

CRUMAFL-1

Cruma breaks with the tradition of removable laminar flow cabinets offering the new **Cruma FL-1**, an innovative cabinet whole body.

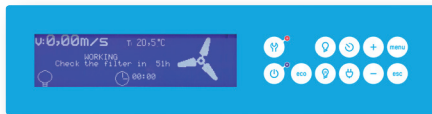
Furthermore, the new cabinet **Cruma FL-1** combines a striking and unique exterior design with the best technology and internal development. However, to meet the operator in his everyday work and protect it in their work caring for the environment.



USES

- ✓ Laboratory food industries in general
- ✓ Transfer of drugs in the pharmacy department
- ✓ Hematology and clinical analysis
- ✓ Filled with antibiotics and injectable drugs (except cytostatic) microscopic analysis
- ✓ Tissue culture bags reconstitution of parenteral methods of assisted fertilization techniques
- ✓ Micropropagation techniques. Plant cell cultures.
- ✓ Water quality control
- ✓ Manufacturing of electronic devices...

NEW FEATURES



More information on the new LCD display

- ✓ New size 127x34mm display
- ✓ Type of filter installed, working hours, expiration date and next revision date
- ✓ Countdown timer
- ✓ Clock and calendar

New features and components

- ✓ Initial cycle flow adequacy and final purge cycle
- ✓ Fault LED
- ✓ Control of air flow through Microprocessor
- ✓ HEPA filters with electronic chip
- ✓ LED illumination

New alarms and scheduled warnings

- ✓ Next validation warning
- ✓ Few hours of filter life warning
- ✓ Countdown timer warning
- ✓ Expired filter alarm by hours
- ✓ Expired filter alarm by date
- ✓ Equipment without filter alarm



MAIN FEATURES

- ✓ **Manufacture:** outer surfaces made of cold rolled steel gray / ocher coating, stoveenamelled, resistant to the chemical compounds used for sterilization
- ✓ **Worktop:** the surface of the working chamber is in secured safety glass
- ✓ **Absolute HEPA H-14 filter** with flow equalizer, efficiency greater than 99.995% on 0.3 micron particles. Filter is in accordance with EN-779:1996 and EN-1822:1998
- ✓ **Fan:** centrifugal double suction, suitable to provide laminar flow in the workspace
- ✓ **Control panel with soft-touch keyboard** and switch for LED and optional UV lamps; the air speed is kept at a constant rate thanks to the HEPA filter which is electronically self-regulated, electronic control air speed and control key to slow it down
- ✓ **Lighting:** LED lamp placed in the central part of the cabinet, for a better light distribution over the working surface

TECHNICAL INFORMATION

Number of filtering columns	1
Number of IP44 fans	1
Average face velocity	0,40 m/s
Total electrical power consumption	226 W
Voltage/Frequency	110-220 V / 50-60 Hz
Illumination level LED	900 Lux
UV germicidal lamp	15W
Noise level	50 dB
Packaging: 100% recyclable Wood box with international phytosanitary certificate	Volume 0,74 m ³ Weight 112 Kg

It is not a typographical error,
7 year warranty

Because we are convinced of the quality of our products.



*More information
www.cruma.es

Well done, well shipped.
Our responsible packaging

Wood box 100% recyclable with international phytosanitary certificate.



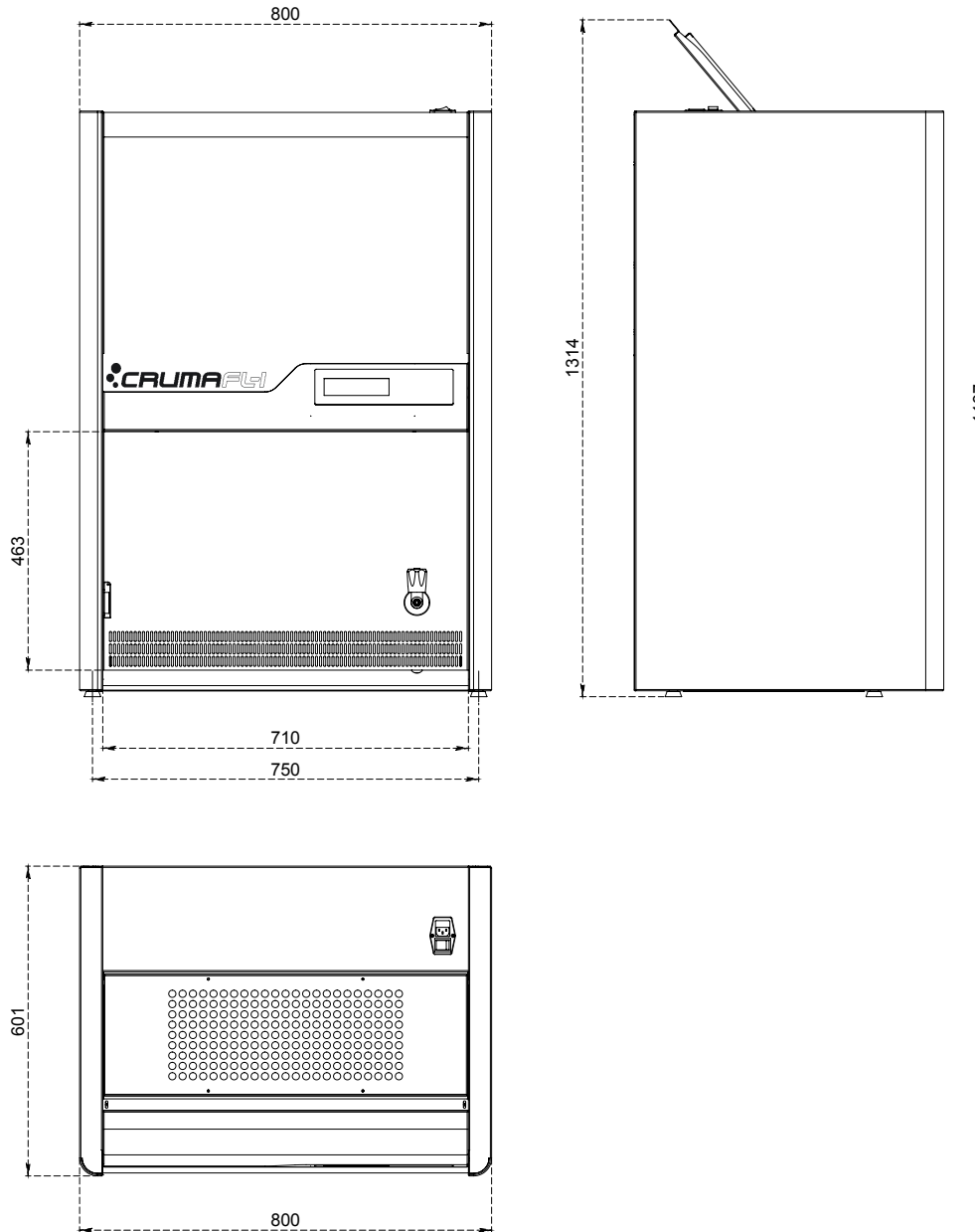
Do you need help or
technical assistance?

