



ONE STOP TOTAL LABORATORY SOLUTION

ROBUST®

Certified ISO 9001:2015



DESIGN & BUILD FURNITURE LABORATORY



PUSATNYA CRM DAN KIMIA PRO ANALIS DI INDONESIA

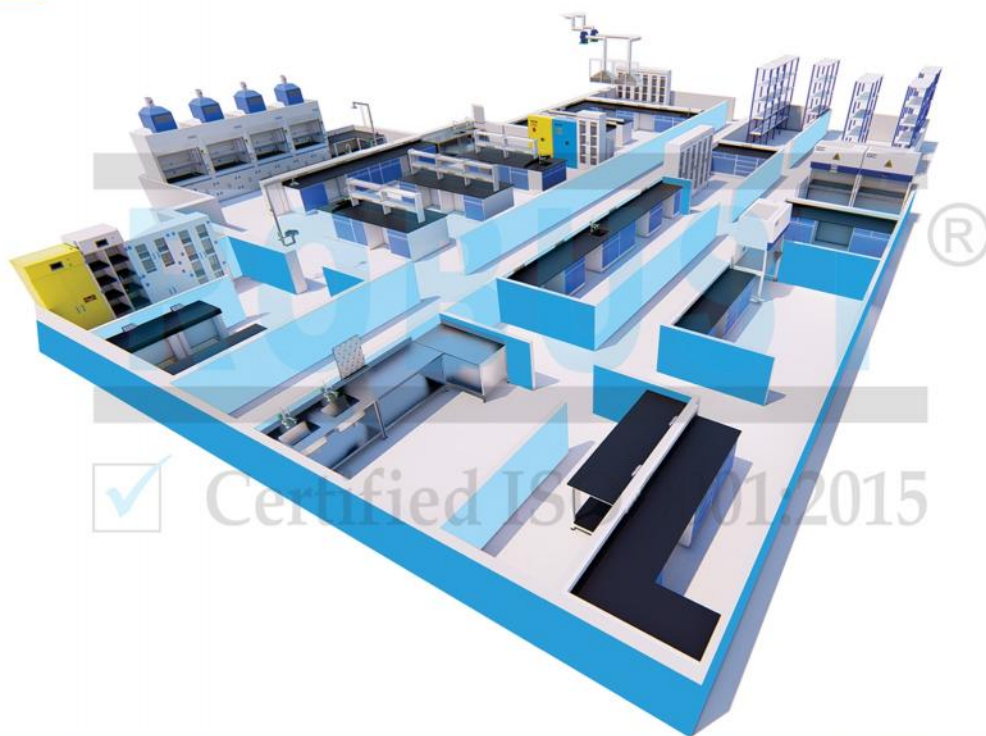


Analytical Reagen • CRM • Glassware & Plasticware • Cupel Crucible • Flux

Office : Jl. Bintaro Permai Raya No.3 Bintaro - Pesanggrahan, Jakarta Selatan 12330
Factory 1 : Jl. Kav. DPR No.1 Serua - Bojongsari, Depok, Jawa Barat 16517
Factory 2 : Jl. Pangkalan 5 No.49, Ciketing Udik - Bantar Gebang, Bekasi, Jawa Barat 17153
Factory 3 : Jl. Perum Royal 1 Jatisari - Jatiasih, Bekasi, Jawa Barat 17426
Chemical Warehouse: Jl. Cinangka Raya No.35 Kavling Pertamina, Kedaung, Sawangan, Depok

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DESIGN AND BUILD FURNITURE LABORATORY

PT. ROBUST MULTILAB SOLUSINDO established as a laboratory appliances and chemicals supplier, after comprehending customer needs for furniture laboratory, Robust then recruited reliable professionals to have an expansion to play in this business.

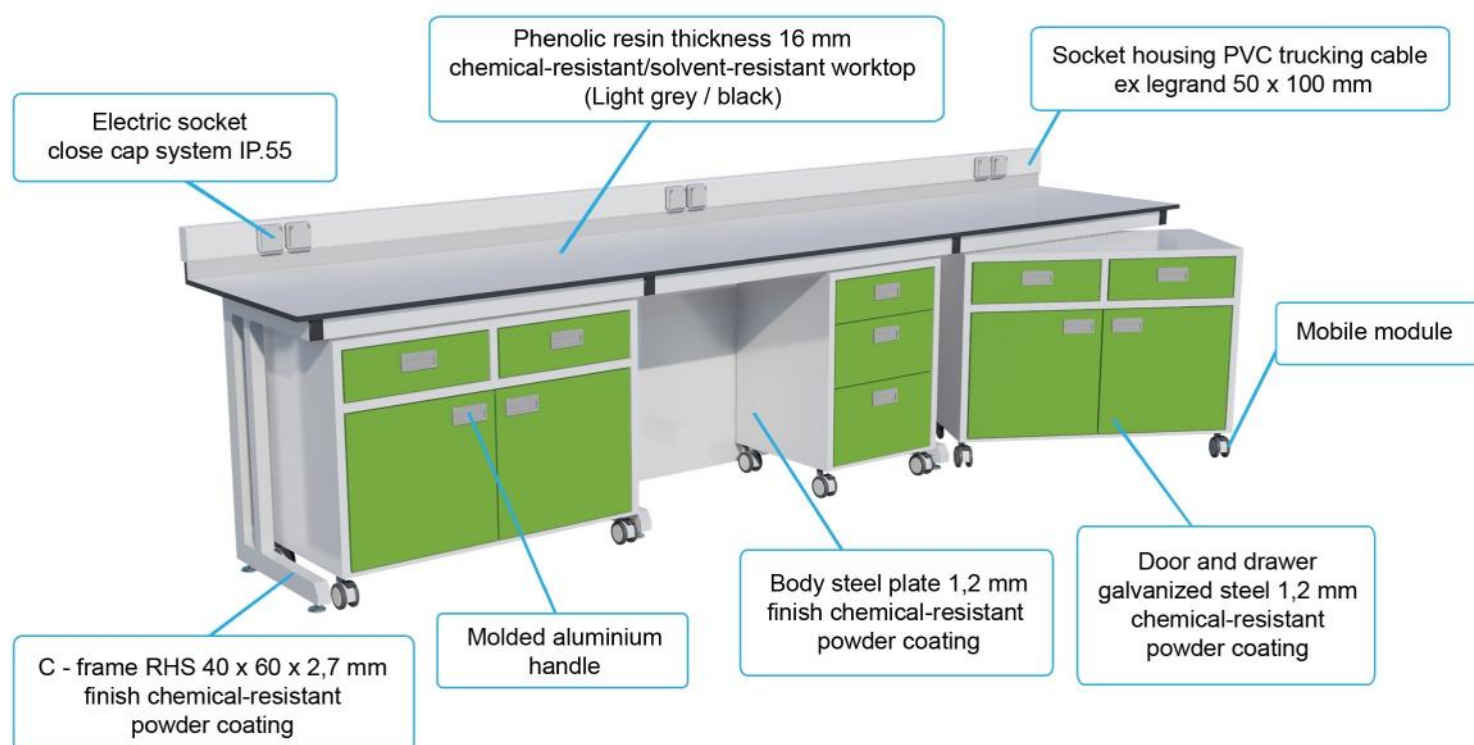
Advanced production technologies combined with continuous research and development from our trained professionals have created excellent furniture laboratory that fulfills many laboratory standards.

Robust becomes a partner to the business owner, lab user, consultant, contractor, distributor and architect to satisfy all laboratory needs. Our professional team offers a total solution for creating an excellent and futuristic laboratory to date.

