

COMFORT

The ergonomic and flexible design of CHC Lab products allows the researchers to work in a safer and more comfortable way in any laboratory environment. The modularity of our system permits a fast and cost–effective re–arrangement of the lab design and furniture allocation when required.

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Lab Furniture Level PRO Hard PRO Sink module Underbench & Cabinet Accessory Overhead Service Carrier

Exhaust System Fume Hood Extraction ARM

Lab Chair

Storage Cabinet Clean storage cabinet Storage cabinet Flammable Safety Cabinet

Bio Product

Biological safety cabinet Laminar flow cabinet Ductless Fume Hood Lab Refrigerator CO₂ Incubator

Business Performance





Lab Furniture Products



LEVEL PRO

LEVEL PRO furniture system allows maximum flexibility, coupled with an elegant and modern design. The system features fit perfectly in any dynamic and fast-changing laboratory environment.



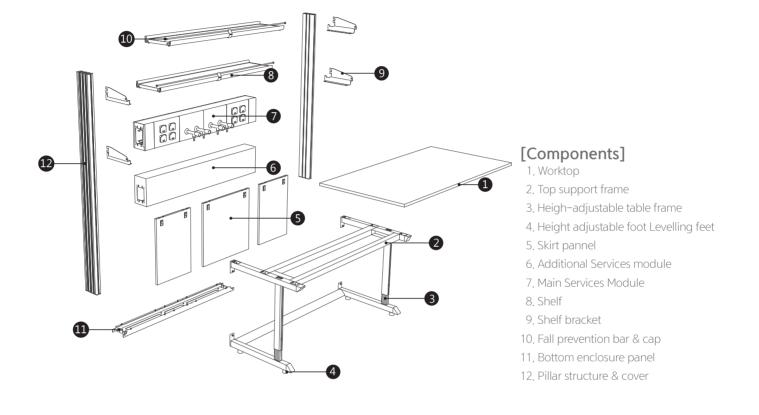
System Description

In order to respond to the needs of a well-designed laboratory, such as a functional and flexible services distribution system, CHC LAB developed LEVEL PRO.

Our services spine, based on easy dismantable, interchangeable and combinable panels, allows for any type of changes in the distribution of taps and electrical components.

The system allows for any services access point, whether from the ceiling, using a drop in the column, or from the floor. The spine can adapt easily to any new requirement arising after the installation without involving any costly and timeconsuming change in the facility services distribution and connections. The Modularity of the system allows for a fast and easy re-allocation of the furniture in any space of the building.

Design Breakdown



Spine Option

Service panels can be combined in different configurations in order to ensure a versatile workspace.

1st ONE ROW OF PANELS : Combination of service panels with shelves (max. 3 levels of adjustable shelves).
 2nd SERVICES WALL : Ideal for heavy serviced areas allowing for multiple equipments connected similitaneously.
 3rd LOW SERVICE SPINE : Allows for services at worktop level and useful to enclose services runing along the walls.

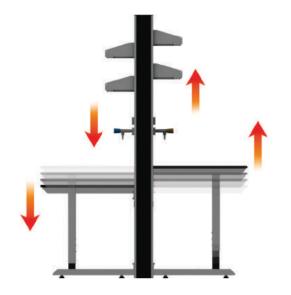


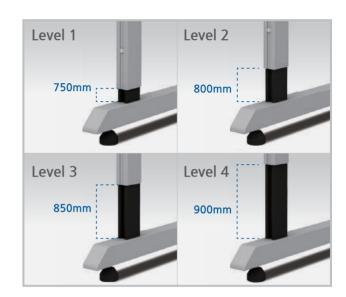
<200mm SERVICE PANELS>

<SERVICE WALL>

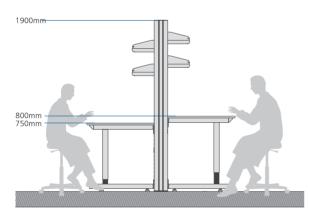
Ergonomics

• 4 Levels height-adjustable lab table

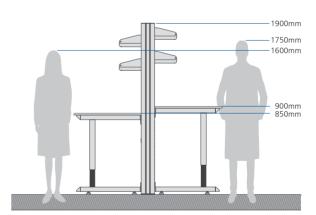




*The distance between floor and work surfaces is 750mm, 800mm, 850mm and 900mm



Sitting position. Distance from floor 750-800 mm



Standing up position. Distance from floor 850–900 mm



Easily Adjustable independent height shelves.

Flexibility

• LEVEL PRO Services module



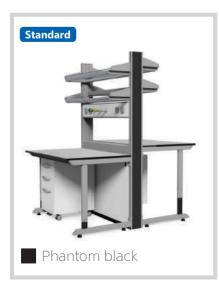
Easily interchangeable service panels. Allows for multiple combinations of taps and sockets depending on needs and requirements.

• LEVEL PRO Skirt panel

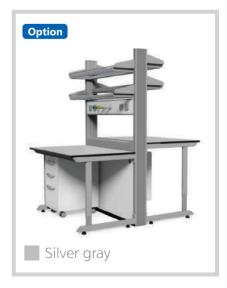


LEVEL PRO skirt panel has a safe and clean design. Can be easily removed, allowing for fast maintenance operations.

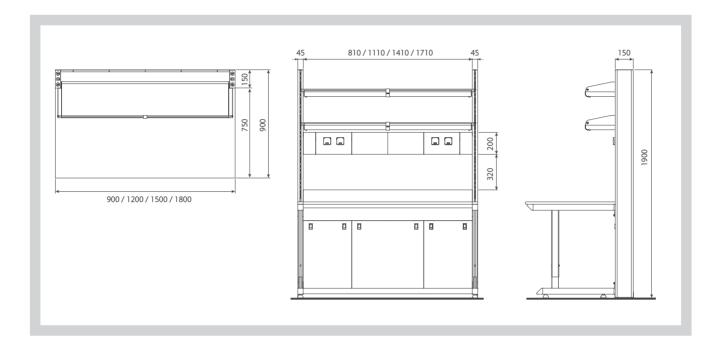
• LEVEL PRO Choice of colors







Dimensional Drawing





PRODUCT LIST

Island Bench	Wi	dth	Depth	Height
Shelf Type	900 / 1200 /	1500 / 1800	1650	900/1900
	– Height adjust	tment : 750 / 800 / 8	350 / 900mm	
· · · ·		0 0 0 0		0 0 0 0
	<u>₽</u> ₽ H-LCS-900	<u>↓ </u>	<u>□</u> H-LCS-1500	H-LCS-1800
Island Bench		dth	Depth	Height
		/ 1500 / 1800	1650	900
	– Height adjust	tment : 750 / 800 / 8	350 / 900mm	
		8 8 8 8		0 0 0 0 0 0 0
	H-LCP-900	H-LCP-1200	H-LCP-1500	H-LCP-1800
Wall bench	Wi	dth	Depth	Height
Shelf Type	900 / 1200 /	1500 / 1800	900	900/1900
~	– Height adjust	tment : 750 / 800 / 8	350 / 900mm	
	0 B 0 B	8 8 8	8 8 8 8 8 8	0 0 0 0 0
· · · ·				
	السلم H-LSS-900	H-LSS-1200	H-LSS-1500	H-LSS-1800
Wall bench		H-LSS-1200	H-LSS-1500 Depth	H-LSS-1800
Wall bench	Wi			
Wall bench	Wi 900 / 1200 /	dth	Depth 900	Height
Wall bench	Wi 900 / 1200 /	dth / 1500 / 1800	Depth 900	Height
Wall bench	Wi 900 / 1200 /	dth / 1500 / 1800	Depth 900	Height

HARD PRO

HARD PRO bench type system is the right solution for heavy duty, less serviced and less changing laboratory environments. Ideally for lab environments with well established procedures.



System Description

To respond to the requirements of a strong and heavy duty laboratory environment, CHCLAB created HARD PRO system.

