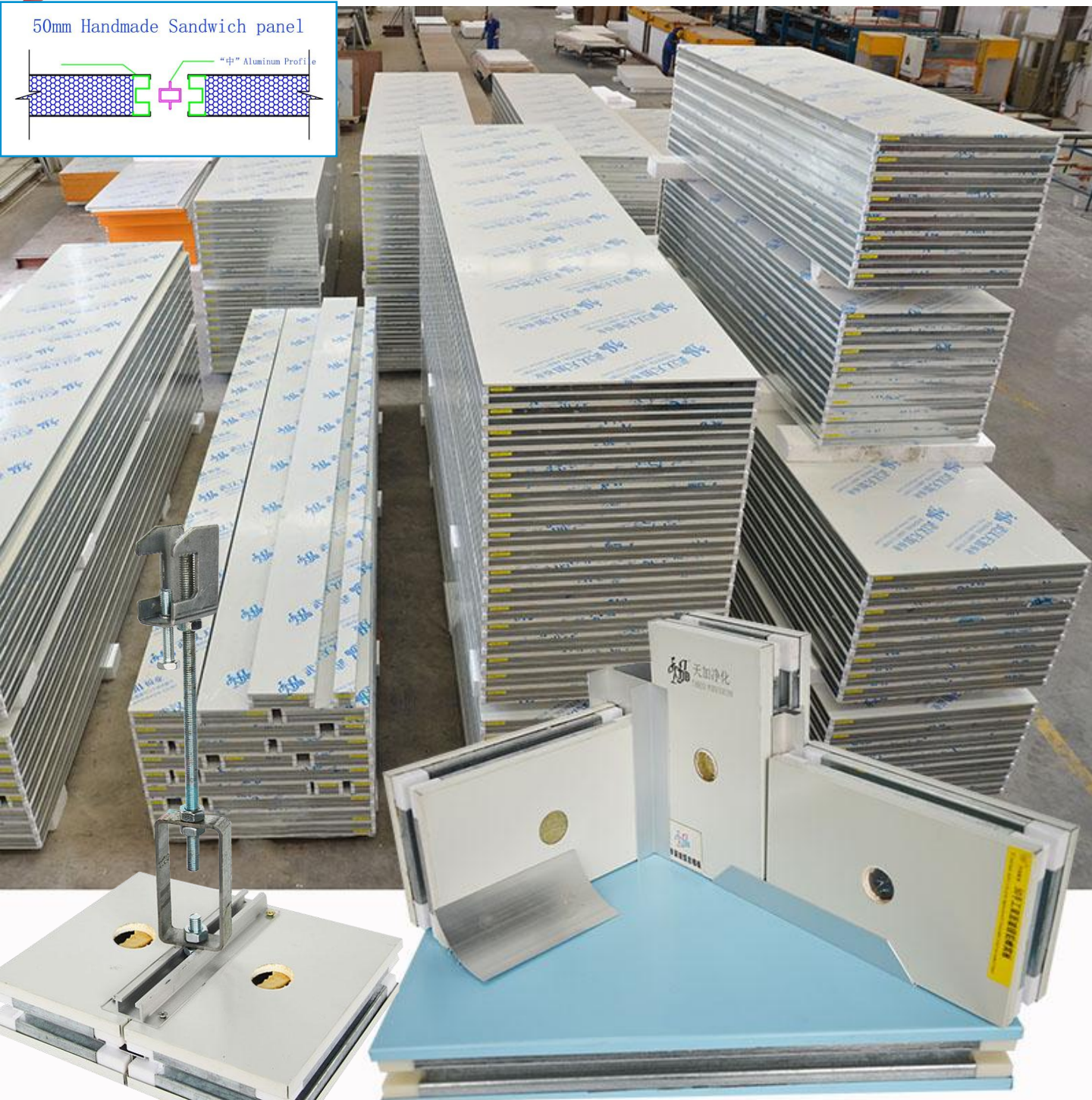
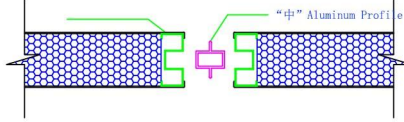
墙板与地面安装节点示意图

