

LAMINAR FLOW HOODS, BUILT TO SUIT YOUR NEEDS, HORIZONTAL OR VERTICAL



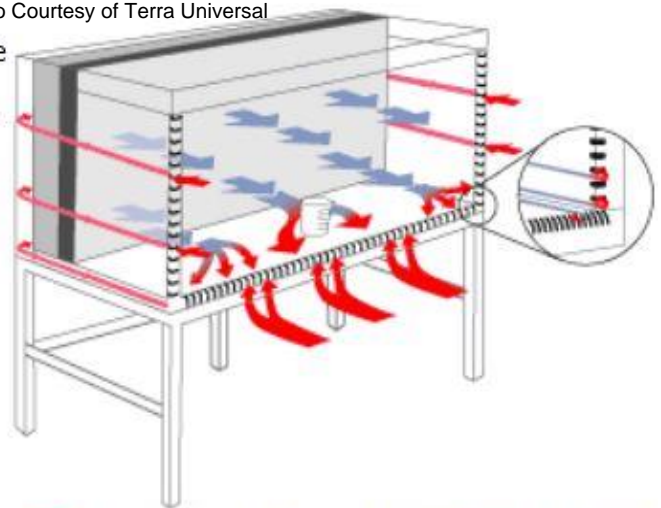
Photo Courtesy of Terra Universal



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Powerful low-energy filter/blower fan/filter modules provide a back-to-front laminar flow of filtered air across the work surface. The adjustable variable-speed, direct-drive blower lets you adjust air speed to meet your requirements. It also provides an industry-best low noise level of 40 dBA.

All models provide plenty of working space, with 28" (711 mm) of vertical clearance above the work surface, and a powder-coated steel stand with adjustable leveling feet that raises the work surface to 31" (787 mm) above the floor. Low-energy electrically-commutated (EC) fan/filter units (one or more included) provide quiet operation and comply with energy-efficiency standards such as California's Title 24 and the European Union's ErP 2015 Directive. Their brushless DC motors have internal micro-processors to enable remote monitoring and control (such as off-hour energy-saving mode). ECM FFUs produce lower heat, vibration (0.0004 G) and decibel levels than mechanical AC motors. Their HEPA filter is rated 99.99%



→ Contaminated Air
→ Filtered Air

Take-up air slots and plenums on three sides of the work area ensure laminar flow.

- Stainless steel interior (side panels and work surface) ensure optimal cleanliness and chemical resistance for sensitive work in pharmaceuticals, biotechnology, and electronics
- Multi-speed filter/blower modules provide a continuous wash of HEPA-filtered air; internal baffling plates and anodized aluminum diffuser panel ensure uniform air speed across the work area
- Take-up ducts along front and side edges minimize turbulence and backwash in the work area
- Provides average air flow speed of 109 FPM (0.55 m/s) measured with 2'x4' HEPA FFU
- Quiet operation of 40 dBA, measured at 12" (305 mm) from filter face
- Built-in recessed illuminator provides diffused lighting without interfering with laminar flow
- Electropolishing available to remove embedded subsurface particles in stainless steel surfaces
- System options include undercounter storage cabinet and vacuum, gas and DI water petcocks

Clean, Durable Construction

All materials used in this work station are selected for durability and contamination control. Interior surfaces, including the side panels and work surface, are 304 stainless steel; on an optional basis, these components can be electropolished to provide an ultra-clean finish free of subsurface contaminants. The exterior features a chip-resistant, powder-coated finish. The display panel, including the ON/OFF switch, Minihelic® backpressure gauge, and blower speed control, is mounted above the work area. For operational convenience, a duplex 115VAC/60Hz power outlet is included on a standard basis.

The Horizontal Laminar Flow Station also includes a recessed fluorescent lighting assembly that provides shadow-free illumination of the entire work area without disturbing the air flow.

Note: This work station is designed for particle-sensitive applications but does not protect operators against hazardous fumes, vapors or aerosols. See Terra's exhaust purification systems for operations involving hazardous fumes.

Specifications	
Construction:	Fabricated from welded 16-gauge C.R. steel; includes adjustable levelers
Work Surface:	304 Stainless steel
Finish:	Exterior surfaces feature a chip-resistant, powder-coat finish
Prefilters:	Disposable fiberglass
Final Filters:	HEPA (rated 99.99% efficient @ 0.3 µm particles)
Lighting:	Fluorescent type. Recessed to eliminate air flow disturbance. Accepts lens for yellow light, if necessary
Fan/Motor :	Brushless, 1/3-HP, electrically-commutated motor; centrifugal type with backward-inclined fans and sealed bearings; rated for continuous duty; furnished with overload protection
Average Airflow Velocity:	109 (± 10) FPM (0.55 m/s) at medium speed, measured 12" (305 mm) from filter face
FFU Air flow:	767 CFM (2'x4' model) - all models rated at 109 FPM (0.55 m/s) at medium setting under HEPA filter load
Sound level:	40 dBA, measured no more than 12"(305 mm) from filter face @ 109 FPM (0.55 m/s)
Performance:	Dust count exceeds Class 10 requirements (per Fed-Std 209E)
Backpressure Gauge:	Minihelic®; gauge, 0 – 3" Water Column monitors backpressure across filter
Electrical:	115VAC, 50/60Hz, single phase (220VAC, 50/60Hz available). Consumes 280W/2.4A at the avg air speed. Meets the requirements of the National Electrical Code and applicable local codes. All components UL listed and CE marked
Options:	Audible/visible filter alarm system (measures face velocity); ionizing system (including self-balancing power supply); petcocks for vacuum, DI water, or gas; electropolished stainless steel surfaces; special paint; special voltage and frequency
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