With a simplified and still ergonomic design, this system ensures durability and sturdiness in all those laboratory spaces where heavy equipment and more consistent and standard processes are required. Safety is increased through a separation of services lines, one for electrical devices and another for taps, while the ergonomics are maintained by the dual adjustment independent shelves system.

Durability

• Utility box



STEEL epoxy coated utility box.Ample internal space for installation and connection of several services.

Easily removable PVC strip for easy access for maintenance and control purpose.

Sturdily attached to spine pillars to avoid bending and twisting.

• HARD PRO frame type



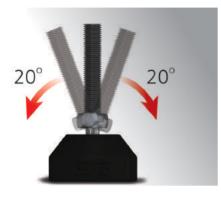
STEEL or ALUMINUM \ll H \gg frame type Tubular 50 x 50 structure, epoxy coated Horizontal and vertical structure welded together to ensure high load capacity.

Skirt panel



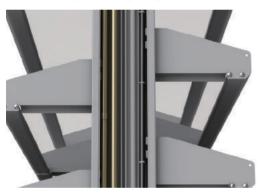
HARD PRO skirt panel, Easily detachable, steel epoxy painted, ensures safety, protects services connections from exposure and allows for easy maintenance and cleaning.

Levelling feet



Levelling feet allow perfect vertical and horizontal level of the table structure.

Multipurpose drop-in pillar structure



The CHC service system counts with a structure of multipurpose epoxy coated steel posts that work both as a structural element, providing unbeatable sturdiness and stability as well as a services drop. Internal width allows the installation of both electricity, data or gases. Easily removable PVC strip for easy access for maintenance and control purposes. Sturdil y attached to the table frame to ensure the stability of the bench structure.

Safety independent shelves



Ergonomics

• Ergonomic dual height adjustment system • Shelf surface options



The dual height adjustable system enables not only to arrange large equipment but also to store the reagent bottles of various sizes with convenience and safety by adjusting the height of the shelves.

Туре		Tempered glass	РВ	Phenolic laminate
	Steel	Option	Standard	Ontion
HARD PRO	Aluminum	Standard	Option	Option

Tempered glass

The tensile strength of tempered glass is 3 times stronger than normal glass.

It has excellent chemical resistance, allows natural light penetration for better desk illumination and permits immediate detection of contamination and leaks of reagents.

Particle board

With an excellent chemical, temperature and physical resistance, it is a very versatile solution.

Phenolic laminate

With increased chemical resistance through L.P.M treatment is a very cost effective sollution

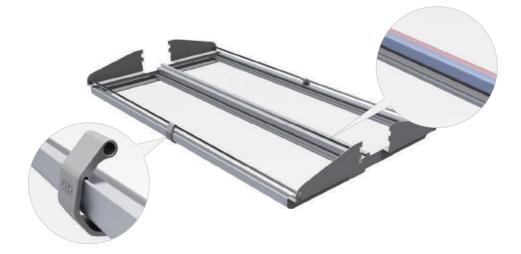
Safety prevention through design(Ptd)

Detachable anti-drop bar :

Can be easily attached and detached by the user. Prevents accidents that can occur when a reagent bottle hits the bump.

Back lip:

Prevents reagent bottles to fall down from the back side.



PRODUCT LIST

		W	/idth	Depth	Unit : Height
Shelf Type			/ 1500 / 1800	1500	900 / 1900
	Steel · Aluminum ·	HR-HCS-900S HR-HCS-900A	00 00 HR-HCS-1200S HR-HCS-1200A	HR-HCS-1500S HR-HCS-1500A	HR-HCS-1800S HR-HCS-1800A
sland Bench			/idth	Depth	Height
siana bench		900 / 1200	/ 1500 / 1800	1500	900
Wall Bench Shelf Type	Steel · Aluminum ·		HR-HCP-1200S HR-HCP-1200A /idth	нк-нср-1500S нк-нср-1500A Depth 750	HR-HCP-1800S HR-HCP-1800A Height 900 / 1900
	Steel · Aluminum ·	HR-HSS-900S HR-HSS-900A	HR-HSS-1200S HR-HSS-1200A	HR-HSS-1500S HR-HSS-1500A	HR-HSS-1800S HR-HSS-1800A
Wall Bench		W	/idth	Depth	Height
		000 / 1000	/ 1500 / 1800	750	900

Unit : mm

Image: Steel · HR-HSC-900S Aluminum · HR-HSC-900A Corner Module			900 / 1900
Steel · HR-HSC-900S Aluminum · HR-HSC-900A	HR-HSC-1200A HI	IR-HSC-1500A Depth	HR-HSC-1800A Height
Corner Module	Vidth	Depth	Height
Corner Module			
		1000	900
Steel · HR-HCN-1000S Aluminum · HR-HCN-1000A Balance Table		Depth	Height
	0 / 1200	750	900

SINK MODULE

Sink units are essential pieces of furniture in laboratory operations. Sinks can be manufactured in several materials. Pegboard, anti-splash screen and emergency eyewash tap can be installed.



Island Module

PB body PUR edging • H-STS-Width Steel body • H-STS-Width-S

Width	Depth	Height	
1500 / 1650	750	900	

Unit : mm

SINK Type

Island & Wall



PB body PUR edging · H-STF-Width Steel body · H-STF-Width-S

Width	Depth	Height
1500 / 1650	750	900

Unit : mm

Wall



PB body PUR edging • H-ST-Width Steel body • H-ST-Width-S

Width	Depth	Height
750 / 900 1200 / 1500	750	900

Unit : mm

Wall (Right / Doule)



PB body PUR edging • H-STD-1500 / H-STR-1500 Steel body • H-STD-1500S / H-STR-1500S

Width	Depth	Height	
1500	750	900	

Unit : mm

General de	escription	Model No.	Туре	Ва	sic	Option
	\land		Body	P.B	Steel	/
		H-STS H-STS-S	Worktop	Ep	оху	Phenolic laminate
Island type		11 313 3	Splashback	Polycarbonate 8mm / One side		Tempered safety glass 8mm / Three side
isidila type	\land		Sink bowl	Ep	оху	/
		H-STF H-STF-S	Water tap	One way wa Mixing	ater faucet & faucet	Eyewash
			Side door	Open		1 Door, 2 Door
		H-ST H-ST-S	Body	P.B	Steel	/
			Worktop	Ероху		Phenolic laminate
			Splashback	Polycarbonate 8mm / One side		Tempered safety glass 8mm / Three side
			Sink bowl	Epoxy (Center)		Epoxy (left or right)
	\checkmark		Water tap	One way wa Mixing	ater faucet & faucet	Eyewash
			Side door	Ор	ben	1 Door, 2 Door
Wall type	\wedge		Body	P.B	Steel	/
		H-STR-1500 H-STR-1500S	Worktop	Ероху		Phenolic laminate
		H-STR-15005	Splashback	Polycarbonate 8mm / One side		Tempered safety glass 8mm / Three side
			Sink bowl	H–STR : Right /	H–STD : Double	H-STR : Left
		H-STD-1500 H-STD-1500S	Water tap	One way wa Mixing	iter faucet & faucet	Eyewash
			Front or side door	H-STR : Open ,	/ H-STD : None	/

SINK BOWL

Polypropylene



Provides exceptional physical and chemical resistance. Required in medium to heavy -duty laboratory environments.

Epoxy resin



Smooth and light material, excellent chemical resistance including hydrofluoric acid. Easy to maintain and clean.

Stainless steel



Two quality options for stainless steel (304 and 316). Excellent mechanical properties, corrosion resistance, heat and cold temperature resistance.