墙板安装节点示意图



Handmade Sandwich Panels Made In Factory

50mm Handmade Sandwich panel



Tech Data:

Available Std. Specification

Panel Thickness: 50,75, 100, 150, 200mm

Panel Width: 10-1180 mm

Panel Length: 10-6000 mm (Suggest less than a container's length)

Surface Steel Sheet Thickness: 0.3-0.6 mm

Panel Color: White Grey (Customized)

Available Core Material:

EPS/PU/MGO/EPFS/Rock Wool/Glass Magnesium/Paper&Aluminum Honeycomb/Silicon etc.

Surface Sheet: Coated Galvanised Steel Sheet/

Stainless Steel Sheet

Compliance Standard

ISO 9001-2008

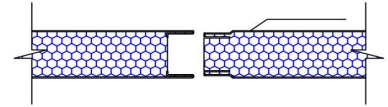
GMP

Handmade sandwich panel products is half machine combined with manual production. Aluminum alloy cold-drawn frame or iron keel frame is used around, which is the high-grade fireproof building decoration composite panel in China at present, with high strength, impact resistance, and good shock resistance.



Various Core Material Machine-made Sandwich Panels

50mm Machine-made Sandwich Panel



Tech Data:

Panel Thickness: 5075, 100, 150, 200mm

Panel Width: 1150 mm

Panel Length: 10-6000 mm (Suggest less than a container's length)

Surface Steel Sheet Thickness: 0.3-0.6 mm

Panel Color: White Grey (Customized)

Core Material: EPS/PU/MGO/EPFS/Rock Wool/Glass Magnesium/Paper&Aluminum Honeycomb/Silicon etc.

Surface Sheet: Coated Galvanised Steel Sheet/Stainless Steel Sheet



Cleanroom Doors



Tech Data:

Overall Door Panel Thickness: 50mm,75mm

Door Surface Sheet Thickness: 0.8mm

Door Frame Sheet Thickness: 1.2mm

Overall Door Frame Thickness:50-200mm

Door Surface Sheet Plate: Galvanized Steel Sheet

Door Core Material: Paper Honeycomb/Rock Wool/PU Infill

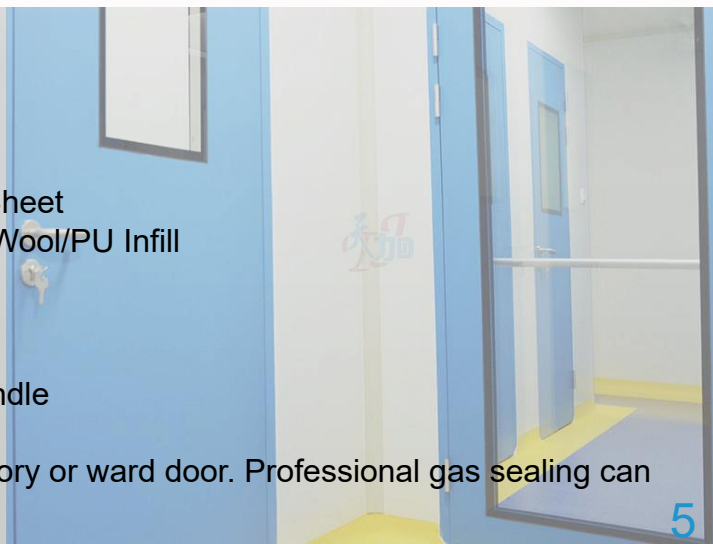
Vision Window Size: Customized

Glass Material: Tempered glass

Lock Model: Fireproof D Style

SS 304 Material: Lock, Push Plate, Closer, Handle

Suitable for operating room, cleanroom, laboratory or ward door. Professional gas sealing can ensure dust particles channel to the clean area.





