Laboratuvar ve Endüstriyel Cihazlar

"Bringing the Power of Science to Your Laboratory"

CATALOG LABEN

www.labenlab.com

WELCOME TO LABEN - WHERE VISION BECOMES REALITY

Laben designs, manufactures, and installs high-quality laboratory furniture, fume hoods, and biosafety cabinets — tailored to meet the unique needs of your scientific environment.

We create ergonomic, safe, and aesthetically advanced laboratory spaces that optimize your workflow and elevate your research efficiency. From design to installation, every detail is built with precision and purpose.

With over 32 years of expertise, Laben has become a trusted name in laboratory solutions, with a growing presence across 20 countries.

We proudly serve a wide range of industries and institutions, including:
Life Sciences, Biotechnology, Pharmaceuticals, Food Laboratories, Chemical Manufacturing, Universities, and Educational Institutions.

Our commitment to international standards, innovative materials, and sustainable growth ensures that every solution we deliver is modern, efficient, and future-ready.

We don’t just build laboratories — We bring your vision to life.

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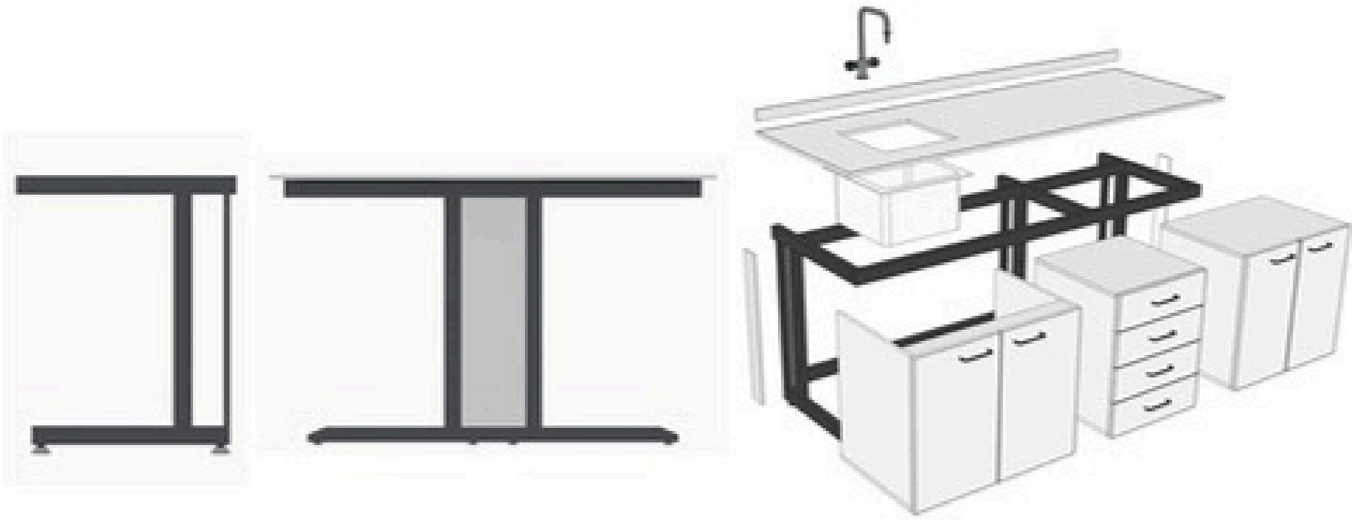
C-FRAME SYSTEM



Laboratory Furnitures & Frame Systems

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C-Frame Systems for Laboratories

C-Frame systems are versatile and durable structures, designed to support heavy laboratory equipment without transferring weight to cabinets, ensuring a long-lasting workspace. These systems are modular and customizable, providing flexibility and adaptability for various laboratory setups.

C-frame systems offer stability, flexibility, and optimal workspace organization with adjustable features and corrosion-resistant finishes.

Structural Features and Stability

C-frame systems offer high load-bearing capacity and a self-supporting structure, providing strong support for both work surfaces and equipment. Made from durable box profiles, carrier systems are produced in various sizes and models to suit specific needs. Equipment weight is transferred directly to the frame, avoiding strain on cabinetry and increasing system durability. Strategic leg placement ensures ample legroom for user comfort, while the under-bench space allows easy addition or removal of lab cabinets without structural modifications—offering excellent flexibility in workspace organization.

Modularity and Flexibility

Advanced models, such as the Exemplaire C-Frame, are designed to decouple the bench structure from the cabinetry entirely. This floor-free design eliminates the need for permanent floor fixtures, allowing for easy reconfiguration without affecting the workspace layout. The system's telescopic floor leveling feature adjusts to uneven floors, ensuring stability across diverse lab environments. Additionally, under-bench storage cabinets can either be pushed underneath or suspended, allowing for quick and easy reconfiguration as required by changing laboratory demands.

