

Laboratory Furniture Catalogue

Edition 1.0



penta

innovative solutions



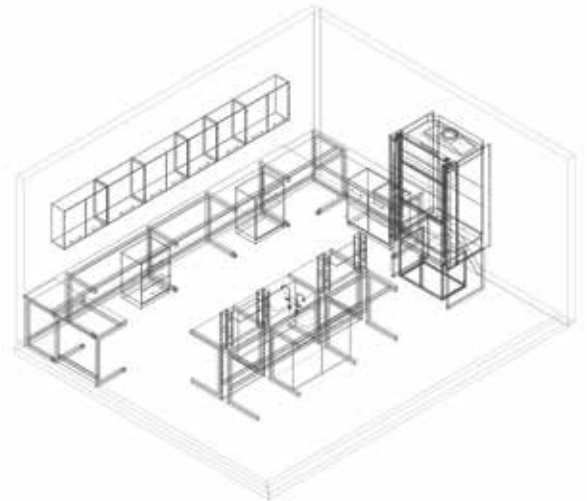
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Introduction

Creating innovative lab spaces with safety and mobility in mind.



About Us

PENTA specializes in planning, manufacturing and installing laboratories, offering its clients innovative solutions, services and products that uniquely support project management and development throughout its life cycle. Backed by a global vision; PENTA's competitive edge is not limited to the provision of high-quality lab equipment and fittings, but extends to sharing its expertise and know-how across all stages of the project, and ensuring a value-engineering advantage for all its clients.

Our Values

- Highest level of customer satisfaction
- Commitment
- Innovation & diversity
- Respect
- High quality
- Affordable prices

Safety

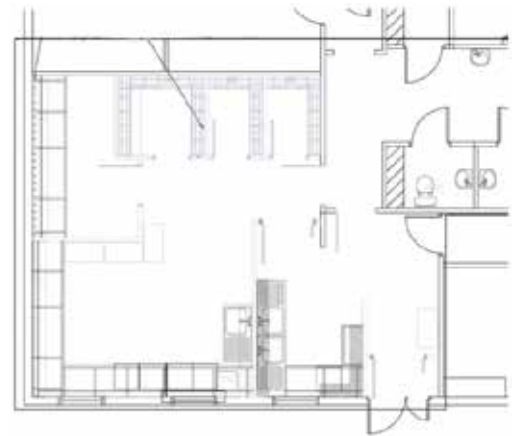
At PENTA, we believe that safety is the key factor and guiding principle throughout the lab construction process from the early stages of identifying needs, risk assessment and analysis, space design and configuration, all the way to the selection of workstations and equipment and the installation of critical lab components, such as fume cupboards, hazardous material storage units and biosafety cabinets.

「Your safe lab is our mission」



PENTA works closely with its clients to provide integrated and innovative solutions, specifically suited to their needs:

- We fully understand and support the needs of all lab users and applications across various sectors.
- Comprehensive project management through all the stages, starting with identifying client needs, through conceptualization, project value-engineering and eventually installation and training.
- Access to our experts for maximum flexibility and support.
- After-sale service support
- A professionally trained installation team



WHY PENTA?

- Highly qualified consultants
- High quality material
- Latest production technologies
- Advanced design capability
- Customization and concept integration
- Competitive value
- Environment-friendly products

Medical Labs by PENTA

PENTA provides a wide range of medical lab furniture which is ergonomically designed, compatible with medical equipment and resistant to high contamination.



Our medical labs can be provided to support hematologic, microbiology, immunology, pathology, cytology and other medical researches' labs.

Our service offering includes design and installation of medical labs integrated with high safety equipment such as bio-safety cabinets, laminar flow along with specialize medical equipment.



Education Labs by PENTA

PENTA designs and builds various labs that meet user requirements, and ensure flexibility, safety and durability for schools, universities and other educational institutes.



School rectangular bench lab.



School hexagonal bench lab.

