



CLEAN AIR / VERTICAL LAMINAR FLOW

VERTICAL LAMINAR AIR FLOW CABINET

HEPA-filtered clean air for non-hazardous processes.

A proposed 4-foot vertical laminar air flow cabinet providing HEPA-filtered unidirectional clean air for contamination-sensitive, non-hazardous laboratory processes.



WORKING WIDTH

Approx. 4 ft

MAIN FILTER

H14 HEPA

AIR VELOCITY

Approx. 0.45 m/s

PROPOSED MODEL

ALC-LAF4V

CATALOGUE NUMBER

ALC-CA-LAF-4V

PROPOSED SPECIFICATION SET

Final values, accessories, warranty and compliance require approval against the selected OEM datasheet.



PRODUCT OVERVIEW

HEPA-filtered clean air for non-hazardous processes.

The ALC-LAF4V is designed to protect samples and processes from airborne particulate contamination using vertical, HEPA-filtered airflow. A cleanable work zone, lighting, pre-filter and optional monitoring functions support media preparation, tissue culture and sterile assembly. It is not a biological safety cabinet.



WORKING WIDTH

Approx. 4 ft

MAIN FILTER

H14 HEPA

AIR VELOCITY

Approx. 0.45 m/s

Key Features

- Vertical laminar airflow
- H14 HEPA filtration
- ISO Class 5 reference work zone, subject to validation
- Stainless-steel work surface
- Washable or replaceable pre-filter
- LED work-area lighting
- UV germicidal lamp with timer/interlock preferred
- Electrical sockets and optional stand/castors

Working Principle

Room air is drawn through a pre-filter and then through the HEPA filter. Cleaned air moves downward in a controlled unidirectional flow across the work surface, reducing particulate contamination of non-hazardous materials and processes.

TYPICAL APPLICATIONS

Media preparation / Plant tissue culture / Non-hazardous microbiological support / Sterile assembly / Sample preparation / Medical-device and electronics assembly



PROPOSED TECHNICAL DATA

Model-specific values require OEM confirmation.

PARAMETER	PROPOSED SPECIFICATION
Nominal working width	4 feet / approximately 1.2 metres
Airflow orientation	Vertical
Work-zone cleanliness	ISO Class 5 reference; site validation required
Main filter	H14 HEPA
Reference efficiency	99.995% at MPPS
Average airflow velocity	Approximately 0.45 m/sec
Pre-filter	Washable or replaceable
Work surface	SS 304 stainless steel preferred
Internal chamber	Stainless or cleanable coated material
External body	Powder-coated mild steel
Side panels	Tempered safety glass
Lighting	LED
UV lamp	Included; timer/interlock preferred
Utility sockets	Two or more
Noise level	Preferably below 60 dB(A)
Blower	Energy-efficient centrifugal/EC blower
Controller	Digital or microprocessor-based
Stand	Optional or quotation-dependent
Power supply	220-240 V AC, 50 Hz

STANDARD SUPPLY

- Laminar-air-flow cabinet
- HEPA filter and pre-filter
- LED light and UV lamp
- Electrical sockets
- Power cable
- Operation manual

OPTIONAL / MODEL-DEPENDENT

- Floor stand and castors
- Gas or vacuum tap
- Differential-pressure gauge
- Digital airflow monitor
- UV timer
- IQ/OQ and on-site validation

TO BE CONFIRMED

- Internal and external dimensions
- Airflow and noise test data
- Stand inclusion and electrical rating
- Warranty and validation documents



LABORATORY APPLICATIONS

A practical platform for professional laboratory workflows.

Applications

- Media preparation
- Plant tissue culture
- Non-hazardous microbiological support
- Sterile assembly
- Sample preparation
- Medical-device and electronics assembly

Product Advantages

- Product and process protection
- Vertical filtered-air work zone
- Cleanable work surface
- Configurable monitoring and utilities
- OEM cabinet and documentation options

SAFETY DISTINCTION

This cabinet provides product and process protection only. Do not use it for pathogenic microorganisms, hazardous aerosols, cytotoxic materials or applications requiring personnel or environmental protection.

INDUSTRIES SERVED

Research laboratories / Plant tissue-culture laboratories / Pharmaceutical support processes / Electronics and medical-device assembly

SCAN TO VIEW PRODUCT



Request a model-specific quotation.

Share your application, required capacity or range, quantity, installation city and documentation needs. Final performance values and accessories are issued with the approved datasheet and quotation.

ALC-SCIENTIFIC LABORATORY SYSTEMS

OEM / PRIVATE LABEL AVAILABLE

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Product images are for reference and may vary by configuration. Specifications, dimensions, accessories and designs are subject to change. Final specifications are those in the approved technical datasheet and commercial quotation. Standard warranty: To be confirmed according to the selected product and approved commercial quotation.