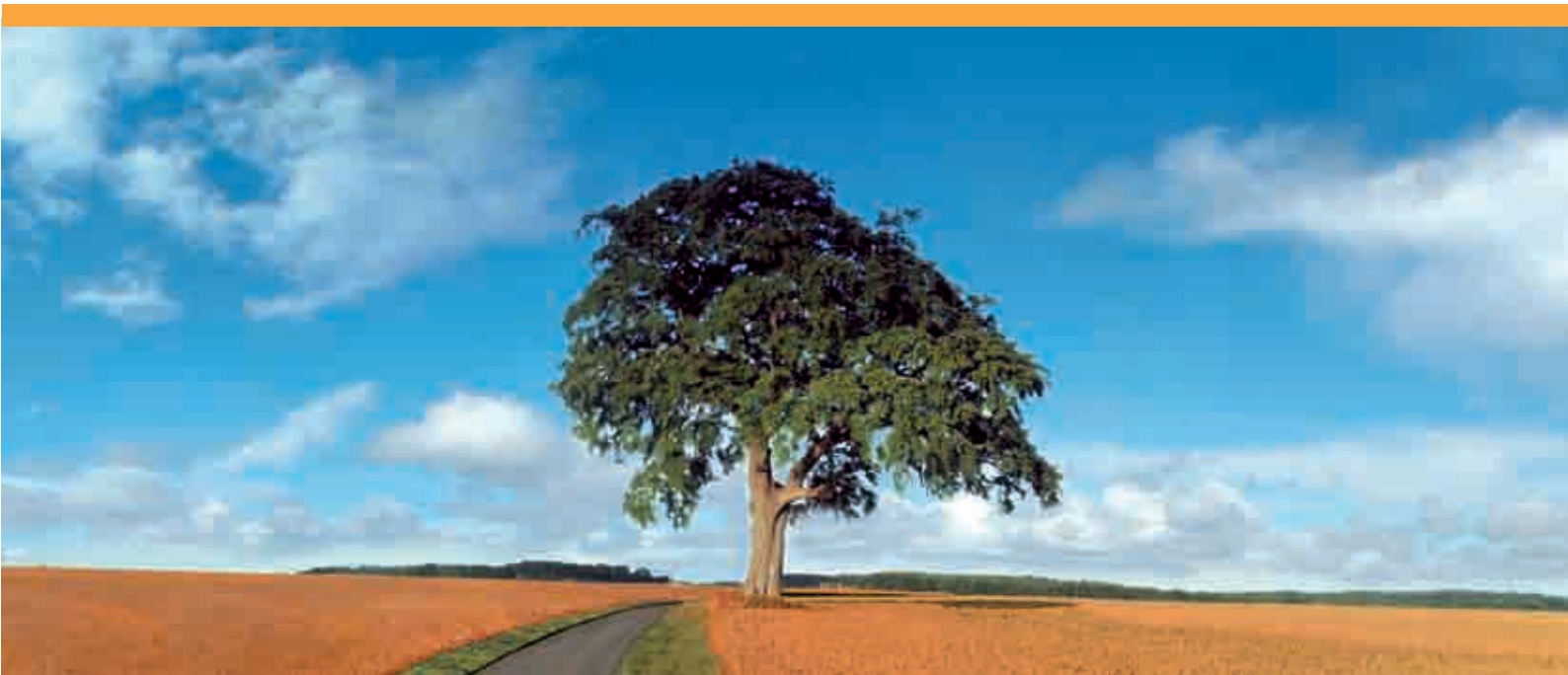




HLAF and VLAF Series laminar flow cabinets

Product protection for laboratory and production applications



Compliance, protection and reliability

Gelaire HLAF and VLAF cabinets

APPLICATIONS

Gelaire HLAF horizontal flow and VLAF vertical flow cabinets provide an economical means of achieving a sterile and particle-free work environment in a wide range of laboratory and production applications.

DESCRIPTION

Cabinets are self-contained laminar flow workstations designed to provide protection for process products and apparatus. These cabinets are intended for work involving the handling of non-hazardous materials.

