

# BioClass 3

Microbiological Safety Cabinets



## Main Features

Main body manufactured in 2.5mm grade 316L stainless steel with a white polyester finish RAL 9010

**Hinged (downward) fully opening front visor with 10mm clear cast acrylic screen**

Uninterrupted access to cabinet interior for ease of cleaning

**Single membrane facia control panel**

Diagnostic airflow display

**Inclined working angle for improved working position**

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

**Available in three standard widths with ducted, thimble recirculation or bypass exhaust options**

Larger models available for specialised applications

**Independently Type Tested to EN 12469:2000 and BS 5726:1992**



## Applications

To provide total barrier protection for maximum safety when handling of all pathogens up to Hazard Group 4 (ACDP Publication - Categorisation of Pathogens according to Hazard and Categories of Containment 1990)

## Technical Specification

Model	Dimensions (mm)		
<b>External dimensions</b>	<b>W*</b>	<b>D</b>	<b>H</b>
1100mm exhaust type	1930	730	1300
1500mm exhaust type	2330	730	1300
1800mm exhaust type	2630	730	1300

\*All external dimensions including inlet filter and transfer hatch

Model	Dimensions (mm)		
<b>Internal dimensions</b>	<b>W</b>	<b>D</b>	<b>H</b>
1100mm	1100	630	700
1500mm	1500	630	700
1800mm	1800	630	700
<b>Glove Ports (all 200mm dia)</b>			
1100mm - 2			
1500mm - 2/3			
1800mm - 4			

### Available Models

Ducted type with exhaust module incorporating double 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 or thimble exhaust systems to maintain constant exhaust volumes, suitable for use within containment laboratories

Class III/I hybrid type with removable gloveport closure panel for occasional work in Class I mode as an open fronted cabinet. Can be fully tested to EN 12469:2000 in both Class III and Class I operating modes

Double sided Cabinets to allow access to cabinet interior from both sides

**Cabinet design independently Type Tested and approved to the requirements of EN 12469:2000, Biotechnology - Performance criteria for Microbiological Safety Cabinets, by the UK Health Protection Agency**

### Other products from Contained Air Solutions

Class I Microbiological Safety Cabinets  
 Class II Microbiological Safety Cabinets  
 Pharmaceutical Isolators  
 Laminar Flow Cabinets  
 Powder Control booths  
 Containment booths  
 Robotics enclosures  
 Ventilated Tables

### Description

#### Construction:

Fully welded 2.5mm 316L grade stainless steel main body finished in white powder paint RAL9010. 2mm stainless steel transfer hatch. All components, seals, fixings, connections individually selected and tested to ensure leaktightness integrity of the "whole enclosed system" All cabinets are subjected to a 30 minute positive pressure decay test prior to delivery.

### Instrumentation & 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 Analogue work area pressure gauge with red/green zones (-500Pa to +500Pa) Fumigation switch linked to dedicated socket.

### Exhaust Airflow Rates:

1100mm model - 0.08 m<sup>3</sup>/sec  
 1500mm model - 0.08 m<sup>3</sup>/sec  
 1800mm model - 0.08 m<sup>3</sup>/sec

### Duct Size

160mm  
 200mm  
 200mm

### Cabinet Weights

110kg  
 170kg  
 200kg

### Internal Sockets:

Two single splashproof power sockets. One single dedicated fumigation socket

### Alarms:

Audible and Visual for low airflow (exhaust)

### Lighting Level:

1700 Lux at worksurface (white)

### Noise Level:

55dB

### Electrical Supply:

230V/50Hz/single phase

### Electrical Load:

1100mm model 0.5kW  
 1500mm model 0.5kW  
 1800mm model 0.5kW

### Options & Accessories

Support frame fitted with levelling feet or lockable castors  
 Solenoid operated failsafe gas valves  
 Service taps  
 UV Germicidal light  
 Polished grade 316L stainless steel worksurface  
 Free standing formalin vapouriser (extract adaptor kit available for recirculating models)  
 Automatic fumigation option  
 Inlet & outlet ports for connection to a H<sub>2</sub>O<sub>2</sub> generator  
 Emergency Stop button



### Contained Air Solutions

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