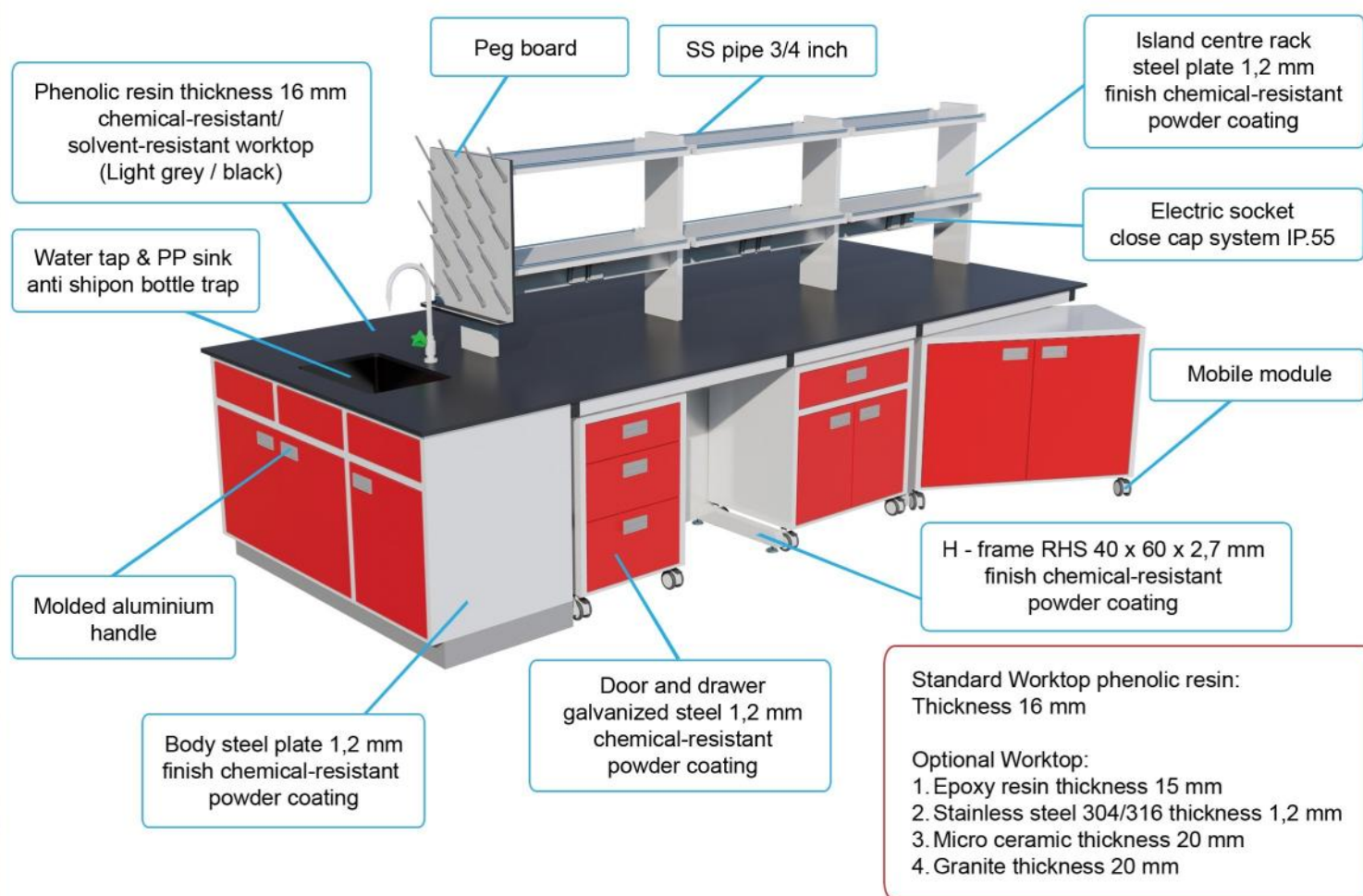
ROBUST's Certifications

- ✓ ROBUST Brand Certificate
- ✓ TKDN Certificate
- ✓ ISO 9001 - 2015 (Quality Management System)
- ✓ ISO 45001 - 2018 (OHSAS 45001/Health & safety Management System)
- ✓ SEFA 8 - 2010 (Laboratory Grade Metal Casework)
- ✓ SEFA Member, Top Table
- ✓ SEFA 3 - 2010, Chemical/Stain Chemical
- ✓ ANSI / ASHRAE 110-1995 (Fume Hood)
- ✓ OSHA 1910, FM 6050, NFPA 30, (Chemical Storage)
- ✓ NSF / ANSI 2016 Annex F (LAF)
- ✓ NSF / ANSI 2016 Annex F (BSC)

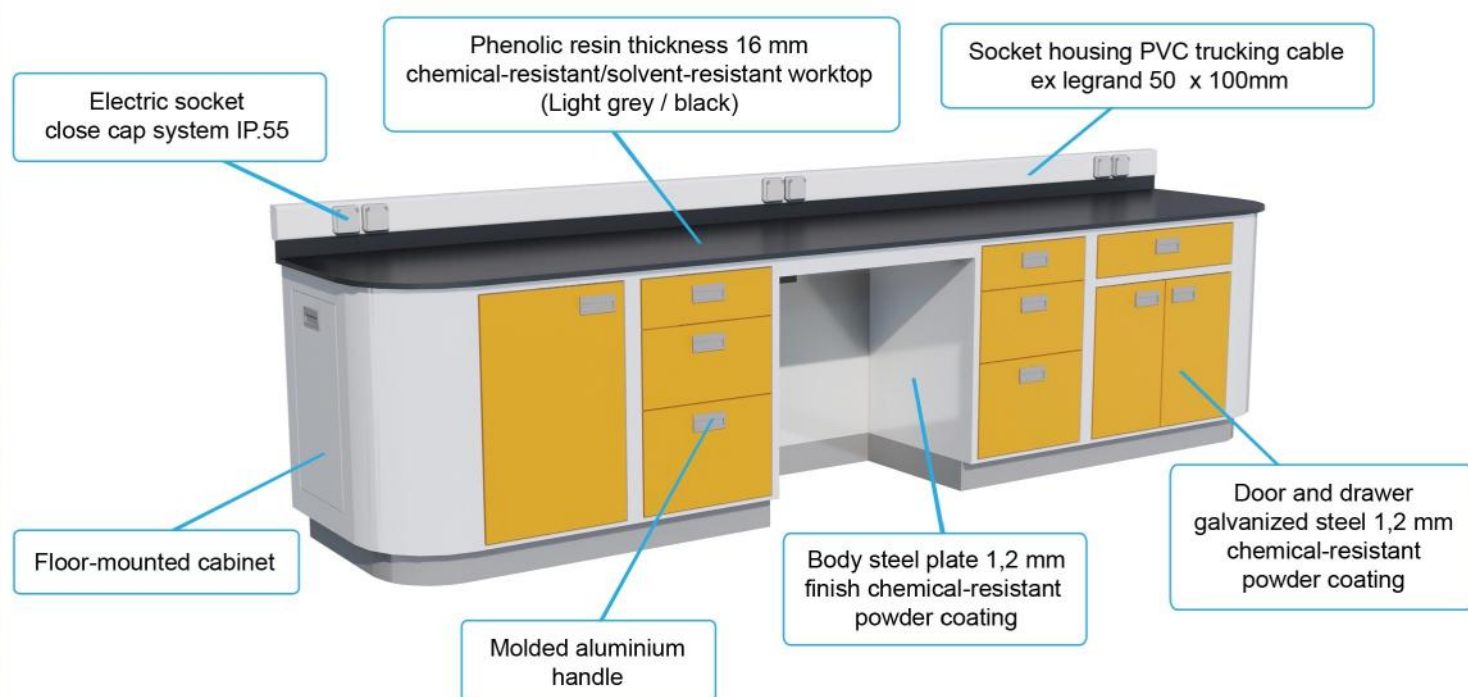
ROBUST WALL BENCH STEEL (Mobile Under-Bench Cabinet System)