Cleanroom Window



Tech Data:

- Glass Thickness:** 5mm
- Overall Window Thickness:** 50,75,100,150,200mm
- Frame Material:** Aluminium Alloy/Stainless Steel
- Glass:** Tempered Clear Glass
- Infill :** Dry agent+Nitrogen
- black (or white) trim paint**
- Connection :** Insert/“中”aluminum profile connect to sandwich panel

Double-layer cleanroom windows are double-layer insulating glass, with good sealing performance and thermal insulation performance. According to the shape, it can be divided into rounded edge and square edge purification window; according to the material, it can be divided into: one-time forming frame cleanroom window; aluminum alloy frame cleanroom window; stainless steel frame cleanroom window. Widely used in pharmacy, food, cosmetics, biomedical and electronic manufacturing industries cleanroom engineering.



Aluminum Profiles



BOTH WINGS BASE (HIGH)



BOTH WINGS BASE (LOW)



SINGLE WINGS BASE (HIGH)



ONE HAIF BASE



U-BAR



L-BAR 38X70



L-BAR 38X38



ROUND L-BAR



T-BAR



FIX-BAR



CORNER POINT (BIG)



CORNER POINT (SMALL)

Tech Data:

Aluminum profiles for clean room sandwich panel connection

Surface Treatment:
Mill, Anodized, Powder Coated, Eletrophoresis





High Efficiency HEPA Air Filters HEPA Air Volume Control Damper



Tech Data:

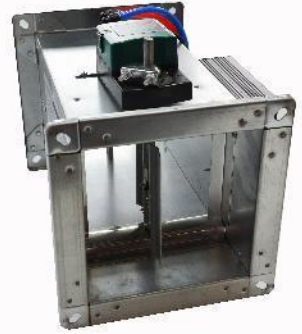
High Efficiency HEPA Air Filters

- Efficiency:** $\geq 99.99\%$, 99.99% (H13-H14)
- Porosity:** 0.3 μ m
- Material:** Fiber Glass
- Dimension(L*W*H):** Customized
- Frame material:** Aluminum or Galvanized
- Separator Style:** Hot Melt
- Sealant:** The high Heat-resistance kind of Silica Gel.
- Highest temperature:** 80 degree
- Air Flow(m³/h):** Determined by dimensions and requirements
- Media Area Flow (m²):** Determined by dimensions and requirements
- Initial Resistance(Pa):** Determined by dimensions and requirements

HEPA Air Volume Control Damper

Hollow electric aluminum alloy shutters Double-layer sand-proof air volume control valve Air outlet window can be customized specifications.

Customized size is available.





HEPA Box & Air Diffuser



HEPA Diffuser

The material of the diffuser are SS and Coated steel

Tech Data:

HEPA Box

◆ The HEPA box used by the efficient air outlet adopts the domestic brand H14 high-performance, low resistance oil resistant filter element, through the domestic advanced origami assembly line in the clean room production and installation, filtration efficiency $\geq 0.3\mu\text{m}$, dust $\geq 99.99\%$ (sodium trap method), to ensure that the cleanliness of the clean table up to ISO5 (FEDERAL 209E100).

◆ GKF series HEPA Box adopts the latest technology design to make the air distribution more reasonable, the box structure is simple and reliable, the shell is made of high-quality steel plate, the surface is painted or plastic spray.

控制区走廊
P-512



Cleanroom Lights Series



Tech Data:

Reference Specification

Luminous flux: 1050-8000 lm

Luminaire power: 10-80 W

Energy efficiency: 100 lm/W

Supply voltage: 230 V

Housing color: White

Ripple: <5%

Energy efficiency: class A+

Warranty: 36 months .

