



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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THE LOWEST POWER CONSUMPTION

THE LOWEST CO<sub>2</sub> EMISSIONS

THE LOWEST NOISE LEVEL

## SafeFAST Premium

Class II  
Microbiological Safety Cabinets



PROTECTION, SAFETY, RELIABILITY.  
AND MORE.

## Absolute safety for the operator. Always

Manufacturing truly “safe” cabinets depends entirely on the quality of their design and components. Aware of the fact that our guarantees for safety do not tolerate any compromises, our company has created its internal



FASTER QUALITY AND SAFETY PROGRAM - consisting of a new set of standard operational procedures and manufacturing methods - applied to each and every step of the production processes aimed at fulfilling all requirements of these high standards.

### HARDWARE

- **ANTI BACTERIAL COATING**  
Each FASTER cabinet is coated with exclusive **Dupont™ ALESTA®** anti-bacterial “Ag+ cations-based solution”, capable to prevent microbial contamination of surfaces thereby inhibiting long term surface growth.
- **LOW NOISE LEVEL**  
The unique design and materials of the special plenum and filter-housing ensure a reduction in sound-pressure levels providing quiet operation.
- **STAINLESS STEEL AISI 316L**  
Each FASTER Microbiological and Cytotoxic Safety Cabinet is fitted with standard AISI 316L Stainless Steel work-surface.
- **REAL LAMINAR FLOW**  
The internal aerodynamic design of the structure of the chamber provides ideal laminar air-flow patterns - providing conditions to satisfy performance requirements expressed by EN 12469:2000 European Standard and DIN 12980:2005 Standard.

### SOFTWARE

- Instant management and monitoring of operational parameters and automatic compensation system control by the new **ECS®** microprocessor.
- Software features easily programmable replacement-regime of spare parts and filters
- Countdown-Timer integrated within the control board.
- Permanent record of all alarms and anomalies memorized by the control-board for the entire life-cycle of the cabinet.
- One Push Restore menu, to reset the original factory calibration data.

### CUSTOMER CARE

- Prompt technical assistance by phone and mail - within 24 hours from the call
- Hot-line for immediate technical assistance and feasibility study

### TAILOR-MADE SPECIAL CABINETS

- Custom made special cabinets made on request

### CERTIFICATIONS

- Double ISO 9001 Certification

### QUALITY ASSURANCE DEPARTMENT

Each Faster cabinet is tested conforming to EN 12469:2000, DIN 12980:2005, EN 61010:2001 and released with FAT certificate of the tests performed.



AIR FLOW SPEED TEST



FILTER LEAKAGE TEST



NOISE LEVEL TEST



KI DISCUSS TEST



LIGHTING TEST



VIBRATION TEST



ELECTRICAL TEST

# OUR COMMITMENTS

## 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



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.



ENVIRONMENT AWARENESS			
	Standard Class II cabinet	ECS <sup>®</sup> controlled cabinet	SafeFAST Premium
CO <sub>2</sub> Emissions [Kg]	764*	226*	163*

\* Calculated in operational hours per year ( 52 weeks/year, 8 h/day )

# SafeFAST Premium

Class II Microbiological Safety Cabinets

## ENVIRONMENT AWARENESS

**SafeFAST Premium Microbiological Safety Cabinets** are the new benchmark in laminar air flow technologies belonging to the latest generation of laminar airflow systems manufactured by Faster S.r.l.

**SafeFAST Premium is a jump into the future** beyond strictest safety standards delivering outstanding performances in terms of **power consumption, noise level and CO<sub>2</sub> emissions**.

SafeFAST Premium vertical laminar flow cabinets are Class II Microbiological Safety Cabinets - designed and built to performance requirements of the EN 12469: 2000 European Standard, with 70% of the air re-circulated via the main Class H14 HEPA/ULPA filter within the cabinet, whilst the remaining 30% is discharged through an exhaust Class H14 HEPA/ULPA filter.

**Safety Cabinets with automatic regulation and microprocessor based monitoring systems.** These cabinets are suitable for handling micro-organisms and pathogens as defined by the appropriate European and other International Standards, current health and safety guidelines and legislation aimed at safeguarding health and safety of operators at work.

**SafeFAST Premium Microbiological Safety Cabinets** are fitted with direct current double motor-fans and are also suitable to discharge the filtered air outside the laboratory through a ducting system, if required.

## APPLICATIONS

**SafeFAST Premium Class II Microbiological Safety Cabinets** have been adopted worldwide in use for product, personnel and environmental protection while handling harmful agents pathogenic to human beings and/or animals as defined in the appropriate International Standards, in a wide range of disciplines in applications such as:

**Microbiology, Virology, Haematology, Cell culture, Genetics, Handling of hazardous agents to human beings or animals.**





### EASY CLEANING / MAINTENANCE

Electrically operated safety-glass sash window, the framework of which is also hinged and can be opened up for easy access during cleaning and routine maintenance.



