

# Vertical laminar flow benches

Laboratory Equipment Division



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 product, to the operator as well as 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.

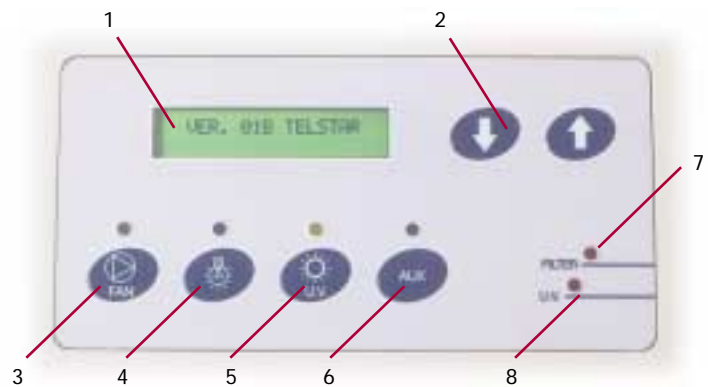
# Control

# 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.



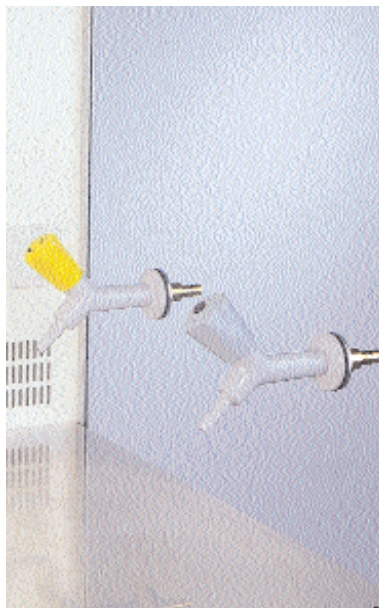
-ON/OFF selector.

-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                 | 0.5 / 100   | 0.6 / 140     | 1.0 / 160     | 1.0 / 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                 | 1.1 - 100   | 1.7 - 150     | 1.5 - 170     | 1.5 - 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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