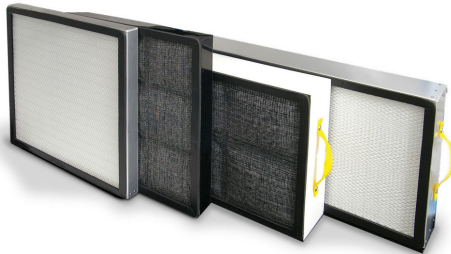


# General Purpose Laminar Flow Cabinets

Horizontal and Vertical



## Provides Reliable Protection for Samples and Work Processes for Numerous Applications.

The configuration of laminar flow systems is crucial for maintaining sterility and cleanliness in various industries. Horizontal laminar flow systems push air across the work surface, sweeping particles away, ideal for product protection but can create turbulence. Vertical laminar flow systems direct air downward, minimizing contamination from operators and suitable for critical environments like pharmaceutical production. Both systems are essential for cleanroom standards, with the choice depending on specific operational needs and the nature of the work.

### Design Features

Laminar Flow cabinets feature a control panel with On/Off switches for the fan and lighting, GFCI outlets, a Minihelic ULPA pressure gauge, and a UV lamp key switch. The main Camfil Farr ULPA filter has 99.999% efficiency for 0.1 to 0.3  $\mu\text{m}$  particles, complemented by an 85% arrestance pre-filter. An external rotor blower ensures efficient airflow, while a compact LED lamp provides lighting without disturbing flow. Optional features include a UV lamp, IV bar with "S" hooks, and a night door for interior protection and UV containment. The ergonomic design has an angled front, stainless steel work surface, and recessed fan speed control.

### Additional Features

**Visibility:** Side windows allow ambient light into the chamber and provide users with three points of visibility for an unobstructed view of contents. (Not available on stainless steel models.)

## Specifications

Model   Nominal Width	External (W × D × H)
VLF / HLF-24   24" / 610 mm	641 × 749 × 1091 mm
VLF / HLF-36   36" / 914 mm	946 × 749 × 1091 mm
VLF / HLF-48   48" / 1219 mm	1251 × 749 × 1091 mm
VLF / HLF-60   60" / 1524 mm	1556 × 749 × 1091 mm
VLF / HLF-72   72" / 1829 mm	1861 × 749 × 1091 mm
VLF / HLF-96   96" / 2438 mm	2502 × 749 × 1091 mm

## Performance

Multiplex ULPA Filtration ensures high-performance protection with an evenly sealing main filter gasket to prevent bypass air leakage. The pour-in-place silicone gasket surpasses traditional stick-on "dove-tail" gasketing. The air handling system provides a flow velocity of 0.4 m/s (80 fpm). Purair VLF and HLF cabinets feature an ULPA filter pressure gauge for monitoring filter performance.

## Design

Laminar Flow cabinets utilize external rotor blowers for energy efficiency, reducing operating costs and minimizing noise and vibration. Designed for desktop use or installation on an optional mobile base stand, the vertical flow cabinets have a perforated rear wall to reduce work surface turbulence by channelling some airflow to the rear.

## Reliability

Each cabinet undergoes factory testing for safety and performance per international standards. Purair Laminar Flow cabinets are shipped fully assembled and ready to use—no installation required, just plug in and operate.