UNDERBENCH & CABINET

Cabinets W/ Drawers



		Dimensions	Material			
	Model No.		(WxDxH mm)	Exterior	Interior	Interior (Option)
	3 drawers	HR-MD3-450	450 x 490 x 800			
PB body		HR-MD3-600	600 x 490 x 800	PB body	P.V.C	P.B
PVC edging	PVC edging 4 drawers	HR-MD4-450	450 x 490 x 800	PUR edging		
		HR-MD4-600	600 x 490 x 800			
	3 drawers	HR-MDS3-450	450 x 490 x 800			
Steel		HR-MDS3-600	600 x 490 x 800	STEEL	CTEEL	P.V.C
Steel	4 drawers	HR-MDS4-450	450 x 490 x 800	SIEEL	STEEL	P.V.C
	4 ulawers	HR-MDS4-600	600 x 490 x 800			

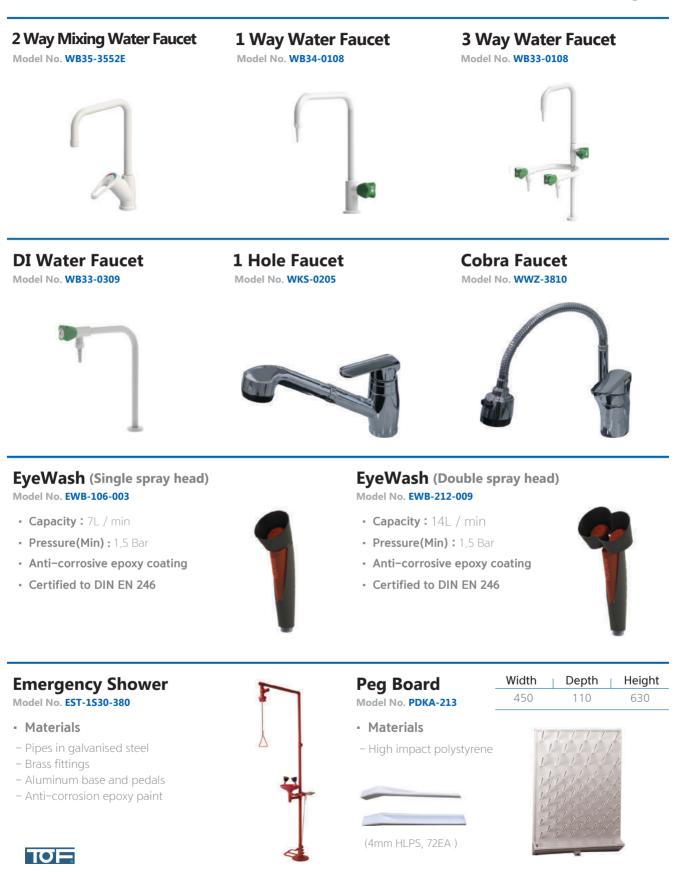
Cabinets W/ Doors



			Mate	orial	
Mc	del No.	Dimensions (WxDxH mm)	Exterior	Interior	
	HR-MC-450	450 x 490 x 800			
PB	HR-MC-600	600 x 490 x 800			
	HR-MC-750	750 x 490 x 800	PB body	PB body	
	HR-MC-900	900 x 490 x 800	PUR edging	PUR edging	
	HR-MC-1050	1050 x 490 x 800			
	HR-MC-1200	1200 x 490 x 800			
	HR-MCS-450	450 x 490 x 800			
	HR-MCS-600	600 x 490 x 800			
	HR-MCS-750	750 x 490 x 800			
Steel	HR-MCS-900	900 x 490 x 800		STEEL	
	HR-MCS-1050	1050 x 490 x 800			
	HR-MCS-1200	1200 x 490 x 800			

ACCESSORIES

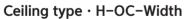
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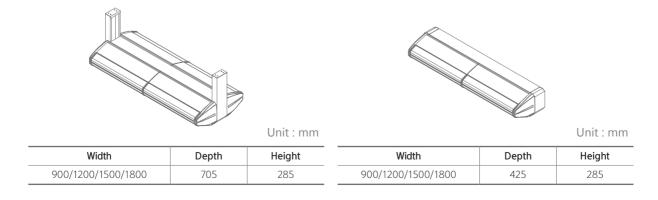
Overhead Service Carrier







Wall type · H-OS-Width



Utility Combinations

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Depending on the requirements, several units can be attached together allowing an extensive possibility of services combination. Extraction arm can be incorporated in this configuration.

Add and Remove Utilities

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Thanks to the easy detachable and interchangeable service panel system, utilities can be added or removed at any time.

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Maintenance Operations

Wing upper lid is designed to be easily opened and allow fast and cheap maintenance operations.











Exhaust System Products





ASHRAE 110-2016

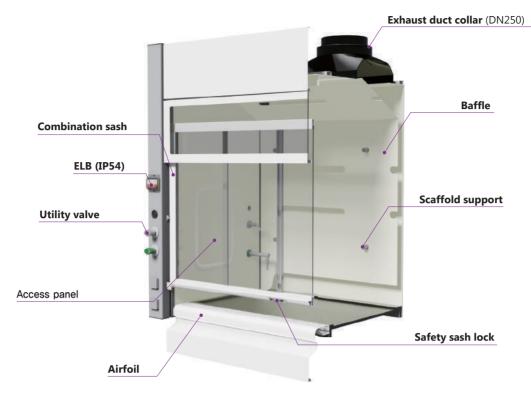


Fume Hood

The Fume hood is an essential equipment to secure the safety of the researchers as well as the laboratory environment from the harmful substances and contaminated gases. CHC Fume Hoods have been gradually improved to comply with the strictest international standards, such as ASHRAE 110–2016 and EN–14175. The highly detailed technical construction and quality of the materials used ensure safety of the end user at any time.

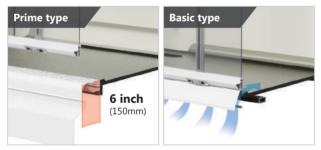


Structural Features





• AirFoil



Enables smooth flow over the work surface to prevent turbulent top levels turbulences

Prime fume hood models include a 6 inch grid that improves safety and collects potential spillages.

• Sash Lock

The Fume Hood sash is mechanically stopped at 500mm height to prevent the exposure to harmful substances or unexpected explosions. The sash stop can be easily removed using just one hand.







Sash lock is conveniently positioned on the sash frame.

If sash needs to be opened more than 500mm, push the lock when opening.

Dished work surface



Raised edge worktop molded with seamless joints prevents spillages and avoids exposure to harmful gases and vapours.

• ELB(IP54)



Easy and safe to handle due ti its frontal location, using the IP54 grade cover.

Safety Gas Valve



Push-turn type valve prevents misuse and increases to ensure safety.

ECO

Combination Sash

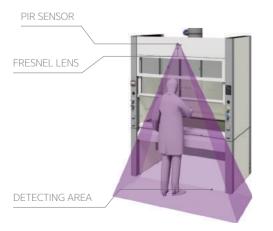


[SASH OPTION 1] One piece sash for full visibility.

[SASH OPTION 2]

Sliding windows to allow easy and safe internal operations without opening up the sash.

• PIR SENSOR(Option)



A PIR sensor, equipped with infrared detection rays, connected to the motorized sash, detects the movements of the users and automatically closes the sash when nobody is using the Fume Hood.

Setting time for automatic door closing can be customized. This function reduces energy consumption and improves safety.



Scaffold Holder



PP scaffold support with strong chemical resistance. Holds the Stainless steel Rack firmly and prevents corrosion.

Easily dismantled for cleaning operations or to be replaced when needed.

Built-In Cabinets



Depending on the laboratory environment, built-in safety cabinets or standard cabinets can be installed under the fume hoods, maximizing space utilization and improving safety.

• Fume Hood Montior



[CHC CONTROLLER KEY FEATURES]

- Adjust damper opening or fan speed (inverter option) depending on the position of the sash to keep constant exhaust volume.
- Face velocity display
- Emergency Exhaust System that opens the damper completely, independently of sash position, allowing maximum exhaust of harmful substances.

