



## SafeFAST XXL

Extra-Large Class II  
Microbiological Safety Cabinets



LABORATORY AND  
INDUSTRIAL EQUIPMENT

# SafeFAST XXL

Extra-Large Microbiological Safety Cabinet

**SafeFAST XXL** is a custom sized Microbiological Safety Cabinet that belongs to the latest generation of laminar airflow systems manufactured by **Faster S.r.l.**

It is specifically designed with extra-large dimensions in order to house big automatic laboratory robots (liquid handling robots, filling machines, etc).



## Energy efficiency technologies for a low environmental impact

Fully aware that our choices of today will determine and shape our fates tomorrow, our company - FASTER - is convinced that technology must protect the environment to ensure a continuing sustainable progress.

Respect for the environment motivates FASTER to manufacture laminar-flow, cytotoxic drug safety cabinets and microbiological safety cabinets with ultra-low environmental impact, by utilizing:

- Certified 'low pressure-drop' H14 HEPA/ULPA filters providing up to 30% saving on power consumption
- Electronically controlled motor-blower with automatic pressure-drop compensation
- 99% recyclable components
- Innovative technologies such as the new **ECS<sup>®</sup>** microprocessor
- Air cleanless in Class ISO 3, according to ISO 14644-1

**ECS<sup>®</sup>**  
ECO CONTROLLING SYSTEM

The new ECS<sup>®</sup> microprocessor employs the

latest innovative methods of integrated management of all the principal functions of ventilation and filtration - self-regulating all the main filtration and ventilation system-components - compensating for declining pressure drops and restoring power balance. Combining the use of AC motor-blowers and certified low pressure-drop filters, the new ECS<sup>®</sup> controlling system optimize power consumption, reducing CO<sub>2</sub> emissions into the environment.

### ANTIMICROBIAL COATING

Body structure made in cold rolled epoxy painted steel painted with **Alesta® Dupont antimicrobial coating**.



### EQUALIZER DOWNFLOW HEPA/ULPA FILTER

Patented equalizer downflow for a **perfect laminar airflow distribution** over the entire surface, with unmatched speed uniformity.



### TEMPERED SIDE GLASSES

Tempered side glasses with servicing holes for **cable passages and taps installation**.



### UV STERILIZING LAMP

**UV sterilizing lamp** (optional) is mounted on the front closing panel and is complete with three countdown timers: one fully programmable by the operator, one variable on a 0:3 hours scale (one minute steps), and one set to three fixed hours.



### FRONT WINDOW TOTAL OPENING

Stratified safety front glass with aluminum frame and gas springs that can be opened up for **easy access of robots and for cleaning and routine maintenance**.

**XXL INTERIOR DIMENSIONS**  
**1000 MM HEIGHT-DEPTH**  
**WIDTH UP TO 2500 MM**



### TEXTILE PLENUM

The textile plenum, the antivibration mounts of the internal fans and the software designed to provide optimum air handling, guarantee quiet operation of this silent safety cabinet, with sound-pressure levels recorded way below the parameters specified in the current EN 12469:2000.

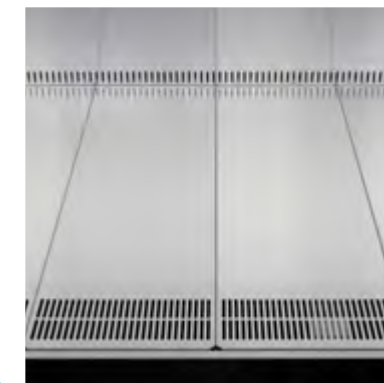


User-friendly keyboard and microprocessor based monitoring system: full status report provided via 2-line digital display which automatically control all functions and all safety alarm systems.



### IP 66 ELECTRICAL SOCKETS

AISI 304 stainless steel back panel with 2 x IP 66 electrical sockets for **total protection against liquid splash**.



### REINFORCED WORK SURFACE

Reinforced segmented work surface for **loading support up to 500 kg**, made in AISI 304L stainless steel with SB pharmaceutical finishing.

