

Biological safety cabinet

Laboratory Equipment Division

TELSTAR

advanced technologies, effective solutions



BIO II A

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 m^3/h .
- Laminar flow air velocity m/s .
- Cabinet temperature $^{\circ}C$.
- 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 fan malfunction.
- Front window opened.

Control system is also providing safety features as:

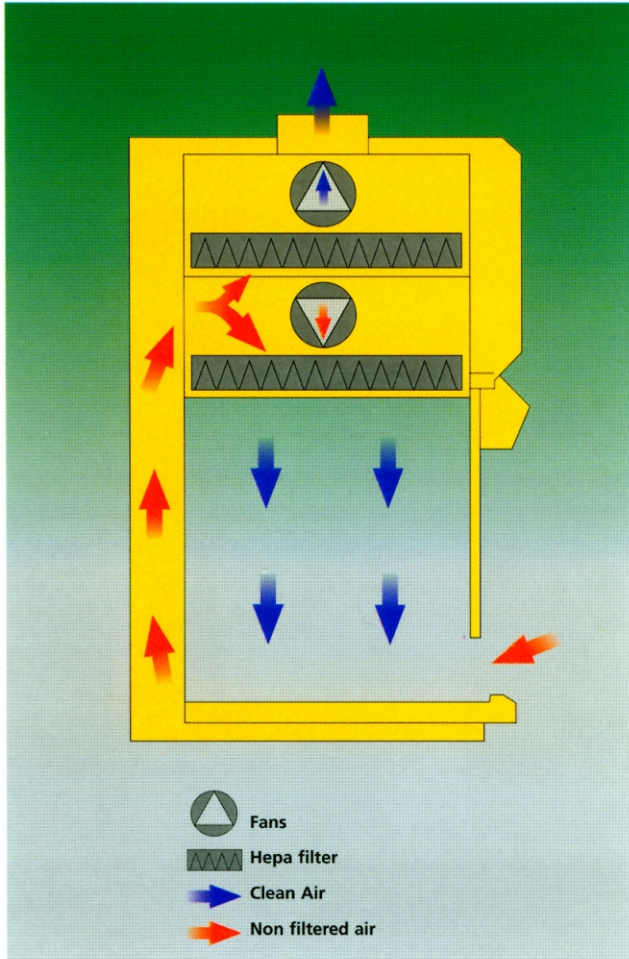
- U.V. interlocking when front window is open.
- Air flow and lighting interlocking when U.V. lamp is on.
- Impulsion and exhaust fans providing a double safety system: in case of eventual

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 Class II A 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 $>0.3 \mu$ easily accessible for replacement.

Vertical down flow filter, exhaust filter and fans accessible from the front provide easy maintenance.

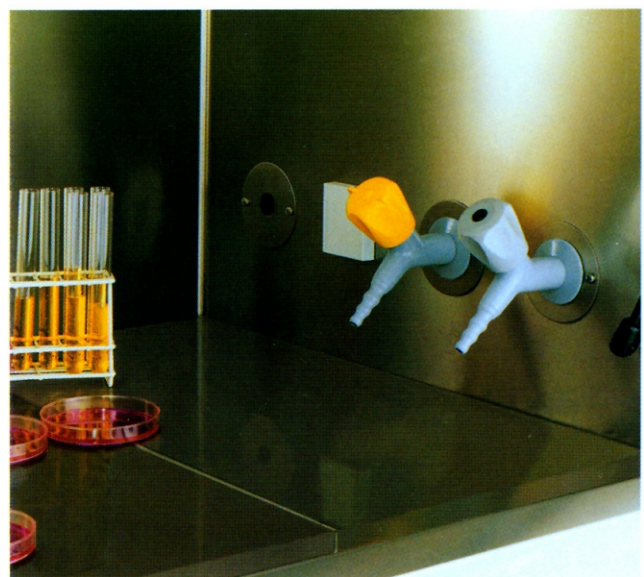
Lighting system outside working chamber makes service easier.

Possibility to connect remote fan in ducted cabinets.

Special model with lead protection for radioisotopes preparation.



Front door in tempered glass with gas springs



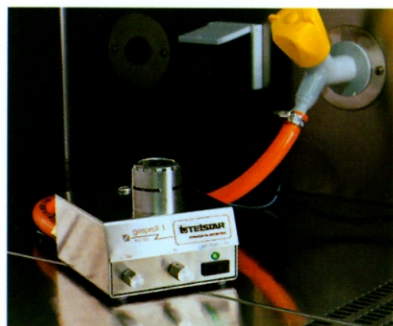
Standard delivery includes U.V. lamp, electrical socket and two stopcocks

technical data

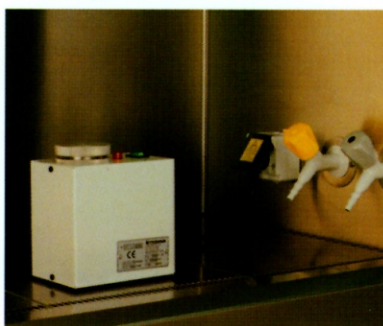
FEATURES	UNIT	BIO II A/P	BIO II A	BIO II A/M	BIO II A/G
External dimensions	(WxDxH) mm	852 x 760 x 1410	1310 x 760 x 1410	1615 x 760 x 1410	1920 x 760 x 1410
Internal dimensions	(WxDxH) mm	732 x 580 x 700	1190 x 580 x 700	1495 x 580 x 700	1800 x 580 x 700
Flow speed	m ³ /h	670	1100	1900	2300
Air speed	m/s	0.4	0.4	0.35	0.35
Weight	kg	160	200	235	270
Lighting	Lux		1100		
Noise level	dB (A)		<55		
Filters HEPA/ULPA H 14	partic.>0.3 μ		99.999		

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).

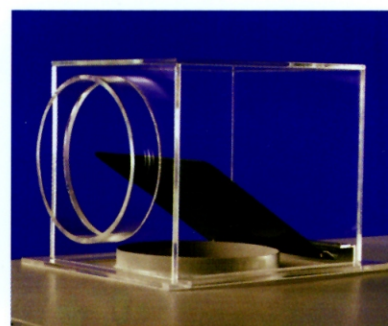
available options



Pedal Bunsen burner



Formalin vaporiser



Anti blow-back valve



Activated charcoal filter



Base assembly

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