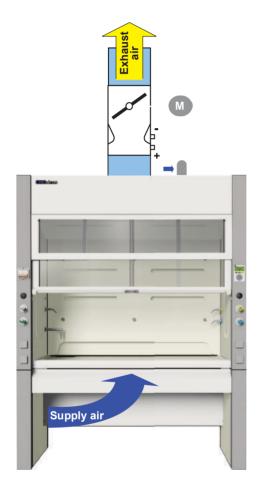


[SCHNEIDER CONTROLLER KEY FEATURES - OPTION]

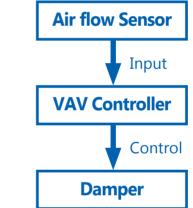
- Extensive applications module.
- VAV sensor module can be installed to automatically control face velocity.
- Automatic sash control via PIR sensor module. Possibility to Set maximum sash opening.
- Sash closing automatically when nobody is using the fume hoods to save energy and ensure safety.
- EN 14175 complying

VAV SYSTEM

Lab Safety & Energy saving







Variable air volume

It ensures the optimal fume hood performance and

energy efficiency by reducing the air flow rate when the sash is closed.

Constant air volume

Depending on the sash position, the face velocity of the fume hood will change. It exhausts the same air volume at all times providing lower performance as the face velocity varies.

ASHRAE 110-2016 EN 14175



Face velocity test

Inflow air velocity is measured in sash opening positions, 20%, 50% and 100% (Avg inflow velocity 0.45±0.05m/s)



Smoke visualization test

By generating smoke at the fume hood front section, it checks the presence of vortex and turbulence.



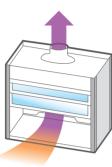
Trace gas containment test

Tests gas leakage by gas sensor. (less than 0.1ppm)



PRODUCT LIST

PRIME





Airflow

• Room air

• Contaminanted air under negative pressure

				A-PR				
Mc	odel No.	1200	1500	1800	2100	2400		
	Width	1200	1500	1800	2100	2400		
Dimensions (mm)	Depth		950					
()	Height			2360				
Color				White & Gray				
Sash type		Combination type						
Safety door sto	p			P.P				
Sash material		Tempered safety glass 5mm						
Cabinet		Option						
Cupsink		1 unit						
External materi	al			Phenolic laminate 6mm	enolic laminate 6mm			
Chamber mate	rial	Phenolic laminate 4mm						
Support stand			50 x 50 x 1.4mm sq pipe, epoxy powder coated					
Worktop			Epoxy resin 25mm (made in korea)					
Power receptac	le		Euro type	4 units (International typ	national type available)			
Lamp			LED, 1 unit		LED, 2 units			
Controller			SCHN	SCHNEIDER(IM50-monitering display)				
Earth leakage circuit breaker				20A, 2 units				
Electrical box				Option				
N₂ valve				1 unit				
Water valve				1 unit				
Air valve				Option				
Collar (Ø)				P.P / 250				
Blower				Option				
Option			· · · ·	Electrical box / STS R es / Cabinet (Under l				

VAV type

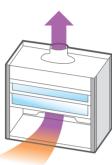
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Airflow

Room air
Contaminanted air under negative pressure

Model No.		A-VA						
		1200 1500 18		1800	2100	2400		
Dimensions (mm)	Width	1200	1500	1800	2100	2400		
	Depth	817						
	Height	2360						
Color		White & Gray						
Sash type		Combination door type						
Safety door stop)	P.P						
Sash material		Tempered safety glass 5mm						
Cabinet		Option						
Cupsink		1 unit						
External material		Phenolic laminate 6mm						
Chamber material		Phenolic laminate 4mm						
Support stand		50 x 50 x 1.4mm sq pipe, epoxy powder coated						
Worktop		Epoxy resin 25mm (made in korea)						
Power receptacl	e		Euro type	4 units (International typ	e available)			
Lamp			LED, 1 units		LED, 2 units			
Controller		CHC LAB						
Earth leakage circuit breaker		20A, 2 units						
Electrical box		Option						
N₂ valve		1 unit						
Water valve		1 unit						
Air valve		Option						
Collar (Ø)		P.P / 250						
Blower		Option						
Option				Electrical box / STS R valves / Cabinet (Unde				

Basic type



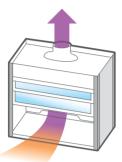


Airflow

Room air
Contaminanted air under negative pressure

Model No.		A-BY						
		1200	1500	1800	2100	2400		
Dimensions (mm)	Width	1200	1500	1800	2100	2400		
	Depth	950						
	Height	2360						
Color		White & Gray						
Sash type		Vertical type						
Safety door stop	C	P.P						
Sash material		Tempered safety glass 5mm						
Cabinet		Option						
Cupsink		1 unit						
External material		Phenolic laminate 6mm						
Chamber material		Phenolic laminate 4mm						
Support stand		50 x 50 x 1.4mm sq pipe, epoxy powder coated						
Worktop		Epoxy resin 25mm (made in korea)						
Power receptac	le		Euro type	4 units (International typ	e available)			
Lamp		LED, 1 units LED, 2 units			2 units			
Controller		On / Off switch (Lamp & Blower)						
Earth leakage circuit breaker		20A, 2 units						
Electrical box		Option						
N₂ valve		1 unit						
Water valve		1 unit						
Air valve		Option						
Collar (Ø)		P.P / 250						
Blower		Option						
Option		Worktop : Epoxy / Window safety film / Electrical box / STS Rack Controller : CHC LAB / Additional utility valves / Cabinet (Under bench) / Blower						

ACID type



Airflow

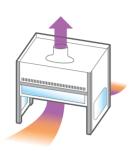
Room air
Contaminanted air under negative pressure

Т



Model No.		A-MC						
		1200	1500	1800	2100	2400		
Dimensions (mm)	Width	1200	1500	1800	2100	2400		
	Depth	950						
	Height	2360						
Color		White & Gray						
Sash type		Vertical type						
Safety door stop		P.P						
Sash material		Tempered safety glass 5mm						
Cabinet		Option						
Cupsink		1 unit						
External material		Phenolic laminate 6mm						
Chamber material		One piece welded pp 4mm						
Support stand		50 x 50 x 1.4mm sq pipe, epoxy powder coated						
Worktop		PVC / P.P						
Power receptacle		Euro type 4 units (International type available)						
Lamp		LED, 1 units LED, 2 units						
Controller		On / Off switch (Lamp & Blower)						
Earth leakage circuit breaker		20A, 2 units						
Electrical box		Option						
N₂ valve		1 unit						
Water valve		1 unit						
Air valve		Option						
Collar (Ø)		P.P / 250						
Blower		Option						
Option		Worktop : Epoxy / Window safety film / Electrical box / TS Rack Controller : CHC LAB / Additional utility valves / Cabinet (Under bench) / Blower						

Table top type





Airflow

🔴 Room Air

 Contaminanted air under negative pressure

Fresh Air

Model No.		A-MT						
		1800 2400 360		3600	4200			
Dimensions (mm)	Width	1800	2400	3600	4200			
	Depth	1500						
	Height	1600						
Color		White & Gray						
Sash type		Vertical type						
Sash material		Tempered safety glass 5mm						
Chamber		1 unit	1 or 2 units	2 units	2 units			
External materia	al		Steel 1.2t (Ep	Steel 1.2t (Epoxy powder coated)				
Chamber material		Phenolic laminate 6mm						
Power receptacle		Euro type 2 units (International type available)						
Lamp		2 units	4 units	Downlight	Downlight / 8 units			
Controller		On / Off switch (Lamp & Blower)						
Electrical box		220V single phase / 20A, 2 units						
Collar (Ø)		P.P / 250						
Option		Window safety film						

EXTRACTION ARM

Ensures the safety of extraction arm laboratory environment, exhausting contaminated air in a specific local area.





Bimos European laboratory chairs provide maximum comfort due to their ergonomic design and as well as long lasting use due to their heavy duty construction.

DIN 68877 ĠMP bimos Ĝ

Functions



Seat height adjustment



Seat swivel range of 20° to the left and right







Labster

bimos

Fin

Cleanroom Plus



FRP (Clean Room Only)



Lab Stool (Backrest)

Model No. Black : CLF-932



Lab Stool

Model No. Black : CLF-925

White Model No. White : Decois-8170





5

White

Order No. Black : 9103-2571

White : 9103-6907

Gray: 9103-6911

G

Seat height adjustment



Black : 9144-2000

38

STORAGE CABINET

Easy maintenance and improved resistance to acid attacks.



