

# CRUMA 870FL

CRUMA vertical laminar flow hood with ISO Class 5 air purity creates a **sterile environment** free of particles and/or microorganisms that ensures the reliability of any test inside the hood. It incorporates a HEPA H-14 absolute filter whose minimum efficiency is of 99.995% for particles of 0.3 µm, and a 15W UV germicide lamp designed to decontaminate the hood before and after each use.

Cruma has updated the cabinet with the latest techniques for a better protection of the samples. In compliance with the EN-1822, DIN-24184, US St-209, ISO-14644, EN-ISO 9001:2000.

It includes **new important technical features** in order to satisfy the operator in his everyday task and his protection at work, taking care of the environment as well. All this with the same quality as always and up to 7 year guarantee.



## 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, 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 & 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 FEATURES

Number of filters	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
LED light intensity	900 Lux
UV germicidal lamp	15W
Noise level	50 dB
<b>Packaging:</b> 100% recycled wooden box with international phytosanitary certificate	Volume 0,42 m <sup>3</sup> Weight 92 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](http://www.cruma.es)

Well done, well shipped.  
**Our responsible packaging**

Wood box 100% recyclable with international phytosanitary certificate.

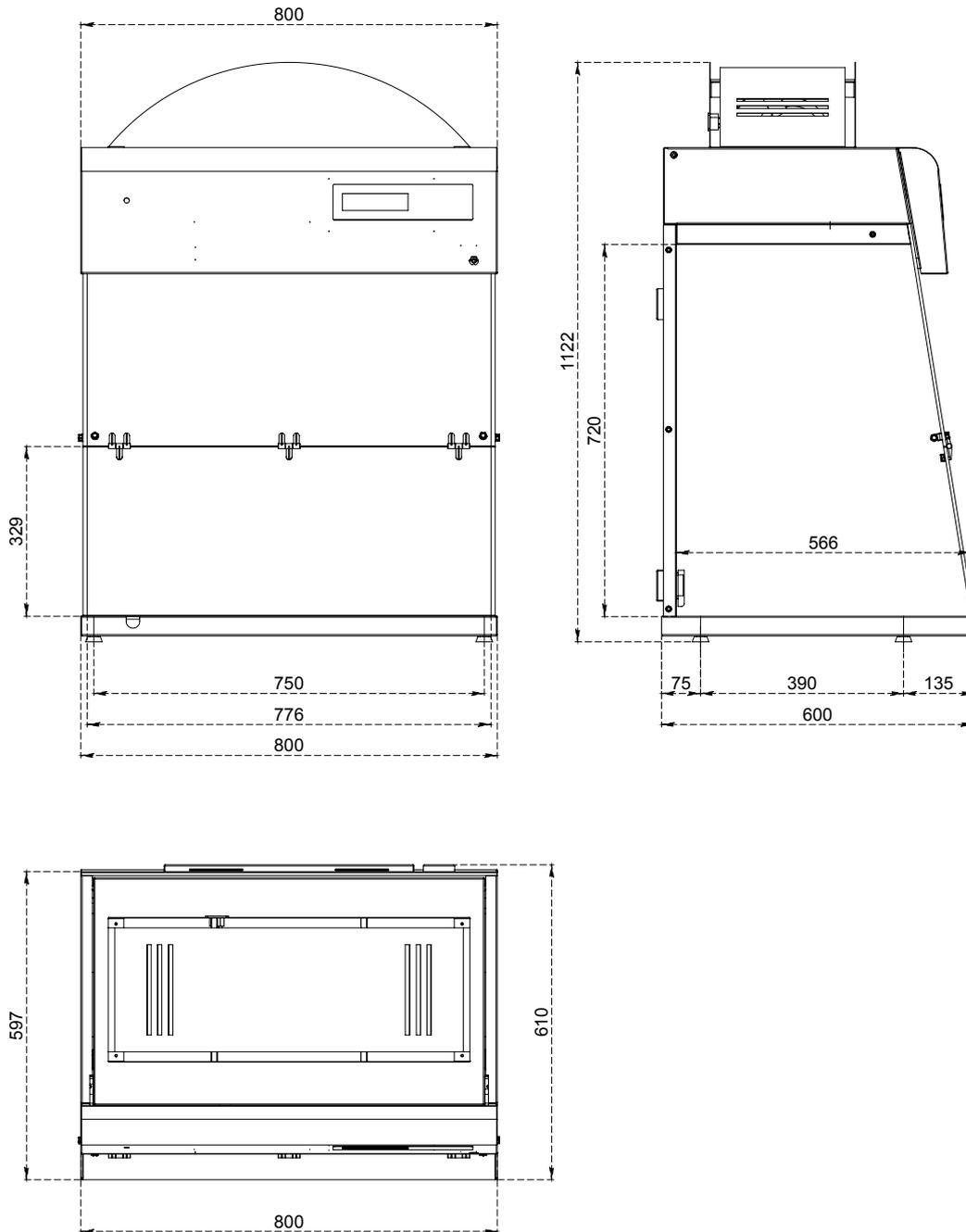


Do you need help or  
**technical assistance?**

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

**+34 93 370 61 62**

## SIZES (mm)



### SIZES (MM)

External			Internal		
Width	Depth	Height	Width	Depth	Height
800	600	1125	775	560	740

### MAIN STRUCTURE

Metallic parts	1.2 mm galvanized steel, coated with antiacid polymer powder resin thermo-hardened at 200 °C
Side Panels	Transparent polymethylmethacrylate 8 mm thick (light transmission of 93%)

# CRUMA 870FL

## SERIAL 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
Clock and Calendar	Display of date and time
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
Gas tap
Double gas tap
Vacuum tap
Double vacuum tap
Electric socket
Double electric socket

## ACCORDING TO STANDARDS

Filters	CSA Z 316.5-94 (Canada) EN-779: 1996 (HEPA & ULPA Filters) EN-1822:1998 (HEPA & ULPA Filters) EN-141:2001 (Gas 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

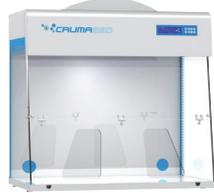
**CRUMA**  
CLASSIC RANGE



670



670



990



1010



1200



ECO



**CRUMA**  
VENTED STORAGE  
CUPBOARDS

2010

**CRUMA**  
POWDER CABINETS



P-1



P-2

**CRUMA**  
PCR CABINET



PCR

**CRUMA**  
CO<sub>2</sub> INCUBATOR



INCUBATOR

**CRUMA**  
LAMINAR FLOW CABINETS



670FL



670FL



FL1



FL2



H2-1



H2-2

**CRUMA**  
BIOSAFETY CABINETS



BIO-1



BIO-2



VIRUSFREE



CYTO-2&3

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