

Fume Hood

We manufacture high-quality lab fume hoods that protect users from harmful gases, spills, and hazards during experiments.



User Protection



Chemical Resistance



Efficient Ventilation



MAXIMUM SAFETY

Protecting users from toxic fumes, spills, and chemical exposure.



POWERFUL VENTILATION

High-performance airflow systems ensure efficient removal of harmful contaminants.



BUILT FOR LABS

Engineered for durability, reliability, and seamless performance in every laboratory.



CUSTOMIZABLE SOLUTIONS

Available in various sizes and configurations to meet your specific lab requirements.

Laboratory Fume Hood

We manufacture high-quality lab fume hoods that protect users from harmful gases, spills, and hazards during experiments.

Types of Fume Hoods

- ▶ Ducted Fume Hood
- ▶ Ductless Fume Hood
- ▶ Down flow Fume Hood
- ▶ Custom Fume Hood
- ▶ Laminar Fume Hood

Industries that use Fume Hoods include:

-  Semiconductor Industry
-  Colleges & Universities
-  Chemical Industries
-  R&D in Pharma Lab



Dimension

Type of Fume Hood	Overall dimension			Inner dimension			Worktop height
	L	W	H	L ₁	W ₁	H ₁	H ₀
Bench Type Fume Hood	1200	915	2300	1000	645	1250	900
	1500	915	2300	1300	645	1250	900
	1800	915	2300	1600	645	1250	900
	2100	915	2300	1900	645	1250	900
	2400	915	2300	2200	645	1250	900

Laminar Air Flow Cabinet

Laminar Air Flow Cabinets provide a sterile, particle-free workspace by directing constant, HEPA-filtered airflow in a unidirectional stream.



Laminar Air Flow



Vertical Laminar Air Flow



Horizontal Laminar Air Flow

Laminar Fume Hood

We manufacture laminar fume hoods with HEPA-filtered airflow to protect users and work-spaces from hazardous contaminants.



Laminar Fume Hood Working & Applications

Laminar fume hoods provide sterile, HEPA filtered airflow to protect samples from contamination, ideal for cell culture and sterile work. Unlike biosafety cabinets, they don't protect users from harmful particles or chemicals.



Mobile Laminar Air Flow system

Ensure contamination-free transfer with our Mobile Laminar Air Flow (MLAF) system. Portable, reliable, and equipped with advanced HEPA filtration for cleanroom safety.

Features

- ▶ Excellent Mobility
- ▶ Guaranteed Contamination Control
- ▶ Advanced Filtration Technology
- ▶ Versatile Design
- ▶ User-Friendly Operation
- ▶ Enhanced Safety Measures
- ▶ Compliance with Industry Standards



SIZE CHART FOR MOBILE LAMINAR AIR FLOW SYSTEM

MODEL	DIMENSIONS						MOC
	INTERNAL			EXTERNAL			
	W	D	H	W	D	H	
MLAF-600SS	600 mm 1.9'	600 mm 1.9'	600 mm 1.9'	1200 mm 3.9'	670 mm 2.1'	1250 mm 4.1'	SS 304/SS316L
MLAF-900SS	600 mm 1.9'	600 mm 1.9'	900 mm 2.9'	1200 mm 3.9'	670 mm 2.1'	1550 mm 5.0'	SS 304/SS316L
MLAF-1100SS	600 mm 1.9'	600 mm 1.9'	1100 mm 3.6'	1200 mm 3.9'	670 mm 2.1'	1750 mm 5.7'	SS 304/SS316L

Horizontal Laminar Air Flow



The Horizontal Laminar Air Flow (HLAF) system delivers clean air horizontally to maintain a sterile workspace.



Its advanced filtration limits contamination by ensuring a continuous airflow.



Ideal for controlled environments requiring high cleanliness standards.