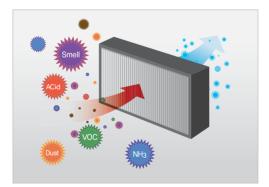
Chemical and Corrosion Resistance

Eco-friendly EO grade PB internal shelves that ensure better resistance thanks to the phenolic laminate finish.



Triple Filtering System

CHC Hybrid Filter is economical because it removes acid, basic and organic gas with one filter.





CLEAN STORAGE CABINET

Closed type

PINUP CE



		C-CLO-800F	C-CLO-8001	
Dimensions	WxDxH(mm)	800 x 50	00 x 2000	
Material	Inner / Outer	Inner : Phenolic Iaminate 4t / Outer : Phenolic Iaminate 6t		
Material	Door	Acrylic(Brown color), 5t		
	Wind speed (m/s)	0.	47	
	Noise (dB)	46 dB/A		
Performance	Lamp	LED Lamp DC 24V / 18W / 0.75A		
Performance	Fan	AXIAL Fan 33W		
	Filter	CHC Hybrid filter(HEPA+기본)	lon Cluster	
	Filter replacement cycle	Average	6 months	
Electric	Power supply	220V or 110V	/ / 50Hz, 60Hz	
	Power consumption	50W	52W	
Capacity	Capacity(ℓ)	Top: 40 / Bottom: 60 (Based on 3 shelves)		
Option		· Additional shelf		

Airflow

Hybrid filtered airContaminanted air



Exhaust type

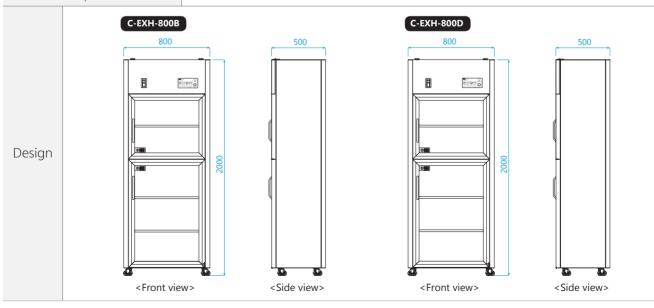




Category		C-EXH-800B	C-EXH-800D		
Dimensions	WxDxH(mm)	800 x 50	0 x 2000		
Matavial	Inner / Outer	Inner : Phenolic Iaminate 4t /	Inner : Phenolic laminate 4t / Outer : Phenolic laminate 6t		
Material	Door	Acrylic(Brown color), 5t			
	Wind speed (m/s)	0.45			
	Noise (dB)	46 dB/A			
Performance	Lamp	LED Lamp DC 24V / 18W / 0.75A			
	Fan	Centrifugal fan 28W	Х		
	Filter	Pre Filter			
Exhaust	Exhaust pipe(Ø)	75			
Electric	Power supply	220V or 110V	/ 50Hz, 60Hz		
Electric	Power consumption	40W	23W		
Capacity	Capacity(l)	Top : 40 / Bottom : 60 (Based on 3 shelves)			
Option		· Additional shelf			

Airflow

Hybrid filtered airContaminanted air



STORAGE CABINET

Storage Cabinet	Width	Depth	Height
Acrylic Door Type	600 / 900	450	1800
	H-ACAB- Width	600 H-AC	AB-900 Height
	600 / 900	450	1800 / 2400
Storage Cabinet	H-ACAB- Width 1200 / 1500 / 1800	600С H-АС/ Depth 450	AB-900C Height 1800
A DECK DECK DECK DECK DECK DECK DECK DECK	H-CAB-1200 Width	H-CAB-1500 Depth	H-CAB-1800 Height
	1200 / 1500 / 1800	450	1800

H-CAB-1200D

H-CAB-1500D



SAFETY CABINET

			Unit : mm
Safety Storage Cabinet	Width	Depth	Height
Double Door	1194	615	1954
990-195-120-WDAC	900 120 cm 120 cm <		
Safety Storage Cabinet	Width	Depth	Height
Single Door	600	615	1954
Q90-195-060-WDAC	Safety La		
Combi Safety Storage Cabinet	Width	Depth	Height
	1200	600	1968
	UN LATEL		
K90-196-120-MF-FWAS		Left	Right



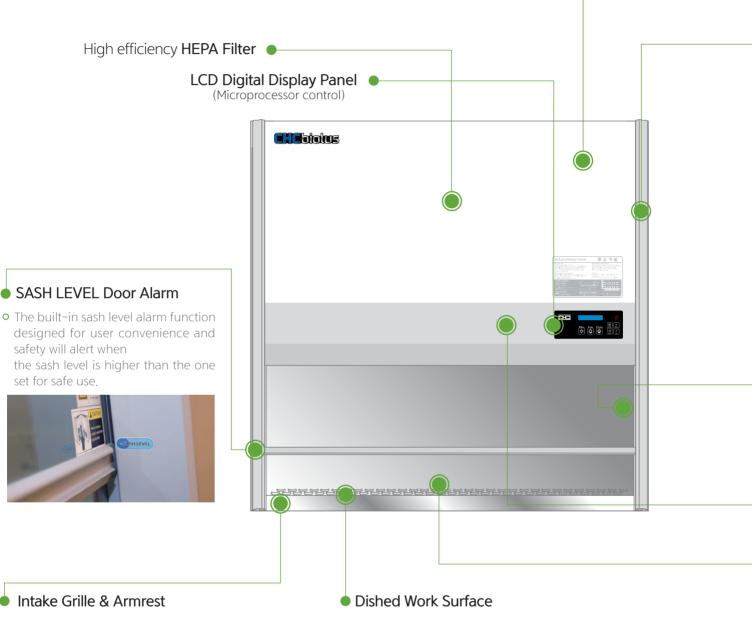


bioall Products



BIOSAFETY CABINET

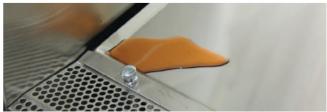
Ensuring perfect containment provides protection for researchers, samples and environments. The high-quality materials used and the modern design make our product one of the best in the market.



- Wide Intake grille and air holes eliminate the risk of cross contamination, both inside and outside the workbench.
- Wide armrest ensures ergonomic work position.

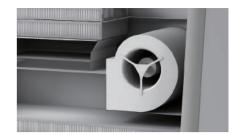


- The raised perimeter single-plate workbench prevents liquid spillage.
- The work surface is easily removeable for easy cleaning and maintenance.



High Performance Blower

• Stable airflow guarantees low noise and vibration-free operation performance with optimal balance and reduced energy consumption.



Ergonomic Design And Double Junction Glass

- The 10-degree tilted ergonomic design of the sash reduces glare allowing a full clear view of the internal chamber.
- 6.38mm laminated double glazing glass(EN 12469 and NSF / ANSI 49 standards certified product)



- The differential pressure gauge is checked in real-time inside the plenum.
- Basically includes one utility valve as standard, and can be installed up to four.
- The electric sockets provided as standard are 220V with safety covers, located on the left and right sides. They can be changed to 110V upon client's.



Non–Filtered Air Protection Hole[™]

• Prevents the inflow of contaminated room air into the internal chamber.



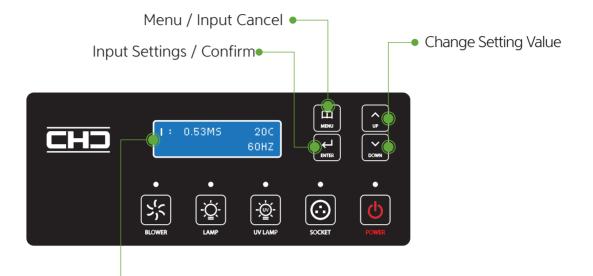
Threshold structure & UV light Leak–free guard

• Armrest and threshold structure ensures that the intake grille's airflow is not obstructed by the user, Completely blocking the UV leakage into the floor gap when the door is closed and the UV lamp is turned on.



