

Modular Panels



Cleanrooms – Cold Rooms



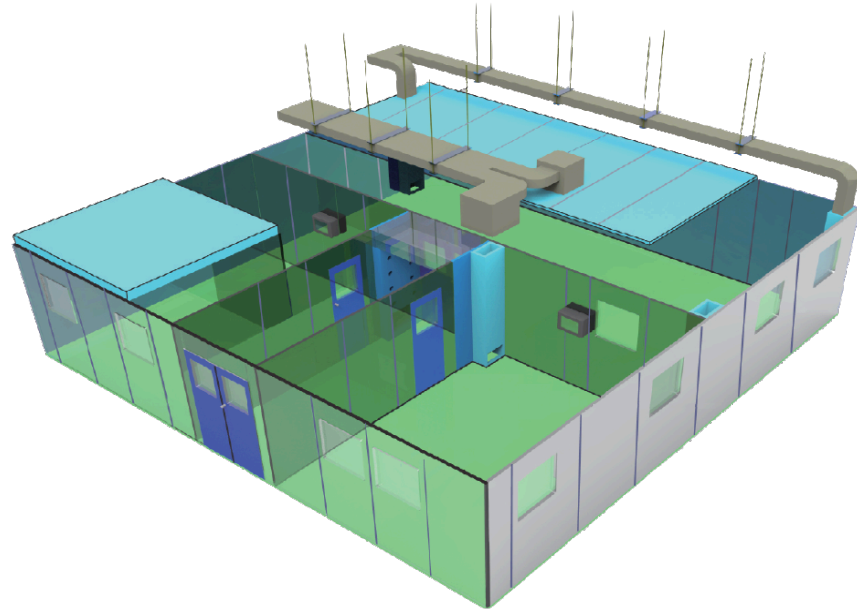
**QUALITY &
AFFORDABILITY**



Tailor made quality process and packing solutions for
Pharmaceutical & Food Industry

Cleanroom Projects

- Conceptual Design & Detailed Design -**
- Process Optimization -**
- Industrial Services & Clean Services -**
- Machinery Selection -**
- Inspection -**
- Testing -**
- Documentation & Validation -**
- Installation -**
- Qualification -**

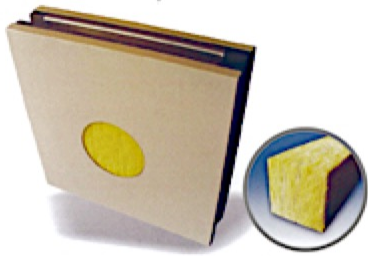


The team involved in each project is consisted of professionals with a solid background in pharmaceutical industry working on the commitment to provide the best solution for your process.



Sandwich Panel Types

We can provide machine made and hand made sandwich panels of different type of materials for different applications and environments.

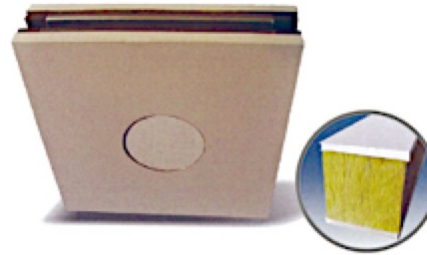


Rock Wool Handmade Sandwich Board

Composition: Double steel plates between which filled with rock wool / mineral wool, hand-made. Rock wool, a kind of fluffy short and thin fiber, made from natural rock and mineral so it is non-combustible;

Advantages: good fire resistance, high performance in noise and heat insulation;

Application: Widely used as the functional partition and ceiling in the plant, laboratories and various places in the field of food, pharmaceutical, electronics, scientific research, aerospace, medical, etc.

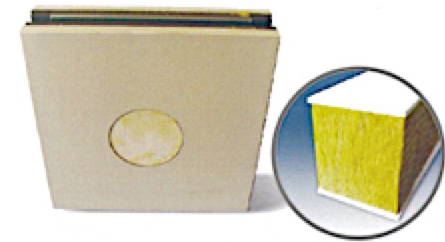


Rock Wool + Glass Magnesium Handmade Sandwich Board

Composition: Color-coated sheet + glass magnesium + rockwool + color-coated sheet, handmade;

Advantages: good fireproofing performance, high intensity, good noise insulation;

Application: Widely used as the functional partition and ceiling in the plant, laboratories and various places in the field of food, pharmaceutical, electronics, scientific research, aerospace, medical, etc.



