

LAMINAR AIR FLOW (HORIZONTAL)



KEY FEATURES

Construction

- Made of powder-coated mild steel or stainless steel (SS 304/316).
- Smooth, jointless working area to prevent bacterial growth.

Clean Air Environment

- Provides ISO Class 5 (Class 100) clean air to protect samples from contamination.
- Air flows horizontally from the HEPA filter (at rear) toward the operator.

High-Efficiency HEPA Filter

- Efficiency: 99.97% at 0.3 microns.
- Removes airborne particulates and microorganisms.

Pre-Filter Unit

- Washable synthetic pre-filter traps larger dust particles, extending HEPA filter life.

Air Flow Velocity

- Uniform air velocity typically between 0.3 – 0.45 m/s, ensuring consistent laminar flow.

Work Area Illumination

- Equipped with fluorescent light and optional UV germicidal lamp for sterilization.

Blower System

- Quiet, vibration-free, dynamically balanced motor-blower assembly.
- Energy efficient and low noise (<65 dB).

Front Door / Shutter

- Transparent Polycarbonate or Acrylic shield for visibility and protection.

Control Panel

- On/off switches for light, UV, and blower.
- Hour meter and airflow monitor (optional).

Safety Features

- UV interlock system to prevent UV exposure during operation.
- Airflow alarm for low-pressure indication (in advanced models).

Power Supply

- 230 V \pm 10%, 50 Hz, single-phase AC.

Optional Features

- Magnehelic gauge for pressure monitoring.
- Castor wheels for easy mobility.
- DOP port for filter integrity testing.

TECHNICAL SPECIFICATIONS

MODEL NO	PTE- HLAf-823 A	PTE- HLAf-823 B	PTE- HLAf-823 C	PTE- HLAf-823 D
WORKING Table SIZE	2'x2'	3'x2'	4'x2'	6'x2'
Inner Size (WxDxH)	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'
HEPA Filter Size	2'x2'x6"	3'x2'x6"	4'x2'x6"	3'x2'x6" (2 nos)
No. Of Motor/ Blower	1	1	1	2
Illumination	1 x 20 w	1 x 20 w	2 x 40 w	2 x 40 w
Main Filter	HEPA Filter (99.97% efficient at 0.3 micron particles)			
Pre- Filter	High efficiency pre- filter (Washable) [®]			
MOC	Stainless Steel 304/316 , Mild steel Duly powder coated , Polypropylene			
Air Flow	Horizontal Air Flow			
Sterilization	By U.V Germicidal Tube in work area			
Front Door	Made of Polycarbonate /Acrylic Glass 5 mm			
Noise Level	Less than 65 db			
Standard Accessory	Gas / Air cock			
Electric Supply	AC 230V , 50/60Hz			

