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CHEMBI LABORATORIES

CONTENT

FLOOR STANDING LAB BENCH

Floor standing lab bench is consisted of cabinet body, connecting beam, countertop, adjustable feet ect. It is placed directly on the ground. Compared with other types of laboratory benches (such as suspended or modular laboratory benches), the floor standing design enables it to better withstand heavier experimental equipment and a large number of experimental supplies,It has higher stability and higher space utilization and plays an important role in laboratory layout. The load bear ability is above700 pounds per meter.

ADVANTAGE

Dust proof

Strong and durable

Excellent bear ability

Low cost and customized

Excellent bear ability with more 700 pounds per meter

AVAILABLE TOP

Solid phenolic resin board

Adopts 12.7mm imported solid phenolic resin board with edges thickened to 25.4mm, rounded and polished, in line with ergonomic design. The board is acid and alkali resistant, corrosion resistant, impact resistant, and tough, suitable for high-intensity experimental settings. 16mm, 19mm and 25mm thickness is also available.

Trespa

13mm / 20mm thick TRESPA laboratory top is imported from the Netherlands. The edges are rounded and polished, adhering to ergonomic design. Trespa exhibits features like impact resistance, acid and alkali resistance, corrosion resistance, scratch resistance, easy cleaning, UV resistance, and anti-static properties, making it suitable for high-standard laboratory environments.

Epoxy resin board

15mm / 16mm / 19mm / 25mm Epoxy resin board is formed by one-time molding of epoxy resin, quartz sand, curing agent and pigment. It has characteristics such as high temperature resistance, 24-hour super corrosion resistance, absolute moisture resistance and repairability. It performs excellently under extremely harsh experimental conditions and is suitable for high temperature and high corrosion experimental environments.

Ceramic

15mm / 20mm ceramic main component is natural silicate. Treated with special German-imported corrosion-resistant glaze and calcined at 1250°C by a special process. It has stable properties, non-flammable, excellent flame retardancy, strongest corrosion resistance, better scratch resistance than stone, can withstand 600°C long-term and 1500°C extreme high temperatures, no moisture absorption or deformation, extremely long service life.

FLOOR STANDING LAB BENCH

SPECIFICATION

Cabinet: Full 1.0mm thick cold-rolled steel plate is finely crafted via cutting, bending, welding, stamping, and polishing. The surface is treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance. To make thickness reach to 1.1mm - 1.2mm. This treatment method makes the body has good corrosion resistance and stability ability.

Connecting beam: 30*60*1.5mm thickness strong cold-rolled steel front beam, 16*100*1.5mm thickness cold rolled steel back beams. The surface is treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance.

Back panel: 1.0mm thick high-quality cold-rolled steel plate is used as the base material, and the surface is phosphated, pickled, epoxy resin powder paint treated, and chemically rust-proofed. It also adopts a movable structure and is installed with embedded nuts. It is easy to disassemble and assemble, and is convenient for the maintenance of water, electricity, gas and other pipelines.

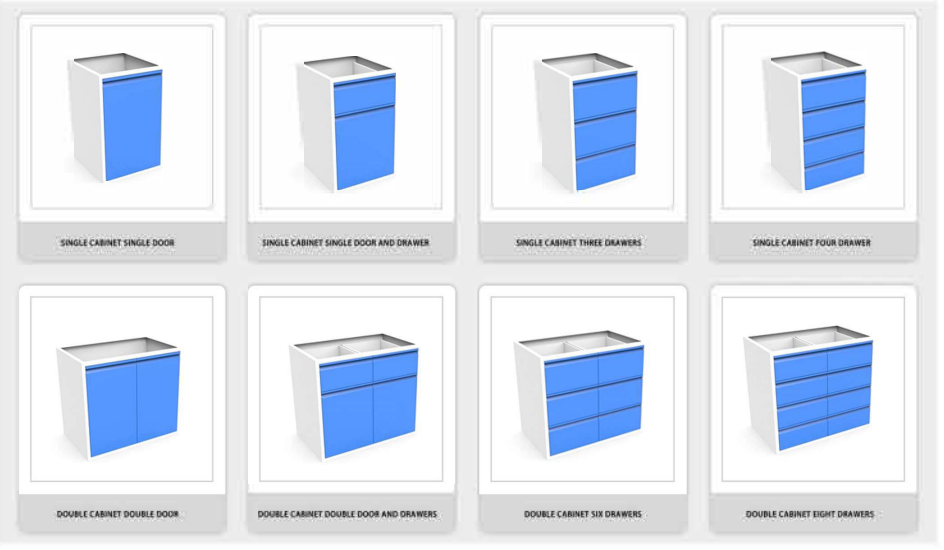
Handle: Non-welded one line handle/C-shaped handle/Insertion Aluminum alloy handle/ U-shaped handle.

Slide: DTC 18 inch double fold full pull-out with positioning and anti slip protection silence slide, with 45kgs bear ability.

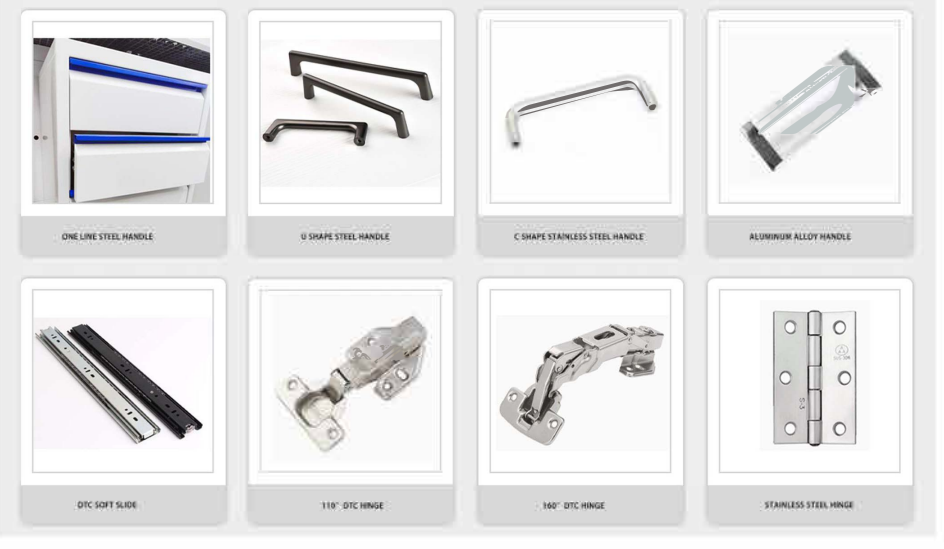
Hinge:Using high-quality alloy hinges with an opening degree of 110 °. (Pulling bolt hinge: Using a φ 5 galvanized alloy rod, nylon sheath, and φ 6 spring pulling bolt hinge, concealed installation, to maintain the overall appearance of the door panel and avoid corrosion caused by direct contact with acidic and alkaline solutions.)

Footing: Stainless steel/nylon adjustable feet with 30mm adjustable height range, it has primary shock absorption function and good load-bearing capacity.

VARIOUS UNDERNEATH CABINET



VARIOUS HARDWARE ACCESSORIES



FLOOR STANDING LAB BENCH

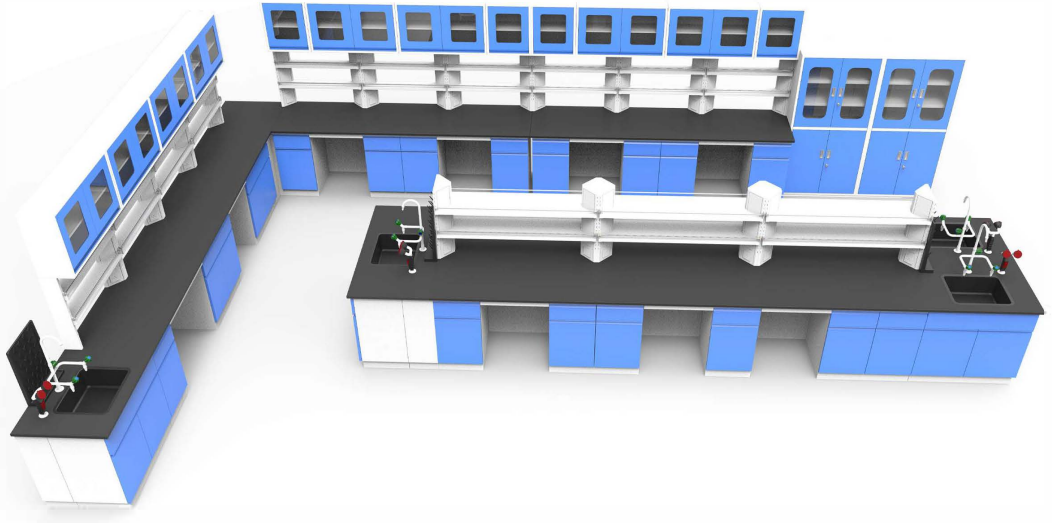
DIMENSIONS

ITEM	WALL BENCH	ISLAND BENCH	SINK BENCH
DIMENSIONS (L*D*H)	L*600*850 MM	L*1200*850 MM	900*750*850 MM
DIMENSIONS (L*D*H)	L*750*850 MM	L*1500*850 MM	1200*750*850 MM
DIMENSIONS (L*D*H)	L*600*900 MM	L*1200*900 MM	900*750*900 MM
DIMENSIONS (L*D*H)	L*750*900 MM	L*1500*900 MM	1200*750*900 MM
DIMENSIONS (L*D*H)	CUSTOMIZED	CUSTOMIZED	CUSTOMIZED

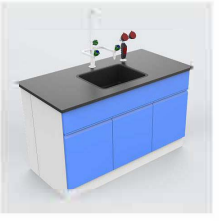
PICTURE SHOW

Floor standing lab bench size is customized according lab room size and layout. Bench can equip with sink and water tap, pegboard, deck mounted eye washer, reagent shelf, sockets, wall cupboard, deck mounted arm exhaustor ect various lab service fitting.

Whole lab normally can equip with wall bench, island bench, wall cupboard, sink cabinet, storage cabinet, anti vibration table, fume hood ect various lab furniture following lab type.



WALL / ISLAND / WATER BENCHES








STEEL COLORS

Cabinet body, door and drawer, handlle can be different color, various color is available, if quanity is big can custom color.

FLOOR STANDING LAB BENCH

PICTURE DISPLAY

Different color lab furniture combination display

Can select different color countertop, cabinet body, door and dawer, handle color












SUSPENDED LAB BENCH

The cabinets of the suspended lab bench are hung on the floor-standing metal frame, the metal frame shape is in the form of C or H. which has good moisture-proof performance. The countertop is supported by the metal frame, and the independent cabinets can be rearranged according to requirements without affecting other parts of the lab bench system.

C-FRAME structure is simple, flexible and versatile, and can be combined freely; It can be equipped with suspended cabinet and push cabinet structures for easy installation and disassembly, which is beneficial for laboratory cleaning work

H-shaped is dignified and elegant, with good load-bearing performance to meeting the requirements for the use of large precision instruments.

AVAILABLE TOP

Solid phenolic resin board

Adopts 12.7mm imported solid phenolic resin board with edges thickened to 25.4mm, rounded and polished, in line with ergonomic design. The board is acid and alkali resistant, corrosion resistant, impact resistant, and tough, suitable for high-intensity experimental settings. 16mm, 19mm and 25mm thickness is also available.

Trespa

13mm / 20mm thick TRESPA laboratory top is imported from the Netherlands. The edges are rounded and polished, adhering to ergonomic design. Trespa exhibits features like impact resistance, acid and alkali resistance, corrosion resistance, scratch resistance, easy cleaning, UV resistance, and anti-static properties, making it suitable for high-standard laboratory environments.

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Ceramic

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SUSPENDED LAB BENCH

SPECIFICATION

Frame: 40*60*1.5mm thickness cold rolled steel rectangle tube treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance C or H frame

Connecting beam: 30*60*1.5mm thickness strong cold-rolled steel front beam. The surface is treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance.