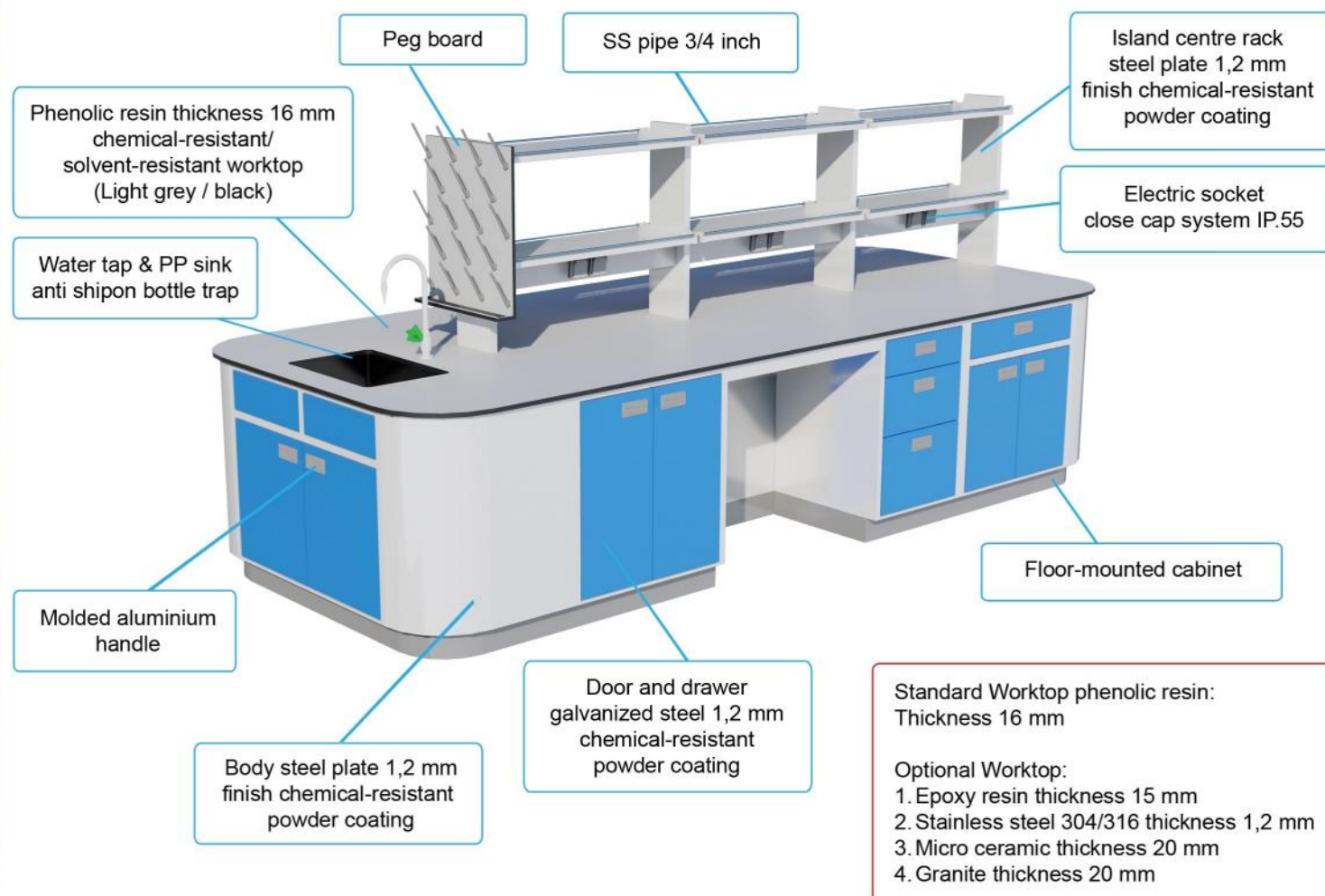
ROBUST ISLAND BENCH STEEL (Mobile Under-Bench Cabinet System)



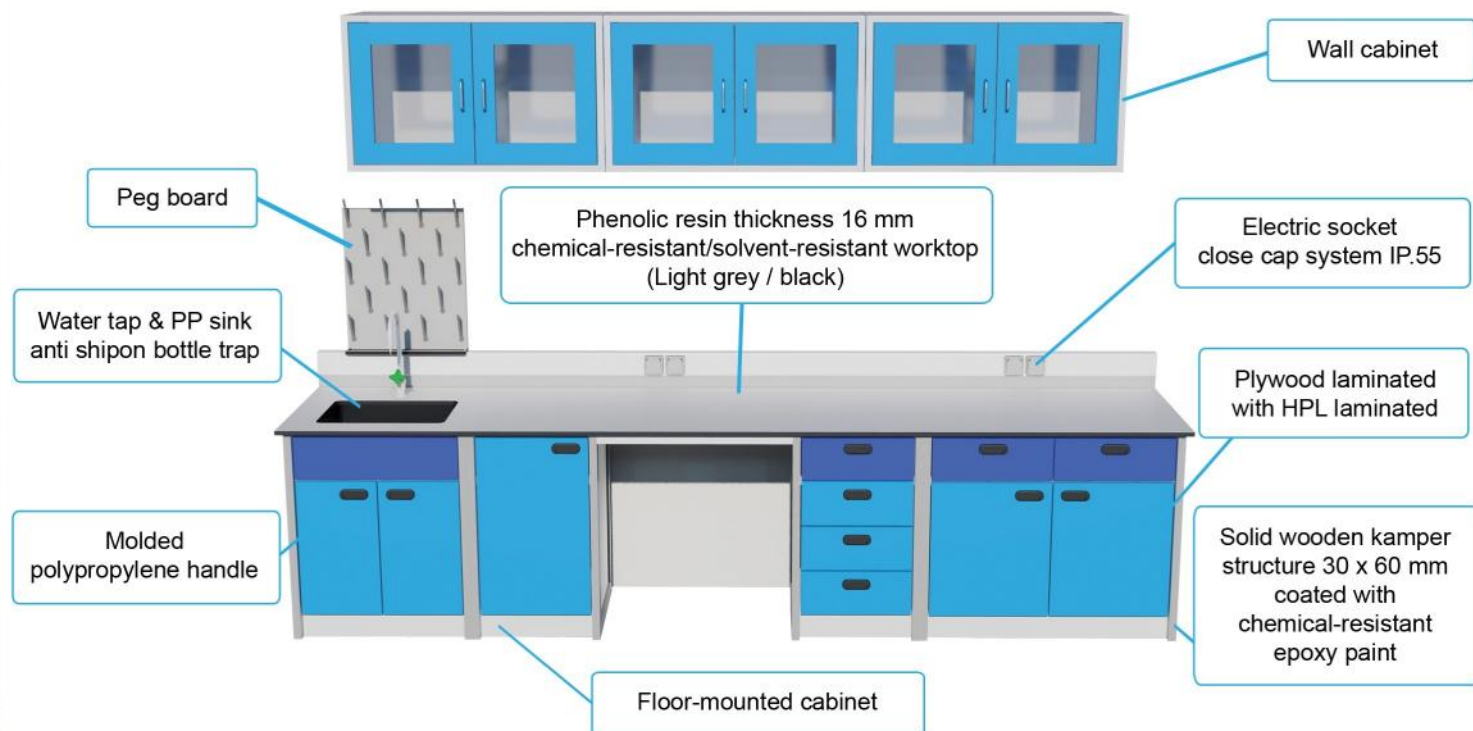
ROBUST WALL BENCH STEEL (Floor-Mounted Under-Bench Cabinet System)