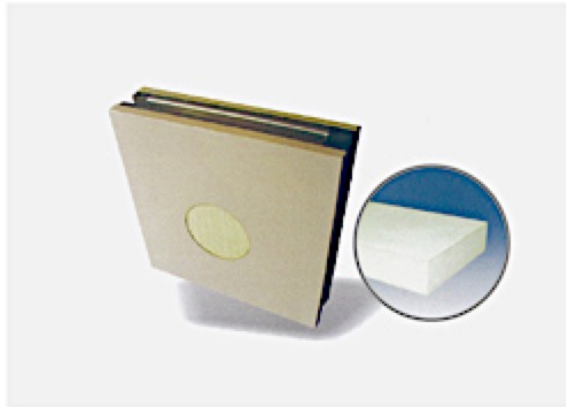
Rock Wool + Gypsum Handmade Sandwich Board

Composition: Color-coated sheet + gypsum+ rockwool+ gypsum+ color-coated sheet, handmade;

Advantages: good fire resistance, high intensity, good noise insulation;

Application: Widely used as the functional partition and ceiling in the plant, laboratories and various places in the field of food, pharmaceutical, electronics, scientific research, aerospace, medical, etc.



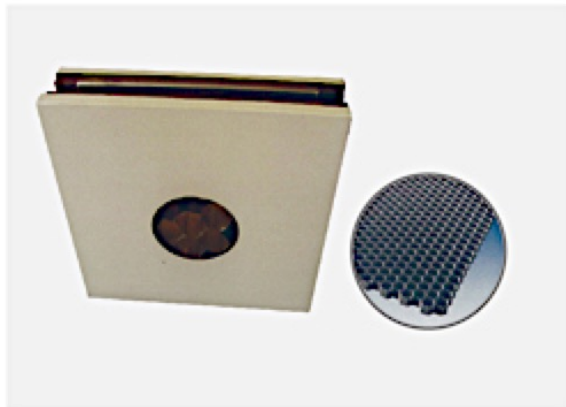


PU Handmade Sandwich Board

Composition: Color-coated sheet & PU & color-coated sheet, handmade. PU referred to as polyurethane;

Advantages: heat insulation, light weight.;

Application: Widely used as the functional partition and ceiling in the plant, laboratories and various places in the field of food, pharmaceutical, electronics, scientific research, aerospace, medical, etc., particularly suitable for low-temperature workshop, warehouse.



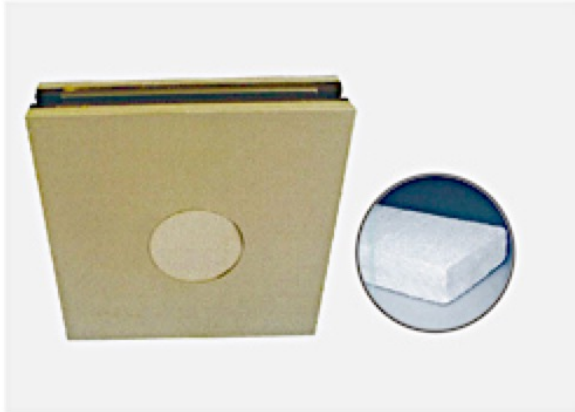
Aluminum Honeycomb Sandwich Board

Composition: Color-coated sheet + aluminum honeycomb + color-coated sheet, handmade

Advantages: light weight, high performance in noise and heat insulation, fit for fast construction.

Application: Widely used as the functional partition and ceiling in the plant, laboratories and various places in the field of food, pharmaceutical, electronics, scientific research, aerospace, medical, etc., particularly suitable for high purity level electronics manufacturing plant.