We customize our products to fit your requirements and space such as:

- Science labs (chemistry, biology & physics)
- Food technology labs
- Robotics & 3D printing labs
- Workshops and fabrication labs
- STEM labs supported by PENTA class room furniture

◆ Other Specialized Labs by PENTA



F&B labs



Forensic labs



R&D labs



Oil & gas labs



Pharmaceutical labs



QC labs



Petrochemical labs



Automotive labs





Wall bench with C-Frame steel structure, mobile steel or wood cabinets and overhead glass door cabinets

PENTA Products Benches

All PENTA lab benches meet the individual needs and lab specific requirements in terms of quality, safety, modularity and ergonomic.



Height adjustable bench for more flexibility.



Double bench with service modules, under-bench cabinet, and knee spaces

We provide various types of benches with different configurations:

- C-frames, A-frame and / or height adjustable frames with different widths and heights. PENTA steady metal frames can provide the highest levels of stability for heavy and unsteady devices used.
- Frameless self-supported pedestal benches with sinks
- Under bench cabinets with three possibilities, suspended to a frame, mobile with wheels or fixed position pedestal.
- Optionally equipped with floor or ceiling mounted vertical and/or horizontal servicing system to accommodate water and gas piping, as well as power or data wiring.
- Tops that fit to client application along with wide range of sinks, faucets and gas fittings.

PENTA Products Special Benches

SAMPLING BENCH

Designed for sampling lower risk solid or liquid materials that don't require fumes extraction system



A – Frame Instruments bench

These benches are designed with high mobility, easy access and durability in mind and to carry the instruments safely.

Balance Table

The balance table is used for analytical balances and other sensitive measuring equipment with vibration damping ability to ensure stable weighing conditions.



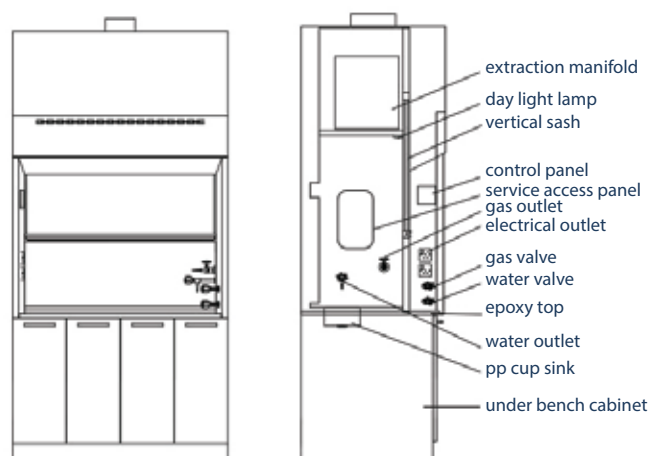
Plinth wall washing unit

PENTA provides versatile washing units for wall and centre benches equipped with large size sinks.



PENTA Products Fume Cupboards

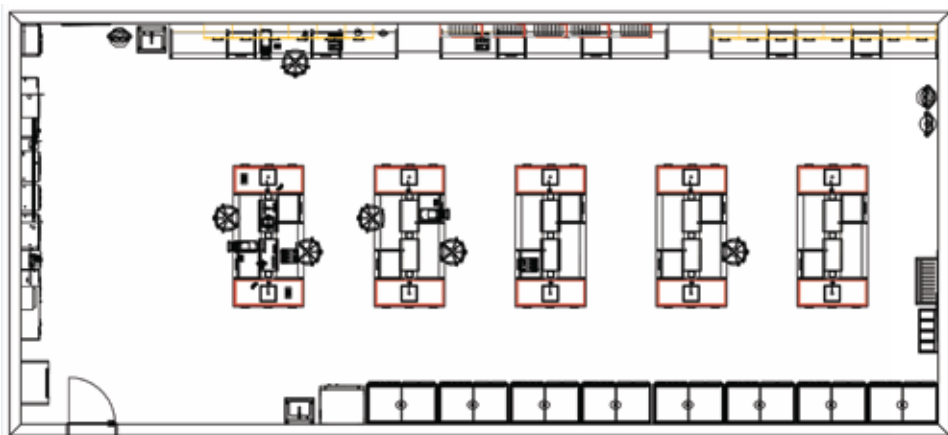
Our certified fume cupboards are designed to ensure user safety and energy efficiency. They are equipped to effectively contain and remove pollutants in the workspace while also optimizing performance for many applications.