### HIGHEST LEVEL OF LUMINOSITY

Thanks to the safety glass side-windows with the ideal positioning and sizing of the fluorescence light-system outside the working area.

## SafeFAST XXL

Extra-Large Microbiological Safety Cabinet

### OPERATIONAL PRINCIPLES



The unit delivers laminar flow rated in Class ISO 3 according to ISO EN 14644-1 ensuring product protection against cross-contamination.

It is also designed and built to ensure operator's protection in accordance to the EN-12469:2000 European Standard, with 70% of the air re-circulated via the main Class H14 HEPA 14/ULPA filter within the cabinet, whilst the remaining 30% is exhausted through an exhaust Class H14 HEPA 14/ULPA filter.

The ambient air is drawn in from the slots at the stainless-steel base of 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 and exhaust fan. The "bio-dynamic sealing system" of the negative pressure plenum ensures that all contaminated particles are kept inside the system and are automatically drawn to the plenum and then captured by the main re-circulating and exhaust HEPA 14/ULPA filters.

The fan system assures that no part of the cabinet comes ever under positive contaminated pressure to the laboratory, thus protecting and preserving the environment and operating personnel from exposure to biological agents.

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Extra-Large Microbiological Safety Cabinets



## CUSTOM-MADE SOLUTIONS

Due to its intrinsic special features, SafeFAST XXL can be subjected to any kind of customization: Faster analyze, design and develop bespoke products in synergy with customer's ideas, tailoring the most proper solution according to their needs; the R&D department is able to satisfy the latest market demands combining them with engineering strategies.

## QUALITY ASSURANCE DEPARTMENT



AIR FLOW SPEED TEST



FILTER LEAKAGE TEST



NOISE LEVEL TEST

Each Faster cabinet is tested conforming to EN 12469:2000, EN 61010:2001 and released with FAT certificate of the tests performed.



KI DISCUSS TEST



LIGHTING TEST



VIBRATION TEST



ELECTRICAL TEST

## TECHNICAL SPECIFICATIONS

Description	Unit	SafeFAST XXL			
		212	215	218	222
Overall dimensions (WxDxH) <sup>(1)</sup>	mm	1332x1182x2530	1637x1182x2530	1942x1182x2530	2398x1182x2530
Useful dimensions (WxDxH)	mm	1190x1000x1000	1495x1000x1000	1812x1000x1000	2256x1000x1000
Working height	mm	800	800	800	800
Working aperture	mm	200	200	200	200
Maximum front aperture	mm	800	800	800	800
Weight	kg	350	470	510	580
Exhaust flow rate	m <sup>3</sup> /h	390	486	585	715
Noise level <sup>(2)</sup>	db(A)	<61	<63	<66	<66
Lighting level	lux	>1000	>1200	>1300	>1500
Electrical data		1Ph+E - 230V 50Hz			
Energy consumption <sup>(2)(3)</sup>	kW	1,06	1,4	1,5	1,7

Internal electrical outlet The electrical outlets have a total load capacity of 6A and are protected with one T6A fuse

<sup>(1)</sup> the entire unit can be supplied disassembled.

<sup>(2)</sup> at operation condition according to EN12469: 2000.

<sup>(3)</sup> clean filters, lighting activated, internal outlet load excluded.

## OPTIONS AND ACCESSORIES

Premium Kit • Service taps • UV lamp • Additional electrical sockets • Data sockets • Stainless steel hanging bar • Arm-rest • Exhaust Hard duct/thimble connection • Stand with castors • Stand with manual telescopic extensions • Stand with automatic lifting system • Touch screen • VHP decontamination kit • Volt free contact • REMOTEFAST for remote control of all cabinet parameters from the PC of the supervisor



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Striving everyday to improve our environmental performance, FASTER developed environmental procedures are founded on three guiding principles:

- Protect the Environment for present and future generations manufacturing low energy consumption equipments
- Reduce risks and improve efficiencies
- Introduce improved technology and processes