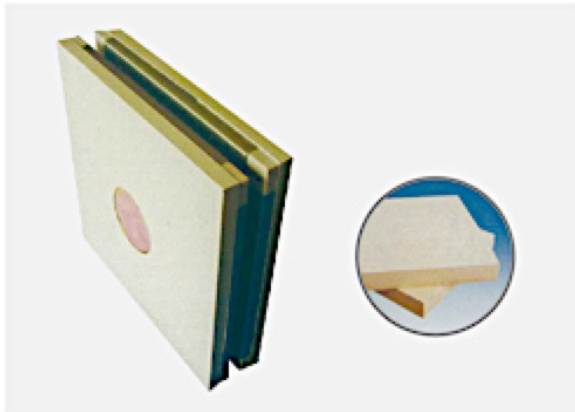


Boiling Stone Handmade Sandwich Board

Composition: Color-coated sheet + boiling stone + color-coated sheet, handmade. Boiling stone, a new environmentally friendly material with high fire insulation, formed by dosing, extrusion, drying of glass beads, cellulose fibers, inorganic binder, etc.

Advantages: high temperature resistance, good fire performance.

Application: Widely used as the functional partition and ceiling in the plant, laboratories and various places in the field of food, pharmaceutical, electronics, scientific research, aerospace, medical, etc., particularly suitable for workshop requiring high temperature resistance and fire performance.



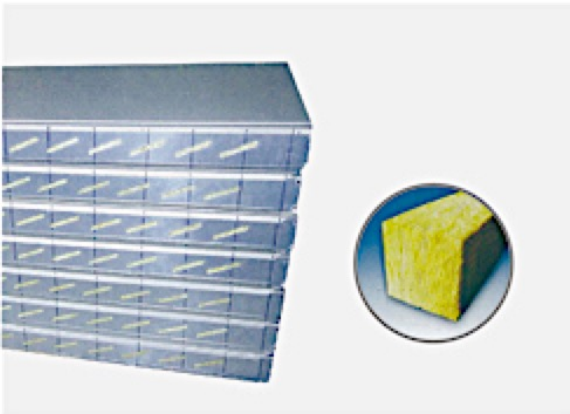
Phenolic Foam Handmade Sandwich Board

Composition: Color-coated sheet + phenolic foam & color-coated, handmade. Phenolic foam is known as the "king of insulation materials", a new fire insulation material, with light weight, fire protection, unflammable, smoke-free, non-toxic, non-dripping, usable in wide temperature range.

Advantages: perfect heat insulation and fire performance.

Application: Widely used as the functional partition and ceiling in the plant, laboratories and various places in the field of food, pharmaceutical, electronics, scientific research, aerospace, medical, etc., particularly suitable for workshop requiring high temperature





Drying Rockwool board

Composition: Top/bottom steel plate using color plate or galvanized steel plate or stainless steel plate; core material made of (mineral) rock wool with thickness about 0.326~1.2mm and bulk density 120~160kg/m³. Sealing steel strip at the side are from 0.4~0.8mm galvanized plate. The drying rockwool board has width of 950mm/1150mm and thickness of 150mm~200mm. Length of the board is tailor made as per customer's requirements. Board surface is coated with PVC protective film.

Advantage: Fire resistance, sound insulation; fire rating: A (0.57h-1.57h)

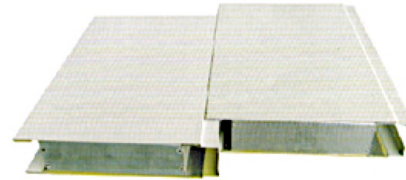
Application: Fit for the drying room, paint room, industrial equipment, etc.



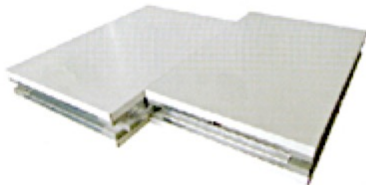
Middle Place Type
Handmade Sandwich Board



Tongued and Grooved Type
Handmade Sandwich Board



Middle Place Type
Handmade Sandwich Board



Center Dislocation Type
Handmade Sandwich Board



Antibacterial Color Steel Clean Plate

Special antibacterial coating of patented NanoPC nano-silver and titanium dioxide is able to continuously inhibit reproduction of bacterial and overcome the defects of conventional disinfection method such as severe corrosivity, biological toxigenicity, short effectiveness period of disinfection. By this way this material greatly reduces frequency and strength of disinfection operation.



- Advanced nano technology, patented coating, safe and reliable
- 99% antibacterial ratio, fast sterilizing ability
- Mould proof, deodorization, efficient and lasting
- Decompose HCHO, TOVC, purify air



We count with a big variety of doors designs, materials and colors, including the option of embedded double glass windows.