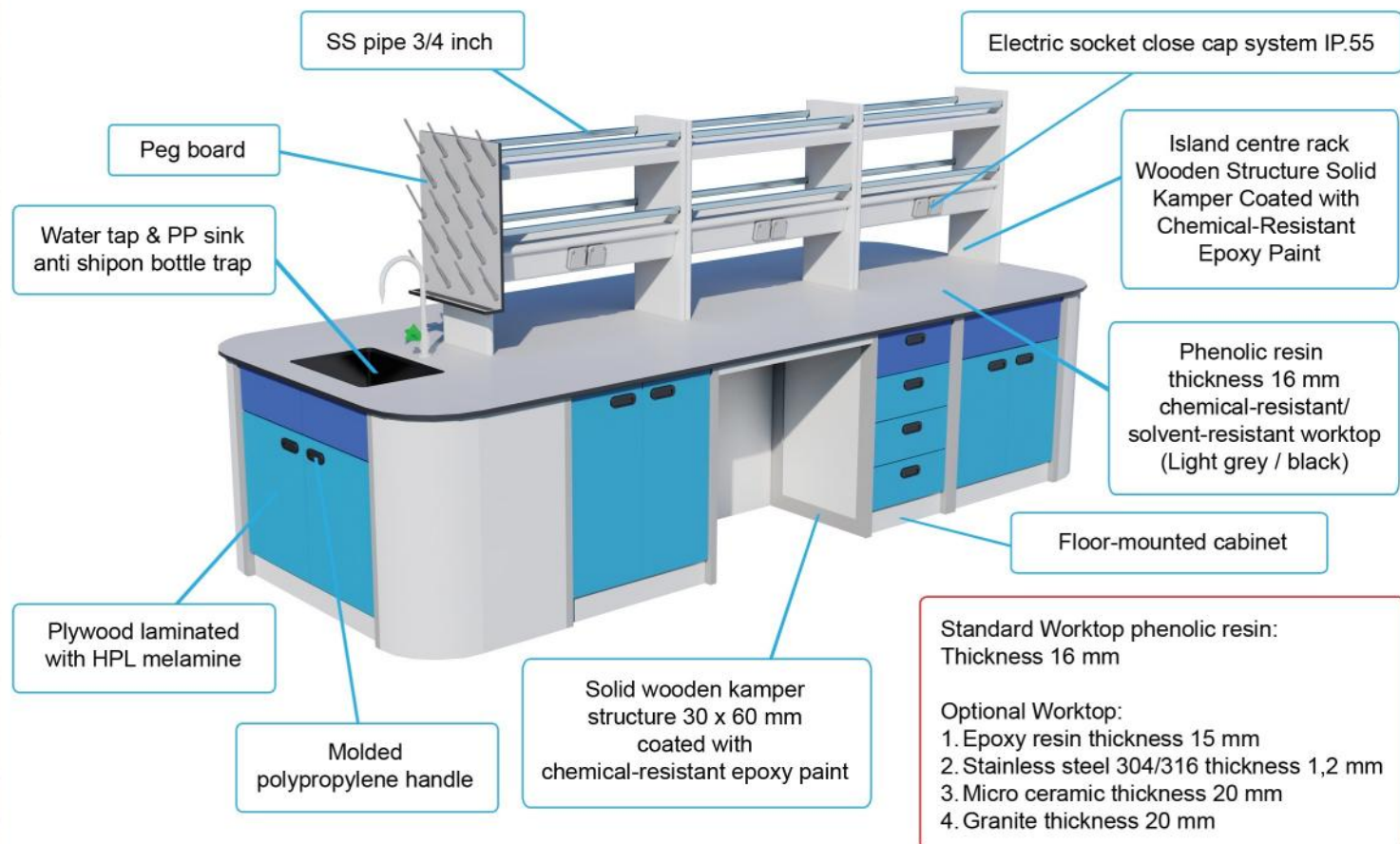
ROBUST ISLAND BENCH STEEL (Floor-Mounted Under-Bench Cabinet System)

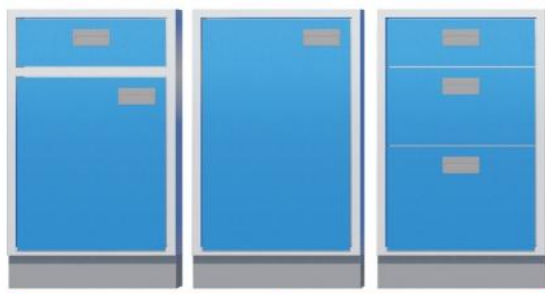


ROBUST WALL BENCH SOLID WOOD (Floor-Mounted Under-Bench Cabinet System)

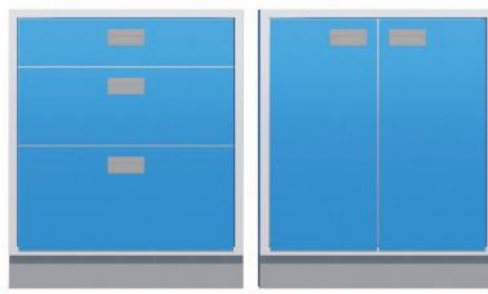


ROBUST ISLAND BENCH SOLID WOOD (Floor-Mounted Under-Bench Cabinet System)



FLOOR-MOUNTED CABINET


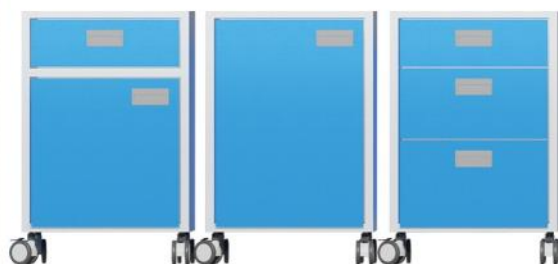
500 x 550 x 834 mm



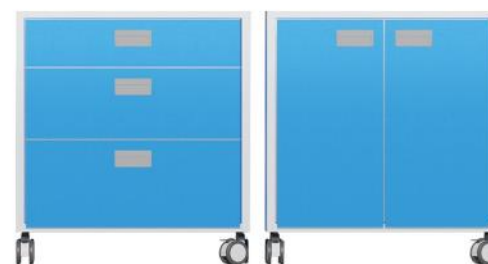
700 x 550 x 834 mm



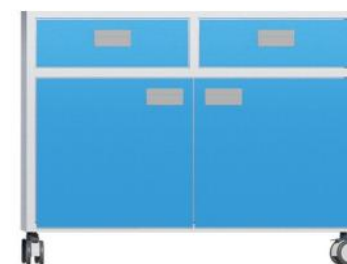
1000 x 550 x 834 mm

MOBILE CABINET


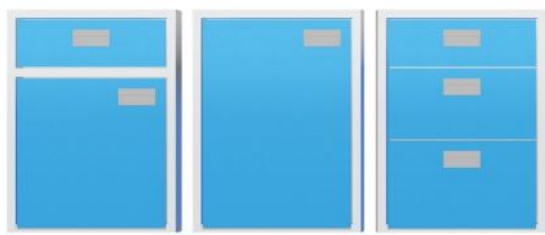
500 x 480 x 764 mm



700 x 480 x 764 mm



1000 x 480 x 764 mm

SUSPENDED CABINET


500 x 480 x 664 mm



700 x 480 x 664 mm



1000 x 480 x 664 mm

ROBUST LAB BENCH STEEL STRUCTURE



Other sizes and specifications can be customized based on request

Robust Lab benches feature a steel structure finished with chemical-resistant epoxy powder coating. The steel casework is constructed of heavy-duty cold-rolled or galvanized steel with a thickness of 1.2 mm, coated with **epoxy powder coating** for stability and strong chemical resistance. The material for each wall panel, baffle plate, and support pillar is made from the same heavy-duty cold-rolled or galvanized steel, ensuring toughness. Both the side wall and back wall are made of a single steel plate.

Robust Under-bench cabinet system variation:

- Floor-mounted cabinet system
- Mobile cabinet system
- Suspended cabinet system

Material option		
Worktop	• Phenolic resin Trespa / Fundermax / Maica / Resistop / Wilsonart • Stainless steel 316/304 • Micro ceramic • Epoxy resin	
External lining	• Stainless steel 316/304 • Galvanized steel finish epoxy powder coating	• Steel plate finish powder coating
Internal lining	• Stainless steel 316/304 • Galvanized steel finish epoxy powder coating	• Steel plate finish powder coating

ROBUST LAB BENCH WOODEN STRUCTURE



Other sizes and specifications can be customized based on request

All Lab benches feature a solid wood structure finished with chemical-resistant epoxy paint. The wood casework is constructed of a solid wooden camper 30 x 60mm, coated with **EPODUR**, **NIPPON PAINT** or **DULUX** for stability and strong chemical resistance. The material for each wall panel, baffle plate, & support pillar is made from plywood laminated with chemical-resistance HPL melamine.

