

# Horizontal Laminar Air Flow Cabinet



Ettore Darvi

**Horizontal Laminar Air Flow Cabinet** is a contamination-free workstation that provides HEPA-filtered air in a horizontal unidirectional flow to protect samples from airborne contaminants during sensitive operations

## Airflow Pattern :

- **Horizontal Unidirectional Flow:** HEPA-filtered air flows from the rear of the cabinet directly toward the operator across the work surface.

## Applications :

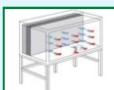
- **Microbiology & Cell Culture Labs :** Avoid contamination during aseptic processing
- **Electronics Assembly :** Dust-free environment for delicate circuitry and sensors.
- **Pharmaceutical Production :** Safe handling of non-hazardous formulations.
- **Food & Beverage Testing :** Clean zone for quality control and microbial testing.

## Benefits

- **Sample/Product Protection :** Prevents contamination during processing.
- **Ergonomic Design:** Comfortable front-access for users.
- **Low Power Consumption:** Energy-efficient blowers and LED lighting.
- **Mobility Options:** Available with caster wheels for easy repositioning.



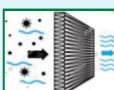
Product Description			
Model	Nominal Width	Inner Chamber (WxDxH) mm	Outer Chamber (WxDxH with Stand) mm
<b>AS-HLAF-2MS   2SS</b>	2 Ft.	610 x 600 x 600 mm	725 x 800 x 2000 mm
<b>AS-HLAF-3MS   3SS</b>	3 Ft.	910 x 600 x 600 mm	1020 x 800 x 2000 mm
<b>AS-HLAF-4MS   4SS</b>	4 Ft.	1210 x 600 x 600 mm	1320x 800 x 2000 mm
<b>AS-HLAF-6MS   6SS</b>	6 Ft.	1800 x 600 x 600 mm	1925 x 800 x 2000 mm
Customized sizes available on request			



**Horizontal Laminar**  
Ensure sample protection



**UV Germicidal Lamp**  
Ensure chamber sterilization before and after use



**HEPA | ULPA Filter**  
Single stage of filtration from rear to front



**Microprocessor Control Panel**  
Easy programming & display of Fan, UV & Light Setting



**LED Lighting**  
Bright, Shadow-free illumination of the working area LUX >1000



**Low Noise, High Efficiency**  
Quiet operation with powerful blower

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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



### Sliding Front Glass Window

Smooth, counterbalanced design for safe and easy operation.



### 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° Sloped Front Design

Ergonomic design that enhances operator comfort, improves visibility, and ensures safer, more efficient workflow during extended operations.



### Seamless Corner

Seamless corners ensure zero contamination & built for ultimate sterile performance



### Lockable Caster Wheel

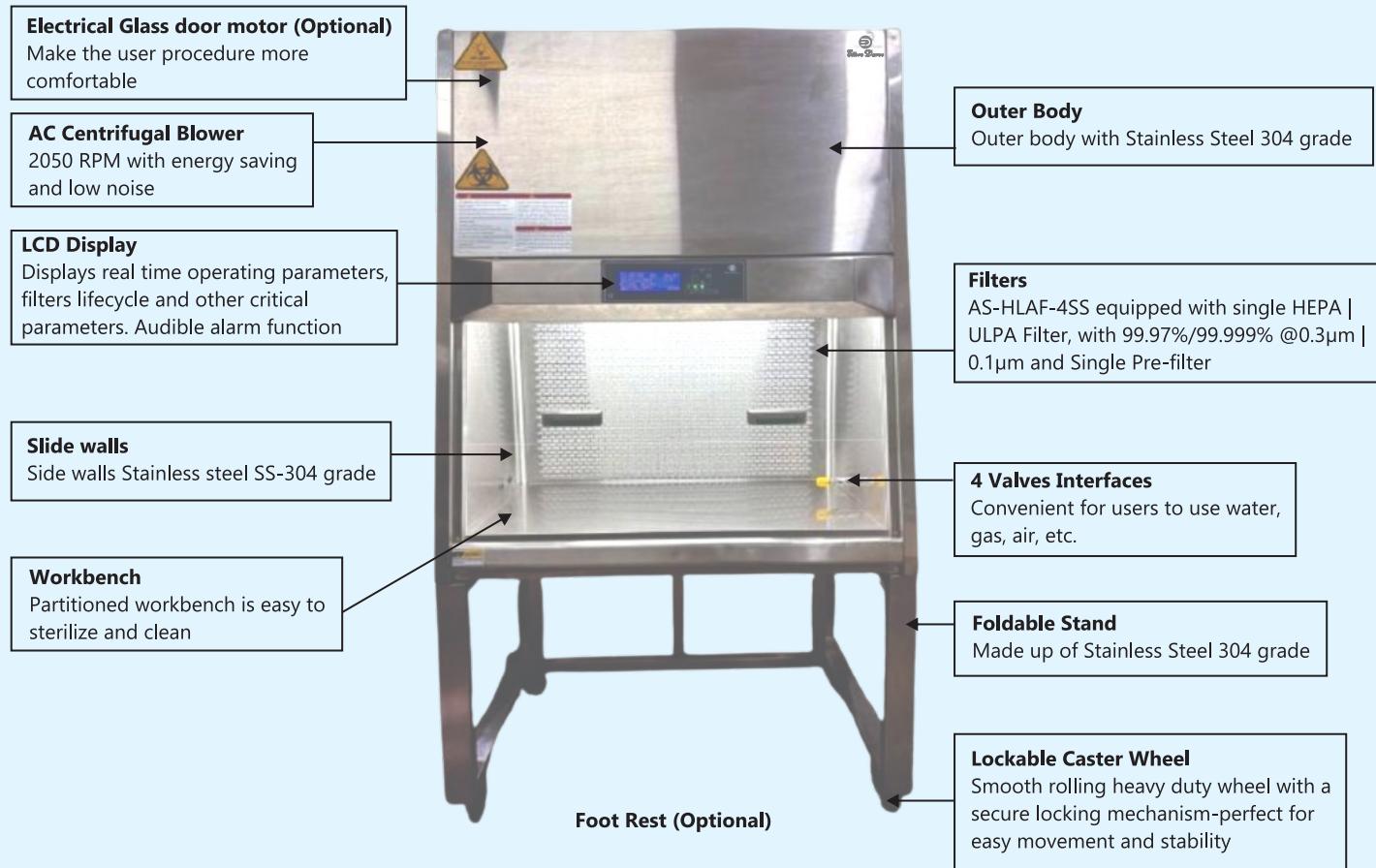
Smooth rolling heavy duty wheel with a secure locking mechanism-perfect for easy movement and stability.

