

Vertical Laminar Air Flow Cabinet



Ettore Darvi

The **Vertical Laminar Air Flow Cabinet** is a contamination-free workspace solution designed to protect samples from airborne particulate by providing a constant vertical flow of filtered air across the work surface.

Airflow Pattern :

Air enters from the top of the cabinet and flows downwards in a unidirectional, parallel stream towards the work surface

Applications :

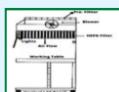
- **Tissue Culture Labs** : Prevent contamination in cell culture work.
- **Electronics Assembly** : Clean handling of sensitive microelectronic parts.
- **Pharmaceutical Compounding** : Safe preparation of non hazardous drugs and sterile solutions.
- **Food Testing & Quality Control** : Contaminant-free workspace for food microbiology.



Benefits :

- **Product Protection:** Prevents contamination of samples and products.
- **User-Friendly Operation:** Easy to operate with ergonomic design and low maintenance.
- **Energy Efficient:** Low power consumption with an efficient airflow system.

Product Description			
Model	Nominal Width	Inner Chamber (WxDxH) mm	Outer Chamber (WxDxH with Stand) mm
AS-VLAF-2MS 2SS	2 Ft.	605 x 600 x 600 mm	715 x 830 x 2000 mm
AS-VLAF-3MS 3SS	3 Ft.	910 x 600 x 600 mm	1020 x 830 x 2000 mm
AS-VLAF-4MS 4SS	4 Ft.	1220 x 600 x 605 mm	1335 x 850 x 2000 mm
AS-VLAF-6MS 6SS	6 Ft.	1820 x 600 x 605 mm	1930 x 830 x 2000 mm
Customized sizes available on request			



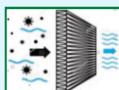
Vertical Laminar

Provides uniform downward airflow to protect samples from contamination.



UV Germicidal Lamp

Sterilizes the work area before and after operations



HEPA | ULPA Filter

High-efficiency | Ultra low particulate air filter (99.97% @ 0.3µm | 99.999% @ 0.12µm) ensures ISO Class 5 cleanliness.



Microprocessor Control Panel

User-friendly control with programmable settings



LED Lighting

Shadow-free, energy-efficient illumination (LUX > 1000) for clear visibility.



Low Noise, High Efficiency

Quiet operation with high-performance blower system

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Ergonomic Design



Partitioned Workbench

Easy to lift and clean which can be directly placed into the autoclave.



Workbench

Smooth workbench for contamination-free laminar air flow SS-304 Grade



Drop down Glass Door

Drop down glass door is easy to clean.



Gas Valve Nozzle

High quality stainless steel valve with a yellow safety cap, ideal for precise gas control.



Power Socket with MCB

Universal socket with built in Mini Circuit Breaker ensures safe and reliable power supply with overload protection.



10° Inclination Design of Cabinet Body

The front operation interface has an ergonomic design of 10° inclination to ensure more comfortable operation.



Seamless Corner

Seamless corners ensure zero contamination & built for ultimate sterile performance



Lockable Caster Wheel

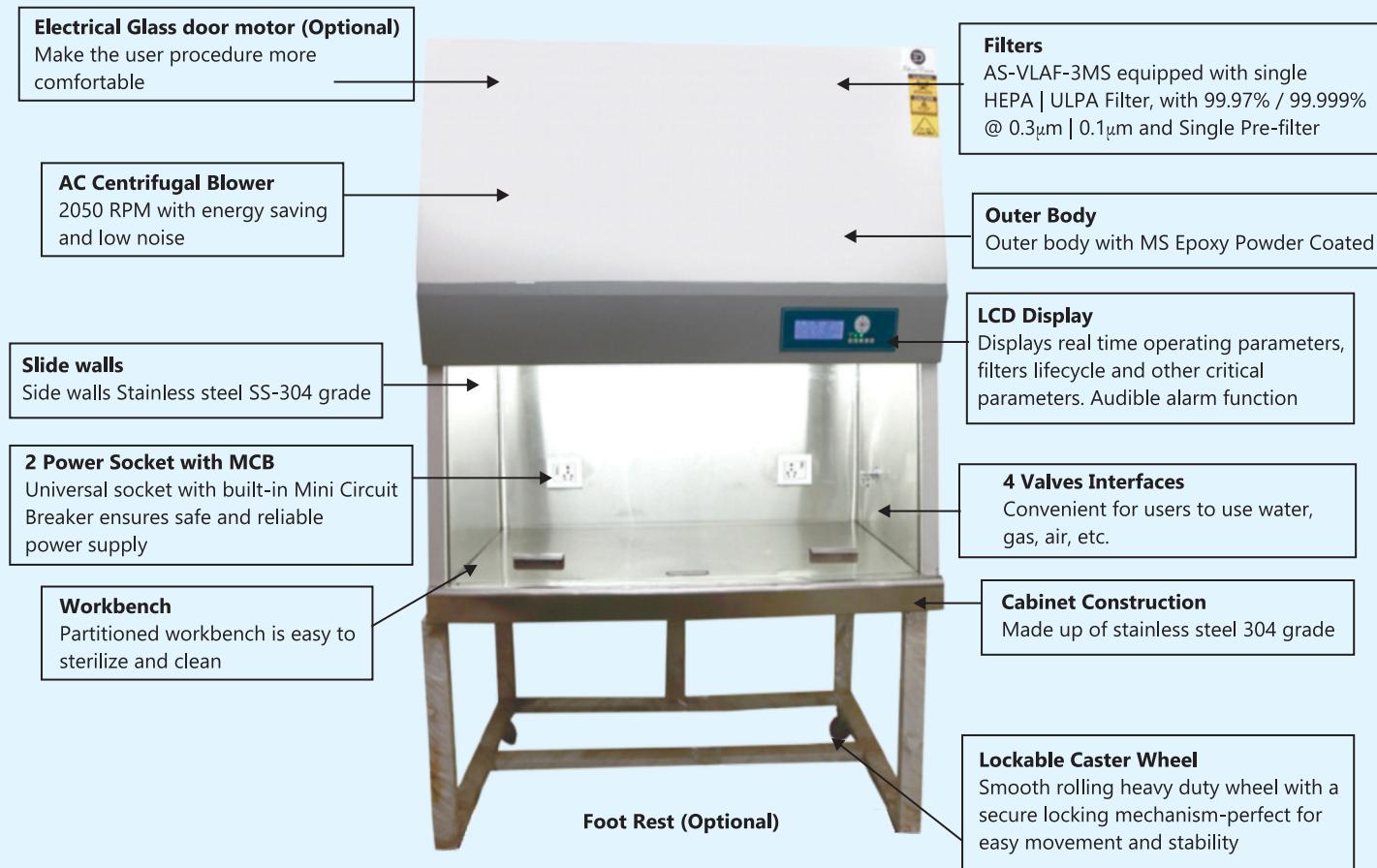
Smooth rolling heavy duty wheel with a secure locking mechanism-perfect for easy movement and stability.