Features

- ▶ Horizontal Airflow Pattern
- ▶ High-Efficiency Filtration
- ▶ Customizable Configuration

- ▶ Energy-Efficient Design
- ▶ Easy Maintenance
- ▶ Compliance with Industry Standards

SIZE CHART FOR HORIZONTAL LAMINAR AIR FLOW SYSTEM

MODEL	DIMENSIONS						MOC
	INTERNAL			EXTERNAL			
	W	D	H	W	D	H	
Hlaf-900SS	900 mm 2.9'	600 mm 1.9'	600 mm 1.9'	1200 mm 3.9'	900 mm 2.9'	2000 mm 6.5'	SS 304/SS316L
Hlaf-1200SS	1200 mm 3.9'	600 mm 1.9'	600 mm 1.9'	1375 mm 4.5'	900 mm 2.9'	2000 mm 6.5'	SS 304/SS316L
Hlaf-1500SS	1500 mm 4.9'	600 mm 1.9'	600 mm 1.9'	1675 mm 5.4'	900 mm 2.9'	2000 mm 6.5'	SS 304/SS316L

Vertical Laminar Airflow

The Vertical Laminar Airflow Cabinet ensures a sterile workspace with downward clean airflow, ideal for labs and cleanrooms.

Its advanced filtration traps particles as small as 0.3 microns, protecting both products and operators.

Perfect for microbiology, pharma, and electronics applications.

Features

- ▶ Vertical Airflow Pattern
- ▶ High-Efficiency Filtration
- ▶ Customizable Configurations
- ▶ Energy-Efficient Design
- ▶ Easy Maintenance
- ▶ Compliance with Industry Standards



SIZE CHART FOR VERTICAL LAMINAR AIR FLOW SYSTEM

MODEL	DIMENSIONS						MOC
	INTERNAL			EXTERNAL			
	W	D	H	W	D	H	
VLAF-900SS	900 mm 2.9'	600 mm 1.9'	600 mm 1.9'	1050 mm 3.4'	765 mm 2.5'	1960 mm 6.4'	SS 304/SS316 L
VLAF-1200SS	1200 mm 3.9'	600 mm 1.9'	600 mm 1.9'	1350 mm 4.4'	765 mm 2.5'	1960 mm 6.4'	SS 304/SS316 L
VLAF-1500SS	1500 mm 4.9'	600 mm 1.9'	600 mm 1.9'	1650 mm 5.4'	765 mm 2.5'	1960 mm 6.4'	SS 304/SS316 L

Reverse Laminar Air Flow System

The RLAF system ensures safe, contamination-free sampling and dispensing of powders and liquids. It captures airborne particles, protecting both product and operator.

Features

- ▶ Superior Contamination Control
- ▶ High-Efficiency Three Stage Filtration
- ▶ Customizable Configuration
- ▶ Enhanced Safety Features
- ▶ Versatile Applications
- ▶ Easy Maintenance
- ▶ Compliance with Industry Standards



SIZE CHART FOR REVERSE LAMINAR AIR FLOW SYSTEM

MODEL	DIMENSIONS						MOC
	INTERNAL			EXTERNAL			
	W	D	H	W	D	H	
RLAF-1200/12SS	1200 mm 3.9'	1200 mm 3.9'	2000 mm 6.5'	1300 mm 4.2'	1800 mm 5.9'	2400 mm 7.8'	SS 304/SS316 L
RLAF-1500/12SS	1500 mm 4.9'	1200 mm 3.9'	2000 mm 6.5'	1600 mm 5.2'	1800 mm 5.9'	2400 mm 7.8'	SS 304/SS316 L
RLAF-1500/15SS	1500 mm 4.9'	1500 mm 4.9'	2000 mm 6.5'	1600 mm 5.2'	2100 mm 6.8'	2400 mm 7.8'	SS 304/SS316 L
RLAF-1800/18SS	1800 mm 5.9'	1800 mm 5.9'	2000 mm 6.5'	1900 mm 6.2'	2400 mm 7.8'	2400 mm 7.8'	SS 304/SS316 L

Ductless Fume Hood

Practical, Affordable and Functional



Our range of filtration fume and particulate containment cabinets offers total practicality and suitability for a wide variety of applications.



Equipped with large-capacity deep-fill carbon filters, these cabinets are ideal for a wide range of chemical containment applications including solvents, ammonia, sulphur, acids, ether fumes, and more. With HEPA or ULPA filters, they can trap particles down to $0.12\mu\text{m}$ —perfect for use with balances, asbestos, and other sensitive tasks. Cabinets can be configured with carbon, particulate, or combination filters.



