



**Wolflabs**

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**Faster BIO and BIO M**  
Vertical Laminar Airflow Cabinets



Protection, safety, reliability. And more.

FASTER BIO and BIO M  
**APPLICATIONS**

**BIO and BIO M LAF Cabinets**

have been widely adopted in many sectors of industry and in science laboratories for use when handling cell cultures or non-pathogenic biological specimens when the aim is to provide a high degree of protection factor to the samples and the products on the worktop. These cabinets are recommended for use in applications such a

**Quality Control in the pharmaceutical and food - beverage industries, Microbiology, Virology, Cell culture, Sterile manipulation, Molecular Biology, Nucleic acid amplification (thermocycling), etc.**



FASTER BIO and BIO M  
**BEYOND MINIMUM  
SAFETY  
REQUIREMENTS**

**BIO and BIO M Cabinets** are "Class 100" (M3.5) or "ISO Class 5" vertical laminar flow cabinets which guarantee excellent product protection, by providing a clean working area - uncontaminated by pathogenic micro-organisms and inert particulates - by virtue of a HEPA filter of an efficiency exceeding 99,995 % MPPS (H14 of EN:1822).

The BIO M model LAF cabinets have epoxy powder coated cold-rolled steel structure, whilst the BIO LAF cabinets have a fully AISI 304L stainless steel structure.

BIO and BIO M LAF cabinets operate under negative pressure, the ambient air is drawn in through the slots of the stainless-steel base at the front opening and it then passes under the work surface, from where it is drawn up and blown into the plenum of the re-circulating extractor fan (up-gradable, as option, with a HEPA or an activated carbon filter) in order to maintain a correct recirculation of the air and a lower thermal drift.



## FASTER BIO and BIO M SUPERIOR FEATURES

**Upwards opening hinged safety-glass front sash window**, designed for easy introduction of instruments into the work chamber and for easy access for cleaning and maintenance.

**Safety glass transparent** side walls.

**Front control panel** with touch-sensitive buttons for: mains switch, light, electrical socket, night mode and UV lamp. It can be fitted with digital display indicating air velocity, in case the cabinet is fitted with an anemometer or automatic airflow controls.

**Structure** of BIO LAF Cabinets in AISI 304L stainless steel to ensure superior cleanability for applications requiring sterile surfaces - and epoxy powder coated steel structure for the BIO M LAF Cabinets to provide an excellent degree of resistance to corrosion and protection from aggressive and corrosive common chemicals.

**Work surface and rear panel** in stainless steel AISI-304L, equipped with a manual gas-vacuum outlet and IP-44 rated electrical socket as standard.

**UV sterilizing lamp** (optional) installed on the rear wall of the work chamber, with front closure panel to provide protection to operators.

**Range of optional accessories** for a wide variety of requirements - manufactured for both the BIO and BIO M models.



# FASTER BIO and BIO M

## TECHNICAL SPECIFICATIONS

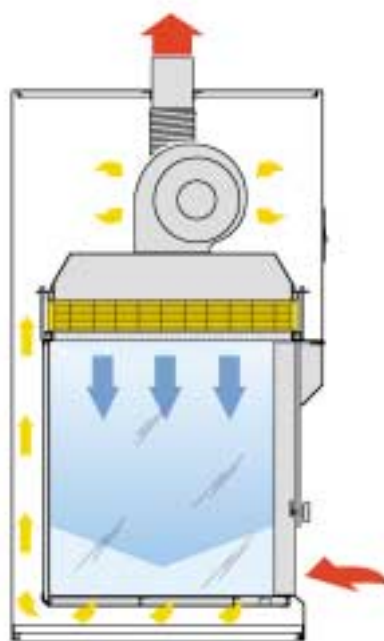
### ACCESSORIES

	Code	Dimensions (mm)			Power Kw	Supply V/Hz	Weight Kg	Front Aperture Height mm	Noise dBA	Vibrations mm/RMS	Lighting Lux	Temperature rise ° C						
		Useful LxAxP	Overall															
			LxAxP															
BIO 48	F72 700350	1220	1312	1312	0.6	220/50	150	170	< 58	< 0.006	> 900	< 3°						
BIO 48-M	F72 700400	1220	1312	1312	0.6													
BIO 60	F72 700370	1525	1617	1430/765	0.7													
BIO 60-M	F72 700410	1525	1617	1430/765	0.7													
BIO 72	F72 700360	1830	1922	1922	0.8													
BIO 72-M	F72 700420	1830	1922	1922	0.8													
F72 704230	Stainless steel modular stand for BIO 48																	
F72 704250	Stainless steel modular stand for BIO 60																	
F72 704270	Stainless steel modular stand for BIO 72																	
F72 704240	Epoxy powder painted modular stand for BIO 48-M																	
F72 704260	Epoxy powder painted modular stand for BIO 60-M																	
F72 704280	Epoxy powder painted modular stand for BIO 72-M																	
F72 701040	Stainless steel 3-drawers unit on pivoting wheels																	
F72 701050	Epoxy powder painted 3-drawers unit on pivoting wheels																	
F72 700500	UV lamp and stainless steel front closure for BIO48/BIO-48M																	
F72 700510	UV lamp and stainless steel front closure for BIO60/BIO-60M																	
F72 700520	UV lamp and stainless steel front closure for BIO72/BIO-72M																	
F72 700660	Set of 2 gas springs for frontal glass																	
F72 700790	Differential pressure gauge																	
F72 700380	Stainless steel front closure for BIO48/BIO-48M																	
F72 700385	Stainless steel front closure for BIO60/BIO-60M																	
F72 700390	Stainless steel front closure for BIO72/BIO-72M																	
F72 700740	Digital anemometer																	
F72 700750	Automatic speed regulator and digital anemometer																	
F72 700760	Additional service connection for gas/vacuum (manual tap)																	
F72 700770	Additional service connection for electrical power																	
F72 704350	Additional exhaust HEPA filter for BIO 48/60/72 (factory fitted)																	
F72 704340	Additional exhaust HEPA filter for BIO 48-M/60-M/72-M (factory fitted)																	
F72 704370	Additional exhaust carbon filter for BIO 48/60/72 (factory fitted)																	
F72 704360	Additional exhaust carbon filter for BIO 48-M/60-M/72-M (factory fitted)																	
F72 709076	D.O.P. inlet																	

### OPERATIONAL PRINCIPLES

The ambient air is drawn in through the slots of the stainless-steel base at the front opening and it then passes under the work surface, from where it is drawn up and partially blown and channelled through a HEPA filter back into the work chamber in a 'down-draught' of an even and laminar air flow pattern - whilst also partially exhausted back into the room.

The extracted air generates and continually aids a constant intake-draught of the ambient air in order to maintain an adequate and balanced exchange with fresh air - maintaining the lowest possible thermal drift.



External air ←  
 Recirculated air ←  
 Sterile air ←