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# BIOLOGICAL SAFETY CABINETS

## Bio II A

### DESCRIPTION



### PRODUCT OVERVIEW

EN 12469, Class II Telstar BIO II A provides a high level of protection to operator, environment and products. It is suitable for the manipulation of pathogens of categories 1, 2 and 3 as stated in the standard but is also the ideal equipment to protect fragile samples from direct or cross contamination.

Certified by TUV according to Safety Cabinets European standard.

Taking advantage of the long experience of Telstar in design of equipment for pharmaceutical production, BIO II A offers safety features, options and accessories beyond the standard requirements, to fulfill virtually all needs.

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



### CONFIGURATIONS

Model	Unit	BI II A/P	BIO II A	BIO II A/M	BIO II A/G
External Dimensions	(WxHxD)	852x760x1410	1310x1410x760	1615x1460x760	1920x1410x760
Working Dimensions	(WxHxD)	732x700x580	1190x700x580	1495x760x580	1800x700x580
Downflow	m <sup>3</sup> /h	605	995	1100	1500
Weight	kg	160	200	235	270
Power	KW/A	1.2 / 5.2	1.8 / 7.8	1.8 / 7.8	2.9 / 12.6
Light	Lux	>760	>930	>1100	>1100
Noise Level	dB (A)	59			
Filters HEPA/ULPA H14	%	Efficiency >99.999% (DOP) / >99.995% (MPPS EN 1822)			
General Features		<ul style="list-style-type: none"> <li>• Cabinet frame is made of epoxy powder coated finish zinc steel.</li> <li>• Minimized width and height are compatible with all laboratory doors and dimensions.</li> <li>• Easy access to main filter from the chamber, for replacement.</li> <li>• Removable tempered glass chamber sides.</li> <li>• Polished stainless steel one piece working tray.</li> </ul>			

### AVAILABLE OPTIONS

1. Support stand: Saves lab bench space and ensure stability (1).
2. Gas burner with foot pedal and flame monitor.
3. Double boiler with timer for formaldehyde and neutralization by NH<sub>3</sub> (2).
4. Transparent anti blow-back valve (according BS 5726) (3).
5. Second HEPA/ULPA filtration at exhaust (according BS 5726).
6. Activated charcoal filter box at exhaust to catch vapours and smell (4).
7. Safe canopy connexion to ducting.
8. Spare extraction fan for long exhaust ducting.

### CONTROL SYSTEM

1. A clear, simple and intuitive microprocessor driven system provides full control over all functions of the cabinet with user and maintenance menus.
2. Alphanumeric LCD screen displays clear information on:
  - Chamber downflow air speed.
  - Inlet/Exhaust air flow.
  - Chamber temperature.
  - Total running hours.
  - U.V. lamp running hours.
  - HEPA filters replacement date.
3. Visual and audible alarms shown on the display:
  - Low exhaust flow.
  - Low downflow air velocity.
  - Exhaust and downflow fan malfunction.
  - Front window opened.
4. Air flow and lighting interlock when U.V. lamp is on.
5. Impulsion and exhaust fans provide 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 under pressure conditions in the working space.
6. Automatic exhaust and downflow filters clogging compensation.

