

DESCRIPTION



PRODUCT OVERVIEW

Vertical Laminar Flow Benches deliver an ultra clean laminar airflow over a working bench to protect manipulated products from dust, from environment contamination and from cross contamination in the working area.

They are an ideal solution for the handling of harmless substances and non hazardous biological samples where product sterility is required.

Some appropriate applications include cell & tissue culture, media preparation, hematology, immunology or R&D practices working with no toxic or pathogenic samples.

V-100 Series are recommended for the handling of non hazardous biological samples (cell and tissue culture) as well as for optics and electronics.

Main features: The unit is provided with one HEPA-14 filter for the downflow, allowing operation in sterile and particle free conditions due to the continuous flushing of the working area by a unidirectional vertical and ultra filtered air flow, thus assuring full product protection. The flow is partially recirculated to keep the working chamber under negative pressure. Inflow at the front access of the cabinet is providing basic user protection against splashes and odours.



CONFIGURATIONS

Model	Unit	PV-100	AV-100	BV-100	CV-100
External Dimensions	(WxHxD)	802x1290x845	1260x1290x845	1565x1290x845	1870x1290x845
Working Dimensions	(WxHxD)	772x700x610	1230x700x610	1535x700x610	1840x700x610
Flow/Air Speed	m ³ /h-m/s	620 - 0.40	1010 - 0.40	1100 - 0.35	1335 - 0.35
Power / Weight	kW / kg	1 / 100	1.5 / 140	1.5 / 160	1.9 / 190
Lighting	lux	> 650 lux	> 650 lux	> 800 lux	> 800 lux
Exhaust Flow	m ³ /h	200	200	200	200
Noise Level	dB (A)	< 60			
Filters	HEPA/ULPA	99.999% at 0,3 µm particle size according to DOP			
Fans		Centrifugal high efficiency with speed regulation			
Supply		220 V - 50 Hz single ph (other upon requirement)			
General Features		<ul style="list-style-type: none"> • High quality: cabinet frame made of stove-enamel coated steel. • Compact size: minimized width and height for to be compatible with all laboratory doors and dimensions. • Easy to maintain: access to main filter direct from the chamber, for a comfortable replacement. • Comfortable work: removable tempered glass chamber sides increase the available light inside the work area and support a comfortable work environment. • Easy to clean: <ul style="list-style-type: none"> Tempered and UV resistant glass front window counterbalanced with gas springs to maintain it in open position for easy cleaning of chamber and of window. Stainless steel divided working tray to allow easy cleaning. • Services: one electrical socket 230V at the back wall of the chamber 			

AVAILABLE OPTIONS

1. Support table to keep lab bench space available.
2. Activated charcoal additional filter: placed at the exhaust to traps chemical vapours and smell.
3. U.V. light as permanent installation in the cabinet for chamber sterilization.
4. Gas and/or vacuum taps: two taps can be installed at right or left chamber sides according to needs.
5. Filter clogging alarm: the continuous measurement of filter pressure drop allows detecting and indicating when clogging level requires the replacement of the filter
6. Gas burner with foot pedal and flame monitor.

CONTROL SYSTEM

The units are equipped with an intuitive electronic control system which offers fast and complete control over all cabinet functions:

1. Alphanumeric LCD display (1) indicates:
 - Airflow status: Full speed or stand-by speed.
 - U.V. count down timer with programming
 - Total running hours of the cabinet and
 - UV light running hours.
2. Function scrolling keys (2).
3. Full speed/stand-by speed selection key with LED (3).
4. Light ON/OFF key and LED (4).
5. UV Light ON/OFF key and LED (5).
6. Activation key of optional electrical equipment (6).
7. Filter clogging alarm LED, optional (7).
8. UV "ON" alarm LED, optional (8).