Steel Finished Door

Door panel: steel plate of door panel is made of cold rolled steel plate with stoving varnish on surface. The common colors are sky blue, sea blue and pale grey. Core materials are paper honeycomb, aluminum honeycomb, PU, EPS and etc. The installation sites of door lock, door closer and hinge are reinforced with square tubes of more than 1.5mm thickness which are compression moulded by special technology. The thickness of door panels is 50 (flush with door frame) or 40.

Door frame: it is made of cold rolled steel plate with stoving varnish on surface. The common colors are sky blue, sea blue and pale grey. The connection types with wallboards are double-clip type and aluminum connection. The former is applied mostly to machine made wallboard and the latter hand made wallboard.

Specification: common sizes 800X2100, 900X2100, 1500X2100 or 1800X2100, can customize to customers' requirements.

Features: beautiful appearance, sturdy and durable, reasonable price, one of the first choice of finished doors for color plate partition wall projects such as clean room and laboratory.



AL. frame CR-door With Large Window

AL. frame CR-door is produced by China's advanced processing equipments with good quality aluminium profile and double tempering glass. It is of high precision, beautiful appearance and thermal insulation. It is the first choice of foreign projects and advanced engineering projects.

Door panel: door panel applies the material of light white, powder coated or dull polished aluminium alloy Austar door. The steel plate of door panel is color plate and the common colors are sky blue, pea green and pale grey. Core materials are paper honeycomb, aluminum honeycomb, PU, EPS, rock wool and etc.

Door frame: apply the material of light white, powder coated or dull polished aluminium alloy Austar door. Only for hand made plate use.

Specification: standard sizes are 800X2100, 900X2100, 1500X2100 and 1800X2100. The size can also be made according to customers' requirements.

Features: high-end door for clean room is one of the most widely used doors for high-end clean rooms.





SUS Finished Door for Cleanroom

Door panel: door panel is made of stainless steel 304 with no frame. Core materials are paper honeycomb, aluminum honeycomb, PU, EPS and etc. The installation sites of door lock, door closer and hinge are reinforced with square tubes of more than 1.5mm thickness which are compression moulded by special technology.

Door frame: it is made of completely stainless steel 304. The connection types with wallboards are double-clip type and aluminum connection. The former is applied mostly to machine made wallboard and the latter hand made wallboard. The accessories are double window and lift type sweeping bar. The lock can be famous door lock or the owners can select lock brands themselves.

Specification: common sizes 800X2100, 900X2100, 1500X2100 or 1800X2100, can customize to customers' requirements, the materials can be selected according to customers' requirements such as 306L or other special materials.

Features: the stainless steel 304 door we produced are of elegant appearance, sturdy and durable, acid and rotting resistance and thermal insulation. It is the first choice for high-end projects at home and engineering concerning foreign affairs that requires for anticorrosion and high quality such as electronics factory and food factory



AL&SUS Frame Sliding Door

Door panel: door frame can be made of stainless steel, aluminium alloy or special box iron. The door panel is sandwich board. The common colors are sky blue, pea green and pale grey. Core materials are paper honeycomb, aluminum honeycomb, PU, EPS and etc. The installation sites of handle and guide rail pulley are reinforced with square tubes of more than 2mm thickness which are compression moulded by special technology.

Guide rail: aluminium alloy or hot-dip aluminizing;

Specification: customize to customers' requirements.

Features: good looking, low price.



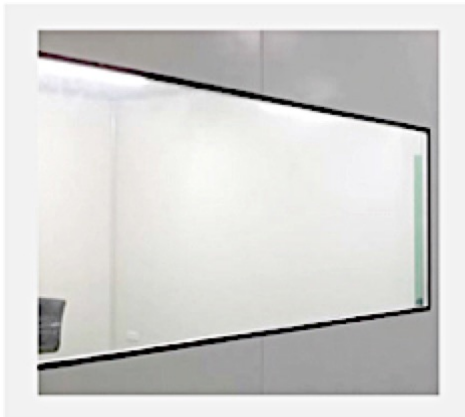
Cleanroom Windows

Manufactured under controlled environment, the cleanroom windows offer the best option for make the interior of the cleanroom visible. By design allows keeping the temperature and humidity of the room and counts with measures to avoid any contamination between the double layer glasses.