Back panel: 1.0mm thick high-quality cold-rolled steel plate is used as the base material, and the surface is phosphated, pickled, epoxy resin powder paint treated, and chemically rust-proofed. It also adopts a movable structure and is installed with embedded nuts. It is easy to disassemble and assemble, and is convenient for the maintenance of water, electricity, gas and other pipelines.

Handle: Non-welded one line handle/C-shaped handle/Insertion Aluminum alloy handle/ U-shaped handle.

Slide: DTC 18 inch double fold full pull-out with positioning and anti slip protection silence slide, with 45kgs bear ability.

Hinge:Using high-quality alloy hinges with an opening degree of 110 °. (Pulling bolt hinge: Using a φ 5 galvanized alloy rod, nylon sheath, and φ 6 spring pulling bolt hinge, concealed installation, to maintain the overall appearance of the door panel and avoid corrosion caused by direct contact with acidic and alkaline solutions.)

Footing: Stainless steel/nylon adjustable feet with 30mm adjustable height range, it has primary shock absorption function and good load-bearing capacity.

UNDERNEATH CABINET MATERIAL

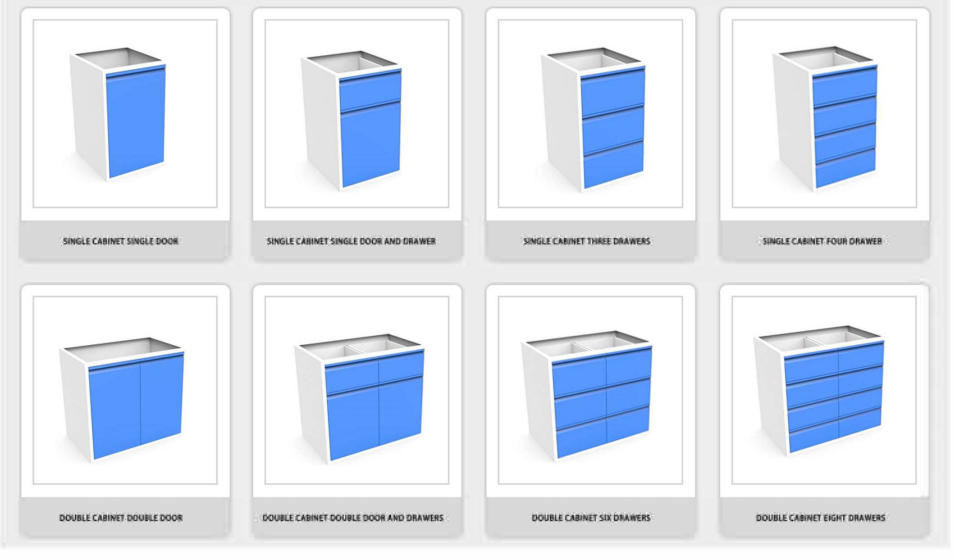
Steel cabinet

Full 1.0mm thick cold-rolled steel plate is finely crafted via cutting, bending, welding, stamping, and polishing. The surface is treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance. To make thickness reach to 1.1mm - 1.2mm. This treatment method makes the body has good corrosion resistance and stability ability.

Option MDF Wood Cabinet Unit

Use E1 grade 18mm thickness double-sided high-quality environmentally friendly melamine door & drawer panel and 15mm thickness main body; all edges are treated with 2mm thickness high-quality PVC sealing for waterproofing, and all panels are connected by detachable three-in-one connection. It has a stable structure, good load-bearing performance and is easy to dismantle, which is conducive to use in the special working environment of the laboratory.

VARIOUS UNDERNEATH CABINET



SUSPENDED LAB BENCH

DIMENSIONS

ITEM	WALL BENCH	ISLAND BENCH	SINK BENCH
DIMENSIONS (L*D*H)	L*600*850 MM	L*1200*850 MM	900*750*850 MM
DIMENSIONS (L*D*H)	L*750*850 MM	L*1500*850 MM	1200*750*850 MM
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DIMENSIONS (L*D*H)	CUSTOMIZED	CUSTOMIZED	CUSTOMIZED

PICTURE SHOW

Suspended lab bench size is customized according lab room size and layout. Bench can equip with sink and water tap, pegboard, deck mounted eye washer, reagent shelf, sockets, wall cupboard, deck mounted arm exhaustor ect various lab service fitting.

Whole lab normally can equip with wall bench, island bench, wall cupboard, sink cabinet, storage cabinet, anti vibration table, fume hood ect various lab furniture following lab type.

ADVANTAGE

· Contemporary design and distinctive structure.

· The structure is uncomplicated, flexible and variable, allowing for free combinations.

· Options are available among structures without cabinets, suspended cabinets and mobile cabinets.

· It is easy to clean, with sufficient space between the cabinets and the floor.

· It has excellent moisture resistance.

· It features a basic shock absorption function, and the load-bearing capacity can exceed 600 pounds per meter.

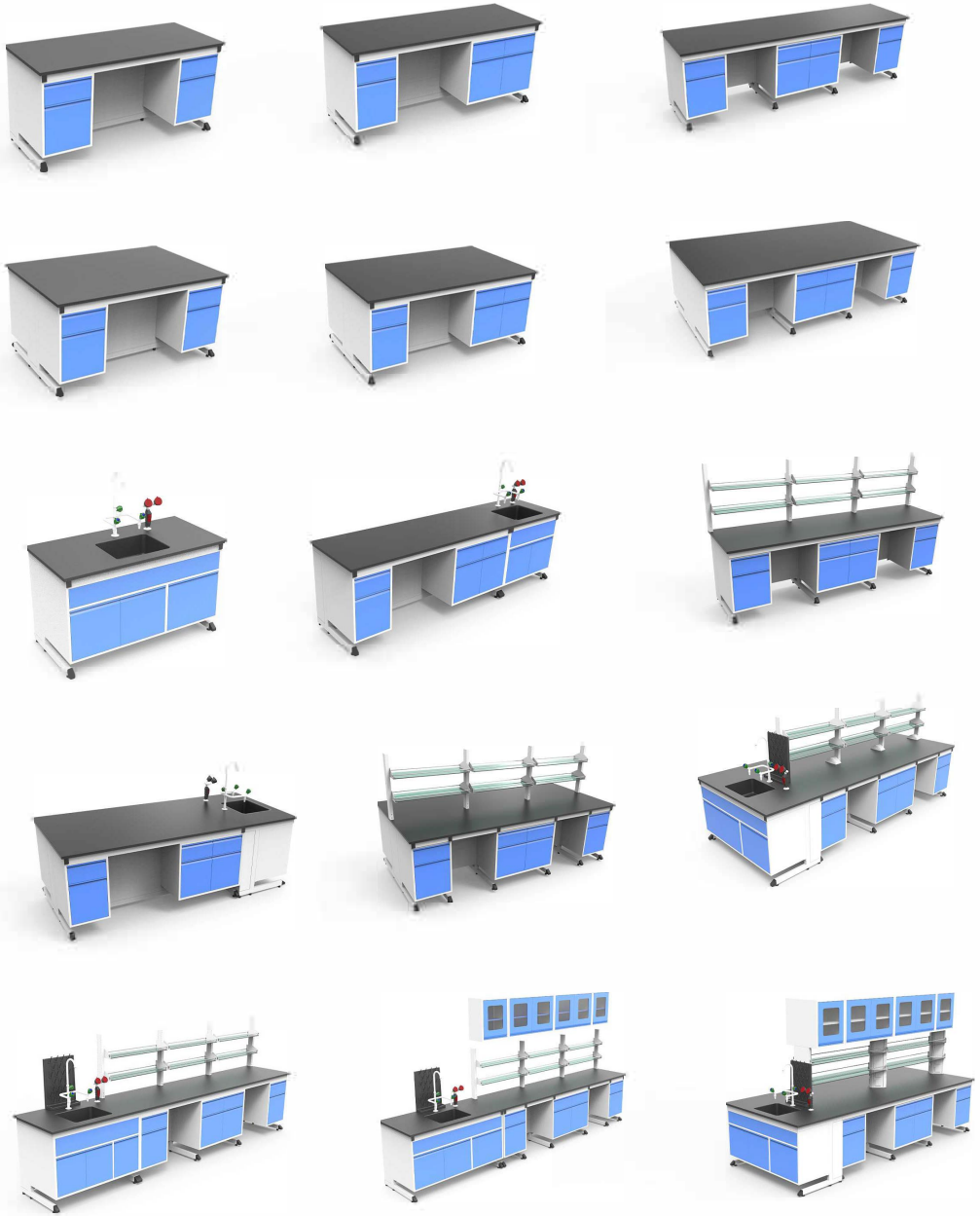
· The upper and lower cabinet units can be moved, added or removed as per the requirements of the laboratory without impacting the remaining parts of the bench system.

STEEL COLORS

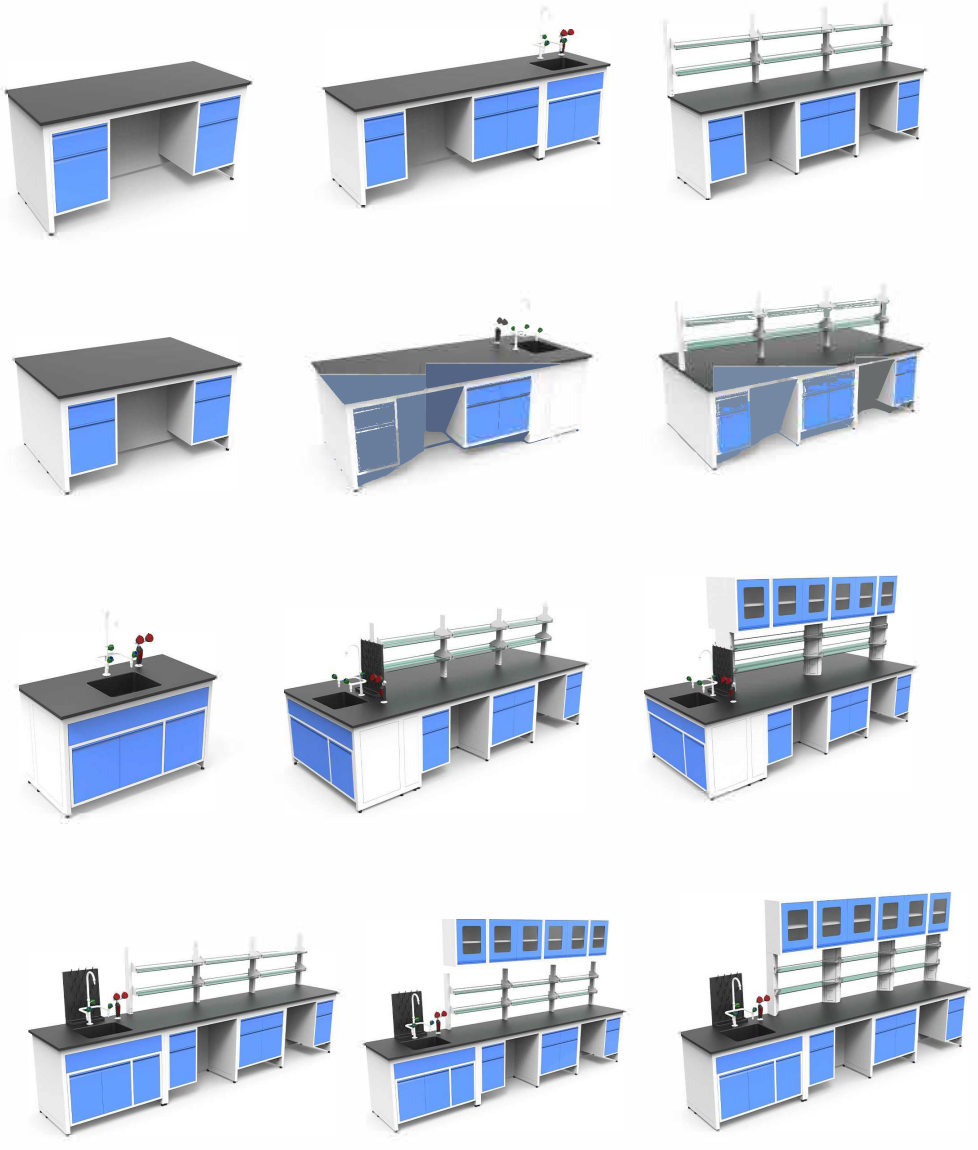
Cabinet body, door and drawer, handlle can be different color, various color is available, if quanity

SUSPENDED LAB BENCH

C FRAME SUSPENDED LAB BENCH



H FRAME SUSPENDED LAB BENCH



SUSPENDED LAB BENCH

PICTURE DISPLAY

Different color lab furniture combination display.

