



Laminar flow and safety cabinets for compounding pharmacists



Application-specific cabinets for protection of personnel or products

APPLICATIONS

Compounding or extemporaneous dispensing has continued to increase. Compounding applications may require personnel protection from potentially-hazardous aerosols and/or protection for sterile products. Gelaire cabinets, compliant with relevant Australian standards, meet these needs and are widely used throughout Australia by leading compounding organisations.

REGULATION

Facilities, equipment and practices should comply with relevant codes and industry guidelines. The National Coordinating Committee on Therapeutic Goods (NCCTG) has invited pharmacists to provide information to assist in NCCTG's proposals to update regulatory arrangements to cover extemporaneous compounding. Such regulation is likely to specify controlled-environment cabinets and rooms.



RHLAF900 cabinets

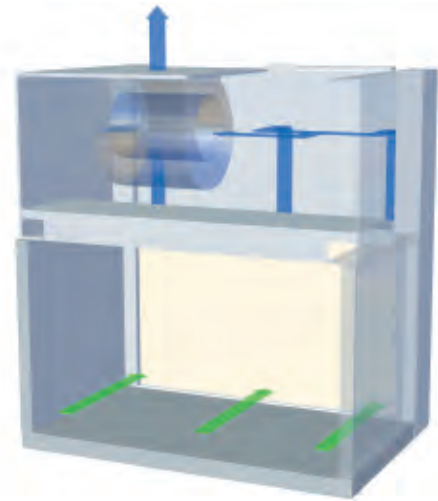
POWDER CONTAINMENT CABINETS

RHLAF900 powder containment cabinets provide a degree of protection for the operator and environment from powders generated by processes carried out in the work area. RHLAF cabinets have been installed by the majority of major Australian compounders.

Air is drawn from the room into the work zone at an average velocity of 0.5 – 0.55 m/s. The air travels across the work zone, sweeping airborne powder particles into the 2-stage filtration system located in the rear of the cabinet; comprising a 10µm prefilter and a 99.999% @ $\geq 0.3\mu\text{m}$ ULPA filter. The filtered air is returned to the room from the top of the cabinet.

Air velocity is displayed in the control panel LCD.

A direct-drive centrifugal blower and advanced fan and mounting design deliver low noise and vibration levels.



- Touch-pad microprocessor control panel with air velocity display
- *Sentinel* control system provides user-selectable options
- Low-glare, energy-efficient fluorescent lighting
- Exterior of the cabinet in abrasion and corrosion-resistant powder-coated finish with interior surfaces in 304 grade stainless steel
- Latest European-technology mini-pleat ULPA filter
- Clear polycarbonate front cover
- Splashproof GPO in work zone
- User-serviceable prefilter to protect ULPA filter

Dimensions (mm)						Base	
Overall			Work zone			W	D
W	H	D	W	H	D		
1035	1125	755	955	575	540	1035	715
Minimum recommended clearance above for exhaust airflow						250 mm	
Weight						115 kg	

Accessories and options

- Floor stand
- *Ergo-Lab* electric height-adjustable floor stand
- On-site testing and certification by an independent NATA testing laboratory

LAMINAR FLOW CABINETS

HLAF and VLAF Cabinets

Laminar flow cabinets provide an economical means of achieving a sterile and particle-free work environment. Cabinets are designed and manufactured to comply with AS 1386, Part 5. HLAF horizontal flow and VLAF vertical flow cabinets are available in widths of 1200 or 1800 mm.



HLAF 1200

A fan draws in air through a prefilter on the top of the cabinet and supplies it to the work zone through an ULPA filter to create an ultra-clean laminar flow zone. VLAF vertical flow cabinets provide enhanced product protection when large objects are placed in the work zone.

- Touch-pad control panel with air velocity display
- Low-glare, energy-efficient fluorescent lighting
- Exterior of the cabinet in abrasion-resistant finish with interior surfaces in 304 grade stainless steel
- European-technology minipleat ULPA filter
- Germicidal UV lamp with programmable timer
- Clear polycarbonate front cover/ UV shield
- Splashproof GPO in work zone

Model	Dimensions (mm)						Weight kg
	Overall			Work zone			
	W	H	D	W	H	D	
HLAF1200	1340	1105	797	1185	575	625	154
HLAF1800	1950	1175	804	1795	575	635	174
VLAF1200	1340	1250	770	1270	695	700	133
VLAF1800	1950	1250	770	1880	695	700	208

Accessories and options

- Service taps for gas or vacuum
- IV hanging rail
- Floor stand
- *Ergo-Lab* electric height-adjustable floor stand

More information

Please request HLAF & VLAF product bulletin

Smartfast Mini

The SmartFast Mini is a 600 mm-wide vertical laminar flow cabinet specifically designed to provide a convenient and compact environment for sterile compounding and dispensing. Cabinets weigh only 50 kg and may be easily moved to other locations without specialised lifting equipment.