Robust Under-bench cabinet system variation:

- Floor-mounted cabinet system
- Mobile cabinet system
- Suspended cabinet system

Material option	
Worktop	• Phenolic resin Trespa / Fundermax / Maica / Resistop / Wilsonart • Stainless steel 316/304 • Micro ceramic • Epoxy resin
External lining	• Solid wood finish epoxy paint • Phenolic resin
Internal lining	• Phenolic resin • High pressure laminated

ROBUST FUME HOOD Polypropylene (FHPP)



Worktop	- Epoxy resin - Phenolic resin	- Stainless steel 316/304 - Micro ceramic
Outer lining	Polypropylene (PP)	
Inner lining	Polypropylene (PP)	Polyvinyl chloride (PVC)
Base cabinet	Polypropylene (PP)	

ROBUST FUME HOOD Phenolic Resin (FHP)



Worktop	- Epoxy resin - Phenolic resin	- Stainless steel 316/304 - Micro ceramic
Outer lining	Phenolic resin 16 mm	
Inner lining	Phenolic resin baffle 6 mm	
Base cabinet	- Phenolic Resin - Steel Base Structure Thickness 1,2mm - Plywood Laminated with HPL Melamine - Chemical Storage Corrosive/Flammable	



Fume Hood Walk-In

ROBUST FUME HOOD Galvanized Steel Structure (FHS)



Worktop	- Epoxy resin - Phenolic resin	- Stainless steel 316/304 - Micro ceramic
Outer lining	Galvanized steel finish epoxy powder coating	Stainless steel 316/304
Inner lining	- Phenolic resin baffle - Stainless steel 316/304 - R.I.F (Re-inforced-fibre)	- Polyvinyl chloride (PVC) - Polypropylene (PP)
Base cabinet	- Phenolic Resin - Steel Base Structure Thickness 1,2mm - Plywood Laminated with HPL Melamine - Chemical Storage Corrosive/Flammable	

ROBUST FUME HOOD DUCTLESS (FHD)



Worktop	- Epoxy resin - Phenolic resin	- Stainless steel 316/304 - Micro ceramic
Outer lining	Galvanized Steel finish epoxy powder coating	
Base cabinet	- Phenolic Resin - Steel Base Structure Thickness 1,2mm - Plywood Laminated with HPL Melamine - Chemical Storage Corrosive/Flammable	

National Research Council (NRC)	Recommends Face Velocities Between 80 and 100 Fpm (0.4 - 0.5 m/s)
National Fire and Protection Agency (NFPA)	Section 6 - 4.5 states Face Velocities of 0.4 m/s to 0.6 m/s
American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE)	• Face Velocities of 0.4 m/s - 0.6 m/s • Average Noise Level <82 db • Average lumen >300 lm

Robust Fume Hoods are designed and manufactured in accordance to SEFA-1 2006, BS 7258, EN 14 175 & ANSI/ASHRAE 110 standards in an ISO 9001-2015 facility. Every Fume Hood has been tested in accordance with the provisions and standards that meet international standards of safety, performance, lighting, efficiency, noise, ergonomics and aesthetics. The ANSI/ASHRAE 110 Standard is one of the latest and most comprehensive methods for testing operator safety level of fume hoods by determining qualitatively and repeatedly how well fume hood contain the gases and vapours released in the work zone.

General Specifications Fume Hoods Robust

ROBUST FUME HOOD PHENOLIC RESIN

Phenolic Resin Type	FHP - 125	FHP - 150	FHP - 180
Overall Size (mm)	1250 x 890 x 2350	1500 x 890 x 2350	1800 x 890 x 2350
Working Area (mm)	1150 x 500 x 900	1400 x 500 x 900	1700 x 500 x 900

ROBUST FUME HOOD POLYPROPYLENE

Phenolic Resin Type	FHPP - 120	FHPP - 150	FHPP - 180
Overall Size (mm)	1200 x 850 x 2300	1500 x 850 x 2300	1800 x 850 x 2300
Working Area (mm)	900 x 600 x 800	1200 x 600 x 800	1500 x 600 x 800

ROBUST FUME HOOD STEEL

Phenolic Resin Type	FHS - 125	FHS - 150	FHS - 180
Overall Size (mm)	1250 x 900 x 2350	1500 x 900 x 2350	1800 x 900 x 2350
Working Area (mm)	950 x 500 x 900	1200 x 500 x 900	1500 x 500 x 900

ROBUST WALK-IN FUME HOOD PHENOLIC RESIN

Phenolic Resin Type	FHPWI - 150	FHPWI - 180	FHPWI - 240
Overall Size (mm)	1500 x 1100 x 2350	1800 x 1100 x 2350	2400 x 1100 x 2350
Working Area (mm)	1468 x 830/730 x 2100	1768 x 830/730 x 2100	2368 x 830/730 x 2100

ROBUST FUME HOOD DUCTLESS

Phenolic Resin Type	FHD - 100
Overall Size (mm)	1000 x 650 x 940/1210
Working Area (mm)	900 x 550 x 750

Other sizes and specifications can be customized based on request

Option and Accessories of Fume Hood

Operating Principle

When the fume hood extraction fan is running, it cause negative pressure inside the fume cup board. If the sash is lowered, the negative pressure become more intense causing air to be drawn through the sash opening at an increased velocity.

Conversely, if the sash is raised the negative pressure becomes less intense and air velocity reduces.

The air velocity level is displayed on the fascia either by LED illumination or digital read-out. An audible alarm will also sound if the air velocity is too low.



AIR FLOW MONITOR (TEL - UK)

Suitable for all kind of fume hood
BS EN 14175-4:2004; Clause 6.
The Airflow Monitor confirms to IEC61010-1
Type C.A.V
Flow Monitor
230V-1PH input
Alarm system

ROBUST DIRECT MOUNTED SCRUBBER (SCR-DM) FOR FUME HOOD



Material : Sheet PP / PVC Thickness 8 mm
 Scrubber System : Wet Scrubber, Using Alkali/Basa Liquid
 Water tank Capacity : 50 Liter
 Scrubber Pad : Polypropylene Scrubber Pad Ø 80 mm
 Acrylic Inspection Window
 Complete with Automatic On/Off Polypropylene Water Valve

Chemical Resistant Pump :

Single Phase Induction motor

- Power Consumption : 245/365 W
- Motor Speed : 2830 Rpm
- Max Range : 8,6/11,9 m
- Flow Rate : 120/135 L/Min
- Volt/Ampere : 220/240, 50/60 Hz
- Operational Temp : 0° - 80° C
- Casing Material : Polypropylene

ROBUST BIG SCRUBBER (SCR-BG) FOR FUME HOOD



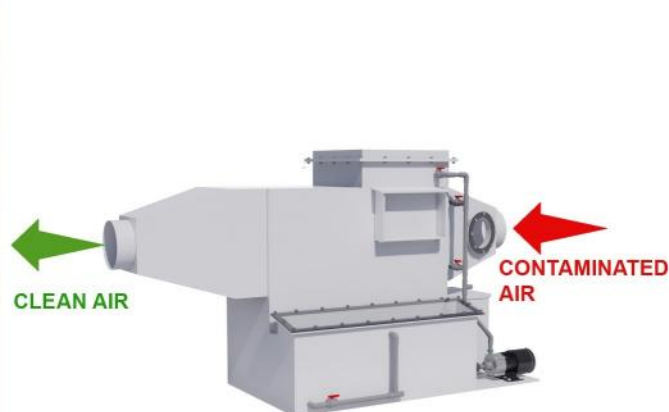
Material : Sheet PP / PVC Thickness 8 mm
 Scrubber System : Wet Scrubber, Using Alkali/Basa Liquid
 Water tank Capacity : 120 Liter
 Scrubber Pad : Polypropylene Scrubber Pad Ø 80 mm
 Acrylic Inspection Window
 Complete with Automatic On/Off Polypropylene Water Valve

Chemical Resistant Pump :

Single Phase Induction motor

- Power Consumption : 245/365 W
- Motor Speed : 2830 Rpm
- Max Range : 8,6/11,9 m
- Flow Rate : 120/135 L/Min
- Volt/Ampere : 220/240, 50/60 Hz
- Operational Temp : 0° - 80° C
- Casing Material : Polypropylene

ROBUST ULTIMATE CONTAINED FUME SCRUBBER (SCR-UT) FOR FUME HOOD



Material : Sheet PP / PVC Thickness 8 mm
 Scrubber System : Wet Scrubber, Using Alkali/Basa Liquid
 Water tank Capacity : ±250 Liter
 Scrubber Pad : Polypropylene Scrubber Pad Ø 80 mm
 Acrylic Inspection Window
 Complete with Automatic On/Off Polypropylene Water Valve

Chemical Resistant Pump :

Single Phase Induction motor

- Merk : Rotor
- Type : MX400
- Power : 0,3Kw, 400 watt
- Motor Speed : 2800 Rpm 2 Pole
- Pump Capacity : Max 200 Lpm=12m3/hour Max 8 m
- Pump Body Material : Polypropylene

