

BioClass 2

Microbiological Safety Cabinets



Main Features

Main body manufactured in mild steel with white polyester finish RAL 9016

Hinged (downward) fully opening front visor with 200mm fixed height front aperture and 5mm toughened glass panel

Uninterrupted access to cabinet interior for ease of cleaning

Single membrane facia control panel

Diagnostic airflow display

Inclined working angle for improved working position

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

Double HEPA exhaust filtration supplied as standard on all recirculating type models to BS 5726:1992

All filters and controls easily accessible from the front of the cabinet

Available in either exhaust or recirculating models in three standard widths

Larger models available for specialised applications

Standard compliance to EN 12469:2000 and BS 5726:1992



Applications

To provide both operator and product protection for the routine handling of biological agents up to Hazard Group 3 (ACDP Publication - Categorisation of Pathogens according to Hazard and Categories of Containment 1990).

Technical Specification

Model	Dimensions (mm)		
External dimensions	W	D	H
1200mm exhaust type	1200	630	1360
1200mm recirculation type	1200	630	1415
1500mm exhaust type	1500	630	1390
1500mm recirculation type	1500	630	1520
1800mm exhaust type	1800	630	1390
1800mm recirculation type	1800	630	1520

Model	Dimensions (mm)		
Internal dimensions	W	D	H
1200mm	1060	550	700
1500mm	1360	550	700
1800mm	1660	550	700
Internal worktray dimensions			
1200mm	1020	400	n/a
1500mm	1320	400	n/a
1800mm	1620	400	n/a

Available Models

Ducted type with exhaust module incorporating single HEPA filter and integral anti blowback damper.

Recirculation type with exhaust module incorporating double HEPA filters and vertical discharge grille for return air.

Onboard bypass exhaust systems to maintain constant exhaust volumes, suitable for use within containment laboratories.

Active compound type with main HEPA filter located directly under worksurface for cytotoxic applications.

Large Class 2 enclosures to house automated systems for robotic applications.

Microscope cabinets with a choice of microscopes integrated into front screen for specialist requirements e.g IVF procedures. (See picture)



Other products from Contained Air Solutions

Class 1 Microbiological Safety Cabinets
 Class 3 Microbiological Safety Cabinets
 Pharmaceutical Isolators
 Laminar Flow Cabinets
 Powder Control Booths
 Containment Booths
 Robotics Enclosures
 Ventilated Tables

Description

Construction:

2mm Mild steel body finished in "traffic white" powder paint RAL9016
 Internal liner manufactured in 304 grade stainless steel with a grade 316 single piece dished removable worktray.

Instrumentation and Controls:

Wipe clean membrane facia with cabinet ON/OFF lighting and alarm mute functions, Airflow meter with red/green indication Airflow diagnostic indicator with red/green LED lights to indicate airflow status.

Exhaust Airflow Rates:	Duct Size	Cabinet Weights
1200mm model - 0.13 m ³ /sec	160mm	210kg(Ex) / 230kg(Rec)
1500mm model - 0.16 m ³ /sec	160mm	250kg(Ex) / 280kg(Rec)
1800mm model - 0.19 m ³ /sec	200mm	300kg(Ex) / 330kg(Rec)

Internal Sockets:

One single splashproof socket mounted LHS. Additional sockets available on request.

Alarms:

Audible and visual for low inflow and downflow and open front screen.

Lighting Level:

1000 lux at worksurface (white).

Noise Level:

Less than 65dB.

Electrical Supply:

230V/50Hz/single phase.

Electrical Load:

1200mm model	0.8kW	1500mm model	1.4kW
1800mm model	1.5kW		

Options and Accessories

Support frame fitted with levelling feet or lockable castors.
 Solenoid operated failsafe gas valves.
 Service taps (vacuum, lab gasses etc).
 100% sealable night door. UV germicidal light.
 Polished grade 316L stainless steel work surface.
 Formalin vapouriser (extract adaptor kit available for recirculating models).
 Inlet and outlet ports for connection to a H₂O₂ generator.