Air cleanliness in the work zone is ISO (14644) Class 3 (AS 1386 Class 0.035). Use of ULPA-grade filters, in place of HEPA, enables air cleanliness to be achieved two classifications cleaner than conventional cabinets with HEPA filters.

Separate switches control the fan, work zone power outlets, work zone lighting and the UV lamp. A manometer on the control panels monitors pressure in the fan/ filter system. An *AFM* version, with air velocity display and alarm; and keypad switches, is available to special order.

Horizontal flow cabinets have been the most common configuration used in these applications. However, in some work programmes, the size and number of process materials placed in the cabinet may indicate that vertical flow cabinets will provide enhanced air cleanliness.

Construction

- Electro-galvanised steel housing with corrosion and abrasion-resistant oven-baked anti-microbial powder-coat finish.
- 304 stainless steel work zone
- Latest European technology H14 ULPA minipleat filter
- *ebm-papst* fan from Germany
- *Powerform* fan speed controller



Compliance

HLAF and VLAF Series cabinets are designed and manufactured to comply fully with AS 1386, Part 5.

Standard specification

- Germicidal UV lamp with timer
- *Minihelic* gauge to monitor airflow
- Front cover/ UV shield with interlock
- Power outlet in work zone

Accessories and options

- Service taps on RHS or LHS
- IV hanging rail
- Console-style floor stand
- *Ergo-Lab* electric height-adjustable floor stand
- *AFM* (Air Flow Monitor) version
- On-site testing and certification by independent NATA testing laboratory

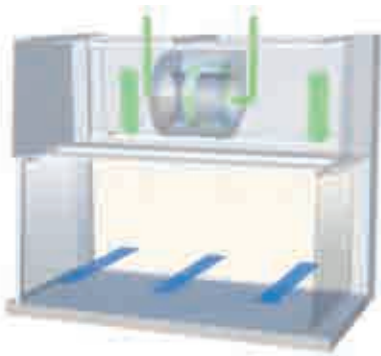
OPERATING PRINCIPLES

A direct-drive fan draws in ambient air through a prefilter on the top of the cabinet and supplies it to the work zone through an ULPA filter. The average air velocity in the work zone is maintained between 0.45 and 0.5 m/s, with all velocity readings within 20% of their average.

VLAF cabinets, with partial air recirculation through air-purge slots at the rear of the work zone, provide superior product protection to horizontal flow when large objects are placed in the work zone.

HLAF horizontal flow

- Depth allows installation through standard doors
- Open-fronted cabinet
- Germicidal UV, power outlet and front cover standard fitting



External Air → Sterile Air →



Model	Dimensions mm						Weight kg
	Overall			Work zone			
	W	H	D	W	H	D	
HLAF 1200	1340	1105	755	1260	570	545	154
HLAF 1800	1950	1175	755	1870	570	545	174

Model	Dimensions mm						Weight kg
	Overall			Work zone			
	W	H	D	W	H	D	
VLAF 1200	1340	1350	745	1250	645	660	133
VLAF 1800	1950	1350	755	1850	645	660	208

Limitations

These cabinets provide product protection and are intended for handling only non-hazardous materials. For applications involving infectious biological agents or cytotoxic drugs, Gelaire safety cabinets complying with relevant Australian standards should be considered.

Installations

A comprehensive Gelaire manual is available to assist with cabinet installations.

OTHER PRODUCTS

GELAIRE[®] Laminar flow

- *BH Series* Class II biological safety cabinets
- *CytoSafe* cytotoxic drug safety cabinets
- Animal cage-change cabinets
- Dust and powder-containment cabinets
- *VPCR* laminar flow cabinets for PCR
- *Ergo-Lab* height-adjustable electric stands

www.gelaire.com.au



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- *APC*[®] airborne particle counters

www3.biotest.de/ww/en/pub/diagnostic/hygienecontrol.cfm



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Bulletin No: 15-110
October 2007

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