Technical Specifications and Manufacturing Details

C-frame systems come in various module sizes, typically available in 60 cm, 90 cm, 120 cm, 150 cm, and 180 cm lengths. This modular construction allows for tailored solutions, enabling the system to fit precisely within specific laboratory layouts. Behind the frame's profile is a cable management channel that accommodates essential utility lines such as electrical and plumbing installations. The width of this channel is 15 cm for side benches and 30 cm for central benches, providing ample space for infrastructure routing.

Surface Treatment and Corrosion Resistance
To ensure longevity and resistance to harsh laboratory conditions, C-frame systems undergo specialized surface treatment. The steel frame is coated with epoxy polyester powder, applied in a thickness of 60-80 microns and cured at 200°C for 30 minutes. This process creates a durable, chemical-resistant finish that protects the structure from corrosion and wear, making it suitable for long-term use in demanding environments.

Adjustable Feet and Floor Adaptation
The base of the steel structure features adjustable pingo feet, made from rigid PVC, that allow for precise height and balance adjustments. These feet ensure the frame remains stable and level, even on uneven surfaces, providing a secure foundation for heavy equipment and ensuring optimal safety in the laboratory.

"Designed with a robust steel frame, C-frame lab benches ensure long-lasting performance and allow easy integration of storage units and accessories."

A-FRAME SYSTEM

Laboratory Furnitures & Frame Systems

A-Frame Systems for Laboratories

A-Frame systems are sturdy and reliable structures, designed to provide stable support for laboratory worktops and equipment. By distributing loads through their angled frame design, they ensure durability and long-term performance. These systems are also modular and customizable, offering flexibility to accommodate diverse laboratory configurations.

A-frame systems maximize under-bench space maximize, efficient integration of storage units and utilities while maintaining a clean and organized laboratory environment.

Structural Features and Stability
The A-frame's self-supporting design offers excellent stability and high load capacity by transferring weight directly to its robust frame, protecting under-bench cabinetry and enhancing durability. It provides ample legroom and allows easy integration of storage units without structural changes. The system fully separates bench support from cabinetry, enabling flexible reconfiguration. Telescopic leveling feet ensure stability on uneven floors, and under-bench cabinets can be freestanding or mounted—offering quick adaptation to evolving lab needs.

Modularity and Flexibility
Available in standard module widths such as 60cm, 90cm, 120cm, 150cm, and 180cm, the A-frame effortlessly supports custom lab layouts. For unique requirements, it can also be manufactured in custom sizes to meet specific project needs. Its design incorporates dedicated cable management channels to neatly route electrical and plumbing services, ensuring a well-organized and efficient workspace.

Surface Protection & Longevity
To maximize durability in harsh lab environments, A-frame systems are coated with high-quality epoxy polyester powder after thorough cleaning and surface treatment. Applied at 60–80 microns and cured at ~200ºC, this finish provides excellent chemical resistance, corrosion protection, and easy cleaning—ensuring long-term structural integrity.

Adjustable Feet and Floor Adaptation
The A-frame base includes chemically resistant, adjustable feet—typically made of rigid PVC—for precise height and balance adjustments. These ensure stability on uneven surfaces, providing a secure foundation for sensitive equipment and supporting lab safety and performance.

FUME HOOD

Fume hoods are one of the most essential pieces of equipment in laboratories, designed to provide a safe and efficient working environment. These systems are engineered to prevent the harmful effects of hazardous substances on users and the surrounding environment. With chemical-resistant structures and high suction capacities, fume hoods effectively remove acid and chemical vapors generated in the workspace and safely discharge them through an exhaust system.

STANDARD FUME HOOD

✓ Complies with EN-14175, ASHRAE-110, and SEFA Standards and is Certified

✓ Epoxy-based electrostatic powder-painted galvanized stee6mm tempered, manually controlled working glass

✓ Epoxy-based electrostatic powder paint coating inside the working chamber Chemical-resistant compact laminate worktop

✓ LED lighting lamp, water and gas service nozzles, and polypropylene drainage sink in the work area

✓ Equipment cabinet under the worktop

✓ Touchscreen color TFT control panel

✓ Lighting lamp control via the control panel

✓ Ventilation fan on/off control via the control panel

✓ Ventilation fan speed control via the control panel

Standard Fume Hood – Technical Specifications

SPEC / MODEL	FH-120	FH-150	FH-180
External Dimensions (W × D × H)	1200×930×2400 mm	1500×930×2400 mm	1800×930×2400 mm
Internal Dimensions (W × D × H)	1000×750×1150 mm	1300×750×1150 mm	1600×750×1150 mm
Front Sash Max Opening	750 mm	750 mm	750 mm
Production Test Standard	EN-14175 / ASHRAE-110 / SEFA-1		
Hood Material	Electrostatic Epoxy Powder-Coated Galvanized Steel		
Worktop	The Standard Worktop is 16mm Phenolic Resin Other Options: Ceramic, Polypropylene, Epoxy, Stainless Steel, HPL		
Control System	TFT Screen		
Service Fixtures	Water tap / Gas tap / Vacuum tap / PP drip cup / Explosion-proof light		
Power Supply	Single Phase		

