



Telstar® V-100
V-30/70

Vertical Laminar Flow Benches



Telstar V-100 V-30 / 70 Series **Vertical Laminar Flow Benches**



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 ideal solution for the handling of non hazardous biological samples (cell and tissue culture) as well as for optics and electronics.

Telstar offers two series of Vertical Laminar Flow Benches: V-100 Series and the V-30/70 Series with air recirculation

Telstar V-100 Series: with 1 HEPA filter for down flow, allows 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. 100% of the flow is expelled at the front and at the rear of the chamber.

Telstar V-30/70 Series: as in V100 series, air flows down to the bench through a H14 HEPA filter and an additional air flows enters from the front to create an air barrier which brings protection to operator and to lab environment.

70% of the air is recirculated thus minimizing filter clogging and the other 30% are expelled through a HEPA H14 at top of the unit. All models are supplied with working area CLASS 10 as defined by U.S. Fed. Std. 209 a B.S. 5295.



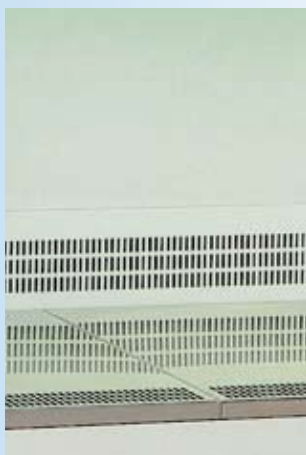
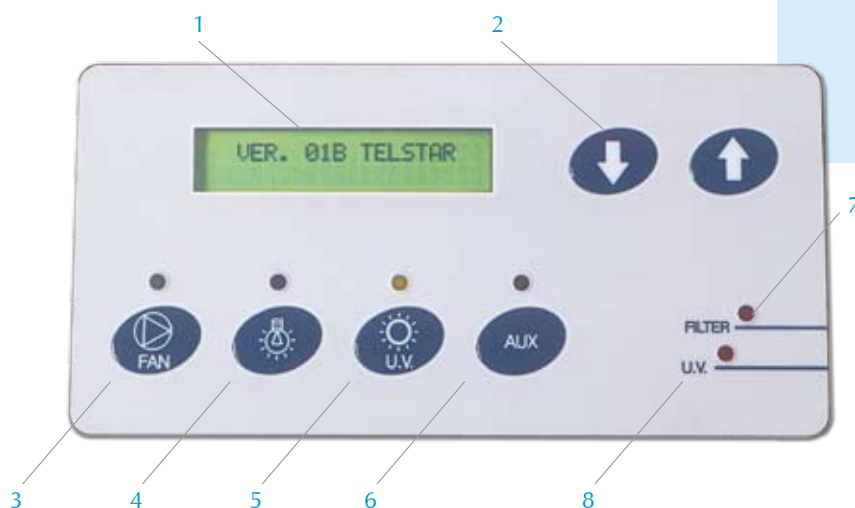
General Features

- Cabinet frame is made of stove-enamel coated steel.
- Minimized width and height are compatible with all laboratory doors and dimensions.
- Easy access to main filter from the chamber, for replacement.
- Removable tempered glass chamber sides.
- Pivoting front window with gas springs to maintain it in open position for the introduction of large items and for easy cleaning of chamber and of window.
- Stainless steel divided working tray.
- Electric socket 230V at the rear of the chamber

Control System

Both V-100 and V-30/70 units are equipped with an intuitive electronic control system which offers fast and complete control over all cabinet functions.

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



Partitioned stainless steel bench.
Easy to clean



Gas and vacuum taps (optional)



Tempered glass front window
with gas springs

Technical Data

V/100 SERIES	UNIT	PV-100	AV-100	BV-100	CV-100
External dimensions	WxDxH (mm)	802x845x1290	1260x845x1290	1565x845x1290	1870x845x1290
Internal dimensions	WxDxH (mm)	772x670x700	1230x670x700	1535x670x700	1840x670x700
Flow / Air speed	m ³ /h - m/s	620 - 0.40	1010 - 0.40	1100 - 0.35	1335 - 0.35
Exhaust flow	m ³ /h	130	130	130	130
Power / Weight	kW / kg	1 / 100	1.5 / 140	1.5 / 160	1.9 / 190
Lighting	lux	> 650	> 650	> 800	> 800
Noise level	dB (A)	< 60			
Filters	HEPA/ULPA H14	Efficiency: > 99.999 % (DOP) Clase 10			
Fans		Centrifugal high efficiency with speed control			
Supply		230 V - 50 Hz single ph (other upon requirement)			

V-30/70 SERIES	UNIT	PV-30/70	AV-30/70	PV-30/70	CV-30/70
External dimensions	WxDxH (mm)	802x845x1290	1260x845x1450	1565x845x1450	1870x845x1450
Internal dimensions	WxDxH (mm)	772x670x700	1230x670x700	1535x670x700	1840x670x700
Flow / Air speed	m ³ /h - m/s	620 - 0.40	1010 - 0.40	1100 - 0.35	1335 - 0.35
Exhaust flow	m ³ /h	290	360	380	500
Power / Weight	kW / kg	1 / 100	1.5 / 150	1.5 / 170	1.9 / 205
Lighting	lux	> 650	> 650	> 800	> 800
Noise level	dB (A)	< 60			
Filters	HEPA/ULPA H14	Efficiency: > 99.999 % (DOP) Clase 10			
Fans		Centrifugal high efficiency with speed control			
Supply		230 V - 50 Hz single ph (other upon requirement)			

Available Options and Accessories

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



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ISO 9001 certified