

Description

Cruma S@feFlow Cabinets are supplied in three different sizes (0.9 mt, 1.2 mt and 1.8 mt). These highly sophisticated Microbiological Safety Cabinets Class II Type A2, provide the highest safety for the operator and the environment for them anipulation of Risk Groups 1 to 3 of pathogens (WHO Classification of Infective Microorganisms by Risk Group, 2004).

The internal design, the air flow aerodynamics and monitoring, the built-in safety devices and the comprehensive range of unique options, guarantees the highest performances at the most stringent safety levels, higher than those specified by EN12469 standard and have been certified by all the most prestigious European certification bodies for Safety Cabinets (Germany, UK and France).

Certified intrinsic biological safety, combined with highly sophisticated interactive features and options, gives the end user, the environment and the product an ultimate microbiological safety that only experienced European design with over 40 years of know how and accurate quality manufacturing, can provide.



Technical Innovations

- ✓ MSC Class II Type A2
- ✓ Fully EN12469 certified by TÜV Hamburg and LNE Paris
- ✓ Last generation Microprocessor control with interactive functions
- ✓ Large screen monitor, with permanent display of critical functions and operational/emergency messages
- ✓ Multilevel alarms with redundancy functions
- ✓ Continuous measurement of volumetric airflows (total and exhausted)
- ✓ Air and aerosol-tight sliding sash, electrically operated by finger touch
- ✓ Automatic Sterilisation Cycle (ASC), reliable, safe and reproducible
- ✓ Easy retrofit option kits

Applications

- ✓ Manipulations of microorganisms, bacteria, fungi, virus and parasites risk groups 1, 2 and 3
- ✓ Isolation and culture of samples
- ✓ Quantification Methods
- ✓ Microscopy techniques and sample preparation
- ✓ Identification and typing of microorganisms
- ✓ Genetic Manipulation

*Up to 2 year warranty,
and it is not a typographical error*

Because we are convinced of the quality of our products.



*More information www.cruma.es

*Well done, well shipped.
Our responsible packaging*

Cardboard box 100% recyclable with international phytosanitary certificate.



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technical assistance?*

Our service center provides answers and solutions to Spain and abroad; Ask us if you have questions or need spare parts, servicing, maintenance, etc..

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Serial equipment

- ✓ Sloped front design for the highest operational comfort. Sloped back side of the working chamber for the best down flow distribution (cabinet carcass EN 12298 tested and certified for air tightness)
- ✓ Stainless Steel 304 internal surfaces with 2B finishing (including spillage tray). Perforated work surface (3 sections) and special designed front grill. Solid work surface available
- ✓ Stainless steel 304 spillage sump
- ✓ Electrically operated sliding multilayer safety glass window; swing out features for cleaning.
- ✓ Utilities inlets from the top of the cabinet.
- ✓ Recessed exhaust Hepa filter
- ✓ H14 class High Efficiency Particulate Airfilters guaranteed with 99.995% efficiency on 0.3 m micron particles (most penetrating particle diameter) (EN 1822-1 and EN 13091:1999 tested and certified)
- ✓ Exhaust and Main Filters are equipped with a micromesh membrane located downstream which acts as airspeed equalizer expansion plenum, as well as a clear indicator of filter damages.
- ✓ Filter change and maintenance from the front cabinet.
- ✓ Exhaust transitions easily installable.
- ✓ Three PIN code levels (Operator, Supervisor, Calibration) ...and much more. See PDF Technical sheet

Optional equipment

- ✓ Soporte para SafeFlow 0.9 AS18000
- ✓ Soporte para SafeFlow 1.2 AS16000
- ✓ Soporte para SafeFlow 1.8 AS17000
- ✓ Lámpara UV para SafeFlow 0.9 AK18000
- ✓ Lámpara UV para SafeFlow 1.2 e 1.8 AKB0000 ...y muchos más. Mira el PDF Ficha Técnica

Especificaciones técnicas

Modelos	Dimensiones		Peso (kg)
	internas (mm) largo/ancho/alto	externas (mm) largo/ancho/alto	
SafeFlow 0.9	879x600x650	1055x792x1455	200
SafeFlow 1.2	1183x600x650	1360x792x1455	240
SafeFlow 1.8	1793x600x650	1970x792x1455	230

Technical features

- ✓ Fully EN12469 certified (by TÜV Hamburg and LNE Paris)
- ✓ The control panel registers operating hours of the fan, filters and UV lamp, provides information on the state of saturation of the filter, records of maintenance interventions and controls the fumigation with formalin cycle.
- ✓ Automatic fan control activates three alarm types, both acoustically and visually as to the parameters set for the air face velocity, the air velocity in the working chamber and the air velocity in expulsion.
- ✓ The fan is automatically controlled to maintain the recirculation and expulsion constant relationship progressive saturation conditions of the filters and the fluctuation of voltage.
- ✓ Controlling power interruptions logs events and automatically restarts the cabin. The commissioning and maintenance operations are controlled by two different passwords.
- ✓ Accessing the Maintenance menu, those responsible are the manufacturers default settings in the installation phase and can easily recalibrate the cabin after the change filters.
- ✓ There are two free functions available to allow the user to equip the cabinet with further accessories (eg removal kit)
- ✓ The software allows to manage a data transmission kit in hyperterminal on PC and enjoy a continuity (accessory) in order to avoid any cuts or power downs.
- ✓ Very silent and quite operation <54 dB(A) due to special soft plenum design and highly vibration-free suspensions of the fan(s)
- ✓ Air-and aerosol-tight electrical sliding sash with smart functions. User friendly swing-out feature for effective cleaning and sanitation of the inner glass surface
- ✓ UPS Emergency Power Supply Interactive emergency power supply for the safest power failure management of the Cabinet. In case of main power failure this device allows an adequate exit time for the operator in order to complete any unfinished tasks, and subsequently closes the front window and shutdown the cabinet automatically. Pre-failure operating conditions are resumed when power returns
- ✓ Automatic Sterilisation Cycle. (Optional kit: Formalin vaporiser and neutralising activated carbon filter exhaust kit) Fully automatic, self-operating fumigation cycle, operated by the microprocessor ...and much more. See PDF Technical sheet

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