

# Vertical laminar flow benches

Laboratory Equipment Division



*advanced technologies, effective solutions*



V 100

V 30/70

## Applications

# V-100 and V-30/70 Series

Vertical Laminar Flow Benches, specially designed for handling of non-pathogenic biological samples, cell and tissue cultures, controls in microbiology, pharmaceutical products preparation, etc., also suitable for work with Electronics and Optics.

Telstar offers two series of Vertical Laminar Flow Benches: Series V-100 and Series V-30/70.

Series V-100, 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 ultrafiltered air flow, thus assuring full product protection.

Series V-30/70, with 2 HEPA filters, 70% down flow and 30% exhaust, provides underpressure conditions in the working area, therefore giving a good protection level to the operator and environment.

All models are supplied with working area CLASS 10 as defined by U.S. Fed. Std. 209 a B.S. 5295.



## General

# features



- Cabinets made of stove-enamel coated steel. Its modern and accurate design makes possible to change the filters from inside the cabinet, having reduced external dimensions with suitable working area.

- Polished stainless steel working surface divided in three parts easily removable for sterilizing. Removable side walls and front window with gas springs, both made of U.V. resistant tempered glass.

- Materials and construction according to International Standards, with high quality components and easy service.

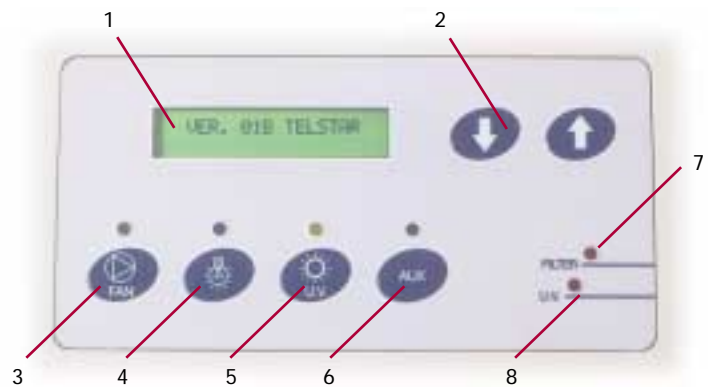
# Control

# system

-Digital control board with LCD display including:

- Selection of air speed : working or stand-by.
- Button for U.V. irradiation with possibility of exposure time programming.
- Indicative LEDs inform of the situation of different elements: air speed, lighting, U.V. clogging of filter (optional).
- Alarm LED.
- Air speed adjustment.
- Elapsed time counter for the fan and U.V light.

1. Digital display
2. Function selectors and programming
3. Laminar flow
4. Light
5. U.V. light (optional)
6. Spare
7. Alarm for filter clogging (option)
8. Alarm for U.V.



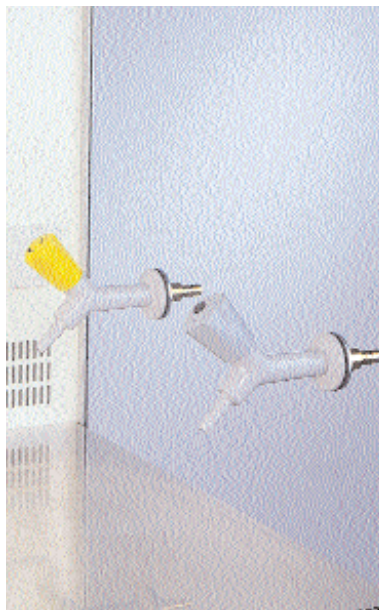
-ON/OFF selector.

-Electrical power socket inside of the cabinet.

-Quality Control Certification for every equipment with test results according to International Standards.



Working table in stainless steel. Easy to clean



Gas, vacuum or nitrogen stopcocks (optional)



Front door in tempered glass 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 <sup>3</sup> /h - m/s	600 - 0.40	1000 - 0.40	1300 - 0.40	1600 - 0.40
Power / Weight	kW / kg	1.1 / 100	1.7 / 140	1.5 / 160	1.5 / 190
Lighting	lux	> 800 lux			
Noise level	dB (A)	< 60			
Filters	HEPA/ULPA H14	Efficiency: > 99.999 % (DOP) Class 10			
Fans		Centrifugal high efficiency with speed regulation			
Supply		220 V - 50 Hz single ph (other upon requirement)			

V-30/70 SERIES	UNIT.	PV-30/70	AV-30/70	BV-30/70	CV-30/70
External dimensions	WxDxH(mm)	802x845x1290	1260x845x1445	1565x845x1445	1870x845x1445
Internal dimensions	WxDxH(mm)	772x670x700	1230x670x700	1535x670x700	1840x670x700
Flow/ Air speed	m <sup>3</sup> /h - m/s	900 - 0.40	1400 - 0.40	1600 - 0.40	2100 - 0.40
Power / Weight	kW / kg	0.5 - 100	0.6 - 150	1.0 - 170	1.0 - 205
Lighting	lux	> 800 lux			
Noise level	dB (A)	< 60			
Filters	HEPA/ULPA H14	Efficiency: > 99.999 % (DOP) Class 10			
Fans		Centrifugal high efficiency with speed regulation			
Supply		220 V - 50 Hz single ph (other upon requirement)			

# available options

- Support table.
- U.V. light kit.
- Gas / vacuum / nitrogen stopcocks.
- Filter clogging alarm.
- Exhausted box with activated charcoal filters.
- Gas burner with foot pedal and flame monitor.



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