### REMOVABLE WORK SURFACE

Work Surface in stainless steel AISI 316L consisting of sections which are easily removable for carrying out routine cleaning and/or autoclaving sterilization procedures, supplied as standard with perforated work surface or solid work surface.



### SASH-HEIGHT OPENING

The standard height of the work position sash is set to 160 mm.

Alternative height setting (200-250 mm) by the factory is available upon request

### EASY HANDLING AND MAINTENANCE

The safety cabinet can pass through 800 mm wide door openings. In fact, the overall depth of the cabinet can be reduced to approx. 790 mm by removal of the rear panel. All service operations are available from the front of the cabinet.

### ERGONOMIC DESIGN

The angled sloping front safety-glass, provides optimum visibility of all objects placed in the interior working volume together with higher lightning level. The frontal glass is electrically operated, pressing the appropriate touch-sensitive keys will completely open or completely close down the sash.

### HIGH LEVEL LIGHTING - LED LIGHTS TECHNOLOGY

Wide safety glass side-windows with the ideal positioning and sizing of **LED lights system**, provide the highest lighting level (> 1000Lux ) to the work area. **A dimmer is available as standard fitting to adjust light intensity.**



### MOBILE UV STERILIZING LAMP

Mobile UV sterilizing lamp (optional) can be easily placed in each area of the back wall. 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.



### OUTLET FITTINGS

1 Automatic safety service connection for gas, 1 for vacuum and 1 electrical socket for size model 212 and 2 electrical sockets fitted as standard in size model 215 and 218 fitted as standard.



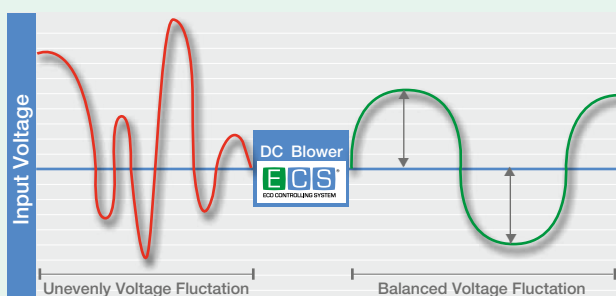
### LOW PRESSURE DROP HEPA FILTERS

Innovative certified low pressure drop H14 HEPA/ULPA filters tailored for the unit SafeFAST Premium with increased media filtration for **double filter lifetime**. The filters are integrated with equalizer laminator sheet for superior air flow distribution to the work surface.

### OUTSTANDING NOISE LEVEL - 42dB(A)

With its 42dB(A) of sound pressure level, SafeFAST Premium is the most silent cabinet worldwide. Working with SafeFAST Premium, the operators will experience the real sound of silence. The unit is such silent that it is difficult to say if it is running or not. Thanks to **direct current low power consumption motorblowers, innovative plenum design and certified low pressure drop H14 HEPA/ULPA filters**, SafeFAST Premium recorded noise level performance way below the parameters specified in the current EN 12469:2000.

### STABLE AIRFLOW PROVIDED BY DC BLOWERS AND FASTER ECS® MICROPROCESSOR



SafeFast Premium is fitted with direct current DC motorblowers and enhanced with innovative Faster ECS®-Eco Controlling System microprocessor control.

### OPERATIONAL PRINCIPLES



- ENVIRONMENTAL AIR
- CONTAMINATED AIR
- STERILE AIR

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 fans.

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 or pressure chamber to be captured by the main re-circulating and exhaust H14 HEPA/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 agents of bio-contamination.

70% of the filtered air is re-circulated (after passing through a H14 HEPA/ULPA) in a air cleanliness in Class ISO 3, according to ISO 14644-1 laminar flow pattern downwards into the work chamber and the remaining 30% is exhausted to atmosphere through another H14 HEPA/ULPA filter.

# SafeFAST Premium

Class II Microbiological Safety Cabinets

THE USER-FRIENDLY  
PRACTICAL  
KEYBOARD



## SafeFAST Premium

**ECS® MICROPROCESSOR MONITORING SYSTEM:** full status report provided via 2-line digital display by the new ECS® generation microprocessors - which automatically control all functions and all safety alarm systems ensuring that performances are maintained according to EN 12469:2000 requirements.

High power lithium battery keeps safety data saved to microprocessor system.