Color rendering index: (CRI) >80

Color temperature (sphere): 4000-6500 K

Power factor (cos φ): > 0.95

Temperature range: from +5 to +35 degree

Degree of protection (IP): IP42

Shock resistance :IK02/0.2J

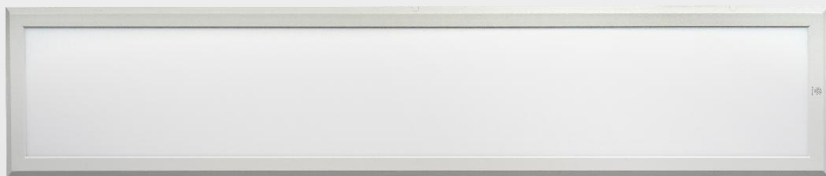
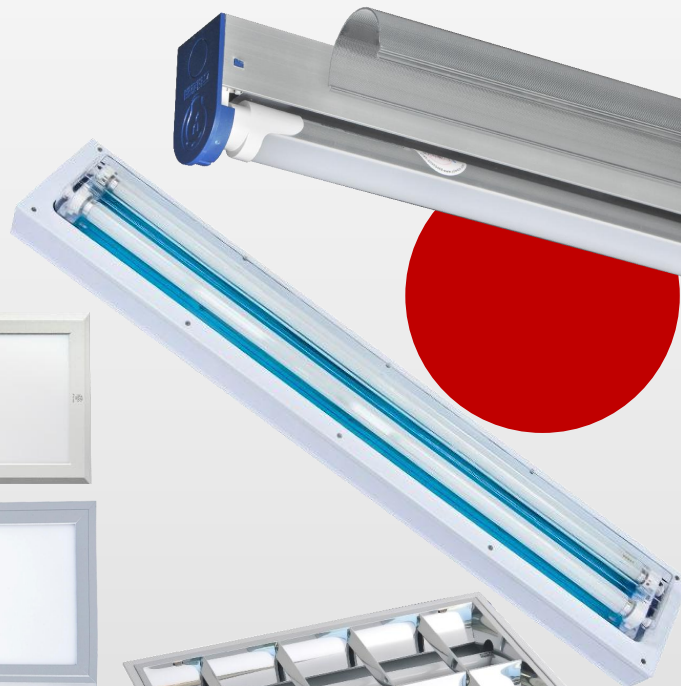
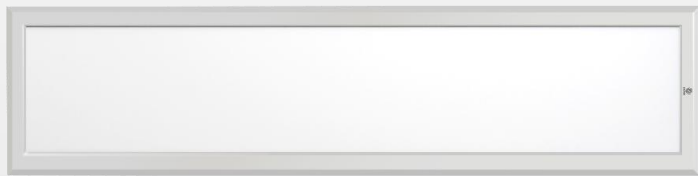
Basic Performance:

Light Cover: Acrylic

Housing Materia: PS /PC

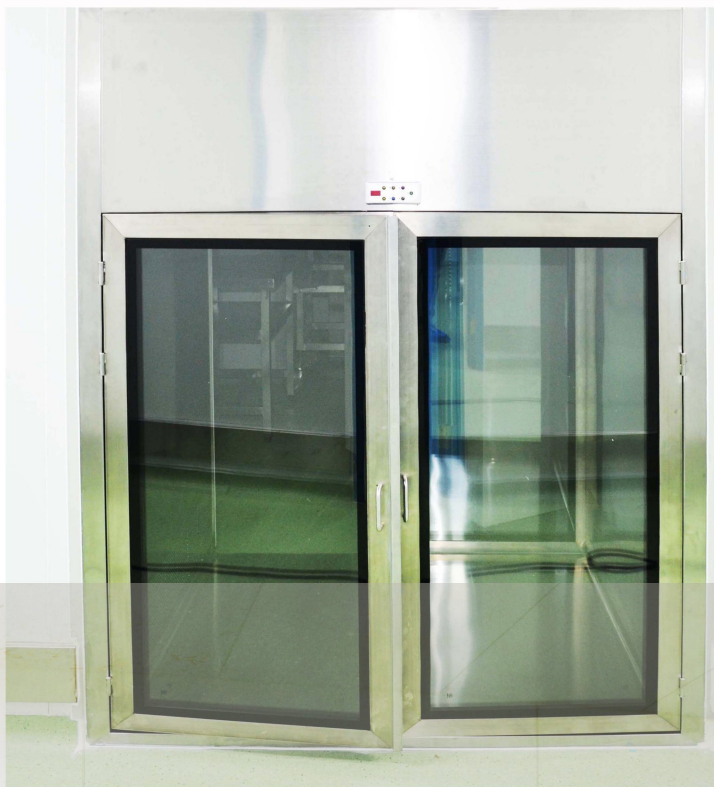
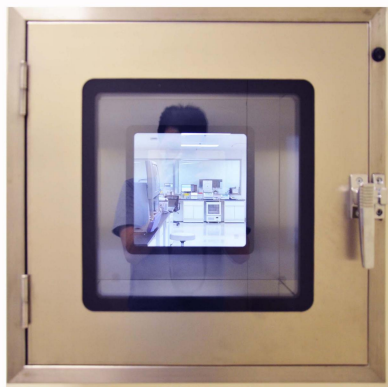
Base Material: Steel Sheet/Aluminium alloy

LED Driver: Fire retardant lamp holder, off-performance electronic ballast





Pass Boxes



Tech Data:

Model: Standard Pass Box/Liquid Tank Self-cleaning Pass Box/Static Pass Box/Dynamic Pass Box

Reference Size: Internal (600*600*600)
External (Customized)

Lock: Electromagnetic interlock/Mechanical interlock

Basic Performance:

1. Cleanliness requirements in laminar flow transfer window: Grade B;
2. The inner and outer double shell, the inner arc treatment, to ensure no gap connection;
3. Adopt negative pressure laminar flow design, air flow direction adopts up and down

mode, side return air adopts 304 stainless steel cold rolled plate punching design, and set up reinforcement;

4. **Filter:** G4 for primary filter and H14 for high efficiency filter, with efficiency of 99.99%;

5. **Wind speed:** after high efficiency filter, the wind speed of the air is controlled in 0.3-0.4m/s (test at 150mm under the high efficiency air distribution plate);

6. **Pressure difference function:** display filter pressure difference (high efficiency 0-500PA range), accuracy $\pm 5\text{Pa}$;

7. **Control function:** fan start/stop button, equipped with built-in electronic door interlock; Set uv sterilization lamp, design a separate switch;

8. Hepa filter can be separately removed and installed from the upper box, easy to maintain and replace the filter;

9. **Noise:** noise < 65dB during normal operation of transfer window;

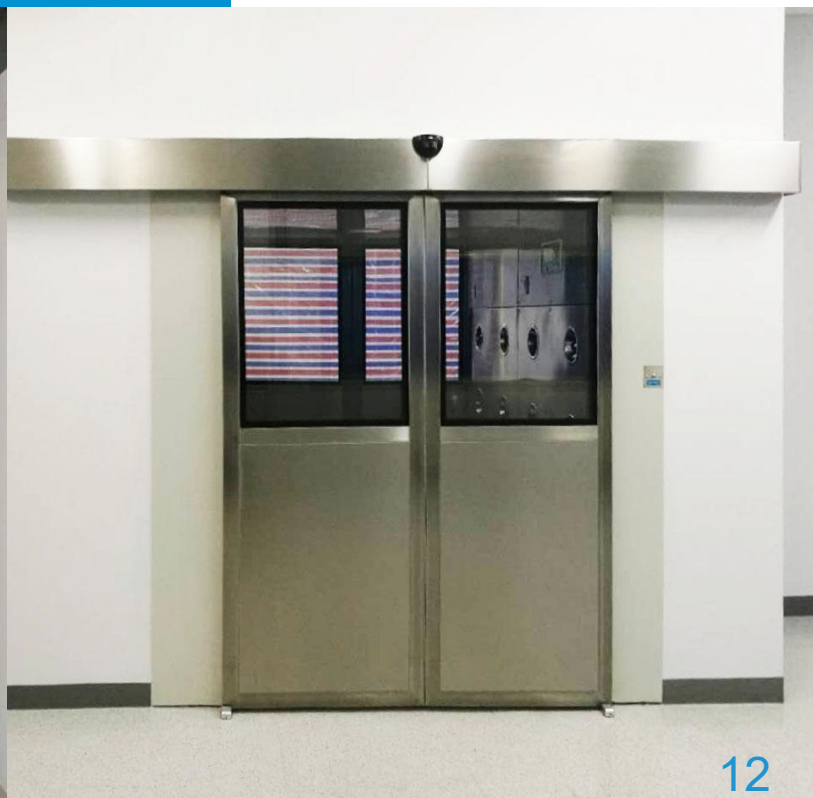
10. **Efficient air outlet flow plate:** 304 stainless steel mesh plate



