HORIZONTAL LAMINAR FLOW CABINET TO PROTECT THE SAMPLE

CRUMA HZ-1

The new **Cruma HZ-1** is our little horizontal laminar flow cabinet Class ISO 5 (former class 100) ideal for works that should ensure the protection of the products against external and cross-contamination.

The unique mounting system of the sidewalls, positioned inside the perimeter of the filter, prevents contaminants from entering into the work area through the same filter frame thanks to the Venturi-effect.

The air passes through a polyurethane fiber G-4 prefilter and it is pushed by the fan to the retention plenum, then goes through the absolute H-14 HEPA filter and reaches the working chamber. The airflow leaving the H-14 filter placed in front of the operator, at a constant speed, creates an ISO 5 sterile area removing any possible contaminants from the product you are working with.



USES

- √ Parenteral bags reconstruction
- √ Assisted reproductive technologies
- √ Micropropagation
- √ Plant Cell Cultures
- √ Food and water quality control
- √ Dust Protection in optics and electronics industry

NEW TECHNICAL FEATURES

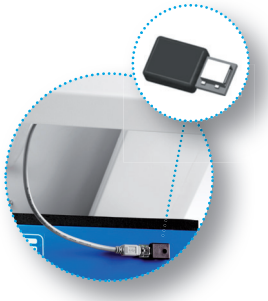


More info on the new LCD screen

- √ Large format 127x34mm
- √ Type of filter installed, working hours, expiry date and next revision
- √ Countdown Timer
- √ Clock and calendar

New features and components

- √ Initial cycle flow adequacy and final cycle purge
- √ Fault LED indicator
- √ Air Flow Control by Microprocessor
- √ HEPA filters with electronic chip
- √ LED Lighting



New alarms and warnings

- √ Next Validation
- √ Few hours of filter life
- √ Countdown timer
- √ Filter has expired (hours of use)
- √ Filters has expired (expiry date)
- √ Cabinet without filter

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 stainless steel AISI 304 2B
- √ Acrylic transparent side walls
- √ **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
- √ Filter life timer
- √ **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		0,50 m/s
Total electrical power consumption		244 W
Voltage/Frequency		110-220 V / 50-60 Hz
Illumination level LED		900 Lux
Noise Level		45 dB
Packaging: 100% recyclable Wood box with international phytosanitary certificate	Volume	0,385 m^3
	Weight	80 Kg

It is not a typographical error, *7 year warranty*

Because we are convinced of the quality of our products.