Can select different color countertop, cabinet body, door and dawer, handle color.











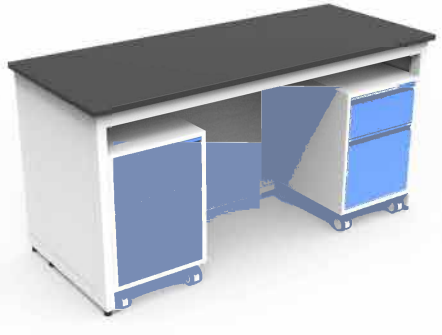





MODULAR MOBILE LAB BENCH

The modular mobile lab bench is composed of a countertop, steel frame, cabinet and wheels. Generally there are two common types of steel frames: H-shaped and C-shaped. One configuration is fixed steel frame with mobile cabinet, and the other configuration is that the steel frame is equipped with movable wheels. The cabinet can be hung on the steel frame and moved together, or cabinet with wheels to move separately too. There are a variety of styles available, ensuring ease of use and flexibility. The layout can be changed as the laboratory develops. It is the development trend of future experiments.

H-shaped is dignified and elegant, with good load-bearing performance to meeting the requirements for the use of large precision instruments.



AVAILABLE TOP

Solid phenolic resin board

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Trespa

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Ceramic

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MODULAR MOBILE LAB BENCH

SPECIFICATION

Frame: 40*60*1.5mm thickness cold rolled steel rectangle tube treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance C or H frame

Connecting beam: 30*60*1.5mm thickness strong cold-rolled steel front beam. The surface is treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance.

Back panel: 1.0mm thick high-quality cold-rolled steel plate is used as the base material, and the surface is phosphated, pickled, epoxy resin powder paint treated, and chemically rust-proofed. It also adopts a movable structure and is installed with embedded nuts. It is easy to disassemble and assemble, and is convenient for the maintenance of water, electricity, gas and other pipelines.

Handle: Non-welded one line handle/C-shaped handle/Insertion Aluminum alloy handle/ U-shaped handle.

Slide: DTC 18 inch double fold full pull-out with positioning and anti slip protection silence slide, with 45kgs bear ability.

Hinge:Using high-quality alloy hinges with an opening degree of 110 °. (Pulling bolt hinge: Using a φ 5 galvanized alloy rod, nylon sheath, and φ 6 spring pulling bolt hinge, concealed installation, to maintain the overall appearance of the door panel and avoid corrosion caused by direct contact with acidic and alkaline solutions.)

Footing: Stainless steel/nylon adjustable feet with 30mm adjustable height range, it has primary shock absorption function and good load-bearing capacity.

UNDERNEATH CABINET MATERIAL

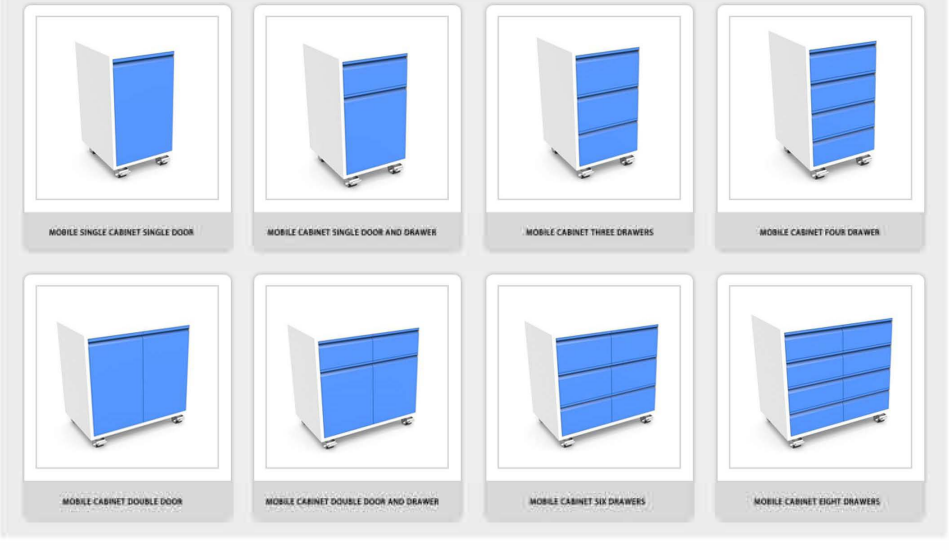
Steel cabinet

Full 1.0mm thick cold-rolled steel plate is finely crafted via cutting, bending, welding, stamping, and polishing. The surface is treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance. To make thickness reach to 1.1mm - 1.2mm. This treatment method makes the body has good corrosion resistance and stability ability.

Option MDF Wood Cabinet Unit

Use E1 grade 18mm thickness double-sided high-quality environmentally friendly melamine door & drawer panel and 15mm thickness main body; all edges are treated with 2mm thickness high-quality PVC sealing for waterproofing, and all panels are connected by detachable three-in-one connection. It has a stable structure, good load-bearing performance and is easy to dismantle, which is conducive to use in the special working environment of the laboratory.

VARIOUS UNDERNEATH CABINET



MODULAR MOBILE LAB BENCH

DIMENSIONS

ITEM	WALL BENCH	ISLAND BENCH	SINK BENCH
DIMENSIONS (L*D*H)	L*600*850 MM	L*1200*850 MM	900*750*850 MM
DIMENSIONS (L*D*H)	L*750*850 MM	L*1500*850 MM	1200*750*850 MM
DIMENSIONS (L*D*H)	L*600*900 MM	L*1200*900 MM	900*750*900 MM
DIMENSIONS (L*D*H)	L*750*900 MM	L*1500*900 MM	1200*750*900 MM
DIMENSIONS (L*D*H)	CUSTOMIZED	CUSTOMIZED	CUSTOMIZED

PICTURE SHOW

Modular mobile lab bench size is customized according lab room size and layout. Bench can equip with sink and water tap, pegboard, deck mounted eye washer, reagent shelf, sockets, wall cupboard, deck mounted arm exhaustor ect various lab service fitting.

Whole lab normally can equip with wall bench, island bench, wall cupboard, sink cabinet, storage cabinet, anti vibration table, fume hood ect various lab furniture following lab type.

ADVANTAGE

Flexibility: Users can adjust modules according to laboratory needs and space, enabling a variety of experiments. This adaptability allows for customization to meet research demands.

Scalability: Labs can add or replace modules for upgrades, maintaining technological edge and increasing long-term value.

Efficiency: Quick assembly of components improves work efficiency, letting researchers focus on experiments rather than setup.

Space Optimization: Users optimize module setups, considering space limitations, to make efficient use of available space.

Easy Maintenance & Replacement: Independent modules simplify upkeep and replacement. Malfunctions or upgrades can be handled without disrupting the whole lab.

Multifunctionality: The modular platform supports diverse experiments. Its independent modules can be configured for different setups and research goals.

STEEL COLORS

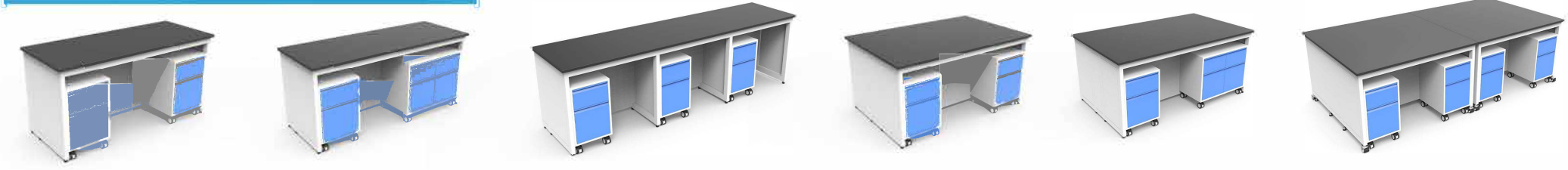
Cabinet body, door and drawer, handlle can be different color, various color is shown as below

MODULAR MOBILE LAB BENCH

FIXED C FRAME MODULAR MOBILE LAB BENCH

MOVABLE C FRAME MODULAR MOBILE LAB BENCH

FIXED H FRAME MODULAR MOBILE LAB BENCH

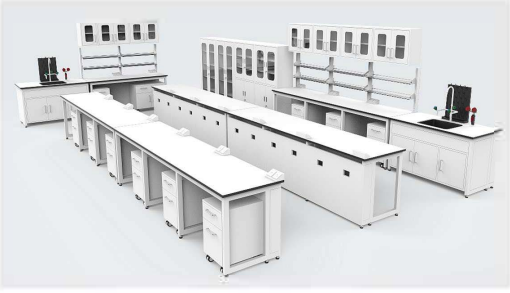


MOVABLE H FRAME MODULAR MOBILE LAB BENCH

PICTURE DISPLAY

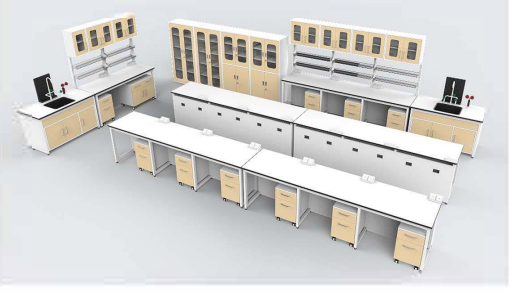
Different color lab furniture combination display.

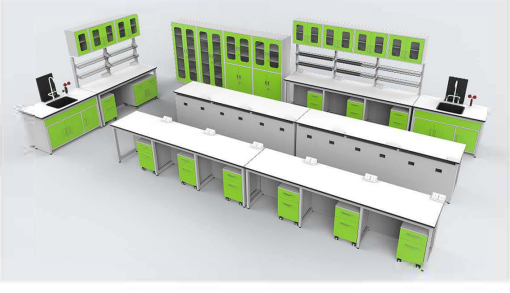
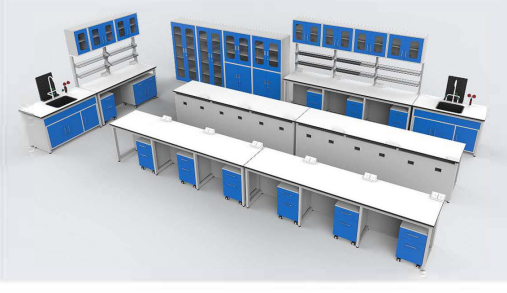
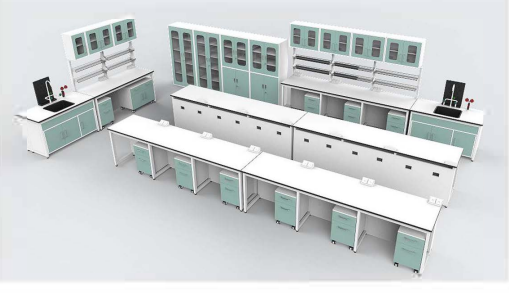
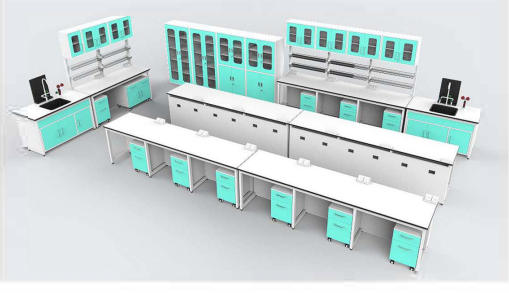
Can select different color countertop, cabinet body, door and dawer, handle color.









