

■ World leading innovation in enclosure design & technology

LA RANGE CUSTOM STRUCTURE & WALK-IN SYSTEMS

Laboratory Automation & Robotic System Enclosures & Rooms

For floor mounted systems



PICTURE LEFT: A multi-use enclosure comprising several compartments each performing to different levels of protection, to the design specification and Standards of enclosure types LAPP, LABS and LAC2.

ENCLOSURE FEATURES

- Great ergonomics with access to all sides of the enclosure.
- Excellent all-round visibility of the enclosed system.
- Easy touch, state-of-the-art control system - displays enclosure status and controls airflow system balance, hour counter.
- Display and/or lighting beacons mounted to enclosure exterior shows status of enclosed robotic system.
- Audible and visual alarm indication of low airflow.
- Door open warning.
- Ventilated waste management.

Bespoke and custom-manufactured systems.

Bigneat's design team is highly experienced and provides solutions for enclosing robotics systems from manufacturers of laboratory automation around the world. These systems provide operator, sample/process protection or both for floor mounted systems and include options and finishing to suit your robotics system and your particular unique contained process.

It's your choice!

Enclosure sizes up to 7x4 metres.

Choose your access options.

Specify cable/tubing connections required.

Choose the colour of your enclosure.

Consider integrating your robotic system into the enclosure.

LA RANGE ENCLOSURE DESIGN TYPES

LAOP: For protection of operators from potentially hazardous fumes (Chemcap carbon filtration) and particulates (HEPA filtration) released from the enclosed process.

LAPP: For protection of sample/process. HEPA filtered downflow sterile ISO Class 5 Clean Air ensures protection of the contained system.

LABS: Bio-safety - provides for operator protection from hazardous aerosols and particles whilst providing product protection from contaminants entering the enclosure when in operation with all doors closed.

LAC2: Performance to Class II levels of biological protection in closed or open conditions. For operator and sample/process protection.



A LAPP clean air enclosure with LED feature lighting.

Improve reliability, improve productivity, improve safety.



Filtration used in LA Range enclosures

Pre-filtration; eliminates particles at 5.0µm or larger to an efficiency of 92% as defined in BS EN ISO 779.

Downflow air flow; HEPA filtration (H14 Standard) eliminates particles 0.3µm or larger to an efficiency of 99.995%.

Exhaust air; HEPA filtration (H14 Standard) eliminates particles 0.3 µm or larger to an efficiency of 99.995% (double when required).

Chemcap carbon filtration removes solvent and acid vapours.

OPTIONS AND EXTRAS

- Automated transfer port.
- Branding and decorative features within acrylic windows.
- Chemcap OS carbon filtration.
- Computer shelf on flexible arm.
- Electrical sockets to suit.
- Feature and coloured lighting.
- Hydrogen peroxide (or alternative fumigation) connections (night doors removed for normal operation).
- Integrated robot system safety switches.
- Storage and shelving to suit.
- Universal control panel.
- UV lighting, linked to timed on/off facility within control system.
- Variety of door choices.
- Ventilated air lock transfer station.
- Ventilated waste tips & plates container.



PC storage / access



Ventilated waste tips & plates container



Branding options

PERFORMANCE AND STANDARDS

Meeting recognised Standards worldwide.

Clean air enclosures: NSF Standard 49, Category B2 and ANSI/IEST/ISO 14644-1: 1999.

LAC2 enclosures: NSF Standard 49, Category A2 and EN 12469: 2000.



ESSENTIALS

High quality construction.

Largest component of enclosure for on-site assembly will fit through standard laboratory doorway.



UV lamps for sterilisation in biosafety enclosures.



Quality Assured



Bigneat is accredited to BS EN ISO 9001: 2008



Bigneat systems are CE marked

Bigneat manufactures from UL approved components

BIGNEAT CONTAINMENT TECHNOLOGY
Value. Service. Experience.

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