



# SafeFAST Classic

## Class II Microbiological Safety Cabinets

SafeFAST Classic Microbiological Safety Cabinets belong to the latest generation of laminar air flow systems and currently surpass most known "value for money" Microbiological Safety Cabinets on the market.

SafeFAST Classic 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 filter within the cabinet, whilst the remaining 30% is discharged through an exhaust Class H14 HEPA 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 Classic cabinets have been adopted worldwide 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 agents hazardous to human beings or animals.



**EASY CLEANING / MAINTENANCE:**  
Electrically operated vertically sliding safety-glass sash window, which is also hinged and can be opened up during cleaning and routine maintenance.



**REMOVABLE UV STERILIZING LAMP:**  
Removable UV sterilizing lamp (optional) that can be easily placed in each area of the back panel. Complete with two switch off countdown timers, one variable on a 0÷3 hours scale (1 minute steps), the other set to 3 fixed hours.



**ELECTRICALLY OPERATED SASH WINDOW;**  
The standard height of the work position sash is set to 200mm. Alternative sash-height settings (250 -160 mm) by the factory are available upon request. 440 mm maximum opening.



**CABINET ELEMENTS:**  
IP 44 electrical socket is fitted as standard in each size model. Servicing holes are positioned on the side glasses for taps installation (as option).



**REMOVABLE WORK SURFACE:**  
Work Surface in stainless steel AISI 304L consisting of sections which are easily removable for carrying out routine cleaning and/or autoclaving sterilization procedures. As standard supplied with perforated work surface, solid work surface available on request.

**EASY INSTALLATION:**  
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.

**SILENT OPERATION:**  
The bag plenum, the structures of the electric motor of the fan fitted on its antivibration mounts and the software itself designed to provide optimum air handling characteristics guarantee quiet operation of this silent safety cabinet, with sound pressure levels recorded way below the Parameters specified in the current EN 12469:2000 European Standard for Microbiological Safety Cabinets.

**HIGH LEVEL LIGHTING:**  
The safety glass side-windows with the ideal positioning and sizing of the light system provide the highest level of luminosity to the work area.

**ERGONOMIC DESIGN:**  
The 7 degrees angled sloping front safety-glass sash, provides optimum visibility of all objects placed in the interior work space together with higher lightning level. The sash is electrically operated, pressing the appropriate touch-sensitive keys will completely open or completely close down the sash.



# Technical Specification



**ECS® MICROPROCESSOR BASED MONITORING SYSTEM:**  
Full status report provided via 2-line digital display by the new generation microprocessors which automatically control all functions and all safety alarm systems ensuring that performance characteristics are maintained to EN12469:2000 requirements. High power lithium battery keeps safety data saved to microprocessor system.

**THE USER-FRIENDLY PRACTICAL KEYBOARD**  
and the rear-lit LCD 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 residual lifetime of HEPA filters, UV Lamp (if fitted)
- display of total number of hours of operation
- display of saturation level of HEPA 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 HEPA filters
- end of life-cycle of UV lamp (if fitted)
- blockage in the exhaust duct
- fan-motor malfunction
- power failure

**ANTI BACTERIAL COATING:** Each 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.

**STAINLESS STEEL AISI 304L:** Each SafeFAST Classic Microbiological Safety Cabinet is fitted with standard AISI 304L 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

**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.



## Technical Specifications

Description	Unit	SafeFAST Classic		
		209	212	218
Overall Dimensions	mm	1045	1350	1960
WxHxD (1)		1500x810	1500x810	1500x810
Usefull Dimensions	mm	887	1192	1802
WxHxD		740x580	740x580	740x580
Working aperture	mm		200*	
Maximum front aperture	mm		440	
Weight	kg	170	195	260
Exhaust flow rate	m³/h	290	390	585
Noise level (2)	dB(A)	<53	<54	<56
Lighting level	lux	>1100	>1200	>1300
Electrical Data			1Ph+E - 230V 50Hz	
Current consumption (2)(3)	A	1,9	2,1	3,6
Electrical class / IP			1 / 20	
Internal electrical outlet		The electrical outlets have a total load capacity of 4A		
Heat emission	W	175	240	360

(1) The total depth of the cabinet can be easily reduced to 780 mm removing the back panel.  
 (2) At operation condition according to EN12469:2000.  
 (3) Clean filters, lighting activated, internal outlet load excluded.  
 \* Alternative sash-height settings (250-160 mm) by the factory are available upon request

- OPTIONS:**
- 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
  - Direct Duct Exhaust Transition
  - Thimble Duct Exhaust Transition
  - 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