

A blue-tinted banner image showing various pharmaceuticals like pills and capsules, along with laboratory glassware like petri dishes and test tubes. The text "Laminar Air Flow" is overlaid in white, italicized font.

Laminar Air Flow

LABWORLD by LABSERVIS Laminar Air Flow are designed for product protection. These Safety Cabinets are ideally used in hospitals, clinical research, life science, Blood Banks and pharmaceutical laboratories.

Construction

These cabinets are basically constructed with an outer body of Mild Steel duly powder coated. The inner work table is made of stainless steel. GMP models are in total stainless steel Inside S. S 304 with mirror finish and outside. S.S 304 dull finishes. The unit is mounted on caster wheels for ease of mobility.

Duly balanced, direct drive highly efficient centrifugal blower units sized to provide adequate air flow volume over the entire surface of HEPA filter. These are directly coupled to an inbuilt motor and operate with minimum noise level i.e. lower than 65 db on scale and Vibration less than 2.5 um.

Control System

A programmable logic controller (PLC) is used for controlling of pressure, temperature, system status with audio visual alarm, control of illumination, UV lamp and Door open and close functions. Colour 4.3' HMI with touch screen displays all the parameters including air velocity/Pressure and timer. An inbuilt UV timer helps in the decontamination by switching ON the UV tube for a certain interval of time. A user friendly soft touch controls for blower, light, UV

Laminar Air Flow

Laminar airflow cabinet is a Clean Bench designed to prevent contamination of semiconductor wafers, biological samples, or any particle sensitive device. The cabinet is made of Mild steel or stainless steel. These Laminar Air Flow units are used for applications such as tissue culture, media preparation, sterile handlings, PCR sample preparation and many more.

Laminar air Flow cabinet exist in both horizontal and vertical configurations, Laminar air flow cabinets may have a UV-C germicidal lamp to sterilize the cabinet and contents when not in use.

AIR FLOW AND FILTRATION

Laminar air Flow principle involves double filtration of air. Atmospheric air is drawn through pre Filter and is made to pass through highly effective HEPA (High Efficiency Particulate Air) Filters having efficiency rating as high as 99.99% with cold DOP and 99.97% with hot DOP, thus retaining all airborne particles of size 0.3 micron and larger. Double

Filtered air blows in laminar Flow through the work table at designed velocity of 70 FPM-110FPM Avg. Air Flow velocity 90 FPM



SALIENT FEATURES

- A programmable logic controller (PLC) is used for controlling
- Large front panel colour 4.3' Touch display and user
- Slanted view screen provides highly visible and easily accessible area
- Work area is surrounded by negative pressure, double-wall plenums for Superior protection
- Sturdy construction of cabinet protects from air leakage from the working zone
- Display of Life of UV lamp, HEPA filter and temperature
- Caster wheels for ease of mobility
- Leveling jack for vibration free operation
- 2 supply valves are available for extensive function, compatible with liquid, gas and vacuum
- 2 water proof sockets are located in the side panel
- UV interlock system is a standard feature with all cabinets with UV lamp

TECHNICAL SPECIFICATIONS FOR VERTICAL LAMINAR AIR FLOW

	LW-LAF-2V	LW-LAF-3V	LW-LAF-4V	LW-LAF-5V	LW-LAF-6V
Cat. No.	LW-LAF-2VP	LW-LAF-3VP	LW-LAF-4VP	LW-LAF-5VP	LW-LAF-6VP
	LW-LAF-2VG	LW-LAF-3VG	LW-LAF-4VG	LW-LAF-5VG	LW-LAF-6VG
	LW-LAF-2VGP	LW-LAF-3VGP	LW-LAF-4VGP	LW-LAF-5VGP	LW-LAF-6VGP
Working Area (mm)	600×600×600	900×600×600	1200×600×600	1500x600x600	1800×600×600
Air Flow	Vertical				
Working Table	Stainless steel 304, 16 SWG				
Control system	PLC / Manual				
Display	Colour HMI with touch screen / Deferential Pressure Gauge				
Size of HEPA Filter (mm)	600×600×76	900×600×76	1200×600×76	1500 x600x76	1800×600×76
Pre Filters	1				
Filter efficiency	99.9 %				
Air Cleanliness	Class 100				
Particle Retention	0.3 micron				
Velocity	90 FPM + 20 %				
Illumination	LED, 750 - 800 LUX				
External Size with stand	730x700x1975	1030x700x1975	1330x700x1975	1630x700x1975	1930x700x1975
Size with packing	860x830x1500	1260x830x1500	1460x830x1500	1760x830x1500	2060x830x1500
Power	500 W	500 W	1000 W	1000 W	1000 W
Net weight	110	125	150	160	190
Gross weight	145	175	185	185	225
Voltage	110 V/230 V AC				

P Models are with Programmable logic control (PLC)

G Models are made outer of Stainless steel 304 (GMP)

TECHNICAL SPECIFICATIONS FOR HORIZONTAL LAMINAR AIR FLOW

Cat. No.	LW-LAF-2H	LW-LAF-3H	LW-LAF-4H	LW-LAF-5H	LW-LAF-6H
	LW-LAF-2HP	LW-LAF-3HP	LW-LAF-4HP	LW-LAF-5HP	LW-LAF-6HP
	LW-LAF-2HG	LW-LAF-3HG	LW-LAF-4HG	LW-LAF-5HG	LW-LAF-6HG
	LW-LAF-2HGP	LW-LAF-3HGP	LW-LAF-4HGP	LW-LAF-5HGP	LW-LAF-6HGP
Working Area (mm)	600×600×600	900×600×600	1200×600×600	1500×600×600	1800×600×600
Air Flow	Horizontal				
Working Table	Stainless steel 304, 16 SWG				
Control system	PLC / Manual				
Display	Colour HMI with touch screen / Differential Pressure Gauge				
Size of HEPA Filter	600×600×76	900×600×76	1200×600×76	1500 x600x76	1800×600×76
Pre Filters	1				
Filter efficiency	99.9 %				
Working Area	Class 100				
Particle Retention	0.3 micron				
Velocity	90 FPM + 20 %				
Illumination	LED, 750 - 800 LUX				
Voltage	110 V/230 V AC				
Power	500 W	500 W	1000 W	1000 W	1000 W
External Size	730 x800x1200	1040x800x1200	1345x800x1200	1650x800x1200	1960x800x1200
External Size with stand	730x800x1900	1040x800x1900	1345x800x1900	1650x800x1900	1960x800x1900
Size with packing	860x927x1650	1170x927x1650	1480x927x1650	1780x927x1650	2090x927x1650
Net weight	110	125	150	160	190
Gross weight	145	175	185	185	225

P Models are with Programmable logic control (PLC)

G Models are made out of Stainless steel 304 (GMP)

REGISTERED OFFICE

319, DATTAKRUPA BUILDING, OPPOSITE YES BANK ATM, SECTOR-4, GHANSOLI NAVI MUMBAI 4000701

Email: sales@labservis.in / Contact: +91- 9372690451

Web: www.labservis.in