Single Glass Windows

Aluminium frame, 5-8mm single-layer tempered glass, simple structure, easy for mounting and dismantling, good airtightness, specially suitable for high level clean area. Holes for mounting tolerate low precision so opening holes at site is possible for facilitating mounting.



Double Glasses Window for Hand Made Plate

Frame: specialized aluminium alloy sections. Generally 3 types: light color, power coating and dull polish. It can also apply special folding steel pieces.

Glass: 5-6mmtoughened glass, black or white screen print on frame, 20~25 width

Interlayer: fill with nitrogen and desiccants

Specification: common sizes1180X1000 and 2363X1000, can customize to customers' requirements.

Features: beautiful appearance, no aluminium alloy frame can be seen on the surface, glass and plate on the same plane, concise, beautiful, the first choice for partition wall project of hand made plate.





Window With Power-driven Curtain

Built-in clean room window, first choice for workshop office, sliding type or shutter type.

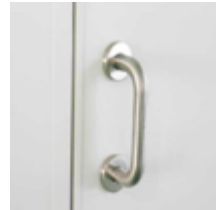




Lever Handle Lock



Round Handle Lock



C – Type Handle



Special GMP Lock



Auto Hinge



Special GMP Hinge



Stainless Steel Hinge



Electric Interlock

Door Closer



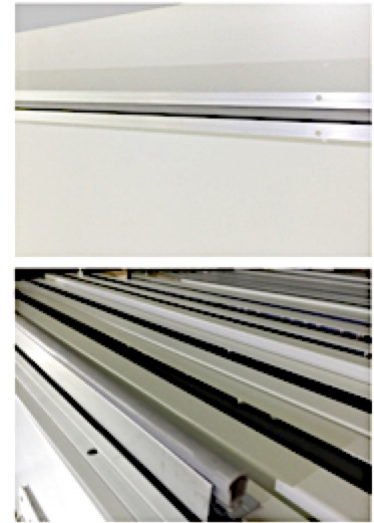
Lockset

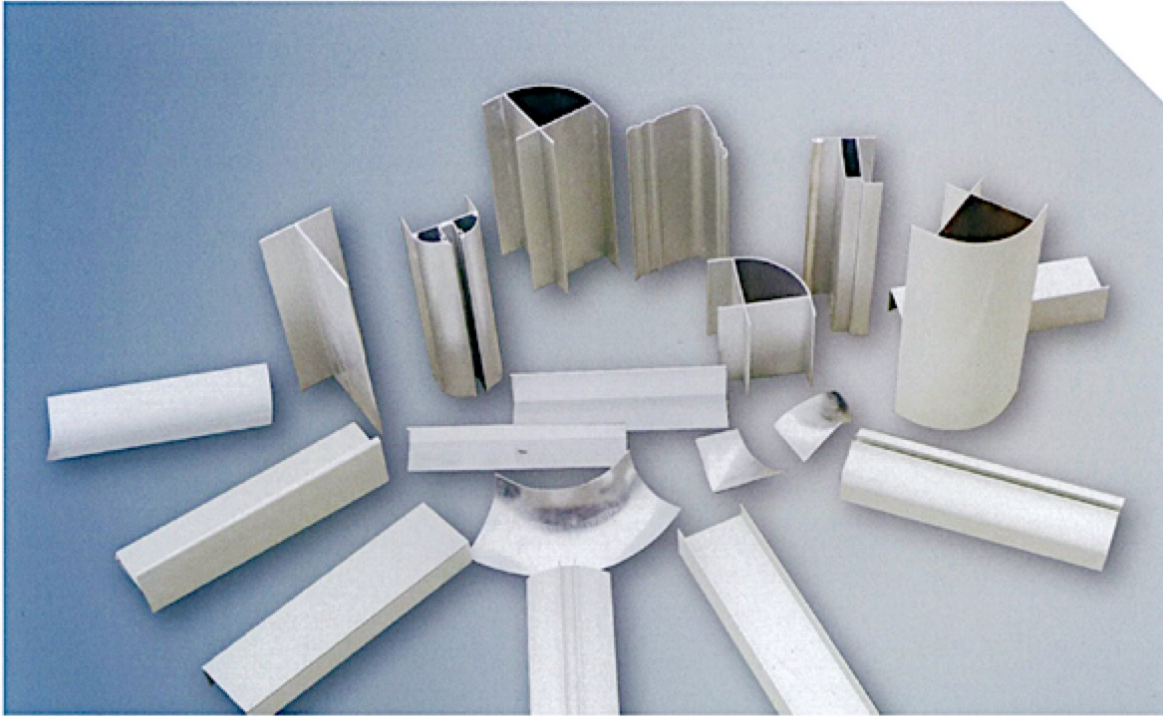


Hinge

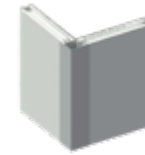


Ground Brush





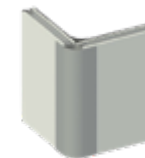
Aluminium profile is used for the setup of color plate partition, commonly used type include slot al, angle al, outer arc column al, inner arc column al, door & window al, T-shaped al, T-shaped beam, as well special al developed for certain new material.



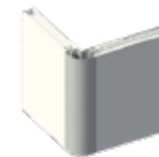