PENTA provide fume cupboards for general or high-performance use with different configurations and sizes with or without under bench cabinets, sash opening control, air flow control, lighting, and different accessories.

For more details refer to technical section

Laboratory Planning & Project Cycle



PENTA extends its offering beyond the manufacturing and supplying of lab furniture. We provide full support for planning and coordinating your lab across all project phases

- **First contact**

This phase emphasizes understanding client needs, risk assessment, project coordination requirements and budget expectations.

- **Consultation**

Based on first contact, we provide two-dimensional plans to define the preliminary layout of the lab furniture, spaces utilization, workflow, connection details, and all needed information.



- **3D Designing**

An additional dimension will add a realistic view for your lab, 3D drawings facilitate the final discussion with the end users and project owners.



• Agreement

The project shall be passed through final discussions, amendments, and value engineering, along with colours selections using graphic designing rendering capabilities and final presentation.

•Execution and hand over

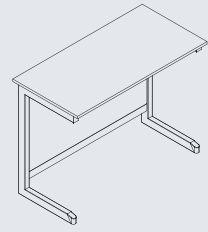
Based on the final agreement, the project will move to manufacturing, installation, final inspection and the final handover.

•Training & Aftersales service

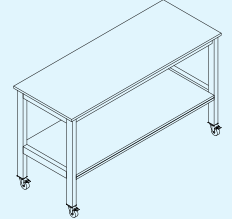
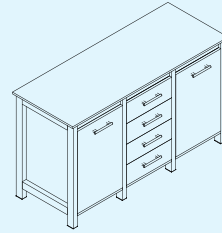
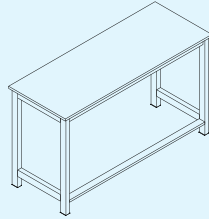
Our team will provide professional training for laboratory commissioning, including fume cupboards and other lab equipment. Keeping your lab furniture in good condition is our mission, our maintenance team promises full support.

◆ PENTA Technical Sheet:

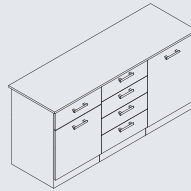
C Frame Details	
W(mm)	450/600/900/1200
H(mm)	750/900
D(mm)	600/750/900/1200/1500/1800



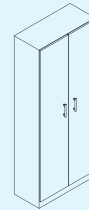
A Frame Details	
W(mm)	450/600/900/1200
H(mm)	750/900
D(mm)	600/750/900/1200/1500/1800



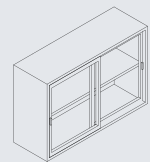
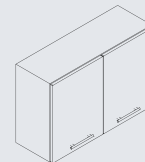
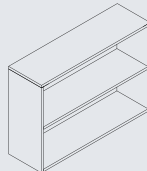
Plinth Bench Details	
W(mm)	450/600/900/1200
H(mm)	750/900
D(mm)	600/750/900/1200/1500/1800



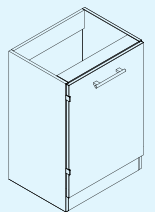
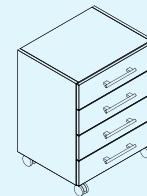
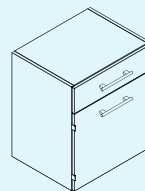
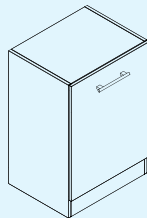
Tall Cabinet Details	
W(mm)	450/600/800/900/1000/1200
Option	Open/Blind/Glass door



Wall Cabinet Details	
W(mm)	450/600/800/900/1000/1200
Option	Open/Blind/Glass door

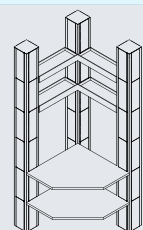
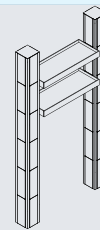
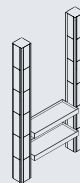
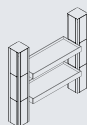


Under Bench Cabinet Details	
W(mm)	450/600/800/900/1000/1200
Option	Mobile/Plinth/Suspended



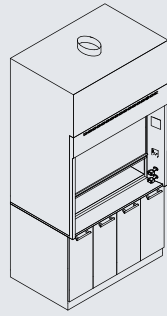
*Different configuration for drawers, doors, and shelves etc...

