

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)		
External dimensions	W*	D	H
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)		
Internal dimensions	W	D	H
1100mm	1100	630	700
1500mm	1500	630	700
1800mm	1800	630	700
Glove Ports (all 200mm dia)			
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:	Duct Size	Cabinet Weights
1100mm model - 0.08 m ³ /sec	160mm	110kg
1500mm model - 0.08 m ³ /sec	200mm	170kg
1800mm model - 0.08 m ³ /sec	200mm	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 H₂O₂ generator
 Emergency Stop button



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