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.

- 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 LS 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.

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. Gelare 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.

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% @ ≥ 0.3µm ULPA filter. The filtered air is returned to the room from the top of the cabinet.

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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 minipleat ULPA filter
- Clear polycarbonate front cover
- Splashproof GPO in work zone
- User-serviceable prefilter to protect ULPA filter

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.

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

**Dimensions (mm)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Overall</th>
<th>Work zone</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLAF 1200</td>
<td>1340</td>
<td>707</td>
<td>575</td>
</tr>
<tr>
<td>HLAF 1800</td>
<td>1800</td>
<td>1175</td>
<td>804</td>
</tr>
<tr>
<td>VLAF 1200</td>
<td>1250</td>
<td>740</td>
<td>1270</td>
</tr>
<tr>
<td>VLAF 1800</td>
<td>1650</td>
<td>1270</td>
<td>1660</td>
</tr>
</tbody>
</table>

**Accessories and options**

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

More information
Please request HLAF & VLAF 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, Gelare safety cabinets complying with relevant Australian standards should be considered.
RHLAF900 cabinets

**APPLICATIONS**

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- **Clear polycarbonate front cover**
- **Splashproof GPO in work zone**
- **User-serviceable prefilter to protect ULPA filter**

- **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**

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## Specifications

<table>
<thead>
<tr>
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<th>Work zone dimensions mm</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>209D</td>
<td>1045 x 2345 x 855</td>
<td>740 x 580</td>
<td>215</td>
</tr>
<tr>
<td>212D</td>
<td>1350 x 2345 x 855</td>
<td>740 x 580</td>
<td>245</td>
</tr>
<tr>
<td>218D</td>
<td>1960 x 2345 x 855</td>
<td>740 x 580</td>
<td>325</td>
</tr>
</tbody>
</table>

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- Electric sash window with touch control
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Gelaire Laminar Air Flow

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