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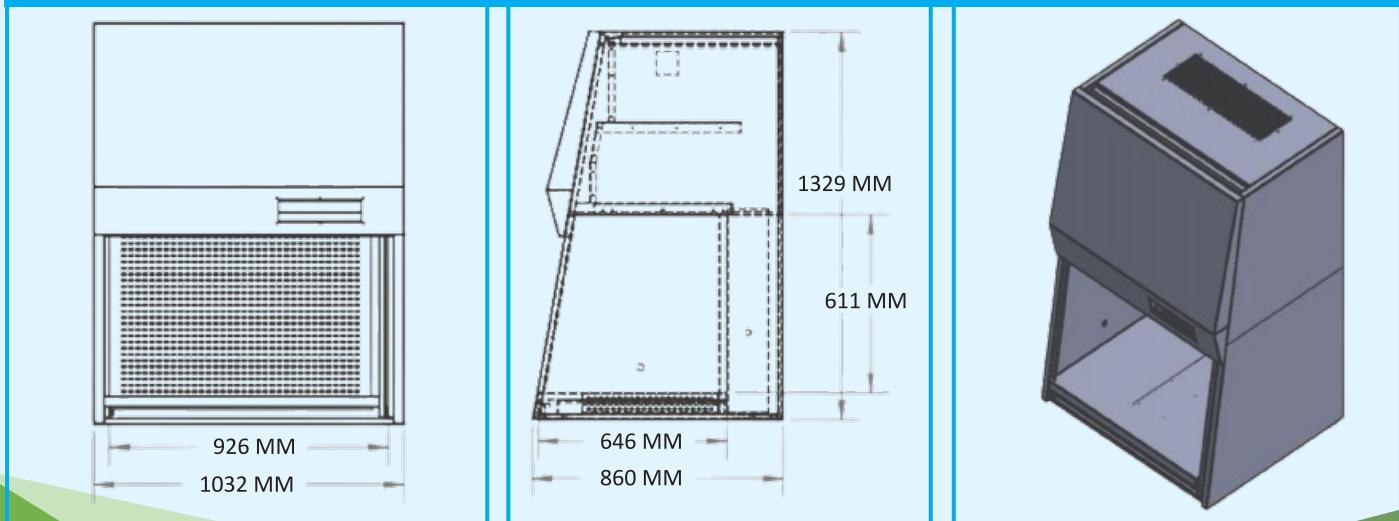
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## PRODUCT PARTS



## PRODUCT DIMENSIONS (in mm)

AS-HALF-4MS



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## TECHNICAL SPECIFICATIONS

<b>Airflow</b>	<b>Type</b>	<b>AS-HALF-4SS   4MS</b>
	Airflow Type	Horizontal
	Air Velocity	0.30m/s-0.60m/s
<b>Cabinet Construction</b>	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)	≥800LX
<b>Cleanliness</b>	Noise	≤65db
	Cleanliness	class 100
	Pre-Filter Efficiency	90% efficiency for particles >10µm
<b>Controlling System</b>	Filtration Efficiency	0.3µmparticle ≥99.97%
	Display	LCD Display
	Air Velocity Display	Yes
	Filter Lifetime Display	Yes
	Blower Switch	Yes
	Brightness Lamp Switch	Yes
	UV Lamp & Timer	Yes
<b>Electrical Data</b>	Socket Power Switch	Yes
	Rated Power (W)	240 W
<b>Certificate</b>	ISO14644, ISO9001, EN12469,CE Certified, ISO13485, GMP, IEC61010	Yes, Certified
<b>Stand</b>	Foldable stand	MS Powder Coated   SS304 Grade
<b>Power Supply</b>	AC220V,1φ 50Hz	Yes
<b>Weight</b>	Net Weight	235kg
	Gross Weight	260kg
<b>Alarm</b>	Alarm type	Sound+Indication
	Sash height high/low	Yes
	Filter blocked	Indication
	Filter Shattered	Yes
	Filter Lifetime Remind	Yes
	Air Velocity high/low	Indication
<b>Optional Features</b>	Touchscreen Display   Pressure Gauge   Valve   ULPA Filter	



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