

PRODUCT DATA SHEET

■ Introduction

The ENVIRCO LF Horizontal Flow Clean Bench is a freestanding horizontal unidirectional flow unit with a unique design concept. It consists of separate plenum and table modules that virtually isolates all vibration transmission from the filter/blower console to the work surface. It provides an ISO Class 5* (Class 100) environment within the work area that complies with the latest IEST Recommended Practices.

Horizontal Unidirectional Airflow

The positive pressure unidirectional airflow provides product or sample protection within the work area, which is defined by the removable clear acrylic side panels and built-in plastic laminated work surface.

■ Standard Features

- » Four standard sizes with 24 inch deep work areas. Custom sizes available.
- » An ISO Class 5* environment utilizing an aerosol challenged HEPA filter.
- » A welded metal cabinet with a corrosion resistant, polyurethane enamel finish.
- » Two-piece construction allows easy passage through a standard doorway.
- » Quiet operation (65 dBA \pm 3 measured 30 inches from the filter face).
- » Perforated anodized aluminum diffuser screen protects the HEPA filter while maintaining uniform air velocity within the work area.
- » Non-glare plastic laminated work surface for easy cleaning.
- » Built-in fluorescent lighting provides 150 foot candles at the work surface.
- » Clear, removable acrylic side panels.
- » Duplex electrical outlet, 115V, 15 amp on the front leg for easy access.
- » Solid state speed control with RFI suppression.

■ Options

- » Lab Service (work deck installed), Part No. 10231.
- » Magnehelic Pressure Differential Gauge, Part No. 10693.
- » Stainless Steel I.V. Rod, Part No. 10595 (4 ft), 10596 (5 ft), 10597 (6 ft), 10598 (8 ft).
- » UV Light Fixture, Part No. 10599 (4 ft), 10600 (5 ft), 10601 (6 ft), 10602 (8 ft).
- » Stainless Steel Work Surface, Part No. 10585 (4 ft), 10586 (5 ft), 10587 (6 ft), 10588 (8 ft).
- » Stainless Steel Side Panels (Qty 2), Part No. 830657

■ Warranty

- » Limited 1-year warranty.

NOTE: Positive pressure unidirectional airflow units provide product protection only. They do not protect personnel or the environment from particulates or aerosols generated from within the work area.



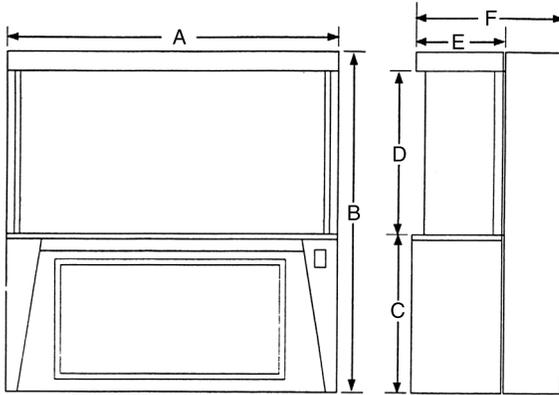
LF Horizontal Flow Clean Bench

■ Applications

- » Tissue Culture.
- » Sterility Testing.
- » Pharmaceutical Preparation.
- » Critical Sample Preparation.
- » Microscopy Analysis.
- » Analytical Balances.
- » Quality Control Inspection Station
- » Optical Assembly.
- » Microelectronic Fabrication and Assembly.

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■ Dimensional Information



Part No.	LF430	LF530	LF630	LF830	
Part No.	10552	10553	10554	10555	
Dimension Inches (mm)	A	51 (1295.4)	63 (1600.2)	75 (1905)	102 (2590.8)
	B	65 (1651)	65 (1651)	65 (1651)	65 (1651)
	C	30 (762)	30 (762)	30 (762)	30 (762)
	D	30 (762)	30 (762)	30 (762)	30 (762)
	E	24 (609.6)	24 (609.6)	24 (609.6)	24 (609.6)
	F	44 (1117.6)	44 (1117.6)	44 (1117.6)	44 (1117.6)
No. of Blowers	1	1	1	2	
BTU / Hr	3000	3000	3230	5950	
Avg. CFM @ 90 FPM (m ³ /hr @ 0.45 m/s)	900 (1529)	1125 (1911)	1350 (2294)	1800 (3058)	
Power Requirements Amps @ 115 V / 60 Hz	9.2	9.2	9.2	15.7	
Ship Weight, lbs. (kilograms)	590 (267.6)	600 (272.2)	760 (344.7)	1050 (476.3)	

■ Specification

Construction

Welded metal cabinet with exterior finished in corrosion resistant polyurethane enamel.

- » Non-glare plastic laminated work surface.
- » 1/4 inch clear acrylic side panels.
- » Adjustable leveling feet on work bench.

Filters

Aluminum Framed High Efficiency Particulate Air (HEPA) type, with a minimum efficiency of 99.99% @ 0.3 micron, aerosol challenged (zero probed).

Prefilters

Washable type, polyurethane foam - 30% ASHRAE.

Airflow

90 feet per minute ±10 FPM average velocity, 6 inches from diffuser screen. Uniformity ±20% of average or better.

Motor/Blower Assembly

Direct drive, continuous duty 1/2 Hp with sealed-for-life bearings and inherent overload protection. Motor/blower assembly is electronically (dynamically) balanced and mounted on vibration dampening rubber mounts. Motor/blower assembly is designed to provide rated airflow through a 50% increase in initial static pressure.

Speed Controller

Solid state speed control (with RFI suppression) for adjusting airflow velocity.

Electrical

Standard 15-20 amp, 115V, single phase, 60 Hz, rubber overed cord with 3-prong grounded plug. Recessed fluorescent lighting fixture provides 150 foot candles at the work surface. Separate blower and light switches. 220V, 50-60 Hz unit available with transformer.