Horizontal & Vertical Laminar Flow

GENAXY®

LAMINAR AIR FLOW CABINETS

ENSURE SAFETY

GLamiSafe Series

CONTACT US

www.genaxy.com

Horizontal or Vertical Laminar Flow:

Whichisbest foryour application?

The horizontal flow of the horizontal cabinet creates less turbulence at the work surface as the airflow does not impinge upon it, but is drawn smoothly across. Vertical flow cabinets such as the vertical cabinet are more easily customized and are manufactured with rear wall perforations to reduce turbulence by removing small amounts of air at the rear of the cabinet.

What is laminar flow?

Laminar flow hoods are designed to create a particle-free working surface by bringing air through a high efficiency filtration system and exhausting it across the work surface in a unidirectional airstream. Typically, laminar flow cabinets are enclosed on the sides and maintain constant air pressure to ensure contaminants do not make contact with the contents.

There are several different types of laminar flow cabinets, each designed for specific applications.

Where are laminar Cabinets used?

Laminar flow products are widely used across laboratory and industrial environments where contamination control is critical. Facilities performing complex operations or utilizing large scale equipment often employ clean room designed to maintain continuous laminar airflow, ensuring a consistently sterile environment.

Specialized applications such as tissue culture work, pharmaceutical manufacturing, and PCR assays rely on laminar flow hoods to safeguard sensitive processes from airborne contamination. Laminar flow solutions are engineered to meet the stringent sterility requirements of diverse industries and applications.

Choose According to the Industries

The GENAXY GLamiSafeSeriesprovidesexcellentprotection for equipment and materials inside the cabinet by preventing particulate contamination. These cabinets are specifically designed for pharmaceutical compounding and preparation of non-hazardous agents.

The GLamiSafe Series supports a wide range of applications, including the preparation of injectables, pastes, ointments, and irrigating solutions, all safeguarded by HEPA-filtered air flowing uniformly across the work surface.

The GLamiSafe Vertical Laminar Flow Cabinets deliver downward (vertical) airflow, while the GLamiSafe Horizontal Laminar Flow Cabinets provide horizontal airflow and are

offered in both standard andextra-tallconfigurations.

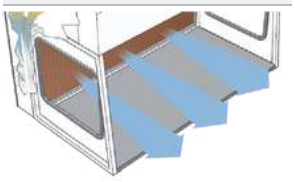
GLamiSafe cabinets are available in 2, 3, 4, 5, and 6 Ft., catering to general laboratory and cleanroom applications. A variety of optional features are available to customize the cabinets for specialized operational requirements.

Horizontal or Vertical Flow

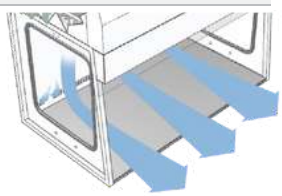
Horizontallaminarflow cabinets offer auniform, unidirectional airflow without internal surfaces that significantly deflect the airstream. In vertical laminar flow cabinets, the airflow pattern of the hood may introduce a slight degree of inherent turbulence. Nevertheless, equipment positioned inside the cabinet has minimal impact on the overall airflow, allowing better maintenance of laminar conditions across the work area.

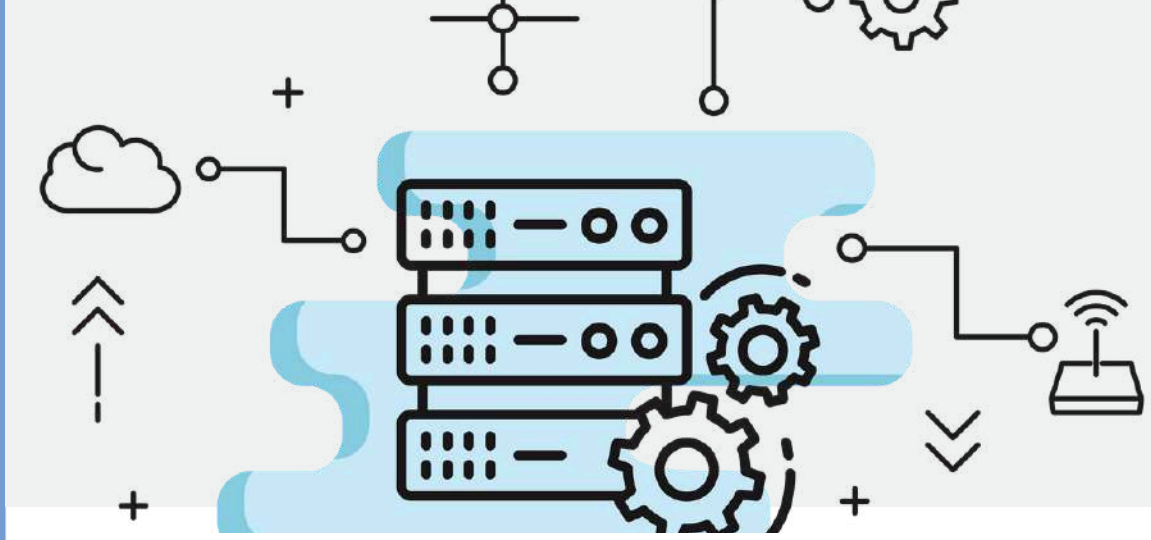
The selection between horizontal and vertical laminar flow cabinets is primarily driven by user preference, as both configurations provide effective particulate protection.