Tech Data:

The two doors of the air shower room are electronically interlocked, which can act as an air lock to prevent the purified air from entering the clean room. Material side we choose high-quality 201, 304 stainless steel plate and cold plate baking paint, cold plate baking paint inside the stainless steel plate, to make high-quality products.

- ✓ Door closer built-in/out installation
- ✓ The observation window adopts 3C certification, high-strength tempered glass, strong pressure resistance, not easy to break, and reliable installation.
- ✓ 180 degree all-round adjustable stainless steel air shower nozzle
- ✓ Insert LED lighting, not easy to accumulate dust and more energy-saving and environmentally friendly; brightness reaches 300lm
- ✓ The tuyere is punched with stainless steel, the back adopts a frame structure, and the primary filter is used. The punching form is a waist-shaped cross punching, which makes the air adsorption more smooth



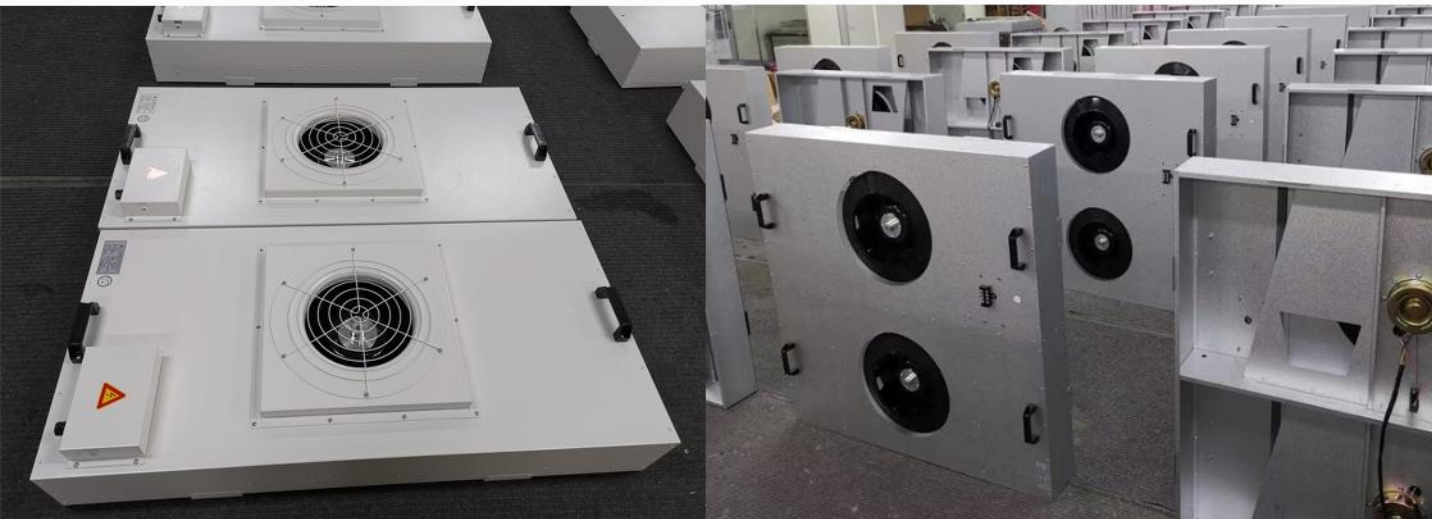


Tech Data:

- ✓ Closed structure, low appearance, light weight of the shell.
- ✓ The liquid tank sealing laminar flow hood is an air purification unit with a local clean environment, which can be flexibly installed above the process point requiring high cleanliness, and can be used individually or combined into a clean area.
- ✓ Laminar flow hood is mainly composed of box body, fan, primary air filter, damping layer, lamps, etc. The shell is stainless steel or sprayed with plastic. The product can be suspended and supported on the ground, with compact structure and convenient use.
- ✓ Laminar flow hood is the air at a certain wind speed through the high-efficiency filter, the formation of a uniform flow layer, so that the clean air in a vertical unidirectional flow, so as to ensure that the work area to achieve the cleanliness of the process requirements.



FFU (Fan Filter Unit)



Tech Data:

Features

1. The fan adopts the German EBM direct-drive high-efficiency centrifugal fan, which has the characteristics of long service life, low noise, maintenance-free, small vibration, and stepless speed regulation. The quality of the fan is reliable, and the working life is more than 5 hours.
2. Especially suitable for assembly is the ultra-clean production line, which can be arranged as a single unit according to the needs of the process, or multiple units can be connected in series to form a 100-level assembly line.
3. The shell structure is made of stainless steel, aluminum alloy, and cold-rolled steel plate, which is light in weight, corrosion-resistant, rust-proof, and beautiful.

4. Before the products leave the factory, they are scanned and inspected one by one with a dust particle calculator in accordance with the US Federal Standard 209E to ensure the quality.

Optional Accessories

- ✓ The computer centrally controls the operation, speed regulation, and working status query of 8,000 fans.
- ✓ ULPA Ultra High Efficiency Filter
- ✓ Round air duct interface



Tech Data:

Horizontal Flow Clean Bench

Features

- ✓ Horizontal manifold, open table, easy to operate
- ✓ The adjustable air volume fan system is adopted, and the light touch switch adjusts the voltage to ensure that the wind speed in the working area is always in an ideal state
- ✓ Lighting and germicidal lamp safety interlock to protect operators.
- ✓ The working surface is made of SUS304 high-quality stainless steel, with a humanized arc design, which not only effectively improves the comfort of work, but also has the functions of antibacterial, corrosion resistance and easy cleaning.



Vertical Flow Clean Bench

Features

- ✓ The vertical manifold and quasi-closed table can effectively prevent the external airflow from flowing in and the stimulation of the operation odor to the human body.
- ✓ The adjustable air volume fan system is adopted, and the light touch switch adjusts the voltage to ensure that the wind speed in the working area is always in an ideal state.
- ✓ Lighting and germicidal lamp safety interlock to protect operators.
- ✓ The front windshield is designed with 5mm fully tempered glass, which can be moved up and down and positioned at will. Single and double-sided operation is more convenient and safe to use.
- ✓ The working surface is made of SUS304 high-quality stainless steel, with a humanized arc design, which not only effectively improves the comfort of work, but also has the functions of antibacterial, corrosion resistance and easy cleaning.





Dust Collector

Tech Data:

We provide cartridge type stand-alone dust collector, stainless steel stand-alone dust collector, stand-alone dust collector, mobile dust collector.