Reagent Shelf Details	
W(mm)	600/900/1200
Option	Wall/Bench/Ceiling

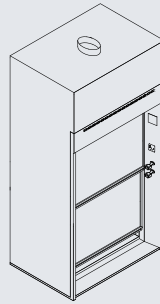


◆ PENTA Technical Sheet:

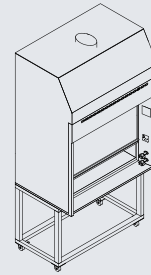
Types of Fume Cupboards



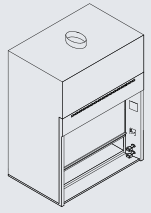
Fumecupbaord
1200/1500/1800/2100/2400



Walkin
Fumecupbaord

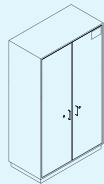


Mobile
Fumecupbaord

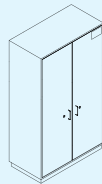


Benchtop
Fumecupbaord

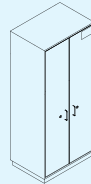
Chemical Storage Cabinet



Classic
standard
XL-V1



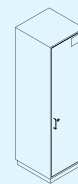
Classic
standard
XL-V2



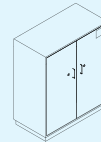
Classic
standard
L



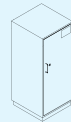
Classic
standard
ML



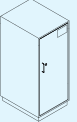
Classic
standard
M



Classic
standard
XS



Classic
standard
SL



Classic
standard
S

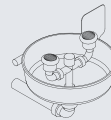
Emergency Shower/ Eye wash



Floor mounted
eye wash with shower



Floor mounted
shower



Wall mounted
eye wash

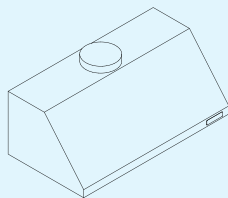


Bench mounted
eye wash double

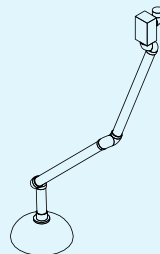


Bench mounted
eye wash single

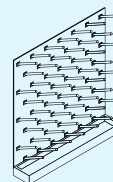
Additional Items



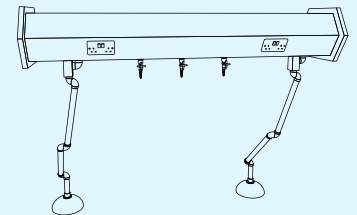
Canopy hood



Extraction Arm



Peg drain board



Over head service unit

◆ Worktop Options



Most panels are available in variants with or without beaded edging



Tabletops

- **Melamine resin panel**
Applications:
-Workstations in dry zones.
eg. documentation tables
- **Phenolic resin panel**
Applications:
-Wet room
-Chemical. Microbiofogical,
genetic engineering labs
- **Stainless steel panel**
Applications:
-For ultra-high demands in the
decontamination field, also
resistance to damp and
foodstuffs
-Biology/ Microbiology
-Pharmaceuticals
- **Solid Ceramic Applications:**
-Areas subject to ultra-high
chemical loading
- **Epoxy**
Applications:
-Areas subject to ultra-high
chemical loading
- **Polypropylene panel**
Applications:
-Areas providing high resistance
to chemicals

* Other materials are available upon request.

◆ Colors Selections

Group A for phenolic wtops



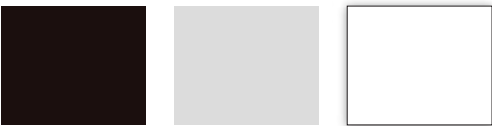
Black

Grey

White

Customized colors can be arranged

Group B (Standard colors in laminate finish)



Black

Grey

White

Group B (Customized colors in laminate finish)



SilverGrey

Maple

Beech

Cherry

Wenge

Group C /For Metal/ Standard



Black

Grey

White

Group C /For Metal/ Customized



Lapis blue

Fire red

Sun yellow

Yellow orange



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