PP LAB BENCH

Polypropylene (PP) is a high-performance thermoplastic synthetic resin, which is a colorless, semi transparent thermoplastic lightweight universal plastic. It has chemical resistance, heat resistance, electrical insulation, high-strength mechanical properties, and good high wear resistance processing performance.

ADVANTAGE

It is resistant to strong acids, alkali and chemical corrosion.

It reduces environmental pollution and protects the health of users.

The cabinet adopts one-piece molding and seamless welding technology, which greatly enhances the structural properties of the cabinet and effectively reduces the deformation of the cabinet caused by thermal expansion and contraction.

Moisture and water proof, never rust and long lifetime

AVAILABLE TOP

Solid phenolic resin board

Adopts 12.7mm imported solid phenolic resin board with edges thickened to 25.4mm, rounded and polished, in line with ergonomic design. The board is acid and alkali resistant, corrosion resistant, impact resistant, and tough, suitable for high-intensity experimental settings. 16mm, 19mm and 25mm thickness is also available.

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PP LAB BENCH

SPECIFICATION

Cabinet: 8mm porcelain white PP (polypropylene) plate is welded with the same color and quality welding rod. Excellent acid and alkali resistance, and good weather resistance.

Drawer: 8mm porcelain white PP (polypropylene) plate is welded, full PP guide rail.

Handle: Made of PP material by injection molding, good corrosion resistance, beautiful appearance and a variety of colors are available.

Hinge: Made of PP material by injection molding, good corrosion resistance, beautiful appearance and a variety of colors are available.

Adjustment feet: The cabinet comes with 4 adjustment feet as standard, which can be well fixed and placed even if the ground is not flat.

APPLICATION

Due to its excellent corrosion resistance, chemical stability and easy-to-clean properties, PP laboratory benches are suitable for many types of laboratories. In chemical laboratories, whether it's for organic synthesis or inorganic analysis, they can be used stably when facing strong acids and alkalis. In biological laboratories, such as in cell culture and molecular biology research, they can prevent the growth of microorganisms and resist the erosion of biological reagents. In food laboratories, they are used for food component detection and research on food processing techniques to ensure hygiene and safety. In pharmaceutical laboratories, during the processes of drug research and development and testing, they can prevent drugs from being contaminated. There are also environmental monitoring laboratories for analyzing various samples, materials laboratories for researching the properties of materials, and some special ones like trace metal analysis, metallurgy, clean room, pathology, blood science, battery acid factory, electroplating, sewage treatment, solar energy equipment, specialized labs nuclear chemistry laboratories and marine chemistry laboratories that are often equipped with PP laboratory benches as well.

STAINLESS STEEL LAB BENCH

304 and 316 stainless steel is common material of lab bench. 304 stainless steel is suitable for general chemical experimental environments, while 316 stainless steel contains more molybdenum (Mo) elements and performs better in corrosion resistance, especially suitable for experimental environments containing highly corrosive substances such as chlorides.

Stainless steel lab bench generally includes countertop, cabinet, and frame. The countertop is the main area for experimental operations, It is flat and smooth, . To prevent liquid from accumulating on the countertop, the edges of the countertop usually have a certain curvature or are equipped with water buffer edges. The cabinet is used to store experimental supplies, such as reagent bottles, small instruments, etc. The cabinet door is usually connected by stainless steel hinges, which are easy to open and close, and have good sealing to prevent dust and chemical gases from entering the interior of the cabinet. The frame part plays a role in supporting the tabletop and cabinet. It is made of sturdy 40*40*1.2MM stainless steel tube, which can withstand large weights and ensure the stability of the lab bench when placing heavy instruments.

SPECIFICATION

Frame

40*40*1.2mm stainless steel tube are stamped, bent, welded, and polished to a smooth transition. The welding points is free of burrs and false welding, and the outer surface of the welding joint does not have significant difference from the original surface

Countertop

1.0mm thickness 304 # or 316L stainless steel plates, inner with reinforcement plates to 20mm thickness. Surface is flat and smooth with good welding quality.

Cabinet

Double-layer 1.0mm thickness 304 or 316 stainless steel, inner with sound absorption material.

Feet

Made of nylon die-casting stainless steel screw material, with load-bearing, moisture-proof, rust proof, anti slip, antibacterial, corrosion-resistant and other characteristics. The height of the cabinet can be adjusted to 30-50mm according to the indoor floor. Wear resistant rubber universal activity wheels with brakes can also be selected for easy movement and fixation of the lab bench.

Hardware accessories

Handle: Non-welded one line handle/C-shaped handle/Insertion stainless steel handle / U-shaped handle

Hinges: 304 stainless steel hinge or DTC soft hinge

Guide rail: DTC 18 inch double fold full pull-out with positioning and anti slip protection silence rail, with 45kgs bear ability.

STAINLESS STEEL LAB BENCH

FEATURES

Material Performance

Corrosion Resistance: Resistant to various corrosive substances like acids, alkalis and solvents, suitable for corrosive reagent environments and prolonging service life.

High Temperature Resistance: Can endure high temperatures without deformation, ensuring stability and safety for heated experiments.

High Strength: Withstands heavy weights and impacts, protecting experimental apparatus.

Cleaning and Maintenance

Easy to Clean: Smooth surface, not prone to dirt or bacteria, zero water absorption. Modular design for easy disassembly and cleaning, maintaining laboratory hygiene.

Safety and Hygiene

Hygienic & Environmentally Friendly: Doesn't breed bacteria, free of toxic substances and radiation, suitable for high-hygiene labs.

Appearance and Durability

Aesthetic & Durable: Simple and modern look, wear-resistant and long-lasting.

Functional Design

Multi-functional: Multiple drawers, doors and adjustable shelves for storage. With power and gas interfaces for equipment connection.

User-friendly: Adjustable height and angle for operator comfort and efficiency.

Stability

Stable Structure: The overall structure is solid and stable. With high-quality stainless steel materials and excellent manufacturing techniques, it ensures that the laboratory bench will not shake or deform during long-term use, providing a reliable platform for experimental operations.

Fire Resistance

Fireproof and Flame Retardant: Stainless steel itself has certain fireproof performance and is not easy to burn, which can reduce the fire risk and improve safety in laboratories and other places.

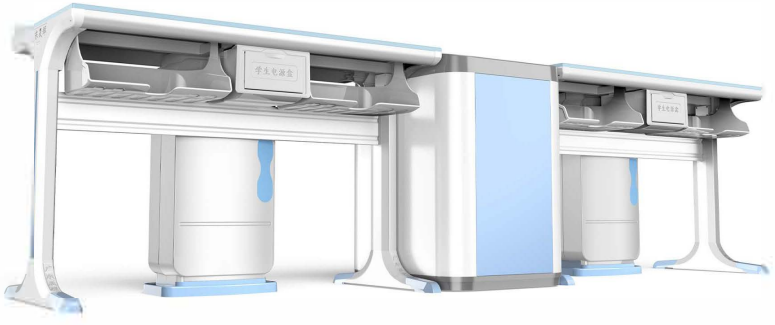
Adaptability

Wide Range of Applications: It is widely used in experimental operations in multiple fields such as chemistry, biology, medicine, environmental monitoring, food science and industry, and can adapt to various types of experimental requirements.

PICTURE

PRIMARY SCHOOL LAB BENCH

The primary and secondary school lab bench is a functional table designed specifically for experimental teaching in primary and secondary schools. It is one of the basic equipment in the laboratory, providing an operating platform for students to conduct experiments in subjects such as physics, chemistry, and biology. It can help students better carry out experimental activities and understand and verify scientific knowledge in practice.



ADVANTAGE

High Safety

Safe Materials: The materials used for middle and primary school laboratory tables are non - toxic and environmentally friendly, preventing the release of harmful substances. The edges and corners are rounded, and the structure is stable, which can prevent students from being injured due to collisions or tipping. The power sockets are equipped with waterproof covers and leakage - protection devices to prevent electrical accidents.

STRONG FUNCTIONALITY

Reasonable Desktop Layout: The desktop space is well - laid - out, and the height is suitable for operations.

Sinks: There are sinks for cleaning experimental apparatuses and disposing of waste liquids.

Reagent Racks: Reagent racks make it convenient to store and access reagents.

Drawers and Cabinets: Drawers and cabinets are used to store experimental supplies and usually have locks for management.

GOOD DURABILITY

Durable Desktop: The desktop materials are wear - resistant, corrosion - resistant, high - temperature - resistant and have strong anti - damage capabilities.

Sturdy Table Body: The table body materials are solid. After treatment, they can resist moisture, impact and deformation.

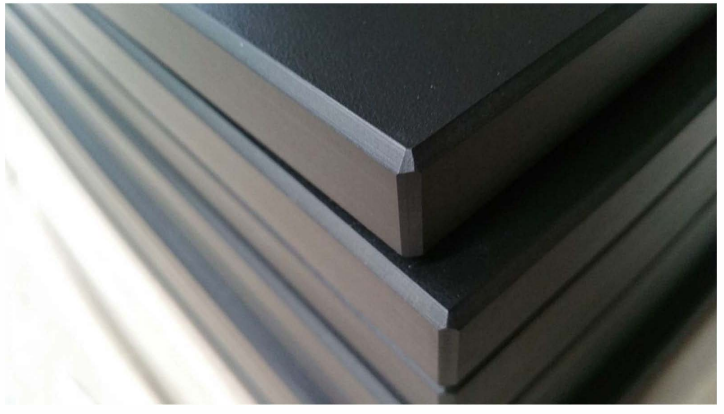
WIDE EDUCATIONAL ADAPTABILITY

Suitable for Multiple Subjects: It is applicable to experiments in multiple subjects such as physics, chemistry and biology.

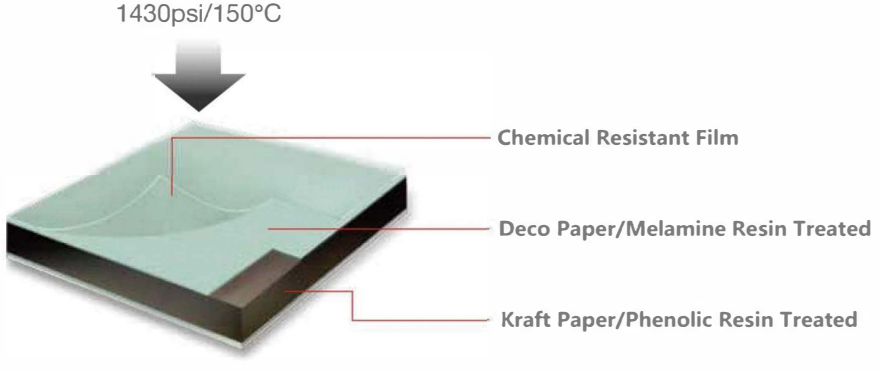
Fit for Multiple Teaching Modes: It matches well with various teaching modes such as group - work, demonstration and inquiry - based teaching.

PHENOLIC RESIN COUNTERTOP

Phenolic Resin countertop is high-performance board used for laboratory tabletops and other places. It has a solid interior and is made by impregnating kraft paper or wood fibers with phenolic resin and then hardening them under the conditions of about 140 - 150 degrees Celsius and around 7 - 10 MPa, the resin solidifies, tightly bonding the fibers into a solid whole.. It has good physical and chemical properties.



COMPOSITION



① Chemical-resistant Film: EBC electron beam curing for resistance.

② Decorative paper: melamine resin treated. Core: phenolic resin-impregnated kraft papers.

③ Bonding: over 1430 psi at ~300°F (150°C).

