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BIOLOGICAL SAFETY CABINETS

Bio II Advance

DESCRIPTION



PRODUCT OVERVIEW

The **Bio II Advance** series is a new generation of biological safety cabinets providing a compact design for easy installation within the laboratory, without losing valuable working space. It has also been designed to the highest standards of safety, ergonomics, energy efficiency, reliability and ease of use in its class.

The Bio II Advance series is backed by Telstar's world reputation and commitment to provide the market's most secure safety cabinets for biological products.

Laboratory space has to be shared with an ever increasing number of equipment. Also a cabinet is often difficult to install on site. This is not only due to its size, but also because of the difficult access to the laboratory. With this in mind, Telstar has redesigned the Biological Safety Cabinet, concentrating all its efforts on minimizing the area of the cabinet where the filters, fans and electronics are situated.

As a result, the Bio II Advance provides improvements in Laminar Flow Efficiency which helps shorten the path taken by the air inside the cabinet, thus making the cabinet the most compact model available in the market. Microprocessor control results into benefits like energy optimization, reduction of heat emission and a significantly increase in use lifetime of the filters.



CONFIGURATIONS

Model	Unit	BIO II Advance 3	BIO II Advance 4	BIO II Advance 6
External Dimensions	(WxHxD)	1149x1260x759	1354x1260x759	1964x1260x759
Internal Dimensions	(WxHxD)	954x587x605	1259x587x605	1869x587x605
Shipping Dimensions	(WxHxD)	1105x1450x840	1450x1640x880	2040x1640x870
Height of Opening	mm	200	200	200
Weight	kg	180	200	280
Laminar Flow Speed	m/s m ³ /h	0.35 / 669	0.35 / 882	0.35 / 1310
Front Entry Air Speed	m/s m ³ /h	0.5 / 294	0.5 / 403	0.5 / 620
Power	Kw	1.5	1.6	2.3
Voltage	V	230	230	230
Frequency	Hz	50-60	50-60	50-60
Lighting	Lux	> 1000	> 1000	> 1000
Sound	dBA	< 58	< 58	< 58
Vibration	mm RMS	< 0.005	< 0.005	< 0.005
Filters	HEPA H14 filters according to EN 1822: efficiency of 99.995% MPPS and 99.999 % DOP			

AVAILABLE OPTIONS

1. Support tables (available in various options)
2. Non-return valve
3. Additional active carbon filter in the exhaust to capture smells or chemical substances
4. Canopy-type connection for safe directed extraction
5. Formalin vaporiser for decontamination
6. Formalin vaporiser with neutralisation for decontamination
7. Single piece work tray
 - Programmable ultraviolet light
 - Service tap kits (N2, air, gas, vacuum...)
8. Double HEPA filter in the exhaust for extra security when the unit is expelling air into the laboratory (according to standard BS 5726).

SPECIFICATIONS

- Cabinet depth 759 mm (compatible with most laboratory doors)
- Overall height 1260 mm
- 10° sloped front window for a better working position
- 304L stainless steel chamber with rounded angles and hardened security glass sides
- Hermetically closable sealing around the front window
- Security anti-reflective front window with UV protection, with no visual obstacles on the lower edge
- Microprocessor control with filter-loading-self-compensation
- Main screen showing the laminar flow speed and the filter clogging level
- Ecomode function
- Control panel with international colour code to indicate cabinet status
- Manual sliding window with external pneumatic pistons to facilitate maintenance and internal cleaning of the cabinet and entering large objects and accessories into the working chamber
- UV light and fans with timer to be programmable
- Four predefined languages (Spanish, English, French and German)
- Access to all the maintenance areas via the front side of the cabinet.