Vertical
Corner



Circular
Removable Corner

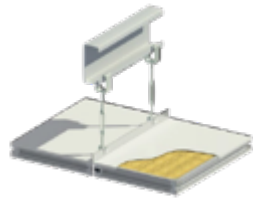


Circular
Corner

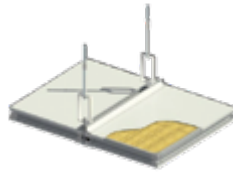


Circular
Flush Corner

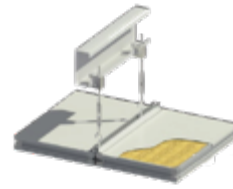




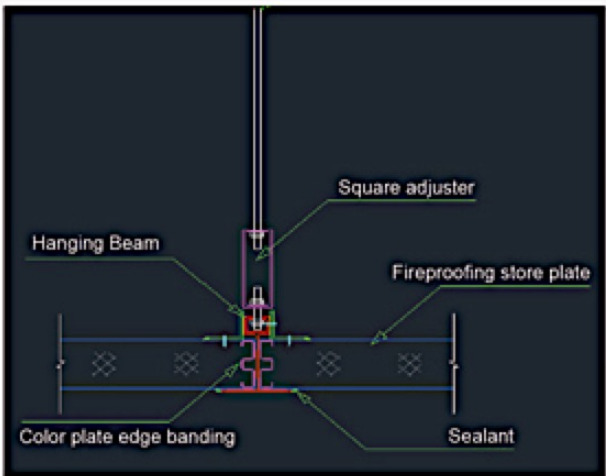

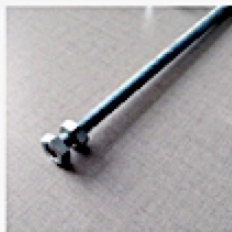

T – Grid Ceiling



I – Grid Ceiling



I – Grid Ceiling (hooks)

			
<p>Node Map for Ceiling Hoisting Assembly</p>	<p>Ceiling Hoisting Assembly</p>	<p>Ceiling Hoisting Assembly Fittings</p>	

Air Shower (People/Material)

Air shower decontaminates workers and product entering a cleanroom environment and effectively reduce particle load. Meanwhile it serves as air lock as well to prevent ingress of unclean air from outside and maintain the cleanliness in the cleanroom.



Model	AAS-1S-1290	AAS-1D-1400	AAS-1T-1400	AAS-2D-1400	AAS-3D-1400	AAS-1D-1590	AAS-2D-1590	AAS-3D-1590
Overall Size (L×W×Hmm)	1290×1000×2050	1400×1000×2180	1400×1000×2180	1400×2000×2180	1400×3000×2180	1590×1000×2050	1590×2000×2050	1590×3000×2050
Shower Area Size (L×W×Hmm)	790×866×1885	790×866×1885	790×866×1885	790×1866×1885	790×2866×1885	790×866×1885	790×1866×1885	790×2866×1885
Nozzle Air Speed	25-30m/s							
Nozzle Quantity	6	12	16	24	36	12	24	36
Shower Cycle	0-99s adjustable							
Fan Quantity	1	1	1	2	3	2	4	6
Main Cabinet Material	Cold-roll steel sheet, surface sprayed with plastic, matte white (other colors customizable)							
Door Material & Quantity	Sanding SUS single-door							
Door Interlock	Both doors locked during showering; normally electronically interlock allows only one door openable							
Power Supply	380V/50Hz							
Power	1.1KW	1.1KW	1.1KW	2.2KW	3.3KW	2.2KW	4.4KW	6.6KW
Applicable number of people	1-2	1-2	1-2	2-4	3-6	1-2	2-4	3-6