ADVANTAGE

Excellent chemical stability: Ether bonds in epoxy resin ensure stability.

Good mechanical properties: Benzene rings in epoxy resin enhance mechanical and heat resistance of cured material.

Excellent molding processability: Unsaturated acid double bonds in polyester part provide conditions for free radical addition polymerization, simplifying molding.

Impact resistance: High-pressure kraft paper & phenolic resin make panel strong.

High temperature resistance: Solid core board's surface has strong protection against burning cigarettes, is flame retardant and won't melt or explode.

Scratch resistance: Special surface structure endows it with good scratch resistance.

Wear resistance: Strong wear resistance, suitable for places with heavy objects or frequent cleaning.

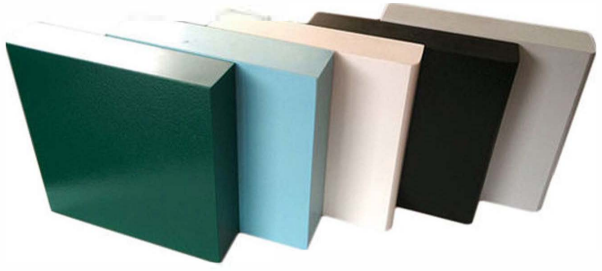
Easy to clean: Tight and non-permeable surface makes dust hard to adhere, and can be easily cleaned with solvents without fading.

Multiple colors: Special material allows customization.

Multiple thicknesses: Produced in various (12.7, 14.6, 16, 19, 25mm) for choice.

EPOXY RESIN COUNTERTOP

The epoxy resin countertop is a kind of worktop material specially used in laboratories. It is mainly formed by mixing epoxy resin with a curing agent and then solidifying through certain processes. Epoxy resin is a kind of high-molecular polymer, and its molecules contain epoxy groups. This structure endows it with good adhesion and chemical stability. The role of the curing agent is to react chemically with the epoxy resin, prompting it to change from a liquid state to a solid state, thus forming a hard countertop. Standard thickness is 15/16/19/25mm.



MANUFACTURING PROCESS

Mixing Stage: Epoxy resin and curing agent are precisely mixed in a set proportion. The proportion's accuracy is vital as it impacts the countertop's hardness, curing time, etc. Pigments and fillers can be added to enhance color and physical properties.

Casting and Molding: The blended material is poured into a pre-made mold, whose shape and size are based on the countertop's design. During pouring, avoid air entrapment as bubbles can cause surface unevenness or internal defects.

Curing Treatment: The poured material cures under specific temperature and time. This is a key step in forming a hard structure, stabilizing the molecular structure and achieving the desired properties.

Post-processing: The cured countertop needs post-processing. It involves grinding and polishing for a smoother surface, trimming edges for installation, and potentially cutting to the right size for the lab workbench.

ADVANTAGE

(I) Chemical Properties

Corrosion Resistance: Epoxy resin countertops resist acids, alkalis, and solvents in normal experiments. In chem labs with strong reagents, they don't corrode, ensuring bench life and safety.

Chemical Stability: Special structure keeps it stable. Bonds resist breakage, maintaining properties without issues.

(II) Physical Properties

Hardness & Wear Resistance: High hardness withstands equipment friction. In physics labs with moves, it stays flat.

High Temp Resistance: Endures heat up to 100 - 150℃, meeting heating needs.

Impact Resistance: Good impact resistance protects bench and equipment.

(III) Surface Characteristics

Smoothness: Smooth surface eases use and cleaning, reducing errors.

Impermeability: Poreless, it blocks liquid, ensuring cleanliness in bio labs.

EPOXY & PHENOLIC RESIN COUNTERTOP COMPARISON

Chem Prop: Epoxy resists strong acids/alkalis well, stable; Chem-resist board is weaker, less stable.

Phys Prop: Epoxy is hard, wear-res, heat-res (100 - 150℃), impact-res; Chem-resist board is softer, wears easily, heat-intol, less impact-res.

Surf Char: Epoxy is smooth, impermeable; Chem-resist board is inferior.

Price & Proc: Epoxy is costly, hard to process; Chem-resist board is cheap, easy to process.

Color Sel: Epoxy has limited colors; Chem-resist board has many.

CERAMIC COUNTERTOP

The main components of laboratory ceramic panels include kaolin, clay, porcelain stone, porcelain clay, coloring agents, blue and white materials, lime glaze, and lime alkali glaze. These materials are subjected to a special process of long-term calcination at a high temperature of 1250 ℃, forming a laboratory grade corrosion-resistant special glaze treatment. Standard thickness is 15 and 20mm.

APPLICATION

Chemical Experiments: Acts as chem exp. countertop for digestion, evap., drying. Resists reagent corrosion & high-temp. reactions.

Biological Research: Fits bio lab media heating, reagent warming. Provides stable temps for cell, microbe culturing.

Materials Science: Used in matl. synth., heat treat. like sintering, melting. Meets strict matl. sci. exp. demands.

Electronics & Electrical Labs: Insulating support countertop. Ensures safety & accuracy in e&e experiments with good insulation.

ADVANTAGE

Chemical Properties: Exceptionally strong chem. corrosion resistance. Resists acids, alkalis, solvents (except HF) at all temps. Adapts to lab chem. erosion, extends service life.

Physical Properties:

High Temp. Resistance: WIt can withstand a high temperature of up to 1550℃ and is not afraid of open flames. After long-term contact with high temperature, the surface will not burn, blister or crack. It is suitable for use in high-temperature experimental environments, such as some chemical reactions that need to be heated to a high temperature and material sintering experiments.

High Hardness: Hard, scratch/abrasion resistant, strong impact resistance. Compensates for others' wear issues. Maintains flatness & integrity long-term.

Great Insulation: Non-conductive, strong insulation, no catalyst effect. Suits labs with strict insulation demands like electronics & electricity.

Good Flatness: Similar to glass flatness. Avoids surface unevenness issues in processing/installation. Facilitates countertop splicing & use, ensures apparatus stability.

Surface Characteristics: Coated with special corrosion-resistant glaze. Smooth, poreless. Pollution resistant, easy to clean/maintain. Inhibits bacteria growth, keeps lab clean.

Safety: Non-toxic, radiation-free, non-flammable. Produce no toxic gases/substances when heated. Provide a safe lab environment.

TRESPA COUNTERTOP

Ideal for harsh laboratory environments, Trespa® TopLab®PLUS withstands most aggressive chemicals and cleaning agents, does not support bacterial growth and helps ergonomics whilst avoiding contamination. Trespa® TopLab®PLUS is ideal for laboratories, including chemical, physical and analytical laboratories.

APPLICATION

Chemical Experiments: Acts as chem exp. countertop for digestion, evap., drying. Resists reagent corrosion & high-temp. reactions.

Biological Research: Fits bio lab media heating, reagent warming. Provides stable temps for cell, microbe culturing.

Materials Science: Used in matl. synth., heat treat. like sintering, melting. Meets strict matl. sci. exp. demands.

Electronics & Electrical Labs: Insulating support countertop. Ensures safety & accuracy in e&e experiments with good insulation.

ADVANTAGE

CHEMICAL PROPERTIES

Corrosion Resistance: Resists acids, alkalis, solvents. In labs, withstands chemicals like sulfuric acid, maintaining structure and prolonging life.

Stability: Stable chemically, no reaction or harmful release, ensuring safe, pure environment.

PHYSICAL PROPERTIES

Strength & Hardness: High strength, bears heavy loads, resists deformation in labs or public areas.

Wear Resistance: Surface wear-resistant, stays smooth under friction, aiding experiments and extending life.

Dimensional Stability: Minimal expansion/shrinkage, keeps flat and fitted, suitable for precision setups.

Fire Resistance: Meets standards, delays fire spread, aids evacuation and rescue.

SURFACE CHARACTERISTICS

Textures: Offers smooth, matte, wood grain, etc., for various designs and aesthetics.

Cleaning: Easy to clean, flat surface repels stains, cleans without damage, reducing maintenance.

Color Stability: Retains color, looks good long-term, cuts replacement cost.

ENVIRONMENTAL & SAFETY

Eco-Friendly: Leftovers recyclable or decomposable, some with certifications, environmentally sound.

Safety: Non-toxic, non-radiative, non-flammable, no harmful gases when heated, safe for users.

WALL CUPBOARD

SPECIFICATION

WOOD WALL CUPBOARD

1. Cabinet: Use E1 grade 18mm thickness double-sided high-quality environmentally friendly melamine door & drawer panel and 15mm thickness main body; all edges are treated with 2mm thickness high-quality PVC sealing for waterproofing, and all panels are connected by detachable three-in-one connection cabinet with one layer shelf.
2. Handle: One line steel handle/C-shaped handle/ Aluminum alloy handle/ U-shaped handle.
3. Hinge:Using high-quality alloy hinges with an opening degree of 110 °.

PP WALL CUPBOARD

1. Cabinets: Consisting of 8mm porcelain white PP (polypropylene) sheets, which are seamlessly welded into a single unit with electrodes of identical color and homogeneous characteristics. This welding method not only ensures structural integrity but also provides a smooth and consistent appearance.
2. Hinges & handles: Each of these components is meticulously crafted from PP material renowned for its outstanding performance, especially its remarkable resistance to strong acids and alkalis.

STAINLESS STEEL WALL CUPBOARD

1. Cabinet: Utilize 1.0mm full-thickness 304#/316# stainless steel sheets along with 4mm thick clear glass. A movable shelf is provided.
2. Handles: Options include non-welded One Line Handles, C-shaped handles, or Insertion stainless steel handles.
3. Hinges: Stainless steel hinge components are employed.

DIFFERENT MATERIAL SHOW



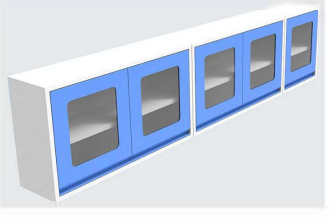

STEEL WALL CUPBOARD

1. Cabinet: Full 1.0mm thick cold-rolled steel plate is finely crafted via cutting, bending, welding, stamping, and polishing. The surface is treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance. To make thickness reach to 1.1mm - 1.2mm. This treatment method makes the body has good corrosion resistance and stability ability.

2. Handle: Non-welded one line handle/C-shaped handle/Insertion Aluminum alloy handle/ U-shaped handle.

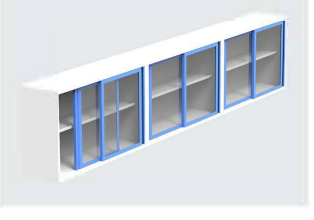
3. Hinge:Using high-quality alloy hinges with an opening degree of 110 °. (Pulling bolt hinge: Using a φ 5 galvanized alloy rod, nylon sheath, and φ 6 spring pulling bolt hinge, concealed installation, to maintain the overall appearance of the door panel and avoid corrosion caused by direct contact with acidic and alkaline solutions.)

DOOR OPENING WAY SHOW



OPITIONAL DOOR TYPE

1. Inlay glass swing door (STANDARD)
2. Solid swing door
3. Glass horizontal sliding door
4. Solid horizontal sliding door
5.Open shelf without door


REAGENT RACK

SPECIFICATION

AVAILABLE RACK

1) Rectangle shape steel column and tray: The column is carefully fabricated with 1.0mm full-thickness cold-rolled steel sheet. Along its length, an adjustment hole is precisely set every 10mm. The tray is made of 1.8mm full-thickness cold-rolled steel sheet. The surface is treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance.

2) Rhombus shape steel column and tray: The column is carefully fabricated with 1.0mm full-thickness cold-rolled steel sheet. Along its length, an adjustment hole is precisely set every 10mm. The tray is made of 1.8mm full-thickness cold-rolled steel sheet. The surface is treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance.

3) Rectangle shape aluminum column and tray: The column is carefully fabricated with 1.0mm full-thickness 92mm * 42mm * 1.25mm aluminum alloy specialty extrusions. Along its length, an adjustment hole is precisely set every 10mm. The tray is made of 1.8mm full-thickness cold-rolled steel sheet.