Control System

A single control system enables all BSC operation control such as power ON-OFF, blower ON-OFF, lamp ON-OFF, administrator password setting, timer setting (including UV), warm-up and residual air removal time setting.



• LCD Digital Control Panel

- Initial screen displays the incoming wind speed, room temperature and electrical status.
- Alarms functions : Filter to be replaced, indoor temperature too high, electrical failure, filter and UV lamp usage. All alarms can be muted when pushing the MUTE button.
- Warm up timer can be set before work, Post purge can be set after work, and password protection is available for important functions such as administrator mode and settings, to increase safety of operation.
- Easy start sensor is installed to open and close the sash so that the blower and the fluorescent lamp turn on and off automatically

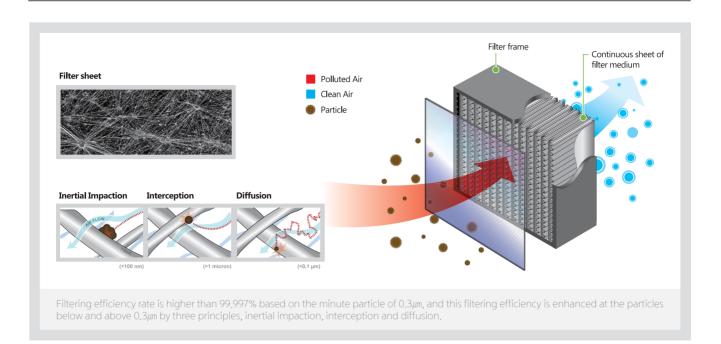
• Configurable Features On Screen

ADMIN Password <u>0</u> 000	1. Setting 2. Timer
Password setting	Timer setting
l) Warm Up Timer 2) Post Purge	3) UV Timer 4) Alarm Timer
Warm up time and post purge	UV and alarm timer setting
4) Filter Expire <u>0</u> 8000 Hour	
Filter usage time	

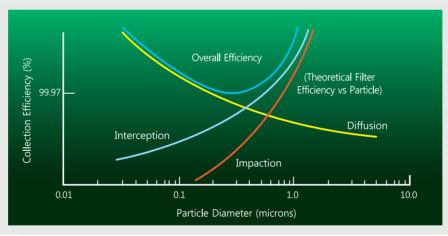
Paper Trap

A paper Trap is installed to prevent external objects to fall on the work surface or being sucked by the blower into the HEPA filter.





HEPA filter eliminates the fine particles of 0.3 µm by 99.997%



^{*} Graph that shows particle interception efficiency of HEPA filter.

Filteration System

Filtering system consists of one Supply filter and one Exhaust filter. Internationally recognized HEPA filter is applied to ensure performance.

Advantages

Low pressure drop Higher flow rate

Longer operating life

Individually tested according to EN 1822

Description

Frame	Anodized extruded aluminium
Gasket	Polyurethane endless at inlet
Media	Glass fiber paper
Separator	Hot-melt beads
Sealant	Polyurethane
MPPS efficiency	H14≥:99.995%
EN 1822 filter class	H14

PRODUCT LIST

Class II Type A2 | CHC-111A2

Airflow

Room air

HEPA filtered air



• Contaminated air under negative pressure

• Contaminated air under positive pressure



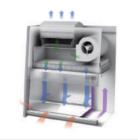
Model No.		CHC-111A2			
MODE	el INO.	04			
	Width		1340		
Dimensions (mm)	Depth		700		
. ,	Height		1360		
Color			White & G	iray	
Sash		Te	empered safe	ety glass	
Control pan	el		LCD pan	el	
Sash level			203 mm (8i	nch)	
External ma	terial	SPCC / A	L with epoxy	powder coated	
Chamber m	aterial		SS 304		
Certification			Х		
Avg. inflow	velocity	0.25 ~ 0.3 m/s			
Avg. Downfl	ow velocity	0.35 m/s			
Filter efficeincy		HEPA filter > 99.997% at 0.3µm			
Noise level (dB A)			< 62		
Nominal exh	aust volume		312 CMH		
Power supp	У	220V, 50/60Hz (110V, 50/60Hz available)			
FL lamp		36W X 2 units			
UV lamp			30W X 1 u	ınit	
Power recep	tacle	U.S type or Euro type (2EA)			
Utility valve		Vacuum (1 unit)			
Drain valve		Included			
Differential pressure gauge		Included			
Exhaust airflow sensor			Include	d	
Option			nper, Hard ex es(gas, air, wa	haust connection, ater), IV bar	
Support sta		port frame eling caster)	Height / mm	705 805	

Class II Type A2 | CHC-222A2

Airflow

Room air

• HEPA filtered air



• Contaminated air under negative pressure

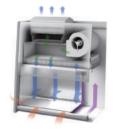
• Contaminated air under positive pressure



			CHC-	222A2			
Mode	Model No.		04	05	06		
	Width	1060	1385	1690	1995		
Dimensions (mm)	Depth		810				
()	Height		15	90			
Color			White	& Gray			
Sash			6.38mm Lan	ninated glass			
Control pane	el		LCD	panel			
Sash level			203 mm	n (8inch)			
External mat	terial	SPCC	/ AL with ep	oxy powder o	coated		
Chamber m	aterial		SS	304			
Certification		CE	EN, CE	CE	EN, CE		
Avg. inflow \	/elocity	0.53 m/s (105fpm)					
Avg. Downfl	ow velocity	0.35 m/s (70fpm)					
Filter efficeincy		HEPA filter > 99.997% at 0.3μm					
Noise level (dB)	< 64					
Nominal exh	aust volume	358 CMH	484 CMH	602 CMH	720 CMH		
Power suppl	у	220V, 50	0/60Hz (110)	√, 50/60Hz a∖	/ailable)		
FL lamp		36W X 2 units					
UV lamp		30W X 1 unit					
Power recep	tacle	U.S type or Euro type (2EA)					
Utility valve		Vacuum (1 unit)					
Drain valve		Included					
Differential pre	essure gauge	Included					
Exhaust airfl	ow sensor	Included					
Option		Airtight damper, Hard exhaust connection, Valves(gas, air, water), IV bar			,		
Support star		port frame	Heigh	l	680		
Sapportatui	(Ureth	nane caster)	/ mm		730		

Class II Type A2 | CHC-777A2

Airflow



Room airHEPA filtered air

Contaminated air under negative pressure
 Contaminated air under positive pressure

			CHC-	777A2				
Mode	Model No.		04	05	06			
	Width	1060	1385	1690	1995			
Dimensions (mm)	Depth		810					
(,	Height		15	90				
Color			White	& Gray				
Sash			6.38mm Larr	ninated glass				
Control pan	el		LCD	oanel				
Sash level			203 mm	(8inch)				
External ma	terial	SPCC	/ AL with ep	oxy powder (coated			
Chamber m	aterial		SS	304				
Certification		UL, KS	NSF, UL, KS	UL, KS	NSF, UL, KS			
Avg. inflow	velocity	0.53 m/s (105fpm)						
Avg. Downfl	ow velocity	0.35 m/s (70fpm)						
Filter efficei	ncy	HEPA filter > 99.997% at 0.3μm						
Noise level (Noise level (dB A)		< 64					
Nominal exh	aust volume	358 CMH	484 CMH	602 CMH	720 CMH			
Power supp	ly	220V, 50/60Hz (110V, 50/60Hz available)						
FL lamp		36W X 2 units						
UV lamp		30W X 1 unit						
Power recep	otacle	U.S type or Euro type (2EA)						
Utility valve		Vacuum (1 unit)						
Drain valve		Included						
Differential pre	essure gauge	Included						
Exhaust airfle	ow sensor	Included						
Option		Airtight damper, Hard exhaust connection, Valves(gas, air, water), IV bar						
Support star		port frame nane caster)	Height / mm		738 838			

