

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 :

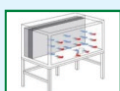
- **Microbiology & Cell Culture Labs :** Avoid contamination during aseptic processing
- **Electronics Assembly :** Dust-free environment for delicate circuitry and sensors.
- **Pharmaceutical Production :** Safe handling of non-hazardous formulations.
- **Food & Beverage Testing :** Clean zone for quality 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 |
| AS-HLAF-2MS 2SS | 2 Ft. | 610 x 600 x 600 mm | 725 x 800 x 2000 mm |
| AS-HLAF-3MS 3SS | 3 Ft. | 910 x 600 x 600 mm | 1020 x 800 x 2000 mm |
| AS-HLAF-4MS 4SS | 4 Ft. | 1210 x 600 x 600 mm | 1320x 800 x 2000 mm |
| AS-HLAF-6MS 6SS | 6 Ft. | 1800 x 600 x 600 mm | 1925 x 800 x 2000 mm |
| Customized sizes available on request | | | |



Horizontal Laminar
Ensure sample protection



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



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



UV Germicidal Lamp
Ensure chamber sterilization before and after use



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



Low Noise, High Efficiency
Quiet operation with powerful blower

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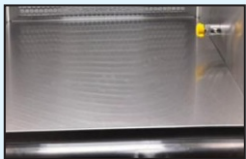
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Ergonomic Design



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.



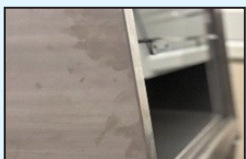
Gas Valve Nozzle

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



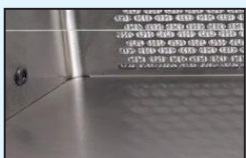
Power Socket with MCB

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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PRODUCT PARTS

Electrical Glass door motor (Optional)

Make the user procedure more comfortable

AC Centrifugal Blower

2050 RPM with energy saving and low noise

LCD Display

Displays real time operating parameters, filters lifecycle and other critical parameters. Audible alarm function

Slide walls

Side walls Stainless steel SS-304 grade

Workbench

Partitioned workbench is easy to sterilize and clean

Outer Body

Outer body with Stainless Steel 304 grade

Filters

AS-HLAF-4SS equipped with single HEPA | ULPA Filter, with 99.97%/99.999% @0.3µm | 0.1µm and Single Pre-filter

4 Valves Interfaces

Convenient for users to use water, gas, air, etc.

Foldable Stand

Made up of Stainless Steel 304 grade

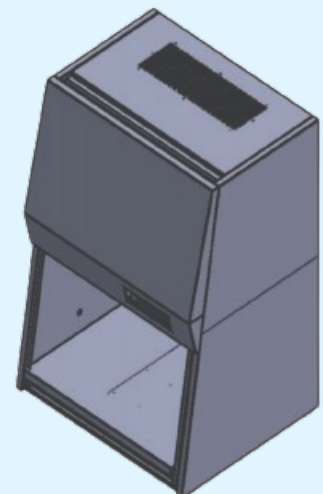
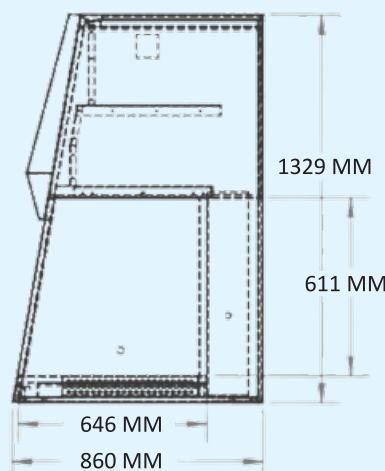
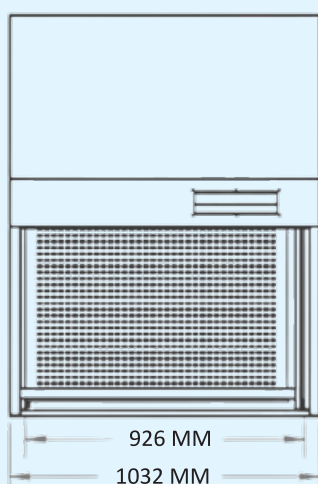
Lockable Caster Wheel

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

Foot Rest (Optional)

PRODUCT DIMENSIONS (in mm)

AS-HALF-4MS



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TECHNICAL SPECIFICATIONS

| Airflow | Type | AS-HALF-4SS 4MS |
|----------------------|--|---|
| | Airflow Type | Horizontal |
| | 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) | ≥800LX |
| | Noise | ≤65db |
| Cleanliness | Cleanliness | class 100 |
| | Pre-Filter Efficiency | 90% efficiency for particles >10µm |
| | Filtration Efficiency | 0.3µm particle ≥99.97% |
| Controlling System | Display | LCD Display |
| | Air Velocity Display | Yes |
| | Filter Lifetime Display | Yes |
| | Blower Switch | Yes |
| | Brightness Lamp Switch | Yes |
| | UV Lamp & Timer | Yes |
| | Socket Power Switch | Yes |
| Electrical Data | Rated Power (W) | 240 W |
| Certificate | ISO14644, ISO9001, EN12469,CE Certified, ISO13485, GMP, IEC61010 | Yes, Certified |
| Stand | Foldable stand | MS Powder Coated SS304 Grade |
| 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 Shattered | Yes |
| | Filter Lifetime Remind | Yes |
| | Air Velocity high/low | Indication |
| Optional Features | Touchscreen Display Pressure Gauge Valve ULPA Filter | |



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