Designed with sustainability in mind, the cabinets consume just 80W of power and operate at low noise levels (52 dB[A]), making them highly economical and quiet.



Available in 550mm, 650mm, and 900mm widths, all models feature wide, tall apertures for comfortable access and usability. The front panel hinges fully open, allowing easy setup or equipment installation. Built to comply with BS7989:2001 standards.



Each unit includes a color LCD display to monitor airflow in real-time. If performance drops, the display changes and an audible alarm activates. An optional carbon filter saturation alarm alerts users when the filter needs replacement.



Constructed from epoxy powder-coated zintec mild steel for long-term durability. For highly corrosive environments, models are also available in chemically resistant polypropylene—offering the same performance with enhanced chemical compatibility.



Features and Benefits of the cabinets



Choice of three standard sizes – 550mm, 650mm & 900mm wide

- | | | | |
|--|--|--|---|
| | 1. Large Capacity Carbon Filters | | 8. Double Side glazing for natural light and comfortable working |
| | 2. Low Energy Fan – Just 80w power consumption | | 9. Aerofoil for smooth airflow into cabinet |
| | 3. Easy change pre-filters for gross particulate | | 10. Optional removable deep lipped spillage tray |
| | 4. Animated Colour LCD Display | | 11. Fixed large sash opening to ensure optimal containment |
| | 5. Low airflow alarm with audible and visual warnings | | 13. Hinged front for occasional access to the working area |
| | 6. Optional filter saturation alarm | | 12. Cable entry port |
| | 7. Internal lighting for maximum illumination of the working area | | |

Custom versions available

Specifications	LabSwas 550	LabSwas 650	LabSwas 900
External Dimensions mm (WxDxH)	550 x 600 x 1082	650 x 600 x 1082	900 x 600 x 1082
Internal Dimensions mm (WxDxH)	530 x 600 x 760	630 x 600 x 760	880 x 600 x 760
Working aperture size mm (WxH)	500 x 300	600 x 300	800 x 250
Face Velocity	>0.5m/sec	>0.5m/sec	>0.5m/sec
Airflow	290m ³ /hr	340m ³ /hr	360m ³ /hr
Filter Weight	12kg	14kg	18kg
Pre-Filter	Filtrete		
Internal Lighting	18 watt fluorescent	18 watt fluorescent	18 watt fluorescent
Fan	Centrifugal, Brushless and Sparkless		
Noise Level	<52db(A)	<52db(A)	<52db(A)
Electrical Supply	230v - 80watts	230v - 80watts	230v - 80watts
Construction	Head: Epoxy Powder Coated Zintec Steel* Base: Epoxy Powder Coated Zintec Steel frame* with 6mm clear acrylic front and side panels *Can optionally be manufactured from white chemically resistant polypropylene		
Options	Polypropylene Spillage Tray with or without sink Gas supplies Base Stand Under cupboard Custom sizes for increased height, width or depth		

Carbon Filter Types		LabSwas Cabinet		
		Compatible filter weights (kg)		
		550	650	900
		Main Filter	Main Filter	Main Filter
AC	General organic compounds (i.e. elemental iodine, solvents, odours etc)	12	14	18
ACID	Acidic compounds (and general organics)	12	14	18
ACR	Alkali compounds (and general organics)	12	14	18
AMM	Ammonia & Amine containing compounds (and general organics)	12	14	18
CYN	Cyanide compounds (and general organics)	12	14	18
ETHER	Ether compounds (and general organics)	12	14	18
FORM	Aldehydes (and general organics)	12	14	18
SUL	Sulphur compounds (and general organics)	12	14	18
MCH	Special blend of up to 4 of the above carbon types	12	14	18
SCHOOLS	Tri-layered filter for schools (and general organics)	12	14	18
HEPA Filters				
HEPA	99.997% efficient @ 0.3 µm – for particulate containment	YES*	YES*	YES*

*Also available as an outlet filter in conjunction with a main Carbon or HEPA filter - adds 70mm to overall height

Ants Innovations PVT. LTD

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