Model	AA S-1D-1810	AAS -2D-1810	AAS -1D-2000	AAS -2D-2000	AAS -2D-2300	AAS -3D-2300
Overall Size (L×W×Hmm)	1810× 1200× 2050	1810× 2000× 2050	2000× 1600× 2050	2000× 2000× 2050	2300× 2000× 2050	2300× 3000× 2050
Shower Area Size (L×W×Hmm)	1200× 1066× 1850	1200× 1866× 1850	1200× 1466× 1980	1200× 1866× 1980	1500× 1866× 1980	1500× 2866× 1980
Nozzle Air Speed	25-30m/s					
Nozzle Quantity	16	24	22	24	24	36
Shower Cycle	Initial setting as 15s, 0-99s adjustable					
Fan Quantity	1	2	2	4	4	6
Main Cabinet Material	Cold-roll steel sheet, surface sprayed with plastic, matte white (other colors customizable)					
Door Material & Quantity	Sanding SUS single-door					
Door Interlock	Both doors locked during showering; normally electronically interlock allows only one door openable					
Power Supply	380V/50Hz					
Power	1.1KW	2.2KW	2.2KW	4.4KW	4.4KW	6.6KW





Standard Pass Box

Stainless steel made equipment. Maintains the cleanroom or critical area at highly cleanliness leveling by eliminating personnel move in and out of the area.

Self Purification Pass Box

Automatic equipment that additional to its main purpose of avoiding unnecessary personnel movement, also allows auto purification of the internal area.



Clean Bench

Clean bench is classified into vertical and horizontal laminar flow type under both of which 9 categories (such as standard, medical type, novel type, separation & insertion type, desktop type, biotype, etc.) and 30 models are further formed and applied as per various function and features in the field of medical & health, electrical machinery, instrumentation, pharmaceutical products, plant tissue culture, biological engineering, animal husbandry and veterinary medicine, and in tertiary institutions and various types of laboratories.





Lamps

Suitable for energy efficient lighting in hospital, operating room, laboratory, pharmaceutical workshop, electronic equipment workshop, food factory dust-free workshop;

Seamless joint, good sealing, convenient maintenance, anti-interference;

Dust proof, easy to clean;

Anticorrosive, anti-explosive, anti-rust.

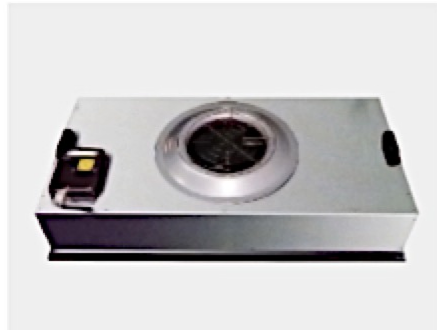


Entrance Guard Interlock

Also known as AB door control system or linkage door control system;

Double door interlock: simultaneous opening of both doors are not allowed;

Upgraded interlock system allows limiting door's opening by monitoring actions of either door's lock without detecting actual door opening, which improve the security.



Fan Filter Units (FFU)

FFU, which can be connected for use by modularization, is broadly applied to clean room, clean operating platform, clean production line, compositional clean room, partial 100 level occasion and etc. The fan takes in air from top of FFU and then the clean air is sent out from entire air outside evenly at a wind speed of 0.45m/s±20% after filtered by primary efficiency filter or high efficiency filter.



Lever Handle Lock



Round Handle Lock



C - Type Handle



Special GMP Lock



Auto Hinge



Special GMP Hinge



Stainless Steel Hinge



Electric Interlock



HVAC Systems

We are able to provide all the systems related to heat, ventilation and air conditioning for controlled areas. Chillers, heat pumps, air handler units, dehumidifiers, HEPA boxes, FFU, diffusers, air ducts, etc.