Specification

Fan air volume: 800-6000m³/h

Filter area: 4-30m²

Wind speed: 2.62-3.49m/s

Main Power: 750-7500W

vibration motor power: 180-550W

Filtering precision: >99.5

NoisedB(A): <80

Weight: 178-635kg



Weighing Booth



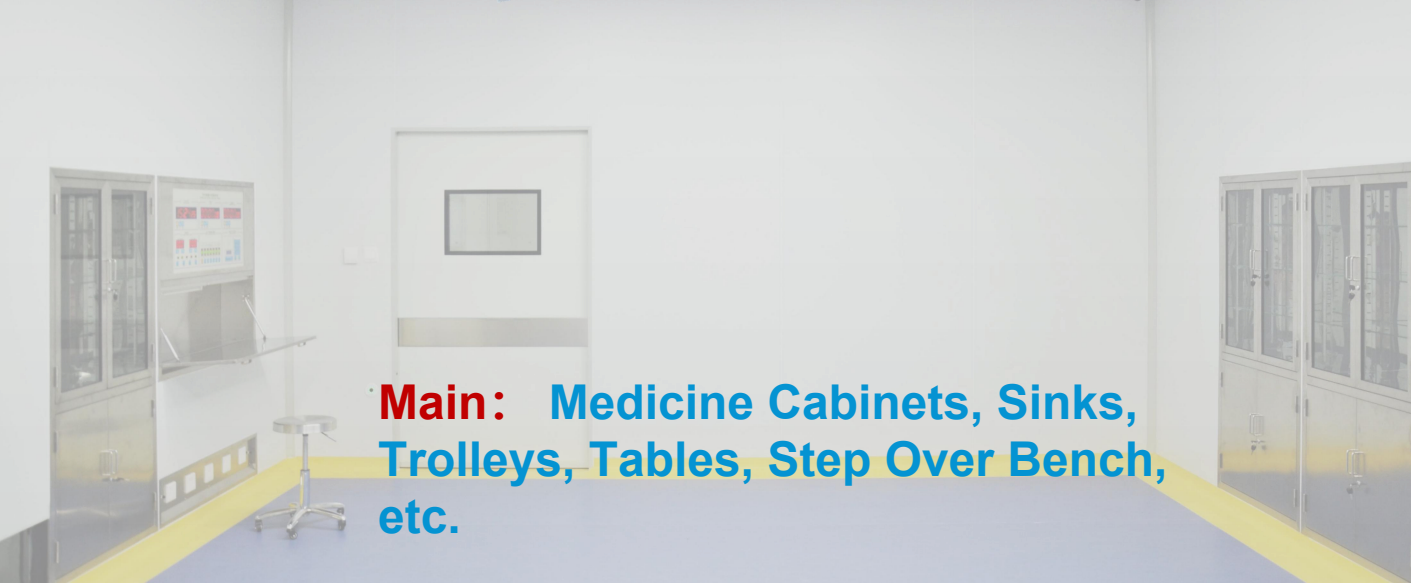
Tech Data:

- ✓ The equipment is composed of the working area, return bellows, fan box, outlet box and the outer box.
- ✓ The control panel is located on the front of the internal working area of the equipment. The control panel adopts light touch LCD control panel (or frequency converter) to control the start and stop of the fan, adjust the working condition of the fan, and adjust the wind speed required in the working area; have differential pressure gauge, test the resistance of the filter; waterproof five-hole socket and lighting switch.
- ✓ Inside the air supply box, there is also an exhaust control plate, which can adjust the exhaust volume of the equipment within a reasonable range.





Stainless Products



Main: Medicine Cabinets, Sinks, Trolleys, Tables, Step Over Bench, etc.

We provide stainless steel products suitable for cleanroom industry



Highly Customized



Rapid Turnaround

Shipped Worldwide

Plug And Play

The mobile PCR lab meets the requirements of the enhanced medical BSL-2 laboratory, highly integrated with water, electricity, HVAC system and other equipments, and equipped with necessary instruments for the experiment. It is made out of factory modular complete set.

Seek The Customers By Quality
Rely Reputation Open The Market

CLEANROOM CONSTRUCTION MATERIAL MANUFACTURER & PRODUCTS SUPPLIER



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