- pH Probe
- Selenoid driven dosing pump with pH meter

ROBUST CHEMICAL STORAGE FLAMMABLE & CORROSIVE



Type	Capacity(L)	Outer Dimension(mm)	Inner Dimension(mm)	Shelve (Pcs)	Weight(kg)
CSF / CSC 12	45	590 x 460 x 890	510 x 360 x 790	1	60
CSF / CSC 12 UB	45	700 x 500 x 700	620 x 400 x 600	1	70
CSF / CSC 20 UB	75	1000 x 500 x 700	920 x 400 x 600	1	85
CSF / CSC 22	83	600 x 460 x 1650	520 x 360 x 1550	3	90
CSF / CSC 30	114	1090 x 460 x 1120	1010 x 360 x 1020	2	100
CSF / CSC 45	170	1090 x 460 x 1650	1010 x 360 x 1550	3	138
CSF / CSC 90	340	1090 x 860 x 1650	1010 x 760 x 1550	3	190

Wall Material : Double Wall Build With 1.2 mm Electro-Galvanized Steel Finish Chemical Resistant Powder Coating
 Door : Single Door with Butterfly Hinge
 Handle : Paddle Handle Latch
 Lock Mechanism : 3-Point Self-Latching Lockable at The Handle
 Shelves Material : Galvanized Steel with Polypropylene/PVC Tray
 Leak Containment : Strong Anti Corrosion PP/PVC Tray for Dip/Leak Containment

Ventilation complete with two 50 mm outlet
 Cabinets with built-in earthing
 Leveling screws at the base

Chemical Resistant Blower Material Polypropylene Include Ducting (For Chemical Storage Corrosive)

FILTER DUCTLESS FOR CHEMICALS STORAGE

Electrical Load : 220V/50Hz, 76 W, 3A
 Smart Control System : Eview 7 Inch Touch Screen to monitor the ambient humidity / temp VOC concentration and alarming system
 Air Flow Velocity : Filtering Rate 220 m³/h
 Body : Galvanized Steel 1.2 mm
 Finish Chemical Resistant Powder Coating
 Noise : Low Noise Level

Included

Filter Sensor : Filter Saturation with Alarming System
 Filter Model : Strong HEPA Filtration as per ASTM Standard
 Integrated Usage For Acid, Organics and Dust Particle





CAPTAIR DUCTLESS CHEMICALS STORAGE

Dimension : 1200 x 710 x 1910 mm
 Load Capacity : 160 Pcs 500ml Bottles
 Electrical Load : 220V/50Hz, 76 W, 3A

Smart Control System :
 Eview 7 Inch Touch Screen to monitor the ambient humidity / temp VOC concentration and alarming system

Air Flow Velocity : Filtering Rate 220 m³/h
 Cabinet : Galvanized Steel 1.2 mm Finish
 Chemical Resistant Powder Coating
 Door : Acrylic Door with Safety Glass 6 mm
 Noise : Low Noise Level

Included:
 Movable Shelves : 8 Pcs
 Filter Sensor : Filter Saturation with Alarming System
 Filter Model : Strong HEPA Filtration as per ASTM Standard, Integrated Usage For Acid, Organics and Dust Particle
 Leak Containment : Strong Anti Corrosion PP/PVC Tray for Dip/Leak Containment

CHEMICALS STORAGE POLYPROPYLENE



Dimension : 900 x 450 x 1850 (H) mm
 Main Structure : High-Quality Polypropylene Board Thickness 8mm
 Hinge and Handle : High-Quality Molded Polypropylene Hinges and Handles
 Shelves Material : Strong Anti-Corrosion Polypropylene Shelves
 Door : 2 PP Doors with clear acrylic / 4 PP Doors (2 Door with clear acrylic and 2 Solid Door)
 Weight : ±65 Kg

CHEMICALS STORAGE SPECIAL CORROSSIVE



Dimension : 1000 x 500 x 2000 mm
 Main Structure : Wooden Structure Solid Kamper Coated with Chemical Resistant Epoxy paint
 Inside Wall : Plywood with Melamine Sheet Laminated, Thickness 18 mm
 Hinge & Handle : Stainless Steel 304 Hinge and U Handle
 Safety Glass : Tempered Clear Glass Thickness 6 mm
 Door :
 Shelves : Phenolic Resin Panel
 Lighting : 1 Unit Fluorescent Lamp Water Tight 1x20 watt Include Switch Button
 Weight : ±150 Kg

Chemical Resistant Blower, Material Polypropylene

JAS LAB CABINET



Based on steel plate structure thickness of plate 1.2 mm.
 Finishing with powder coating

Total Dimension : 1000 x 500 x 2000 (H) mm
 Inner wall : Steel plate 1.2 mm finish by Heavy duty oven baked powder coating
 Outer wall : Steel plate 1.2 mm finish by Heavy duty oven baked powder coating
 Safety glass swing door : Laminated / tempered clear glass 6 mm

ROBUST LAMINAR AIR FLOW (Vertical / Horizontal)

The Robust laminar airflow clean bench is proudly manufactured in Indonesia, utilizing Australian standards and technology to ensure advanced product features. It has undergone rigorous safety and performance testing in accordance with ISO 14001:2015, US Standard Class 10, and has NSF/ANSI 2016 Annex F (LAF) certification, making it suitable for operation in clean room environments.

Key features include:

- Compliance with Australian Standard AS:2243-8 and NSF/ANSI 2016 Annex F (LAF).
- Components bearing CE Marking and UKAS registration and conform to 93/42/EEC, EN 60601-1:1990+A1:1993+A2:1995+A13:1995 ensuring quality and reliability.
- Utilization of ULPA filters with a lifespan exceeding 3 years in appropriate operating conditions, tested to the efficiency of >99.9995% for 0.1 to 0.3-micron particles.
- Digital touchscreen control panel for convenient operation, including UV and light control, blower activation, airflow adjustment, and sash door operation.
- Integration of a 36W UV-C fluorescent lamp emitting 253.7nm UV waves, with intelligent germicidal function and automatic UV cut-off when the sash door is opened.
- Countdown timer for UV light and ULPA filter replacement cycles.
- Acrylic UV protection.
- Worktop constructed from AISI 304 stainless steel, ensuring durability and resistance to chips and rust.
- Low-noise centrifugal fan with speed adjustment via the digital touchscreen control.
- Standard accessories include two electrical sockets and a mobile support stand.

DIGITAL TOUCH SCREEN CONTROLLER LAF

- Motor speed adjustment from 1-3 level for vertical type
- Air flow speed 0.3 m/s to 0.6 m/s
- Intelligent germicidal function
- ULPA Filter life cycle countdown timer
- Light and UV light control On/Off
- Electrical socket On/Off
- UV lamp life cycle countdown timer
- Live date and time

GENERAL SPECIFICATION VERTICAL LAF 135 & HORIZONTAL LAF 135-H

Overall Size	: 1350 x 800 x 2100 (H) mm
Working Zone	: 1250 x 750 x 550 (H) mm
• Power (W)	: 450 watt
• Voltage	: 220V 50Hz
• Noise Level	: ≤58 dBA
• Control System	: Touch Screen
• Fluorescent Light	: Intensity >500 Lux
• UV Light	: UVC Lamp Germicidal
• Electrical Socket	: 2 pcs waterproof socket inside cabinet
• Weight	: ± 145 kg

Filter

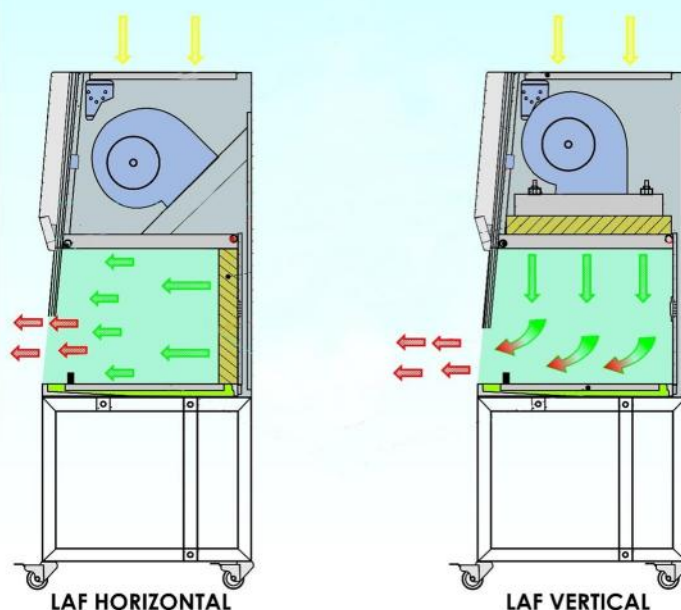
- Downflow filter : ULPA (Better than HEPA)
- Pre Filter : 99.9995% (0.1um - 0.2 um)
- Filter efficiency : Washable, Arresting 80 - 85 % Particles