AVAILABLE SHELF

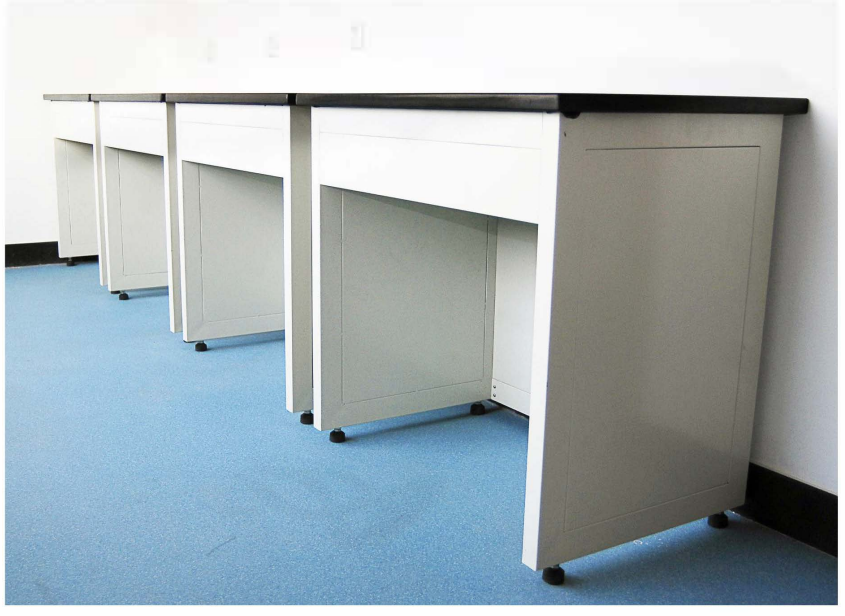
1) Steel shelf: It is equipped with two layers of 10mm thick tempered glass. The edges around are polished into delicate round shapes, feeling smooth and delicate to the touch and not causing any harm to hands at all. A professional aluminum alloy guardrail is firmly installed on the edge of the glass.

2) Glass shelf: It is equipped with two layers of 1.0mm full-thickness cold-rolled steel sheet. The surface is treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance. with acidic and alkaline solutions.)

ISLAND AND WALL BENCH DIFFERENT MATERIALREAGENT SHELF SHOW

ANTI VIBRATION TABLE

Anti-vibration table can provide measurement stability in any laboratory condition. The anti-vibration table is constructed of steel body and features a heavy marble insert for placement of the precision weighing device. It is specially designed for high-precision and anti-interference experiments. Strong shock absorption can control the interference of various equipment during use and ensure the accuracy of the experiment. It is widely used in science, teaching, university, government, hospital, factory lab ect various industry.



MAIN PART

Anti-vibration feet

Shock absorb rubber adjustment pad

60mm marble.

SPECIFICATION

Body: Full 1.0mm thick cold-rolled steel plate is finely crafted via cutting, bending, welding, stamping, and polishing. The surface is treated with degreased, pickled, and phosphated for rust prevention, and then electrostatic powder sprayed with epoxy resin protective powder for acid and alkali corrosion resistance. To make thickness reach to 1.1mm - 1.2mm. This treatment method makes the body has good corrosion resistance and stability ability.

Accessories: socket (Meet the requirements of each country and region)

AVAILABLE COUNTERTOP

1. All made of 40mm marble
2. All made of 60mm marble
3. Inlaid with marble (inlaid marble 400*300*60mm)

AVAILABLE STANDARD SIZE

900*600*850mm

1200*600*850mm

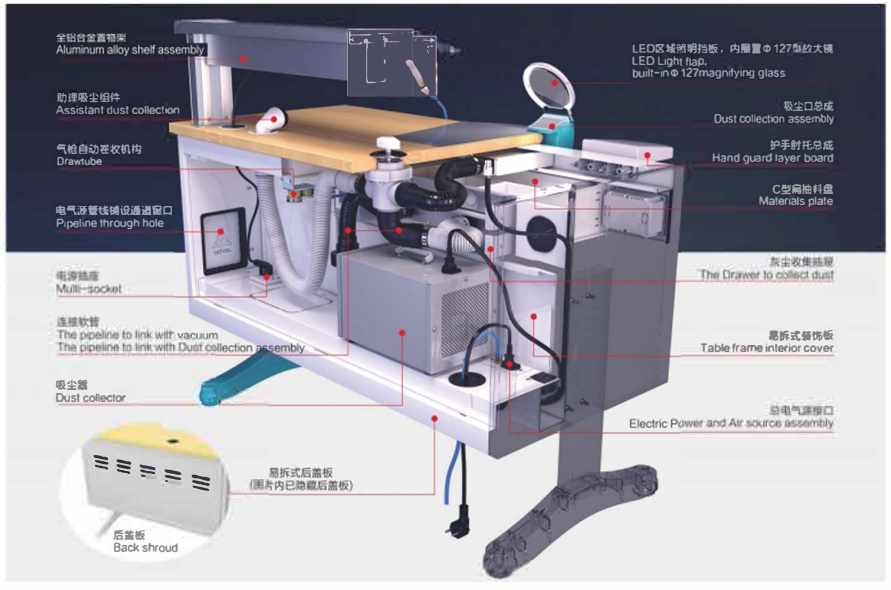
1500*600*850mm

ALL MARBLE TOP

MARBLE INLAID TOP

DENTAL WORKSTATION

The dental technician's workbench is a special workbench for dental technicians to fabricate oral prostheses. The desktop is mostly made of wear-resistant and corrosion-resistant materials. Some desktops are equipped with slots or grooves to fix tools. There are drawers for storing small tools and accessories, and cabinets for placing large items. It is also equipped with adjustable lighting and multiple power sockets with protection functions.



STANDARD ACCESSORIES

SPECIFICATION

SIZE	1000/ 1200/ 1400/ 1600/ 1800*600*800-850MM
VOLTAGE	220V/50Hz, 110V/60Hz
POWER	500W
AIR VOLUME	175M³/H
MAX PRESSURE	-16KPa
MAX NOISE	65dB
STANDARD CONFIGURATION	FIREPROOF WORKTOP; LIGHTING; ONE LAYER SHELF; GAS GUN; SUCTION; ELBOW SUPPORT; DUST COLLECTION; DRAWER;
STANDARD COLOR	BLACK, YELLOW, BLUE, GREEN, LIGHT GRAY, DARK GRAY, WHITE
OPTIONAL WORKTOP	STAINLESS STEEL; OAK; COMPACT LAMINATE; MARBLE
OPTIONAL ACCESSORIES	TURNOVER BOX; FLEXIBLE DUST SUCTION AND VALVE; MULTIPLE SOCKET

ESD WORKBENCH

When static electricity is generated on the desktop, due to the electrical conductivity of the desktop material, the static electricity will be evenly distributed on the surface of the material. Then, through the metal parts of the table frame, the static electricity will be conducted to the ground along the grounding system, thus eliminating the impact of static electricity on the electronic components and equipment in the working area.

APPLICATION

In the electronics industry, anti-static desks, from chip manufacturing to electronic product assembly and inspection, provide a static-free environment. They protect components from static damage, ensuring product quality and yield.

In communication equipment maintenance, they avoid secondary static damage to internal components, increasing the success rate.

In laboratories, for static-sensitive instruments in experiments, they reduce interference, providing a safe and accurate platform, ensuring data accuracy and process safety.

SIZE

1200*750*800MM / 1500*750*800MM / 1800*750*800MM / CUSTOMIIZED

SHAPE

Various combination, without drawer, suspended drawer, mobile drawer. Can equip with various upper shelf and accessories.









FUME HOOD

The fume hood extracts air via its fan system to create negative pressure. Air enters from the front opening, carrying experiment-generated harmful substances like gases, smoke and particulates, and gets discharged outside the lab through the exhaust system to prevent their spillover and protect people and the environment.

APPLICATION

Ventilation cabinets are used in various labs like school, university, government, hospital, factories, organic and inorganic chemistry, drug, microbiology, cell culture, genetic engineering, clinical, environmental monitoring (air, water, soil), food testing, cosmetics, materials, polymer synthesis, fine chemicals, petrochemical, physical chemistry, catalytic chemistry, biochemistry, toxicology, plant tissue culture, animal cell experiment, forensic toxicology, heritage conservation, nuclear energy, semiconductor physics, optical materials, electronic materials, battery R & D, solar photovoltaic, metallurgy, mining analysis, textile chemistry, leather chemistry, paper chemistry, fragrance/flavor, coatings, adhesives, rubber products labs ect.

CLASSIFICATION

BY MATERIAL:

Steel Fume Hood: Commonly and widely used.

PP Air Fume Hood: For strong acid/alkali, chemical and organic labs.

Stainless steel Fume Hood: Antibacterial and easy to clean, used in food, pharmacy and clean room labs.

BY SHAPE:

Fume hood enclosure: Common, with integral lower cabinet for storage and upper ventilation area.

Walk-in fume hood: Ground-mounted, stable, suits large equipment.

Multi side fume hood: Expanded view, for multi-user or high-observation tasks.

Benchtop fume hood: Compact, tabletop-mounted, for small-scale work or tight spaces.

BY PIPELINE:

Ducted fume hood: Directly vents toxics outside via pipe, averts indoor spread but costly to install/maintain.

Ductless Fume Hood: Filters and recycles air, easy to install, yet filter needs routine maintenance.

BY AIR INTAKE METHOD:

Total Exhaust Fume Hood: Indoor air circulates in and out, widely used.

Make-up Air Fume Hood: In climate-controlled rooms, uses outside air, saves energy.

Variable Air Volume Fume Hood: Adjusts air volume by sensor for precise face wind speed.

BY SPECIAL FUNCTION:

Perchloric acid fume hood: with build in wet scrubber system to hand hot perchloric acid and hot nitric acid.

Auto sash fume hood: with auto controller system to open and close the vertically rising sash fume hoods automatically.

FUME HOOD ENCLOSURE

STRUCTURE

Upper cabinet: Exhaust holes on top connect to the fan for gas discharge. Guide plates inside direct air flow for efficient harmful gas expulsion. Equipped with touch switches and sockets for equipment power supply.

Perspective window: Tempered glass, sturdy and transparent, movable horizontally or vertically. Allows observing the experiment and offers isolation and protection.

Lower cabinet: Wall bench style, with a countertop and a cabinet body. Install a small cup and faucet on the countertop for water during the experiment.

MODEL	FH-1200	FH-1500	FH-1800
EXTERNAL DIMENSION (W*D*H)(MM)	1200*850*2350	1500*850*2350	1800*850*2350
INTERNAL DIMENSION (W*D*H)(MM)	960*680*1150	1260*680*1150	1560*680*1150
BASE CABINET DIMENSION (W*D*H)(MM)	1200*800*850	1500*800*850	1800*800*850
EXHAUST AIR VOLUME	700-1300m³/h	900-1700m³/h	1300-2100m³/h
AIR VELOCITY	0.3~0.8 m/s		

SPECIFICATION

1.Hood body and baffle:

Steel fume hood: 1.0mm full-thickness cold-roll steel with epoxy resin powder coated upper and lower enclosure body. With 5.0mm thickness compact laminate baffle and inner.

PP fume hood: 8.0mm full-thickness acid and alkali proof PP upper and lower enclosure body. With 8.0mm thickness PP baffle and inner.

Stainless steel fume hood: 1.0mm full-thickness high-quality 304/316 stainless steel upper and lower enclosure body. With 1.0mm thickness stainless steel baffle and inner.

2.Work Surface: Phenolic Resin/Epoxy Resin/PP/Stainless Steel/Ceramic/Trespa.

3.Controller: Intelligent switch with digital display, multiple controls such as power on, fan, lighting, socket, sterilization, damper, etc.

