

## Dual Purpose Service and Access Panel



Class I and II cabinets are supplied with a dual purpose service and access panels to provide:-

- Electrical Power sockets as required.
- Fumigation facilities using formaldehyde or H2O2.
- Sealed entry points for data and communication connections to the instrument.
- Service taps as required.
- Hinged acrylic window for side access to the interior.
- As an option the service panel can be replaced with a docking port allowing connection to external equipment e.g incubator, carousel etc



## General Features

- Microbiological Safety Cabinets which can be fully validated to the requirements of EN 12469:2000 with instrument located within main working area of the cabinets.
- Cabinet supplied with interlocking trolley for safe loading/unloading of instrument into the cabinet interior
- Cabinet exterior supplied in Mild Steel, powder coated gloss white (RAL 9016)
- Cabinet interior supplied in grade 304 Stainless Steel, powder coated gloss white (RAL 9016)
- Instrument work surface and handling tracks supplied in polished grade 316 Stainless steel
- Front screen supplied in scratch resistant polycarbonate glazing
- Recirculating or exhaust air models available

## About Us

Contained Air Solutions is the largest domestic supplier of Microbiological Safety Cabinets and associated clean air equipment in the United Kingdom. We provide a large variety of standard and engineered product solutions to meet the precise needs of laboratory users. All products are installed and commissioned by our own staff, with comprehensive service and support to ensure maximum operational safety, performance and reliability.

## Other products from Contained Air Solutions

Class I Microbiological Safety Cabinets  
 Class II Microbiological Safety Cabinets  
 Class III Microbiological Safety Cabinets  
 Pharmaceutical Isolators  
 Laminar Flow Cabinets  
 Powder Control Booths  
 Containment Booths  
 Ventilated Tables

## Quality Assurance

All CAS clean air products are supplied under the guidelines of our Quality Management system which has been independently assessed and approved to the requirements of ISO 9001:2008



Certificate No: 7395QM8001

## Contained Air Solutions

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# Controlled Environments

for Laboratory Robotic Systems



## Main Features

**Designed to accept a variety of automated systems from all major manufacturers**

Complete full width access to cabinet interior for ease of loading/unloading and maintenance

**Flexible solutions suitable for Cytometry and automated sampling applications**

Dual purpose panel for ease of service and access to the instrument

**Ability to integrate with external equipment e.g incubators, carousels, tip chutes etc**

HEPA filtration to Class H14, 99.995 MPPS efficiency or 99.999% DOP efficiency to EN 1822-1

**Available in either exhaust or recirculating models**

Pre engineered solutions to accept various instrument types  
 Specialised solutions for specific applications

**All models are fully compliant and validatable to the requirements of Microbiological Safety Cabinet Standard EN 12469:2000**



## Applications

To provide a safe and secure clean air working environment to accommodate robotic systems for automated processes.

**Totally compliant to EN 12469:2000**

Suppliers of Class I, II & III Microbiological Safety Cabinets  
 Isolators, Laminar Flow Cabinets and associated  
 clean air solutions



# Controlled Environments

for Laboratory Robotic Systems

A range of Microbiological Safety Cabinets and clean air enclosures designed to accommodate all major suppliers robotic instruments in order to provide a safe working environment for laboratory personnel and automated processes.



Standard Class II Cabinet solution for Flow Cytometry instrument

Designed to meet the full test criteria of the European Microbiological Safety Cabinet Standard EN 12469:2000 with instrument located within the cabinet.



Special Class II Cabinet solution for bespoke application

## Solutions

3 Flexible solutions are available to meet a variety of needs:-

**Class I** to EN 12469:2000  
Microbiological Safety Cabinets for operator protection

**Class II** to EN 12469:2000  
Microbiological Safety Cabinets for Operator and process protection

**Clean Air Enclosures**  
General controlled clean air environments, modular & configurable to the laboratory layout



## Class I Microbiological Safety Cabinets

Enhanced Operator Protection

Class I cabinets feature an open front aperture through which an operator can access the interior. During operation a constant inward airflow of 0.85m/sec protects the user by preventing the escape of any airborne particles to the external environment. All exhaust air is filtered prior to leaving the cabinet.

Class I Microbiological Safety Cabinets provide assured operator protection against all categories of all biological agents except Hazard Group 4 (ACDP guidelines 1990).



## Class II Microbiological Safety Cabinets

Operator and Product Protection

Class II cabinets are also equipped with a front aperture through which operators can access the interior. During operation, a constant inward airflow prevents the escape of any airborne particles from inside the cabinet to the laboratory, thus providing operator protection. Additionally, a constant downflow of HEPA filtered air within the main work area protects samples and equipment from contamination from the laboratory environment.

Class II Microbiological Safety Cabinets provide assured operator and process protection and are suitable for use with all categories of biological agents except Hazard Group 4 (ACDP Guidelines 1990)



## Clean Air Enclosures

General Controlled Environment Modular Enclosures

In addition to the the standard range of Class I & Class II enclosures CAS provide a modular solution for general clean air controlled environments Enclosures can be assembled to a variety of shapes and sizes to suit a specific automated process application. Air regimes within the modular assembly can be engineered to provide positive pressure for product protection or negative pressure for operator protection as required.

Designed to meet the requirements of EN ISO 14644.