Air Flow System

- Downflow velocity : 0.45 m/s ±20%



FLOW DIAGRAM



LAF HORIZONTAL

LAF VERTICAL

- CLEAN AIR
- ENVIRONMENT AIR
- CONTAMINATION AIR

ROBUST BIO SAFETY CABINET

The Robust Bio Safety Cabinet clean bench is proudly manufactured in Indonesia, utilizing Australian standards & technology to ensure advanced product features. It has undergone rigorous safety and performance testing in accordance with ISO 14001:2015, US Standard Class 10, and has NSF/ANSI 2016 Annex F (BSC) certification, making it suitable for operation in clean room environments.

Key features include:

- Compliance with Australian Standard AS:2243-8 & NSF/ANSI 2016 Annex F (BSC).
- Components bearing CE Marking and UKAS registration and conform to 93/42/EEC, EN 60601-1:1990+A1:1993+A2:1995+A13:1995 ensuring quality and reliability.
- Utilization of ULPA filters with a lifespan exceeding 3 years in appropriate toperating conditions, tested to the efficiency of >99.9995% for 0.1 to 0.3-micron particles.
- Digital touchscreen control panel for convenient operation, including UV and light control, blower activation, airflow adjustment, and sash door operation.
- Integration of a 36W UV-C fluorescent lamp emitting 253.7nm UV waves, with intelligent germicidal function and automatic UV cut-off when the sash door is opened.
- Countdown timer for UV light and ULPA filter replacement cycles.
- Acrylic UV protection.
- Worktop constructed from AISI 304 stainless steel, ensuring durability and resistance to chips and rust.
- Low-noise centrifugal fan with speed adjustment via the digital touchscreen control.
- Standard accessories include two electrical sockets and a mobile support stand.



DIGITAL TOUCH SCREEN CONTROLLER BSC

- Motor speed adjusment from 1-3 level for vertival type
- Air flow speed 0.45 m/s to 0.65 m/s
- Intelligent germicidal function
- ULPA Filter life cycle countdown timer
- Light and UV light control On/Off
- Electrical socket On/Off
- UV lamp life cycle countdown timer
- Live date and time

SASH RADIATION PROTECTION

- Automatic UV cut-off when sash door is opened
- Alarm system for warning when sash opened more than 200 mm
- Shielding against Gamma and Beta particles (12 mm thick)
- Acrylic UV protection

GENERAL SPECIFICATION BSC 135 CLASS II A/B

Overall Size	: 1350 x 800 x 2100 (H) mm
Working Zone	: 1250 x 750 x 550 (H) mm
• Power (W)	: 500 watt
• Voltage	: 220V 50Hz
• Noise Level	: ≤58 dBA
• Control System	: Touch Screen
• Fluorescent Light	: Intensity >500 Lux
• UV Light	: UVC Lamp Germicidal
• Electrical Socket	: 2 pcs waterproof socket inside cabinet
• Weight	: ± 180 kg

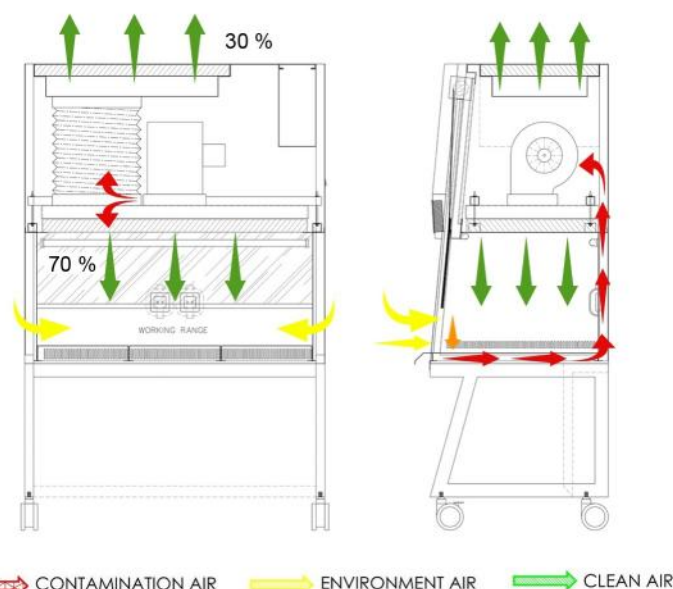
Filter

- Downflow filter : ULPA (Better than HEPA)
- Pre Filter : 99.9995% (0.1um - 0.2 um)
- Exhaust filter : ULPA (Better than HEPA)
- Filter efficiency : 99.9995% (0.1um - 0.2 um)

Air Flow System

- Downflow velocity : 0.45 m/s ±20%
- Inflow velocity : 0.65 m/s ±15%

FLOW DIAGRAM



BALANCE TABLE



Total Dimension	: 1 PAD (750 x 750 x 850 (H) mm) 2 PAD (1500 x 750 x 850 (H) mm)
Table Structure	: Steel 75x75 mm Thickness 3 mm
Work Table / Worktop	: Granite Thickness 100 mm
Ballast (Pemberat)	: Granite
Complete with	: Anti Vibration Rubber, Leveling Screws at The Base
Electrical socket	: Single Electric Socket Close-Cap 2 pcs
Socket Housing	: With PVC Socket Housing

HUMIDITY CABINET (LENS CABINET)



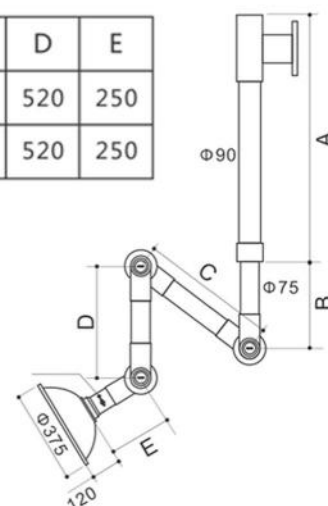
Dimension	: 1200 x 710 x 1910 mm
Structure	: Quality 1mm and 1.2mm cold rolled plate, reinforced structure design, high intensity bearing, every shelf can bear over 100kg.
Display	: LED Display sensor with error as 3%RH
Controlled Humidity (RH)	: 20-60%
Supply Power	: 8 Watt Average Power - 170 Watt Maximum Power
System	: Smart control system and resettable target humidity
Capacity	: 1436 L
Shelves	: Adjustable

Stainless Steel 304 U Handle

EXTRAXTION SYSTEM (ARM HOOD)



