

LAMINAR AIR FLOW (VERTICAL)



APPLICATIONS

- **Pharmaceuticals:** Aseptic filling, compounding, sample preparation.
- **Microbiology & Biotechnology Labs:** Handling sterile cultures and cell lines.
- **Electronics Industry:** Assembly of sensitive electronic components.
- **Food Industry:** Sample testing and microbiological analysis.
- **Hospitals & Research Labs:** IV preparation, pathology, tissue culture.
- **R&D & Quality Control Labs:** Sterile environment for experiments.
- **Plant Tissue Culture Laboratories :** Ensures contamination-free environment for inoculation and sub-culturing of explants.

KEY FEATURES

- **Vertical Air Flow Pattern** – Air flows vertically from top to bottom, ensuring a clean and particle-free working environment.
- **HEPA Filtration** – Equipped with a HEPA filter (99.97% efficiency at 0.3 microns) to provide Class 100 (ISO 5) clean air.
- **Pre-Filter** – Washable pre-filter traps larger dust particles, extending the HEPA filter's life.
- **Work Area Illumination** – Bright, glare-free LED or fluorescent lighting for clear visibility.
- **Construction** – Made of mild steel powder coated, stainless steel (SS 304), or a combination for durability and corrosion resistance.
- **Acrylic / Glass Front Shield** – Transparent front panel for operator protection and visibility.
- **Blower Assembly** – Dynamically balanced, low-noise centrifugal motor blower for uniform airflow.
- **Air Velocity** – Maintained between 0.3 to 0.5 m/s (90 ± 20 FPM) across the working area.
- **Vibration-Free Operation** – Mounted on anti vibration pads for stable, quiet performance.
- **UV Germicidal Lamp** – For sterilization of the workspace before and after use.
- **Control Panel** – Includes switches for blower, UV light, fluorescent light, and sockets with indicators.

TECHNICAL MATRIX

MODEL NO	PTE- VLAF-824A	PTE- VLAF-824 B	PTE- VLAF-824 C	PTE- VLAF-824 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	Vertical 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 / Electrical switches 5 or 15 amp Socket with Switch			
Electric Supply	AC 230V , 50/60Hz			