Class II Type B2 | CHC-888B2



NSF 49 E 323747 K5 J 0012



Model No.			CHC-88	8B2	
MODE	el INO.	04		06	
	Width	1385		1995	
Dimensions (mm)	Depth		810		
(1111)	Height		1825		
Color			White &	Gray	
Sash		6.3	3mm Lamin	ated glass	
Control pan	el		LCD pa	nel	
Sash level			203 mm (8	Binch)	
External ma	terial	SPCC / A	_ with epox	y powder coated	
Chamber m	aterial		SS 30	4	
Certification			NSF, L	JL	
Avg. inflow	velocity		0.53 m/s (105fpm)		
Avg. Downflow velocity		0.32 m/s (65	ifpm)	0.30 m/s (60fpm)	
Filter efficei	ncy	HEPA filter > 99.997% at 0.3µm			
Noise level (dB A)	< 64			
Nominal exh	aust volume	1390 CM	IH	2092 CMH	
Power supp	y	220V, 50/60Hz (110V, 50/60Hz available)			
FL lamp		36W X 2EA			
UV lamp		30W X 1EA			
Power recep	otacle	U.S type or Euro type (2 units)			
Utility valve		Vacuum (1 unit)			
Drain valve		Included			
Differential pre	essure gauge	Included			
Duct (Ø)		25	250 / Option(200/300)		
Hard exhaus	Hard exhaust connection		Included		
Airtight damper			Includ	ed	
Exhaust airflow sensor			Included		
Option		Valve	es(gas, air, w	vater), IV bar	
				700	
Support sta		port frame hane caster)	Height / mm	738	
	(Ulet	nune custer/	/ !!!!!	838	

Class II Type A2

Bioall's Bio Safety Cabinet ensures perfect containment providing protection for researchers, samples and environment. The highquality materials used and the modern design make our product one of the best in the market.



			NB-704	NB-706	
	External	W x D x H(mm)	1330 x 755 x 1600	1940 x 755 x1600	
	Internal	'Wx'Dx'H(mm)	1220 x 620 x 700	1830 x 620 x 700	
Dimensions		Color	White	& Gray	
(mm)		sash	6,38mm Larr	iinated glass	
	Cor	ntrol Panel	Touch Scr	een panel	
	Sash	level (mm)	203 (8	Binch)	
Material	E	External	SPCC / Epoxy p	powder coated	
Material	C	hamber	SS 3	304	
	Cer	rtification	UL, KS	J 0012	
	Avg. Inflow/Downflow Velocity		0.53 m/s (105fpm) / 0.30 m/s (60fpm)		
Performance	Filter Efficiency		ULPA filter > 99.9999% at 0.12µm		
	Noise Level (dB A)		< 64		
	Nominal Exhaust volume		484 m³/h	720 m³/h	
	Safety Alarm System		Warm-up & Post-purge, UV Lamp interlock, UV timer, UV Safety Sensor, sash Sensor		
	Power Supply		220V, 50/60Hz(Option: 110V, 50/60Hz)		
	LED lamp		15W x 2 units		
Electricity	UV Lamp /	Power Receptacle	30W x 1 unit / U,S type or Euro type (2 units)		
	Power Consu	mption (220V/110V)	3A, 660W / 3A, 330W	4A, 880W / 4A, 440W	
Valve	Ut	ility valve	Vacuum (1 unit)		
vaive	Drain v	alve assembly	Included		
Exhaust	Exhaust Airflow Sensor		Included		
Others	Differential Pressure Gauge		Inclu	ided	
Options	· SS IV bar	· Additional service val	ves (gas, air, water) · SS 316 Internal mate	erials · Hard Exhaust connection	
				675	

	Support frame		675
Support stand	(Urethane caster)	Height / mm	775

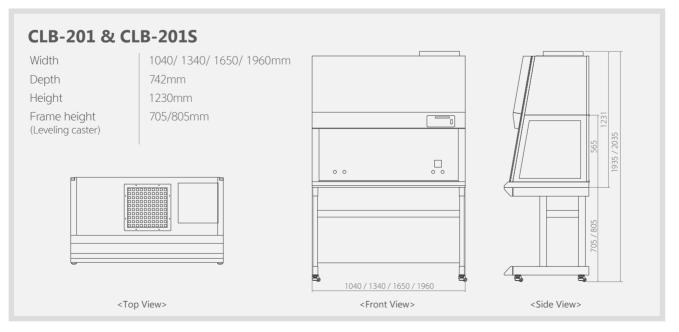


LAMINAR FLOW CABINET

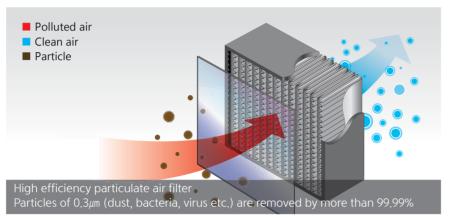
Provides product protection from airborne particulates and cross contamination. Available with horizontal or vertical laminar flow, provide a HEPA–filtered environment.



Design



HEPA filter



Electrical receptacle & Utility valve



Conveniently allocated inside the work chamber. Electrical socket provided with protection cover for safety. Up to four valves can be installed.

Leveling caster



Allows easy movement of the cabinet and perfect leveling. Improves load capacity safe break function.

Differential pressure gauge



LCD control panel



Full controlling functions display.

Laminar flow cabinet and Biological safety cabinet differences

By usage purpose

Laminar flow cabinet provides only product protection for the researcher. Biological safety cabinet provides personnel, product and environment protection

By airflow

Laminar flow cabinet

Clean air through HEPA filter flows inside the chamber and protects products from contaminated air.

Biological safety cabinet

70% of the airflow at workspace is re-circulated through the HEPA Filter and 30% of it is exhausted to the outside through HEPA filter, and the polluted airflow is not leaked as it is perfectly surrounded by the negative pressure.

By product

The product classified as BSL 1, harmless to human will be treated in laminar flow cabinet, and the product classified as BSL 2 or 3, high risk to human will be treated in biological safety cabinet.



PRODUCT LIST

Vertical Laminar Flow Cabinet

CE

Airflow





Room airHEPA filtered air

Model No.		CLB-201				
		03	04	05	06	
	Width	1040	1340	1650	1960	
Dimensions (mm)	Depth	742				
	Height	1230				
Color		White & Gray				
Sash		Te	mpered safe	ty glass(5m	m)	
Control pane	el		LCD	panel		
External material		SPCC	/ AL with ep	oxy powder o	coated	
Worktop			SS	304		
Certification		CE				
Avg. Downflow velocity		0.3~0.4 m/s (Variable set speed)				
Filter efficeincy		HEPA filter > 99.995% at 0.3μm				
Pre-filter		Nylon filter				
Noise level (dB A)		≤ 65				
Safety alarm	l	UV timer				
Power suppl	у	220V, 50/60Hz (110V, 50/60Hz available)			vailable)	
FL lamp		36W 3	36W X 1EA 36W X 2E		X 2EA	
UV lamp		20W X 1EA		30W X 1EA		
Power receptacle		U.S type or Euro type (1EA) U.S type or Euro t (2EA)				
Utility valve		Vaccum(1 unit)				
Differential pressure gauge		Included				
Option		Utility hole, Valves(gas, air, water)			ater)	
		port frame eling caster)	Heigh / mm	ι	705 805	