A	B	C	D	E
990	550	720	520	250
990	550	720	520	250



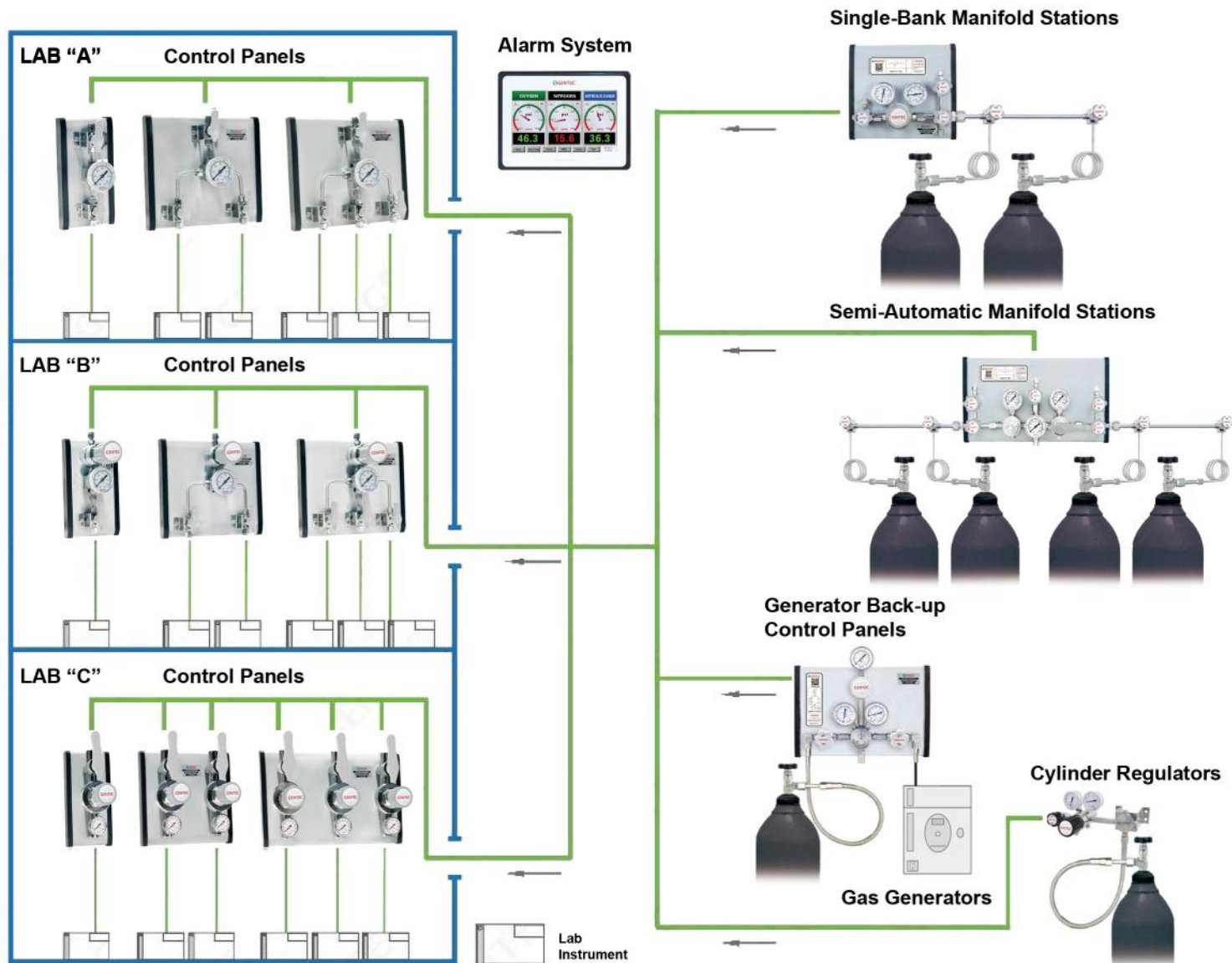
- Arm Hood is a local fume extraction system with flexible arm to reach various area in laboratory bench. Available in 3 different size, and manufactured from various material, such as:
 1. Aluminum material, comes in 50, 75 and 100 diameter size
 2. Polypropylene material, comes in 63, 75 and 100 diameter size
 3. Antistatic material, comes in 50, 75 and 100 diameter size for ESD and EX application
- Arm Hood available as bench or ceiling mounted device, with wide range of accessories and fittings available.
- Ducting and blower specification can also be specified based on user requirement

360 degree swivel design enable optimum extraction by positioning hood as near to the contaminant source. It is easy to disassemble for cleaning and maintenance. Max enabling movement radius to 1600mm

LINE GAS SYSTEM

Three key areas of design will determine the quality of the gas performance in a laboratory operation.

1. Source of Supply = Dewars, Gas Cylinders and Gas Generators
2. Distribution of Gas = Piping System
3. Point of Use Control of Delivery = Terminal Points



LABORATORY ACCESSORIES



PASS BOX (PB-60)

- Material stainless steel 316/304
- Complete with interlock system
- Dimensions: 600x400x500 (mm) H

PEG BOARD (PEG-50)

- Material compact phenolic resin / PP
- Peg: Polypropylene
- Removable peg & easy installation
- Dimensions 500 x 600 (mm) H



SAFETY UTILITY

- Emergency shower (ES-94 SS)
- Single outlet eye wash (EW-101)
- Double outlet eye wash (EW-102)

Water Pressure Required:
Min. 2 Bar

Water Flow Volume:
Eye Washer head: 12-18L/Minute
Shower Head: 120-180L/Minute

LABORATORY STOOL

- Seat diameter 340 / 400 mm
- Material polyurethane
- Material structure stainless steel 304
- Seat height adjusts 590 - 810 mm
- High-Quality Castor Wheel / Statis



HOOD CHAMBER

- Material Stainless Steel Class 304 Thickness 1,2mm
- Hairline resistant to high heat, acid, alkali and corrosion
- Chemical Resistant Blower Material Polypropylene

PORTACAMP LABORATORY

- Size : 20 feet / 40 feet Portacamp Laboratory
- Type : Knock Down System / Fixed System



Other sizes and specifications can
be customized based on request

SOLAR CELL

Solar cells are electrical components that convert sunlight energy into electrical energy through the photovoltaic effect. In simple terms, solar cells work by absorbing photons (light particles) and releasing electrons that produce an electric current.

HZ SOLAR CELL capacity: 5 KWP, 10 KWP, 12 KWP, 15 KWP, 20 KWP, 45 KWP, 112,5 KWP.



SOLAR LED STREET LIGHT (HZ SMART PJUTS ALL IN ONE)



60 Watt, 100 Watt and 120 Watt

LED STREET LIGHT (HZ PJU SINGLE / DOUBLE ARM)



60 Watt, 100 Watt and 200 Watt

School & University Lab



Micro Lab



Preparation Lab



Instrument lab



Food Lab



Analytical Lab



AR (ANALYTICAL REAGEN)

Analytical reagent is a class of chemical reagents for analytical testing with being able to provide molecules, ions or radicals in the qualitative or quantitative analysis, and the reaction product being precipitated or colored compound or fluorescent substance and so on

OUR PRODUCT

Australia



India



Australia



German



Spanyol



CRM (CERTIFIED REFERENCE MATERIAL)

Certified reference material (CRM) is 'controls' or standards used to check the quality & metrological traceability of products, to validate analytical measurement methods, or for the calibration of instruments. A certified reference material is a particular form of measurement standard

OUR PRODUCT

Amerika



AccuStandard
Leader in Analytical Reference Standards

German



LGC Standards

Canada



Toronto Research Chemicals
products for innovative research

Amerika



CIL
Cambridge Isotope Laboratories

Australia



OREAS

German



DR EHRENSTORFER™

Australia



Geostats Pty Ltd

Mining Industry Consultants
Certified Reference Material Manufacture and Sales

Amerika



edqm
European Directorate for the Quality of Medicines & HealthCare

Australia



acirs

AUSTRALIAN COAL INDUSTRY REFERENCE SAMPLES

Amerika



NIST
National Institute of Standards and Technology



INDUSTRIAL MINING

OUR PRODUCT

<i>China</i>  FUQIANG	<i>India</i>  MABOR Magnesia Refractory Cupels & Bullion Blocks
<i>Australia</i>  ROWE SCIENTIFIC PTY LTD A/N 63 08 437 790 ADELAIDE - BRISBANE - HOBART - MELBOURNE - PERTH - SYDNEY	<i>Afrika Selatan</i>  ASSOCIATED ADDITIVES
<i>Amerika</i>  DFC Ceramics, LLC	<i>Inggris</i>  Morgan Advanced Materials

GLASSWARE & PLASTICWARE

OUR PRODUCT

<i>Jepang</i>  IWAKI AGC - Asahi Glass Group	<i>Jerman</i>  Azlon
<i>Jerman</i>  VITLAB Competence in Labware	<i>Jerman</i>  DURAN®
<i>Jerman</i>  nalgene	<i>Jepang</i>  NIKKO

LIST OF CLIENTS

GOVERNMENT



INDUSTRY



FOOD & BEVERAGE



HOSPITAL & PHARMACY



SCHOOL & UNIVERSITY



SERVICE LABORATORY