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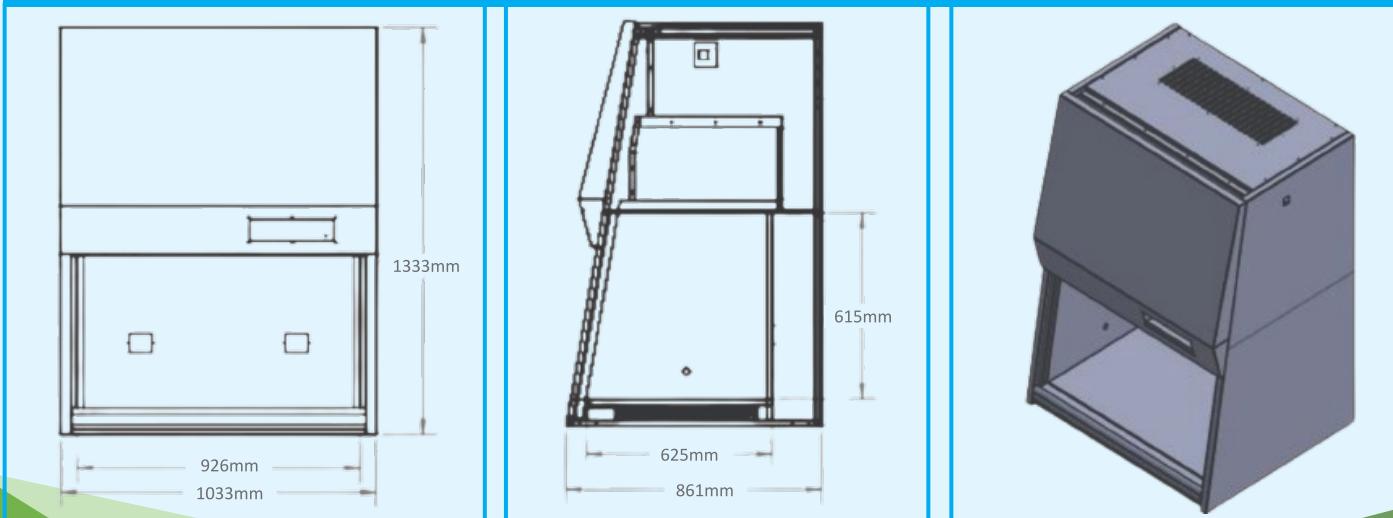
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PRODUCT PARTS



PRODUCT DIMENSIONS (in mm)

AS-VALF-3MS



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TECHNICAL SPECIFICATIONS

Airflow	Airflow Type	Vertical
	Air Velocity	0.30m/s-0.60m/s
Cabinet Construction	Blower	Single phase, 2050rpm, centrifugal impeller, low noise & low vibration
	Work zone	SS304 Stainless Steel
	Main Body	MS Powder Coated SS-304
	Sash Glass Thickness	5mm
	Sash Glass Type	Tempered Glass Tuffen Glass
	Sash Working Opening	8"/20cm
	Sash Maximum Opening	12"/30cm
	Full access to Glass Cleaning	Yes
	Illumination(Lx)	≥1000LX
	Noise	≤65db
Cleanliness	Cleanliness	class 100
	Pre-Filter Efficiency	90% efficiency for particles >10µm
	Filtration Efficiency	0.3µmparticle ≥99.97%
Controlling System	Display	LCD Display
	Air Velocity Display	Yes
	Blower Switch	Yes
	Brightness Lamp Switch	Yes
	UV Lamp & Timer	Yes
Stand	Foldable stand	Stainless steel SS304 Grade
Certificate	EN12469, ISO14644, ISO9001, ISO13485, CE, GMP, IEC61010	Yes, Certified
Power Supply	AC220V,1φ 50Hz	Yes
Weight	Net Weight	235kg
	Gross Weight	260kg
Alarm	Alarm type	Sound+Indication
	Sash height high/low	Yes
	Filter blocked	Indication
	Filter Lifetime	Yes
	Air Velocity high/low	Indication
Optional Features	Touchscreen Display Pressure Gauge Valve ULPA Filter	



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