SmartFast Mini

Air is drawn in through a prefilter on the top of the cabinet and supplied to the work zone through a HEPA filter to create an ultra-clean vertical laminar flow zone.

- Exterior of the cabinet in abrasion and corrosion-resistant finish
- 304 grade stainless steel work tray removable for autoclaving
- European-technology minipleat HEPA filter

Dimensions (mm)						Weight kg
Overall			Work zone			
W	H	D	W	H	D	
645	830	340	580	375	315	50

Accessories and options

- Germicidal UV lamp
- Splashproof GPO in work zone
- Service taps for gas or vacuum
- Floor stand

More information

Please request SmartFast Mini product bulletin

LIMITATIONS

Laminar flow 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.

CYTOTOXIC DRUG SAFETY CABINETS

Australian standards AS 2567 and AS 2639 define cytotoxic drug safety cabinets as the primary barrier against exposure to aerosols produced in the preparation, manipulation and dispensing of cytotoxic drugs. Many of these drugs were shown to be mutagens and some to be carcinogens in cell DNA and chromosomal studies.

CytoFast cabinets embody the latest European control and filtration technology, together with class-leading ergonomics and functionality. Cabinets are available in widths of 900 mm, 1200 mm and 1800 mm, all with top exhaust discharge. Cabinets comply fully with Australian standard AS 2567, DIN 12980 and the EU standard EN 12469.



Model	Overall dimensions mm			Work zone dimensions mm			Weight kg
	W	H	D	W	H	D	
209D	1045	2345	855	900	740	580	215
212D	1350	2345	855	1195	740	580	245
218D	1960	2345	855	1805	740	580	325
Work opening height				200 mm			AS 1807.22
and air barrier test method				250 mm			AS 1807.26

- Knee space of 300 mm for comfort of seated operators
- Electric sash window with touch control
- Dupont™ Alesta® antimicrobial cabinet finish

- 304 stainless steel (SS) work zone with 316 SS work tray for increased corrosion resistance
- H14 HEPA filters with protective hydrophobic membrane on work zone filter and high-capacity exhaust filter for increased life
- Eco® Control System optimises energy consumption
- Fans automatically maintain safe airflows
- Constant monitoring of all operating functions
- Real-time clock
- 'Standby' economy mode
- Activated carbon exhaust filter
- Splashproof GPO in work zone
- 'Blackout' reporting if power supply to cabinet fails while the user is absent

Accessories and options

- Isolator configuration with glove ports and transfer hatches
- Infusion rail in work zone
- Additional splashproof GPO in work zone
- Service taps for gas and vacuum
- *Magnehelic* gauge
- Germicidal UV lamp

Installations

In pharmacy applications, these cabinets should be installed in the special cleanroom specified in AS 2639, with HEPA filters on supply and exhaust air and a pressure regime for aerosol containment.

More information

Please request CytoFast product bulletin.

INDEPENDENT TESTING AND CERTIFICATION

Gelaire safety cabinets are tested and certified before delivery and on-site, prior to use by an independent NATA-registered testing laboratory. On-site testing for powder containment and laminar flow cabinets is optional.



- RH-LAF dust and powder-containment cabinets
- CytoFast cytotoxic drug safety cabinets
- Animal cage-change cabinets
- Ergo-Lab height-adjustable electric stands

- BH-EN and UltraSafe Class I and Class II biological safety cabinets
- Horizontal and vertical laminar flow cabinets
- VPCR laminar flow cabinets for PCR



Vilair-AAF is a specialised manufacturer and supplier of air filtration and contamination-control systems. Products include the *Airguard*® range of air filters, replacement filter media for all filter brands, laminar downflow dispensary and sampling booths, pass-through hatches and air showers.

- Cleanroom installations to ISO Class 3-Class 8
- Laminar flow enclosures and workstations
- Cleanroom ceiling and lighting systems
- Pass-through hatches
- Absorption filter systems for odour control
- Dispensary downflow booths
- HEPA & ULPA filters and cleanroom modules
- Clean garment cabinets
- Air showers
- Air filters for general ventilation and air conditioning



A Division of Vilair-AAF Pty Ltd ABN 88 094 594 022

2 Bonz Place Seven Hills NSW 2147

T: (02) 8811 3706 F: (02) 8811 3799 W: www.gelaire.com.au E: sales@gelaire.com.au

Brisbane 3216 2644 Melbourne 9853 6258 Perth 1300 272 023