Vertical Laminar Flow Cabinet







CE

Room airHEPA filtered air

Model No.		CLB-201S				
		03	04	05	06	
	Width	1040	1340	1650	1960	
Dimensions (mm)	Depth	742				
. ,	Height	1230				
Color			White	& Gray		
Sash		Tei	mpered safe	ty glass (5m	im)	
Control pane	el		LCD	panel		
External mat	erial	SPCC ,	/ AL with ep	oxy powder	coated	
Worktop			SS	304		
Certification		CE				
Avg. Downflow velocity		0.3~0.4 m/s (Variable set speed)				
Filter efficeincy		HEPA filter > 99.995% at 0.3μm				
Pre-filter		Nylon filter				
Noise level (dB A)		≤ 65				
Safety alarm		UV timer				
Power suppl	у	220V, 50/60Hz (110V, 50/60Hz available)			vailable)	
FL lamp		36W X 1EA		36W X 2EA		
UV lamp		20W X 1EA	30W X 1EA			
Power receptacle		U.S type or Euro type (1EA) U.S type or Euro t (2EA)				
Utility valve		Vaccum(1 unit)				
Differential pressure gauge		Included				
Option		Utility hole, Valves(gas, air, water)				
	, Sun	port frame	Heigh	t	705	
Support star	Support stand (Leve		/ mm		805	

CE

Horizontal Laminar Flow Cabinet

PCR Workstation

CE

Airflow





Room airHEPA filtered air

Model No.		CLB-202D					
		03	04		05	06	
	Width	1040	1340	1	650	1960	
Dimensions (mm)	Depth	800					
	Height	1300					
Color		White & Gray					
Sash		Tei	mpered safe	ety gla	ss (5mr	m)	
Control pane	el		LCD	panel			
External mat	terial	SPCC	/ AL with ep	oxy p	owder c	oated	
Worktop			SS	304			
Certification		CE					
Avg. Downflow velocity		0.3~0.4 m/s (Variable set speed)					
Filter efficeincy		HEPA filter > 99.995% at 0.3μm					
Pre-filter		Nylon filter					
Noise level (dB A)	≤ 65					
Safety alarm	1	UV timer					
Power suppl	У	220V, 50/60Hz (110V, 50/60Hz available)				ailable)	
FL lamp		36W X 1EA 36W X 1		(2EA			
UV lamp		20W X 1EA 30W X 1EA					
Power receptacle		U.S type or Euro type (2EA)					
Utility valve		Vaccum(1 unit)					
Differential pressure gauge		Included					
Option		Utility hole, Valves(gas, air, water)					
Support stand		port frame eling caster)	Heigh / mn			705 305	
	(2000	g cuoter)	,		CUO		

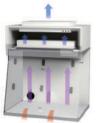




Model No.		CLB-060		CLB-060F			
		03	04	03	04		
	Width	900	1200	900	1200		
Dimensions (mm)	Depth	665					
	Height	975					
Color			White	& Gray			
Sash		Polycar	bonate 8mm	(Front poldir	ng sash)		
Control pan	el		Touch scr	een panel			
External ma	terial	SPCC	/ AL with ep	oxy powder (coated		
Worktop		Phenolic laminate 19mm					
Support stand		None Included			uded		
Certification		CE					
Avg. Downflow velocity		0.3~0.4 m/s (Variable set speed)					
Filter efficeincy		HEPA filter > 99.995% at 0.3μm					
Pre-filter		Nylon filter					
Noise level (dB A)		≤ 65					
Safety alarm	1	UV timer					
Power supp	У	220V, 50/60Hz (110V, 50/60Hz available)					
LED lamp		12W X 1EA					
UV lamp		15W X 1EA					
Power receptacle		U.S type or Euro type (1EA)					
Utility valve		None					
Utility hole		Included					
Differential pressure gauge		None					
Support sta		port frame eling caster)	Heigh / mm		720 820		

DUCTLESS FUME HOOD

Represents the optimal solution for old buildings where adjustments on services and exhaust connections are more difficult. The transparent acrylic material used on the 3 sides ensures increased visibility.

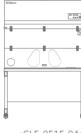




- Fume (gas, vapor)
- Clean air







<CLE-051F-04>



CE

Model No.		CLE-051		CLE-051F			
		03	04	03	04		
	Width	900	1200	900	1200		
Dimensions (mm)	Depth	665					
	Height	1025					
Sash			Polycarbonate 8mm	(Front polding sash)			
Control Panel		Touch screen panel					
External material SPCC /			SPCC / AL with epo	h epoxy powder coated			
Support stand None		ne	Included				
Worktop			Phenolic laminate 19mm				
Power supply			220V, 50/60Hz (110V, 50/60Hz available)				
Noise level (dB A) ≤ 65							
Organic		Fume(gas, vapor) from organic solvents					
Carbon filter	Acid gas	Fume(gas, vapor) from acids					
Support Stand		No			720 mm		
(Leveling o	caster)	INC	None		820 mm		
Option			Water tap, Cupsink, HEPA Filter				

Maintains a Safe Refrigeration Temperature

Equipment for precise temperature control and maintenance that fulfills a variety of storage requirements for industrial, clinical and scientific applications.

-LCD Touch display controller

LED Lamp Optimum visibility

Shelf Simple installation and removal system to adjust shelves easily

Double tempered glass

glass temperature ensures stability and reduces heat loss

Leveling casters Level adjustment with integrated lock



B-REF-120S

Model No.		B-REF-060S	B-REF-120S		
Dimensions (mm)	WxDxH(mm)	653 x 800 x 1914	1280 x 800 x 1914		
	Capacity(L)	445	960		
	Door	1EA	2EA		
	Shelves	4EA	8EA		
	Control Panel	Touch screen panel			
	External/Internal	Stainless steel			
Material	Door	Tempered glass door			
	Handle	AL handle(Black)			
	Insulator	HCFC-141b High-density urethane insulation			
	Define and / Deep	R-134a			
	Refrigerant/ Dose	120g	150g		
	Shelf	Perforated Stainless steel 0.8mm (Load 35kg/ea)			
	Temperature range / control unit(℃)	1~10 / ±0.1			
	Cooling system	Indirect cooling system			
Performance	Cooling Fan	4W,Ø150 / 1 unit	4W,Ø150 / 2 units		
	Defrost heater (Cross bar & Body)	36±5W	70±5W		
	Noise	<60dB			
	LED Lamp	20W x 1 unit	20W x 2 units		
Electricity	Power Supply	220V 50/60Hz, 1	10V 50/60Hz		
	Power Consumption	257W	405W		
Others	Weight (Kg)	106	162		

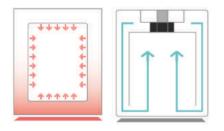
CO₂ **INCUBATOR**

Incubator ensures the optimal cell growth creating "IN VI TRO" conditions, and reducing experimental variability. Increased security helps to reduce the loss of time caused by contamination.

Main Feature

- · Touch LCD control panel
- · Accurate temperature maintenance
- · Non-dispersion dual beam IR sensor
- · Internal reinforced glass door
- · Internal circulation system

Internal Circulation System





	Model No	D.	bioall-180CA	bioall-180CS	
Dimensions	Overall	WxDxH(mm)	633 x 634 x 965		
(mm)			540 x 500 x 680		
Certification		on	CE		
	Capacity(L)	18	0	
Color			White		
Du		External	SPCC, Silicone magnet door		
Doo		Internal	Tempered s	afety glass	
	Control pa	nel	Tonch scre	een panel	
	Shelves		3 units (Ac	ljustable)	
Fan			Internal convection fan		
Material External Internal		External	SPCC with epoxy powder coated		
		Internal	Stainless steel		
Shakey			None	Included	
Humidification		ion	Up to 95% RH at 37°C		
CO ₂ accuracy		асу	± 0.1% to 5%		
CO ₂ range		e	0~20%		
	CO ₂ sense	or	Dual-beam non dispersive infa-red sensor		
	Temperature	range	Ambient +5°C to 50°C		
٦	emperature a	ccuracy	± 0.1°C to 37°C		
	Temperature o	control	Digital PID controller		
	Temperature s	sensor	Resistance temperature detector (R.T.D)		
Heating system		tem	Air jacket heating system		
Safety device		ice	Exclusive over temp, protector		
	Power		AC 220V(110V), 50/60Hz, 1phase, 4A		
	Weight		102 Kg		
Option			RS-485 Communication Port, Print Support, CO2 Gas Regulator, Comport Cable, Software		



Lab Furniture System

Reference Projects



















Lab Furniture System

chalab showroom











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