Horizontal Flow



Vertical Flow





The GENAXY Advantage

GENAXY laminar flow cabinets are built to Indian standards and help laboratories PAN INDIA to minimize contamination in a variety of applications.

Customization is Available for any application

We understandsthat your needsareunique, and we can provide you find the laminar hood configuration that is best for you.We make custom hoods for specific customer requirements and applications.

CONTACT US TODAY TO REVIEW YOUR CUSTOMIZED REQUEST.

Technical Features

Airflow & Filtration

Airflow Pattern: Vertical/Horizontal laminar flow
Pre-Filter Efficiency: 99% down to 5 microns
HEPA Filter Efficiency: 99.97% – 99.99% down to 0.3 microns
HEPA Protection: Mesh guard provided for filter safety
Work Zone Classification: ISO 14644 Class 5 (Class 100) Performance Air Velocity: 0.35 – 0.50 m/sec Noise Level: 60 dB ± 5%

Performance

AirVelocity: 0.35 – 0.50 m/sec
Noise Level: 60 dB ± 5%

Construction

Work Table: Perforated stainless steel (SS 304) with gas cock provision
Cabinet Body: Stainless steel 304 /MS
Front Door: Acrylic/Toughened Glass (Foldable/Motorized)
Side Panels: SS 304/MS/Acrylic

Electrical & Controls

Switches: Blower,fluorescent light, and UV light controls
Illumination:20W/40Wfluorescent lamp with diffuser
UV Lamp: 15W/30W(depending on size)
Pressure Monitoring: Manometer (0–50 mm range)
Power Supply: 230V±10V, 50Hz, single-phase AC

Blower System

Motor: 0.25 HPdynamically balanced motor
Speed: 1440 RPM
Mounting: Anti-vibration pads for quiet operation

Safety Features

VoltageFluctuationprotection,microswitchesfor UV & LED lights.
Mobility: Front wheels fitted with brakes for stability

Compliance & Quality

- High-quality componentsfor long service life
- Engineered for safety, reliability, and ease of maintenance

Standard Accessories

- HEPAand pre-filter system UV and
- fluorescent lighting Manometer for
- pressure indication Stainless steel
- perforated work table Castor-
- mounted stand with brakes

Ordering Information

Vertical Models	Dimensions	Construction
GLamiSafe-V1	60 x 60 x 60mm	SS Table,Outer MS
GLamiSafe-V2	90 x 60 x 60mm	SS Table,Outer MS
GLamiSafe-V3	120 x 60 x 60mm	SS Table,Outer MS
GLamiSafe-V4	150 x 60 x 60mm	SS Table,Outer MS
GLamiSafe-V5	180 x 60 x 60mm	Complete SS 304
GLamiSafe-VS1	60 x 60 x 60mm	Complete SS 304
GLamiSafe-VS2	90 x 60 x 60mm	Complete SS 304
GLamiSafe-VS3	120 x 60 x 60mm	Complete SS 304
GLamiSafe-VS4	150 x 60 x 60mm	Complete SS 304
GLamiSafe-VS5	180 x 60 x 60mm	

Horizontal Models	Dimensions	Construction
GLamiSafe-H1	60 x 60 x 60mm	SS work bench SS work bench
GLamiSafe-H2	90 x 60 x 60mm	SS work bench
GLamiSafe-H3	120 x 60 x 60mm	SS work bench
GLamiSafe-H4	150 x 60 x 60mm	SS work bench
GLamiSafe-H5	180 x 60 x 60mm	Complete SS 304
GLamiSafe-HS1	60 x 60 x 60mm	Complete SS 304
GLamiSafe-HS2	90 x 60 x 60mm	Complete SS 304
GLamiSafe-HS3	120 x 60 x 60mm	Complete SS 304
GLamiSafe-HS4	150 x 60 x 60mm	Complete SS 304
GLamiSafe-HS5	180 x 60 x 60mm	

GENAXY®
Customer Satisfaction Through Business Ethics
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