**THE USER-FRIENDLY PRACTICAL KEYBOARD** and rear-lit LCD display will continuously display all required data keeping the user constantly informed of the cabinet conditions in operation and in particular:

- display of laminar airflow velocity and frontal air barrier velocity
- display of inside and outside temperature
- display of residual lifetime of H14 HEPA/ULPA filters, UV Lamp (if fitted)
- display of total number of hours of operation
- display of saturation level of H14 HEPA/ULPA filters

**AUDIO VISUAL ALARMS PROVIDED FOR**

- out of range or incorrect laminar airflow velocity and frontal air barrier velocity
- incorrect position of front sash-window
- saturation of the filters
- end of life-cycle of UV lamp (if fitted)
- blockage in the exhaust duct
- fan-motor malfunction
- power failure

## TOP QUALITY COMPONENTS MEAN OUTSTANDING PERFORMANCES

### THE LOWEST POWER CONSUMPTION

SafeFAST Premium Microbiological Safety Cabinet offers **outstanding energy efficiency performance with a power consumption value rated to 84,4 Watt at operational mode** in conformity to EN 12469:2000.

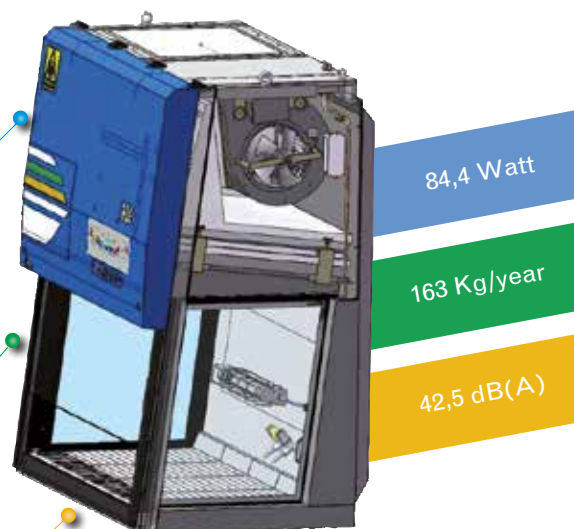
This performance is achieved combining innovative solutions such as **DC blowers, low pressure drop H14 HEPA/ULPA filters, low power consumption LED light and revolutionary Faster ECS® microprocessor.**

### THE LOWEST CO<sub>2</sub> EMISSIONS

Inspired by environment awareness, SafeFAST Premium Microbiological Safety Cabinet boasts **the lowest CO<sub>2</sub> emission value equal to 163 Kg/year** as a result of advanced technical solutions and choice of materials.

### THE LOWEST NOISE LEVEL

SafeFAST Premium Microbiological Safety Cabinet recorded **unmatched sound pressure level of 42,5 dB(A)** thank to special plenum design and certified low pressure drop H14 HEPA/ULPA filters.





## TECHNICAL SPECIFICATIONS

Description	Unit	SafeFAST Premium			
		209	212	215	218
Overall Dimensions WxHxD (1)	mm	1045 1545x855	1350 1545x855	1655 1545x855	1960 1545x855
Usefull Dimensions WxHxD	mm	887 740x580	1192 740x580	1497 740x580	1802 740x580
Working aperture	mm	160			
Maximum front aperture	mm	440			
Weight	kg	170	195	225	260
Exhaust flow rate	m <sup>3</sup> /h	290	390	485	585
Filtration		Main and exhaust certified low pressure drop H14 HEPA/ULPA filters with typical efficiency of 99,995% MPPS CEN EN 1822-ULPA filter with typical efficiency of 99,999% at 0.1 to 0.3 µm as per IEST-RP-CC00 1.3 USA			
Noise level (2)	dB(A)	41	42,5	47	49
Lighting level	lux	>1200	>1200	>1300	>1300
Electrical Data		1Ph+E - 230V 50Hz			
Current consumption (2)(3)	A	0,5	0,6	0,9	1,2
Electrical class / IP		1 / 20			
Internal electrical outlet		The electrical outlets have a total load capacity of 6A and are protected with one T6A fuse			
Power consumption	W	78	84,4	128	171

(1) The total depth of the cabinet can be easily reduced to 780 mm removing the back panel.

(2) At operation condition according to EN 12469: 2000.

(3) Clean filters, lighting activated, internal outlet load excluded.

## OPTIONS AND ACCESSORIES

• Solid Work Surface • Single Section Work Surface • UV Light with Magnetic Support • Additional Tap (Fuel Gas / Non-Fuel Gas / Vacuum) • Additional Electrical Outlet • Stainless Steel Hanging Bar • Movable Stainless Steel Armrest • Anti Blow Back Damper • Direct Duct Exhaust Transition • Thimble Duct Exhaust Transition • Additional Exhaust H14 HEPA/ULPA Filter • Additional Exhaust Activated Carbon Filter • Pre-Filter Grid • Floor Stand 900 mm Working Height With Footrest (other heights on request) • Electric Adjustable Floor Stand 800 to 1100 mm working height - Floor Stand With Castors



### Faster S.r.l.

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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