4.Glass sash: Use explosion-proof 5mm tempered glass, aluminum alloy sash handle. It is designed by the weight balance method in the mechanical principle, and the left and right are connected by synchronous wheels.

5.Lighting: Equipped with LED 30W purification lamp, the luminosity is greater than 300LUX,

6. Standard accessories:

1x bench-mounted single water tap & 1x PP oval cupsink

4x Electrical Outlets

1x 250mmφ PP hood.

7.Optional accessories:

Remote Controlled Fixture gas&water faucet.

Distillation Grid Kit.

Acid and flammable base cabinet.

Exhaust blower and pipe.

BENCHTOP FUME HOOD

STRUCTURE

The benchtop fume hood is a compact and practical ventilation device placed on the laboratory table. Its size is relatively small, and its height is usually suitable for operation on the laboratory table. It is generally compact as a whole and won't take up too much desktop space.

Upper cabinet: Exhaust holes on top connect to the fan for gas discharge. Guide plates inside direct air flow for efficient harmful gas expulsion. Equipped with touch switches and sockets for equipment power supply.

Perspective window: Tempered glass, sturdy and transparent, movable horizontally or vertically. Allows observing the experiment and offers isolation and protection.

MODEL	BTFH-1200	BTFH-1500	BTFH-1800
EXTERNAL DIMENSION (W*D*H)(MM)	1200*850*1500	1500*850*1500	1800*850*1500
INTERNAL DIMENSION (W*D*H)(MM)	960*680*1150	1260*680*1150	1560*680*1150
EXHAUST AIR VOLUME	700-1300m³/h	900-1700m³/h	1300-2100m³/h
AIR VELOCITY	0.3~0.8 m/s		

SPECIFICATION

1.Hood body and baffle:

Steel fume hood: 1.0mm full-thickness high-quality cold-roll steel with epoxy resin powder coated upper and lower enclosure body. With 5.0mm thickness compact laminate baffle and inner.

PP fume hood:8.0mm full-thickness acid and alkali proof PP upper and lower enclosure body. With 8.0mm thickness PP baffle and inner.

Stainless steel fume hood: 1.0mm full-thickness high-quality 304/316 stainless steel upper and lower enclosure body. With 1.0mm thickness stainless steel baffle and inner.

2.Standard Work Surface: Phenolic Resin.

Optional: Epoxy Resin/PP/Stainless Steel/Ceramic/Trespa.

3.Controller: Intelligent switch with digital display, multiple controls such as power on, fan, lighting, socket, sterilization, damper, etc.

4.Glass sash: Use explosion-proof 5mm tempered glass, aluminum alloy sash handle. It is designed by the weight balance method in the mechanical principle, and the left and right are connected by synchronous wheels.

5.Lighting: Equipped with LED 30W purification lamp, the luminosity is greater than 300LUX,

6. Standard accessories:

1x bench-mounted single water tap & 1x PP oval cupsink

4x Electrical Outlets

1x 250mmφ PP hood.

7.Optional accessories:

Remote Controlled Fixture gas&water faucet.

Distillation Grid Kit.

Acid and flammable base cabinet.

Exhaust blower and pipe.

DEMONSTRATION FUME HOOD

Demonstration fume hood has double sash dual-entrance window, two sides also can be equip with glass, so it has largest vision for observer. It is widely use in school education. It sits on lab island bench usually, size is customized.

Upper cabinet: Exhaust holes on top connect to the fan for gas discharge. Guide plates inside direct air flow for efficient harmful gas expulsion. Equipped with touch switches and sockets for equipment power supply.

Perspective window: Tempered glass, sturdy and transparent, movable horizontally or vertically. Allows observing the experiment and offers isolation and protection.

FEATURE

360-degree wide field of view

Economical and affordable price

Customized size according needs

Placed on the laboratory island bench

Double sides open sash for more people to operate it

Multi design and can combine with various service fixture according needs

SPECIFICATION

1.Hood body and baffle:

Steel fume hood: 1.0mm full-thickness high-quality cold-roll steel with epoxy resin powder coated upper and lower enclosure body. With 5.0mm thickness compact laminate baffle and inner.

PP fume hood:8.0mm full-thickness acid and alkali proof PP upper and lower enclosure body. With 8.0mm thickness PP baffle and inner.

Stainless steel fume hood: 1.0mm full-thickness high-quality 304/316 stainless steel upper and lower enclosure body. With 1.0mm thickness stainless steel baffle and inner.

2.Standard Work Surface: Phenolic Resin.

Optional: Epoxy Resin/PP/Stainless Steel/Ceramic/Trespa.

3.Controller: Intelligent switch with digital display, multiple controls such as power on, fan, lighting, socket, sterilization, damper, etc.

4.Glass sash: Use explosion-proof 5mm tempered glass, aluminum alloy sash handle. It is designed by the weight balance method in the mechanical principle, and the left and right are connected by synchronous wheels.

5.Lighting: Equipped with LED 30W purification lamp, the luminosity is greater than 300LUX,

6. Standard accessories:

1x bench-mounted single water tap & 1x PP oval cupsink

4x Electrical Outlets

1x 250mmφ PP hood.

7.Optional accessories:

Remote Controlled Fixture gas&water faucet.

Distillation Grid Kit.

Acid and flammable base cabinet.

Exhaust blower and pipe.

WALK IN FUME HOOD

The walk-in fume hood is a kind of large-scale laboratory equipment, mainly used for conducting large-scale experiments or experiments with multiple operators. Its features include a large space, being suitable for placing large experimental instruments and equipment, and allowing operators to enter the cabinet body to carry out operations.

CLASSIFICATION

AVAILABLE MATERIAL

1. Steel walk in fume hood
2. PP walk in fume hood
3. Stainless steel walk in fume hood

AVAILABLE DOOR OPENING WAY

1. Vertical sliding door walkin fume hood
2. Horizontal sliding door walkin fume hood
3. Folding door walkin fume hood
4. Swing door walkin fume hood

SIZE

1200/1500/1800*850*2350mm

CUSTOMIZED SIZED

SPECIFICATION

1.Hood body and baffle:

Steel fume hood: 1.0mm full-thickness high-quality cold-roll steel with epoxy resin powder coated enclosure body. With 5.0mm thickness compact laminate baffle and inner.

PP fume hood:8.0mm full-thickness acid and alkali proof PP enclosure body. With 8.0mm thickness PP baffle and inner.

Stainless steel fume hood: 1.0mm full-thickness high-quality 304/316 stainless steel enclosure body. With 1.0mm thickness stainless steel baffle and inner.

2.Controller: Intelligent switch with digital display, multiple controls such as power on, fan, lighting, socket, sterilization, damper, etc.

3.Glass sash: Use explosion-proof 5mm tempered glass, aluminum alloy sash handle.

4.Lighting: Equipped with LED 30W purification lamp, the luminosity is greater than 300LUX,

5. Standard accessories:

4x Electrical Outlets

1x 250mmφ PP hood.

6.Optional accessories:

Remote Controlled Fixture gas&water faucet.

Oval sink

Distillation Grid Kit.

Acid and flammable base cabinet.

Exhaust blower and pipe.

DUCTLESS FUME HOOD

Ductless fume hood is a laboratory ventilation equipment without external ventilation ducts. It purifies harmful gases and particles from experiments via the built-in air filtration system for local ventilation and environmental protection. When such substances are generated in the experiment, the fan makes the air circulate inside the cabinet. The air is sucked into the filter unit and then returned to the indoor environment for purification. It suitable for low-concentration hazard experiments and places where it is difficult to install ducts.

WORKING PRINCIPLE

1. Air Inlet

Air's drawn from lab into fume hood, creating negative pressure. Stable face wind speed shields users from chemicals.

2. Multi-filtration System

Fan sucks harmful gases up for filtration, then returns clean air. Cabinet controls gas, stops pollution.

3. Clean Lab Air

Use proper filters for ops, purify air, remove chemical smells, boost lab cleanliness.

4. Purify Surrounding Air

Fume hood's filtration purifies indoor air.

SPECIFICATION

1. Whole body: The main material is galvanized steel sheets with a thickness of ≥ 1.2mm, which are electrostatically sprayed with epoxy resin and covered with a durable, lead-free, anti-chemical coating to maintain high smoothness and minimize the impact of corrosion and moisture.

2. Front and Side Panels: The main material is ≥6mm acrylic sheets, which have good weather resistance, excellent chemical resistance, are not prone to aging, are colorless and transparent, fully transparent, visually comfortable and aesthetically pleasing.

3. 7-inch LCD Touch Screen Display: with real-time temperature and humidity environment monitoring, fan monitoring, VOC concentration environment monitoring and an integrated alarm system.

4. PSC Fan: with a 24-volt current, has stable performance, is ultra-quiet and free from spark and static electricity.

5. High-efficiency Filtration System: The filters are selected and arranged according to particle size, following ASTM standards. It is effective against acidic gases and organic gases with strong adsorption capacity. For particles, a high-efficiency HEPA filter is used, and the filtration efficiency for particles larger than 0.3um reaches 99.995%.

6. LED lighting: The power of the LED lighting lamp is equivalent to that of a 25W fluorescent lamp. It does not generate heat, does not affect the temperature of the experimental environment safely, and is energy-efficient, environmentally friendly and has a long service life.

7. Worktop: The epoxy resin worktop has superior chemical stability, corrosion resistance, good impact resistance without damage, excellent high temperature resistance, integral core penetration, a long service life, no delamination, no expansion and no cracking.

DUCTLESS FUME HOOD

Ductless fume hood has enclosure with under cabinet and benchtop without under cabinet two type.

ADVANTAGES:

Flexible installation. It is not restricted by the ventilation duct layout and is suitable for laboratories with limited space or where it is difficult to lay ducts.

Space-saving and cost-reducing. There is no need to reserve duct space or carry out complex installation projects, and sometimes the price is more favorable.

Easy to move and beneficial for rearrangement. It facilitates equipment management and adapts to diverse experimental requirements.

DISADVANTAGES:

Limited filtration. In the face of high-concentration and complex harmful substances, purification is incomplete.

Filters need to be replaced regularly. The maintenance workload is large. If not replaced in time, there is a risk of leakage and the cost is high.

VDFH-800

VDFH-1000

VDFH-1275

VDFH-1600

VBDFH-800

VBDFH-1000

VBDFH-1275

VBDFH-1600

SPECIFICATION

MODEL	VDFH-800 VBDFH-800	VDFH-1000 VBDFH-1000	VDFH-1275 VBDFH-1275	VDFH-1600 VBDFH-1600
VDFH SERIES EXTERNAL DIMENSIONS (W*D*H)MM	800*620*2080	1000*620*2080	1275*620*2080	1600*620*2080
VBDFH SERIES EXTERNAL DIMENSIONS (W*D*H)MM	800*620*1245	1000*620*1245	1275*620*1245	1600*620*1245
INTERNAL DIMENSIONS (W*D*H)MM	781*570*934	981*570*934	1256*570*934	1581*570*934
AIR VELOCITY	0.4-0.6m/s			
EXHAUST AIR VOLUME	230m³/h	230m³/h	690m³/h	690m³/h
VOLTAGE	110V-240V			
FREQUENCY	50-60HZ			
MAXIMUM CURRENT	2A	2A	5A	5A
POWER	42W	42W	126W	126W
NOISE	40-52dB			
MOLECULAR FILTER SIZE/QUANTITY	370*395*50mm			
	4	4	6	6
INITIAL EFFECT FILTER	1 block			
FAN QUANTITY	1	1	3	3
STANDARD CONFIGURATION	Epoxy countertop: 1 block Lighting: LED lighting 1 Display: seven-inch LCD touch screen Control system: 1 set Filter saturation alarm system: 1 set Temperature and humidity alarm system: 1 set Power cord: 1			
OPTIONAL FILTER TYPE	SFGL OG: Organic Filter SFGL AG: Inorganic filter SFGL FO: formaldehyde filter SFGL AM: Ammonia filter HEPA H14: HEPA filter			