Contact your distributor or call us if you have any questions or need technical support, spare parts, maintenance service...

+34 93 370 61 62

CRUMAFL-1

SIZES (mm)



SIZES (mm)

Exterior			Interior		
Width	Depth	Height	Width	Depth	Height
800	600	1137	710	556	610

STRUCTURE

Metallic parts	1.2 mm galvanized steel, coated with antiacid polymer powder resin thermo-hardened at 200 °C
Front Panel	Transparent polymethylmethacrylate 6 mm thick (light transmission of 93%)

CRUMAFL1**STANDARD EQUIPMENT**

Electronic circuit with large format LCD display	Security levels: level 1 for users and level 2 for maintenance users
Filters controlled by microprocessor	The filters are provided with a microchip with mini USB connection identifying the type of filter installed, the expiry date and the serial number
Illumination	96 LED high light intensity and low consumption 16 Watts / 900 Lux
Digital timer with audible warning	Hourmeter for the control and warning of the work in the cabinet
Electrical plug	Placed in the internal roof of the cabinet and connected with the electronic circuit
Clock and Calendar	Display of date and time
Gas tap	Placed in the internal of the cabinet
Work surface	Liquid retention tray (2-10 liters) with working surface in white tempered glass
G4 prefilter	Pre-filtering class G4 biofibre synthetic blanket
Warranty	7 years

OPTIONAL EQUIPMENT

Tubular stand
Stand with wheels Movilair
Double gas tap
Vacuum tap
Double vacuum tap
Double electric socket

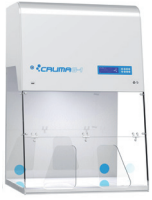
ACCORDING TO STANDARDS

Filters	EN-779: 1996 (HEPA & ULPA Filters)
	EN-1822:1998 (HEPA & ULPA Filters)
Quality	UNE EN ISO 9001:2015

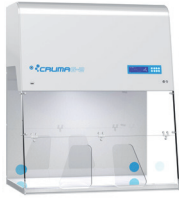
We recognise our responsibility and dependence towards a healthy environment and, therefore, we destinate more than 7% of our annual budget in innovating and developing new products for the lab operator

our **7%** engagement

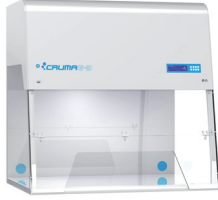
CRUMA
PLUG&PLAY RANGE



G-1



G-2



G-3



G-4



G-5

CRUMA
CLASSIC RANGE



670



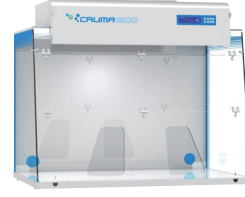
870



990



1010



1200



ECO



CRUMA
VENTED STORAGE
CUPBOARDS

2010

CRUMA
POWDER CABINETS

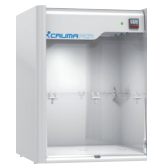


P-1



P-2

CRUMA
PCR CABINET



PCR

CRUMA
CO₂ INCUBATOR



INCUBATOR

CRUMA
LAMINAR FLOW CABINETS



670FL



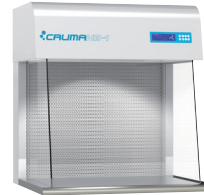
870FL



FL1



FL2



H2-1



H2-2

CRUMA
BIOSAFETY CABINETS



BIO-1



BIO-2



VIRUSFREE



CYTO-2&3

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