CAS
Contained Air Solutions

BioMAT 2
BioMAT 2-S2

Class 2 Microbiological

Safety Cabinets

To EN 12469:2000

Simple

Safe

Quiet

Efficient

CERTIFIED CARBON NEUTRAL® company

MADE IN BRITAIN

Significant upgrades make the new BioMAT 2 the most simple, safe, quiet and efficient model to date
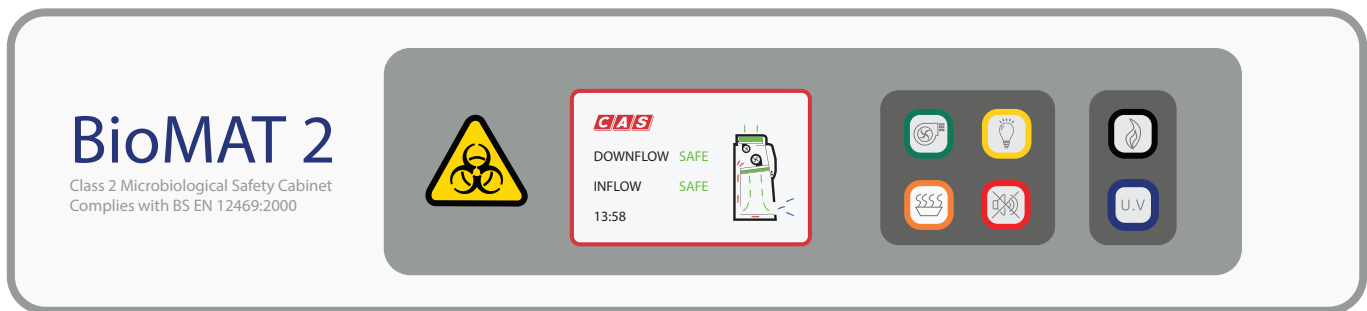
The 6th generation BioMAT 2 brings together decades of experience in containment design to provide a range of Class 2 Microbiological Safety Cabinets, simple and safe to use and maintain, quiet and energy efficient in operation.

Application

BioMAT 2 Microbiological Safety Cabinets 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 Contaminant 1990).

BioMAT 2

Class 2 Microbiological Safety Cabinet
Complies with BS EN 12469:2000

CAS

DOWNFLOW SAFE

INFLOW SAFE

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U.V

Simple to use

Intuitive controls with crystal clear iconography for ease of operation. 10cm x 6cm TFT touch screen providing real time indication of cabinet operation with dynamic animated airflow diagram.

Engineers menu allows rapid and simple adjustment of cabinet fan speed and UV light time function. Simple four digit password protection offers users simple and quick security in maintaining cabinet operations.

Efficient operation

Energy efficient EC fan technology coupled with low loss filters, LED lighting and energy efficient controls provide significantly reduced power consumption.

Typical running consumption: 140W based on a Class 2 cabinet operational performance of 0.6 m/sec inflow and 0.35m/sec downflow.

Set back mode detects unattended cabinet operation and automatically closes visor to 50mm, extinguishes lights and reduces fan speed to maximise energy efficiency (BioMAT 2-S2).

Animated airflow diagram provides real time indication of cabinet status

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DOWNFLOW SAFE

INFLOW SAFE

13:58

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DOWNFLOW LOW

INFLOW LOW

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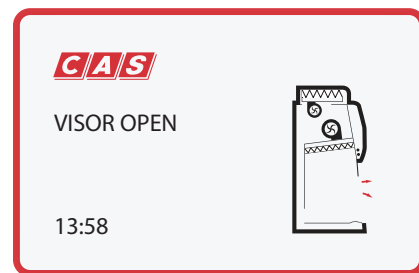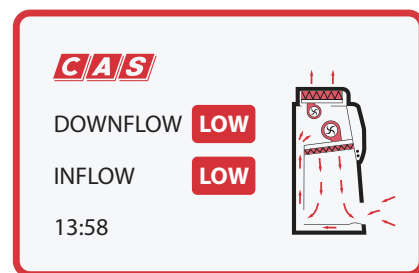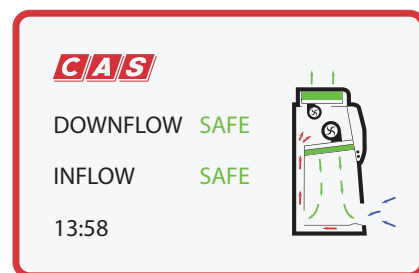
Safe operation

Full width LED light function gives operator unparalleled clear unambiguous indication of any airflow problem. Animated airflow diagram provides the operator with instant clear indication of any abnormal cabinet status.

Quiet operation

All models are equipped with EC fans, additional attenuation, low pressure HEPA filters and noise reduction technology ensures the lowest possible noise levels. Typical noise level now 49dBA (1200mm models).

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VISOR OPEN

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Features

The BioMAT 2 range of Class 2 Microbiological Safety Cabinets provide a flexible design platform allowing users to select a cabinet to meet their exact laboratory requirement.

