

TECHNICAL ENGINEERING SPECIFICATION

■ Introduction

A self-contained, compact, vertical or horizontal unidirectional flow module. The Envirco VLF 797/HLF 797 is an economical, multipurpose, unidirectional flow module that is completely self-contained. It provides an ISO Class 5 (Class 100) environment within the work area that complies with the latest IEST Recommended Practices. Assembly required.

Horizontal or Vertical Airflow

Using an existing work surface, the unique design of the VLF 797/HLF 797 enables quick and easy assembly to either a horizontal or vertical laminar airflow configuration. The positive pressure laminar airflow provides product protection only. Air from within the cabinet is returned to the room through the front access opening.

■ Standard Features

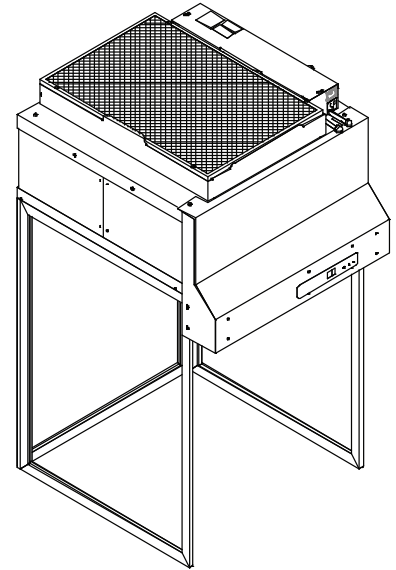
- » An ISO Class 5* environment utilizing an aerosol challenged high efficiency particulate air (HEPA) filter.
- » Easy conversion to either horizontal or vertical configurations.
- » Easy to clean touchpad controller, controls motor speed, two each fluorescent lights, and optional UV light.
- » Extruded aluminum enclosure and mil finish Fan Filter Unit (MAC 10).
- » Formed aluminum front panel with corrosion resistant polyurethane enamel finish.
- » Polycarbonate enclosed workspace on three sides.
- » Powder coated steel diffuser screen to protect the HEPA filter and maintain uniform airflow velocity work area.
- » Quiet operation (55 dBA \pm 3 measured 30 in. (762 mm)) from the front of the cabinet.

■ Options

- » Shroud to cover MAC 10 unit.
- » An optional UV light is available for surface decontamination. An over-sized polycarbonate front panel is utilized to prevent accidental exposure on UV light to personnel. The HLF configuration does not support the UV option.

■ Warranty

- » Limited 1-year warranty.



VLF 797 2ft. Unidirectional Flow Clean Bench
* (Easy Assembly Required)

■ Applications

- » Critical Sample Preparation
- » Hyperatlinetation
- » I.V. Admixtures
- » Media Preparation
- » Microscopy Analysis
- » Pharmaceutical Compounding
- » Tissue Culture
- » Microelectronic Assembly
- » Optical Assembly
- » Sterility Testing
- » Syringe Filling

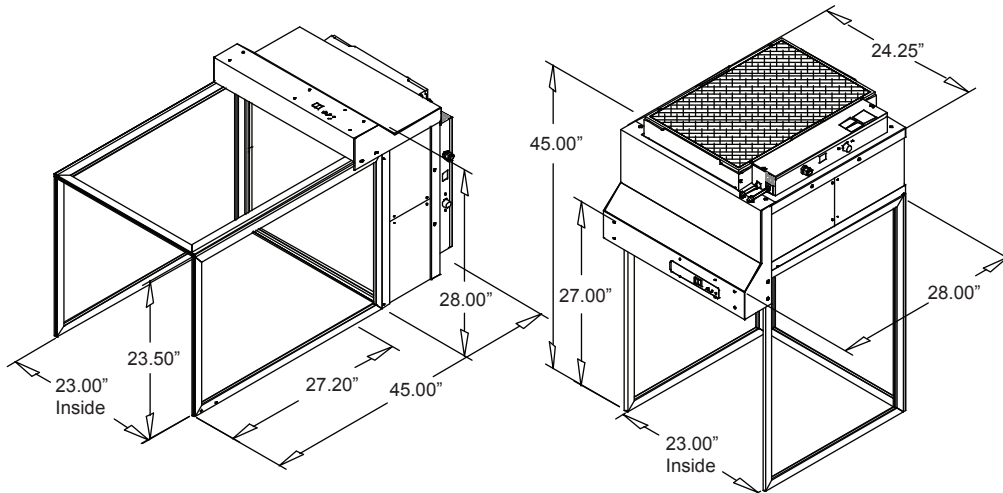
VLF 797 & HLF 797 - 2ft.

Unidirectional Flow Clean Bench



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■ Dimensional Information



BTU / Hr	1350
350 CFM @ 160 FPM (m³/hr @ 0.45 m/s)	250 watts
Power Requirements Amps @ 115 V / 60 Hz	4.0
Ship Weight, lbs. (kilograms)	150 (80)

■ Specification

Construction

Aluminum cabinet with front panel finished in corrosion resistant polyurethane enamel.

Filters

Aluminum framed High Efficiency Particulate Air (HEPA) type, with a minimum efficiency of 99.99% at 0.3 micron, aerosol challenged.

Prefilters

Washable type, polyurethane foam – 30% ASHRAE.

Airflow

90 feet per minute \pm 10 FPM (0.45 meters per second) average velocity measured 6 inches (152.4mm) from the diffuser screen. Uniformity \pm 20 % of average or better.

Motor/Blower Assembly

Direct drive, continuous duty 1/5 Hp motor, with sealed-for-life bearing and overload protection. Motor/blower assembly is electronically balanced (dynamically) and mounted on vibration dampening rubber grommets.

Speed Controller

Solid-state speed control for adjusting airflow velocity utilizing an easy to clean, membrane touchpad controller.

Electrical

Standard 15 Amp, 115V, single phase, 60 Hz, power cord with 3-prong grounded plug. Separate ON/OFF switch on the top/back of the unit in addition to the touch pad controller. Fluorescent lighting fixture provides 45 ft. candles at the work surface.

Ultra-Violet Light Option

An optional UV light is available for surface decontamination. An over-sized polycarbonate front panel is utilized to prevent accidental exposure on UV light to personnel. The HLF configuration does not support the UV option.

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