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CHEMICAL STROGE CABINET

These cabinets are constructed from 1mm double-sided galvanized steel with an epoxy powder coating for durability. They feature ventilated doors with a key lock and crash-closing mechanism for security and controlled airflow. Inside, Drawer Pan Shelves contain spills and prevent leaks from spreading. Ventilation is powered by a 150m³/h polypropylene duct motor, controlled by a Pako Switch on the cabinet's exterior for adjustable speed and on/off operation.

Specification	**CSC90**	**CSC120**
External Dimensions (WxDxH)	900 mm x 500 mm x 2000 mm	1200 mm x 500 mm x 2000 mm
Internal Dimensions (WxDxH)	790 mm x 500 mm x 2000 mm	1090 mm x 500 mm x 2000 mm
Weight (kg)	60	80
Shelf Dimensions	765 mm x 420 mm x 40 mm	1065 mm x 420 mm x 40 mm
Shelf Capacity (kg)	30	30
Duct Connection Diameter	100	100
Ventilation Requirements (m³/h)	150	150

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BALANCE TABLE

This robust balance table is engineered for precision and durability in laboratory settings. It features a chemical-resistant phenolic resin worktop and a 1 mm galvanized steel body with an epoxy powder coating. Stability is ensured by an independent steel scales tower with marble weight panels and a solid marble weighing platform. Integrated adjustable feet, vibration-damping rubber components, and an optional dust collection pan provide essential adaptability for accurate measurements in various environments.

FUMEX LOCAL EXHAUST ARMS

One arm. Endless options.

Fumex local exhaust arms are highly efficient ventilation devices designed to capture hazardous fumes, vapors, and particles directly at the source in laboratory environments. Their flexible design ensures optimal positioning and user-friendly operation.

ME **STD**

Suitableforevacuating most types of airborne contaminants,e.g. in laboratories, schools, hospitals, the pharmaceutical industry, hair salons and light industrial applications.

ME STD has polypropylene joints and thin-wall anodi-sed aluminium tubes.

Available in the dimensions Ø50/75/100 mm.

ME **PP**

Used primarilyfor evacuating very corrosive air-borne contaminants in high concentrations, e.g. in certain laboratories and in the pharmaceutical and chemical industries.

ME PP has polypropylene joints and tubes. All metal parts that come into contact with the airflow are made of stainless steel. Ceiling bracket MTI for ME PP is available with internal epoxy coating for higher corrosion resistance.

Available in the dimensions Ø75/100 mm.

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POLYPROPYLENE SINK

Material: 100% high-purity polypropylene (PP)
Design: Monolithic, seamless one-piece construction
Chemical Resistance: Excellent resistance to acids, bases, and organic solvents
Thermal Stability: Suitable for temperatures up to 100°C

Features:

- Leak-proof and easy to clean
- Lightweight yet mechanically robust
- Low water absorption and high impact resistance
- Applications: Ideal for chemical laboratories, educational institutions, and industrial

DIMENTIONS (mm): 400x400x250

Mechanical Properties

Property	Value	Units	Standards
Density	91	g/cm^3	DIN 53479
Impact Resistance	Does not break	kJ/m^2	DIN 53453
Physiologic Harmless	YES	—	BfArM

Thermal Properties

Property	Value	Units	Standards
Ignition Temperature	350	°C	DIN 53460
Coefficient of Thermal Expansion	16	$k^{-1} \times 10^{-4}$	DIN 53752
Temperature Resistance	0 to +100	°C	DIN 53752
Thermal Conductivity	22	W/m·K	DIN 52612

Other Properties

Property	Value	Units	Standards
Reaction to Fire	V2	%	UL94
	B1	%	DIN 4102
Water Absorption	1	%	DIN 53495

WORKTOPS

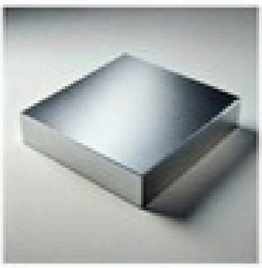
Chemical Resistant Phenolic Resin

Nano Ceramic

Ceramic

Epoxy Resin

Polypropylene



Stainless Steel

HPL

"Laboratory bench work surfaces are offered in Phenolic Resin, Ceramic, Stainless Steel, Polypropylene, HPL etc. with material selection determined by specific chemical resistance requirements and operational needs."

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LABORATORY ACCESSORIES & EQUIPMENTS

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