Fans
Latest generation EC fan technology provides reduced noise levels with improved energy efficiency

Exhaust
Cabinets can be provided in standard exhaust, thimble, re-circulation or our unique patented TriMAT constant exhaust format to meet the particular application

Controls
Tactile control buttons with crystal clear iconography provide simple clear control of cabinet operation and functions

Indications
TFT touch screen complete with animated airflow diagram provides real-time indication of cabinet status under all operating conditions

Alarms
Audible alarms coupled with large red LED light alerts operator to any cabinet/airflow malfunction

Side glazing
Provides users with a bright open working environment and a flexible solution for the addition of future services

Front visor
Available in 200mm fixed aperture or motorised sliding sash to suit user preference

Worktrays
Manufactured in grade 316 stainless steel as standard. Available as a single dished unit or divided sections to suit users needs

Support Stand
Fixed height, manually adjustable or fully DDA compliant electrically operated motorised stands as required

BioMAT 2

Features

Divided worktrays

Red LED visual alarm indication

Single piece worktray

Side view

Fixed aperture door with night door

Models

BioMAT 2

The BioMAT 2 offers the proven 200mm fixed aperture design provided by all previous cabinet generations.

The visor is secured by simple slidelocks and closure is achieved using a night door supplied with each cabinet.

BioMAT 2-S2

The BioMAT 2–S2 offers an aerosol tight motorised sliding sash front visor, operated using simple up/down arrows on the main control panel. The sliding sash is normally set at 200mm for standard cabinet operation but can be raised to allow passage of large items into the main cabinet working area or lowered to close and seal the cabinet as required.

The S2 visor also incorporates an anti trap function which automatically raises the glass visor in the event that an obstruction is detected and a set back mode which lowers the visor to 50mm and switches off lights when the cabinet is left unattended to maximise energy efficiency.

Exhaust Options

Standard exhaust
Ducted type with exhaust module incorporating single HEPA filter and integral anti blowback damper
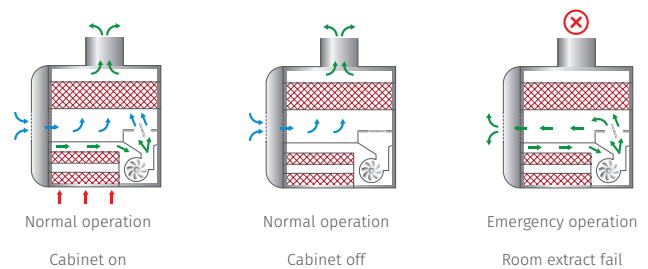
Thimble exhaust
Exhaust module incorporating double HEPA filters and integral anti blowback damper

Re-circulation
Exhaust module incorporating double HEPA filters and vertical or horizontal discharge grille for return air back into the laboratory

TriMAT
Unique patented (UK Patent No GB2501283) constant bypass exhaust module designed specifically for use in containment level 2 & 3 facilities

→ Lab air
→ Filtered air
→ Contaminated air

Normal operation
Cabinet on

Normal operation
Cabinet off

Emergency operation
Room extract fail

Technical Specifications

Features	BioMAT 2 1200mm*	BioMAT 2 1500mm	BioMAT 2 1800mm
External width	1200mm	1500mm	1800mm
Internal width	1110mm	1410mm	1710mm
External depth	705mm	705mm	705mm
Internal depth	560mm	560mm	560mm
External height	1420mm	1540mm	1540mm
Internal height	680mm	680mm	680mm
Air volume (typ.)	0.13m3/sec	0.17m3/sec	0.21m3/sec
Power consumption	140W	200W	350W
Noise level	49dBA	52dBA	58dBA
Weight	240kg	280kg	330kg
Cabinet construction	1.5mm mild steel		
Paint finish	Traffic white RAL 9016		
Inner liner	Grade 304 stainless steel		
Side windows	5mm UV resistant toughened glass		
Fumigation options	Formaldehyde or vaporised hydrogen peroxide		
Front visor BioMAT 2	5mm toughened glass with 200mm open aperture – closed for fumigation using a night door (supplied)		
Front visor BioMAT 2-S2	Aerosol tight 5mm sliding sash front visor operated via simple up/down buttons on control panel, incorporating anti trap reverse function		
Standard	Type tested and approved to EN12469:2000		

1200mm internal working width model also available on request

Accessories

- Support Stands: Fixed, adjustable or DDA compliant electrically operated (750mm to 1050mm operating range)
- Service taps, vacuum, laboratory gases etc
- Solenoid operated gas valves
- UV germicidal light with programmable timer function
- Detachable Arm rest

BioMAT Class 1

Microbiological safety cabinets

Operator protection cabinets to the requirements of EN 12469:2000

BioMAT Class 3

Microbiological safety cabinets

Full barrier high hazard protection cabinets to the requirements of EN 12469:2000

CAS Robotics

Enclosures

Class 1 or 2 controlled environments to house robotic instruments for automated processes

H-MAT

Clean air workstations

To the requirements of BSEN 14644

IsoMAT

Positive or negative pressure

2 or 4 glove pharmaceutical isolators

CAS Tables

Ventilated tables

Available in a variety of sizes and materials

Contained Air Solutions is the largest domestic manufacturer of Microbiological safety Cabinets and associated clean air products in the United Kingdom. All products are 100% designed and manufactured in our Manchester production facility which has been approved to the ISO9001:2000 Quality Assurance Standard.

We provide a large range of standard and engineered product solutions to meet the precise needs of laboratory users. All CAS products are installed and commissioned by our own fully trained personnel to ensure maximum operational safety, performance and reliability. We also offer comprehensive after sales service and support, advice and guidance on all aspects of Microbiological Safety Cabinet design, operation and safe use.

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WolfLabs

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct.
If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.