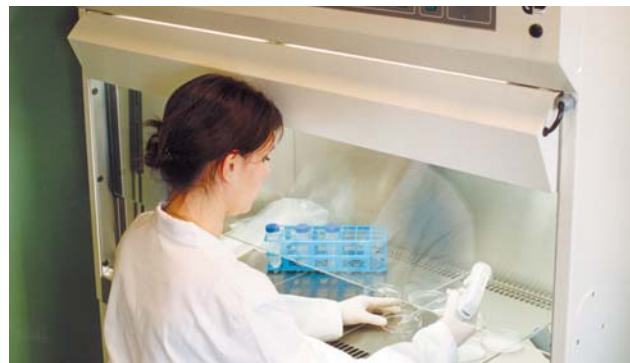


APPLICATIONS BIO II A

BIO II A cabinet provides personnel, environmental and product protection in applications involving biological agents. These cabinets have been designed according to EN 12469 and are meeting or exceeding requirements of NSF 49, BS 5726, NFX 44-201 and DIN 12950.

Each cabinet is factory-certified by TÜV-GS registered laboratory to meet the specified performance requirements.



CONTROL SYSTEM

Main switch with key and microprocessor control system. Alphanumeric luminescent display providing following data:

- Exhaust air flow m³/h.
- Laminar flow air velocity m/s.
- Cabinet temperature °C.
- Fans elapsed hour meter.
- U.V. lamp elapsed hour meter.
- HEPA filters last change date.

Safety and regulation systems controlled by the microprocessor. Visual and auditory alarms shown on the display:

- Low exhaust flow.
- Low downflow air velocity.
- Exhaust and downflow fan malfunction.
- Front window opened.

Control system is also providing safety features as:

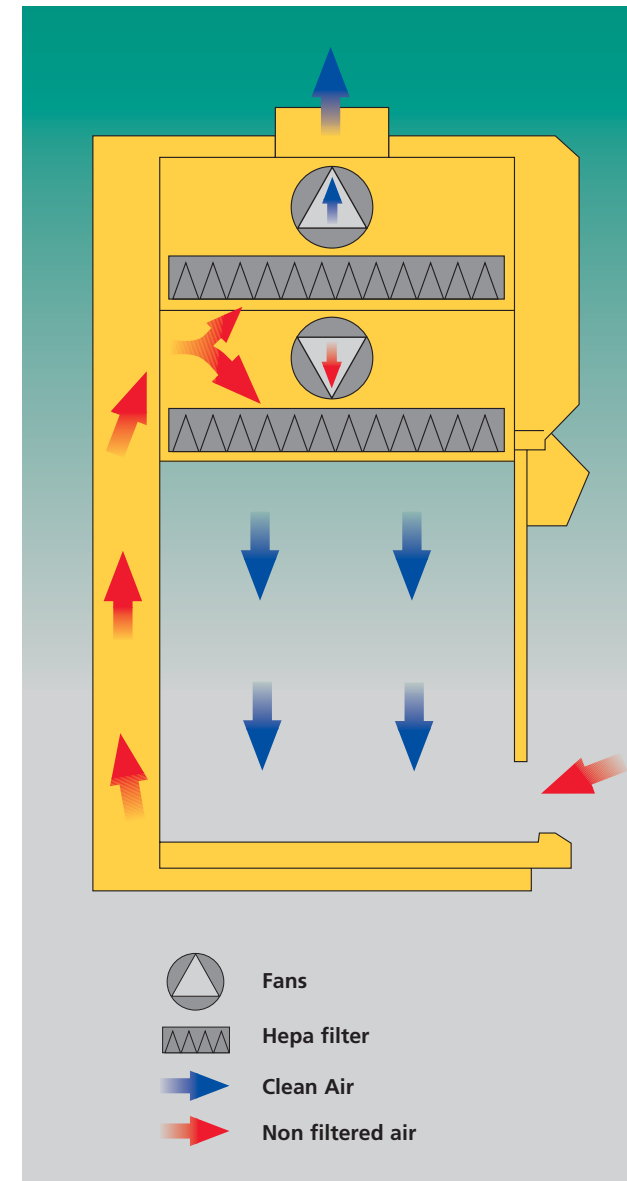
- U.V. interlocking when front window is open.
- Air flow and lighting interlocking when U.V. lamp is on.
- Impulsion and exhaust fans providing a double safety system: in case of eventual stop of the exhaust fan, the impulsion

one is automatically stopped. In case of eventual stop of the impulsion fan, the exhaust one increases its speed in order to maintain underpressure conditions in the working space.

- Microprocessor compensates for gradual increase in filters resistance: inflow and downflow are maintained in any condition.



GENERAL FEATURES



BIO II A cabinet is 70% recirculating down flow enclosure and 30% exhaust Class II A2 equipped with two high efficiency HEPA filters:

-HEPA filtered laminar airflow Class 10, which is recirculated in the work zone, creates an ultra clean work environment for product protection. A room air barrier at the front opening prevents escape of pathogens into the worker's area.

-Exhaust HEPA filter provides safety to environment.

Stove-enamel coated steel cabinet. Easy access for working and cleaning. Working space in stainless steel AISI 304. Segmented working surface. Laminated safety front window with gas springs. Two HEPA/ULPA filter stages H 14 efficiency 99.999% for particles >0.3 μ easily accessible for replacement.

Downflow filter, exhaust filter and fans accessible from the front provide easy maintenance.

Lighting system outside working chamber makes service easier.

Possibility to connect an output relay for external fan activation (ducted cabinets).

Special model with lead protection for radioisotopes preparation.



Front door in tempered glass with gas springs



Standard delivery includes U.V. lamp, electrical socket and two stopcocks

TECHNICAL DATA

FEATURES	UNIT	BIO II A/P	BIO II A	BIO II A/M	BIO II A/G
External dimensions (crated)	DxWxH mm	850x970x1630	850x1420x1640	960x1700x1630	960x1990x1670
External dimensions (uncrated)	DxWxH mm	760x852x1410	760x1310x1410	760x1615x1410	760x1920x1410
Weight (crated/uncrated)	Kg	180/160	234/200	274/235	329/270
Power	kW/A	1.2	1.8	1.8	2.9
Electrical supply	V/Hz	230/50 single ph (other supplies available)			
Chamber dimensions (DxWxH)	mm	580x732x700	580x1190x700	580x1495x700	580x1800x700
Laminar downflow velocity	m/s	0.40	0.40	0.35	0.40
Downflow	m ³ /h	605	995	1100	1500
Exhaust flow	m ³ /h	390 (Ø 160mm)	430 (Ø 160mm)	550 (Ø 200mm)	770 (Ø 200mm)
Inflow velocity	m/s	0.72	0.54	0.51	0.6
Light intensity	lux	≥ 760	≥ 930	≥ 1100	≥ 1100
Noise level	dB(A)	< 58			
Filters HEPA/ULPA H14	%	Efficiency > 99.999% (class 10)			

Standard configuration: BIO II A work station including UV-light, 2 stopcocks (one with safety solenoid valve), electrical socket in working area and electrical cable with plug (specify type when ordering).

AVAILABLE OPTIONS



Pedal Bunsen burner



Formalin vaporiser



Anti blow-back valve



Activated charcoal filter



Base assembly

BIO II A

BIOLOGICAL SAFETY CABINET