PERCHLORIC ACID FUME HOOD

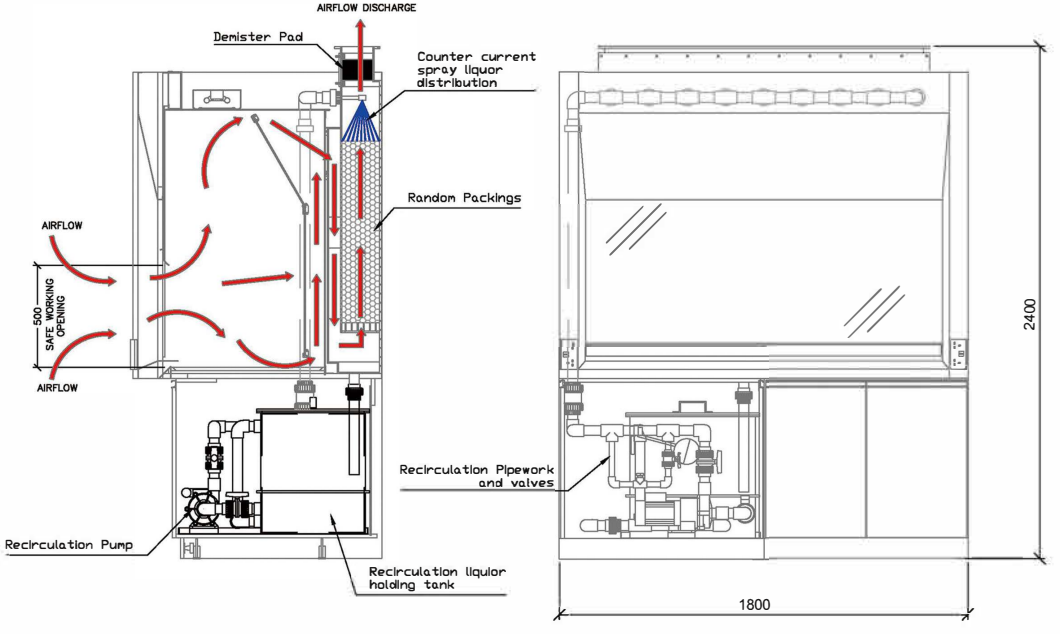
The perchloric acid fume hood is specially designed for handling hot perchloric acid, hot nitric acid or their mixtures, but not for sulfuric acid, acetic acid, organic solvents or combustibles. It has a PP-lined interior, including the work area, and a built-in wet scrubber cleaning system. When heated, perchloric acid evaporates and condenses in the hood, ducts and fan. The condensed vapor, highly corrosive, can form explosive perchlorates and esters with gaskets, grease etc. The PP lining boosts cleanliness and the cleaning system removes any potential explosive compounds on the inner surface, ensuring safety.

PRINCIPLE

Circulating Water Dilution System for Perchloric Acid Fume Hoods

During experiments in perchloric acid fume hoods, aerosol release of perchloric acid may occur. Ventilation at a rate of 1300 CMH is required. Perchloric acid reacts with the alkaline water behind the deflector as follows: $HClO_4 + NaOH \rightarrow NaClO_4 + H_2O$. The neutralized product has a pH value ranging from 7 to 14. The recycling system is made of corrosion-resistant materials.

There is a buffer tank at the bottom of the fume hood, connected to a PP water pump, which is further connected to the atomization pipe. The pump converts the alkaline liquid into droplets to mix with the perchloric acid gas, and the reaction product returns to the buffer tank by gravity.



PERCHLORIC ACID FUME HOOD

SPECIFICATION

1.1 Fume Hood Body: 8.0mm high-quality PP sheets, acid & alkali resistant, weatherproof, welded. Double-layer with ~100mm interlayer for pipelines, ensuring airtightness. Tabletop on bottom cabinet, upper cabinet above. (Exhaust pipe part of bottom cabinet can be suction type.)

1.2 Baffle: Same material & thickness as body. Installed to evenly distribute exhaust, no dead corners. Standard: ~50±10% exhaust ratio at upper, middle & lower outlets, suits different gases. Middle & lower air volume meets experiment needs. (Same type & size baffles interchangeable.)

1.3 Baffle Mounting Bracket: Acid & alkali resistant PP molded assembly. Easy front assembly, disassembly, maintenance & cleaning; Metal screws (if used) hidden & isolated from cabinet gas. Back plate bracket has distillation grid kit holes. Lock & tighten to fix stainless tube bracket for kit installation.

1.4 Vertical Sash: Acrylic glass, wrapped edges. Plastic inclusive track. Double synchronous cables each side, safe for long-term use. - Single counterweight box, limited travel track.

1.5 Exhaust hood: PP conical constricted gas collecting hood, bottom rectangular opening. ≥50mm connecting pipe height, easy duct connection. Good gathering angle & smoothness, ratio ≥2:1, cone angle ≥30°, for uniform gathering & low pressure loss.

1.6 Lighting: Equipped with LED 30W purification lamp, the luminosity is greater than 300LUX.

1.7 Controller: Intelligent switch with digital display, multiple controls such as power on, fan, lighting, socket, pump, sterilization, damper, etc.

PRECAUTIONS & FIRST-AID

For perchloric acid. Follow its chemical traits and procedures. Avoid high-concentration tests. Alkaline water/circulation system behind baffle neutralizes acid to prevent buildup and reactions. Maybe need secondary neutralization for emissions.

Skin: Remove clothes, rinse 15+ min, seek medical help.

Eye: Lift lids, rinse 15+ min, seek medical help.

Inhalation: Move to fresh air, assist if needed, seek medical help. Ingestion: Rinse mouth, drink milk/egg white, seek medical help.

SIZE

1200/1500/1800*950*2350MM

CUSTOMIZED

OPERATION PROCESS

BEFORE USE:

Fill the water tank with 50% NaOH solution, measure the pH value and record it.

Ensure that all valves in the circulating water system are open. Do not start the pump if its valve is closed.

Confirm that the perchloric acid experiment in the fume hood is ready. The fume hood should have the rated exhaust volume (the average surface wind speed is between 0.5 and 0.8 m/s, measured by an anemometer).

Press the pump start button, and the circulating water will be distributed in the form of droplets behind the deflector.

AFTER THE EXPERIMENT:

Finish the perchloric acid experiment.

Turn off the pump, test the pH value with a pH test paper and record it. Replace the buffer if the pH value is less than 6.

Close the valve of the water system.

Turn off the exhaust of the fume hood.

MAINTENANCE

If pump leaks, stop experiment, call for repair.

Clean buffer tank sludge regularly.

Don't idle pump without liquid.

Don't operate pump with closed valve.

Don't operate pump with solution over 50 °C.

FUME HOOD ACCESSORIES

SASH ACCESSORIES

Fume hood sash system accessories include aluminum alloy sash frames, handle, slide rails, spring pulleys, upper and lower anti-collision pads, synchronous belt fixing plates, synchronous wheels, synchronous belts, synchronous rods, etc.



AUTO SASH ACCESSORIES

The automatic door system of the fume hood includes the electric door main control box, control panel, motor, transmission belt, transmission octagonal wheel, network cable, human body sensor, infrared sensor, nylon wiring chain. Please note that the synchronous wheel, synchronous belt and synchronous rod need to be purchased together.




FUME HOOD ACCESSORIES

Fume cupboard accessories such as exhaust hood, controller panel, distillation rack ect



VAV ACCESSORIES

① Door height sensor

② Area presence sensor (Optional*)

③ Differential pressure sensor

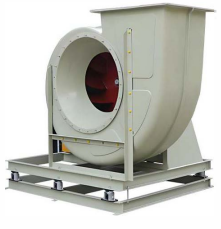
④ Fume hood control box

⑤ Fume hood controller

⑥ Venturi Valve (VAV)

VENTILATION ACCESSORIES

Ventilation accessories has blower fan, duct pipe, wet scrubber, activated carbon adsorption box ect



STORAGE CABINET

Laboratory storage cabinets are important furniture used in laboratories to store various laboratory supplies, reagents, instruments and equipment. They are made of wood, steel, PP, ABS and stainless steel. According to storage functions, they can be divided into file cabinets, reagent cabinets, utensil cabinets, flammable storage cabinet, gas cylinder cabinet, slide cabinets, wax block cabinets, density cabinets, wardrobes, shoe cabinets, etc.

Standard size is 900/1200*450*1800mm, also support customized size.

STEEL STORAGE CABINET

STAINLESS STEEL & PP STORAGE CABINET

STORAGE CABINET

ABS STORAGE CABINET


ABS-32

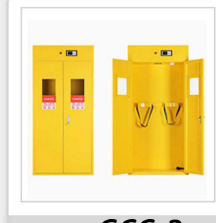

ABS-23

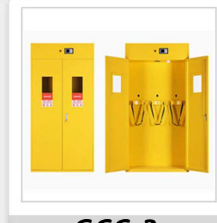

ABS-33


ABS-43

GAS CYLINDER STORAGE CABINET


GCC-1


GCC-2


GCC-3


GCR-3

FLAMMABLE STORAGE CABINET

SLICE & WAX STORAGE CABINET

DUCTLESS PURIFY STORAGE CABINET

STORAGE SHELF AND TROLLEY

CLEAN ROOM PURIFY EQUIPMENT

Clean room purify equipment consists of laminar flow cabinet, biology safety cabinet, air shower, pass box, clean booth, clean room door ect.

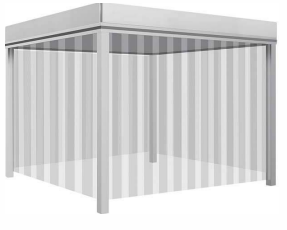
LAMINAR FLOW CABINET

BIOLOGY SAFETY CABINET

AIR SHOWER

PASS BOX

CLEAN BOOTH



CLEAN ROOM DOOR

LAB ACCESSORIES

Various lab accessories such as water tap, gas tap, sink, pegboard, exhaust arm,

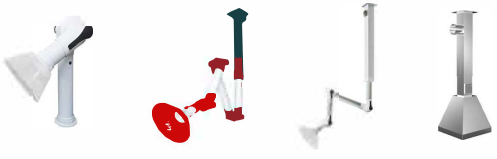
Atomic absorption hood, eye wash shower, stool ect

SERVICE FIXTURE

EYE WASH SHOWER

LAB STOOL AND CHAIR

VENTILATION FITTINGS



LAB EQUIPMENT

OVEN

INCUBATOR

CENTRIFUGE

BALANCE

WATER BATH

PH METERS

SPECTROPHOTOMETER

MOISTURE TESTER

ROTARY EVAPORATOR

TABLET DISSOLUTION TEST APPARATUS

MICROSCOPE

PIPETTE

MAGNETIC STIRRER

DISPERSING MACHINE

HOMOGENIZER

PELLET PRESS MACHINE

REFRIGERATOR

FREEZER

AUTOCLAVE & STERILIZER

WATER PURIFIER

RECIRCULATING CHILLE

GLASSWARE WASHER

VACUUM FILTRATION

ULTRASONIC WATERBATH

LAB CONSUMABLES

GLASSWARES

REAGENT BOTTLES

SAND CORE FUNNEL

PETRI DISH

GLASS SLIDES

EAR CLEANING BALL

PEIPETTE TIP

PCR TUBE

CENTRIFUGE TUBE

PASTEUR PIPETTES

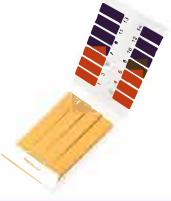
CELL CULTURE PLATE

INOCULATION LOOP

CLEAN TABLE ALCOHOL POT

LAB UNIFORM

CRUCIBLE



PH PAPER

FILTER PAPER

ALCOHOL LAMP

BUNSEN BURNER

DENTAL BIB

DENTAL PHANTOM

DENTAL TURNOVER BOX

IMPRESSION TRAY

MICRO BRUSH