7 YEARS GUARANTEE / 7 AÑOS GARANTÍA

*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?*

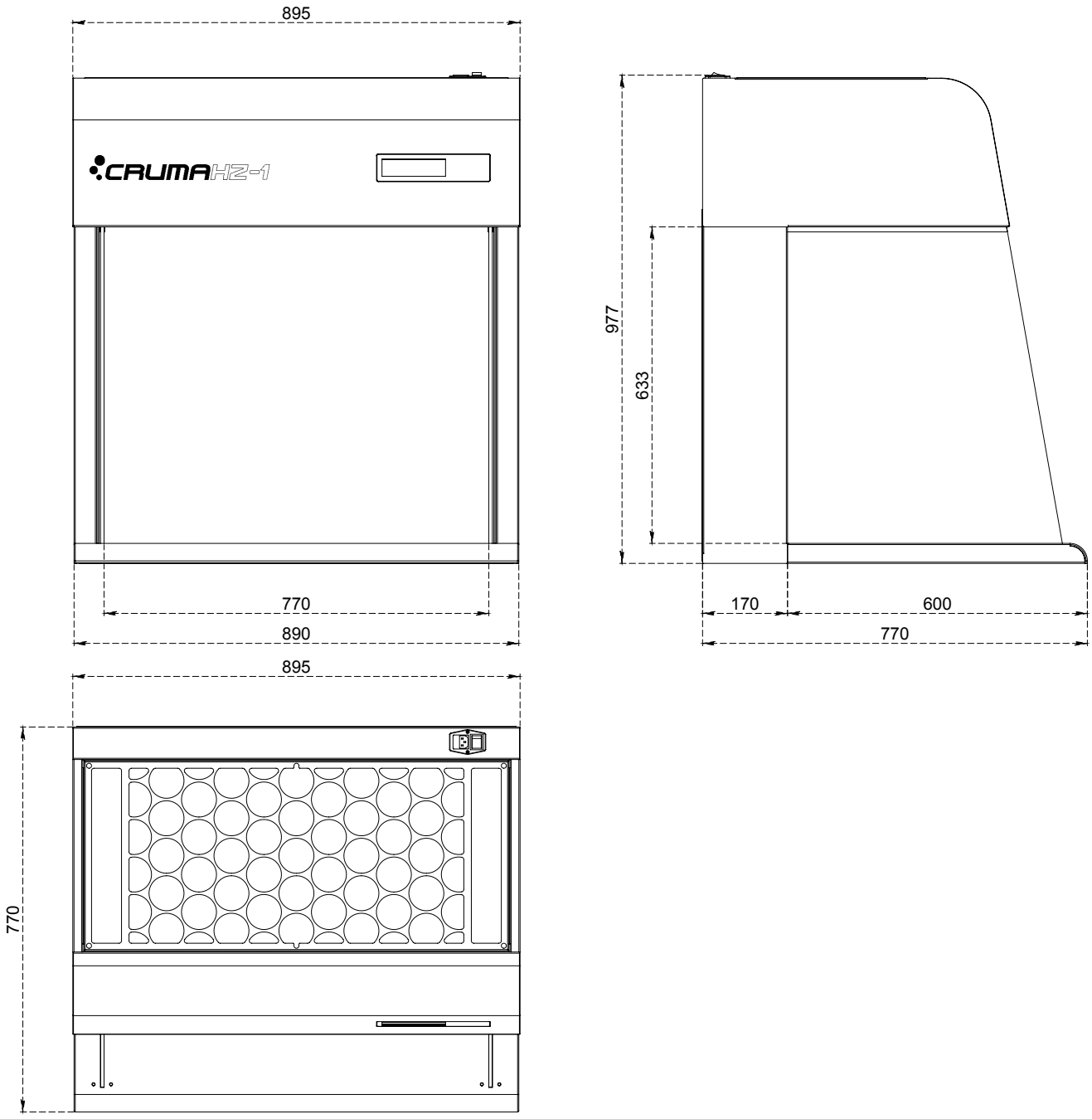
Contact your distributor or call us if you have any questions or need technical support, spare parts, maintenance service...

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CRUMA HZ-1

SIZES (mm)



SIZES (mm)

Exterior			Interior		
Width	Depth	Height	Width	Depth	Height
895	771	971	700	600	633

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
Laboratory equipment made in Barcelona

CE

LLOYD'S REGISTER QUALITY ASSURANCE · ISO9001

HORIZONTAL LAMINAR FLOW CABINET TO PROTECT THE SAMPLE

CRUMA HZ-1





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 conmuted with the electronic circuit
Clock and Calendar	Display of date and time
Steel work surface	Worktop of stainless steel surface AISI 304 2B
G4 prefilter	Pre-filtering class G4 biofibre synthetic blanket
Warranty	7 years

OPTIONAL EQUIPMENT

Tubular stand
Portable UV light (2 x 15 Watt UV lamps)

COMPLIANCE TO STANDARDS

Filters	EN-779: 1996 (HEPA & ULPA Filters) EN-1822:1998 (HEPA & ULPA Filters)
Quality	UNE EN ISO 9001:2008



we recognise our responsibility
and dependence towards a healthy environment
and, therefore, donate 1% of our annual
sales to environmental organisations
around the world.

A. Canals

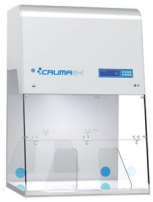
our 1% engagement

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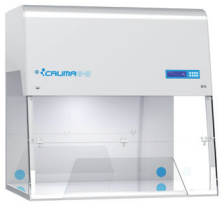
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Laboratory equipment made in Barcelona

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CRUMA
PLUG&PLAY RANGE


G-1


G-2


G-3

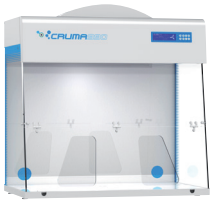

G-4


G-5

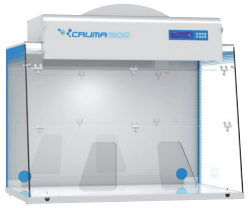
CRUMA
CLASSIC RANGE


670

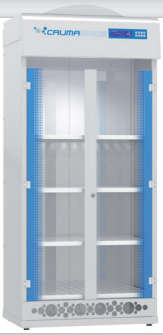

870


930


1010


1200


ECO



CRUMA
VENTED STORAGE CUPBOARDS

2010

CRUMA
POWDER CABINETS


P-1


P-2

CRUMA
PCR CABINET


PCR

CRUMA
CO_2 INCUBATOR


INCUBATOR

CRUMA
LAMINAR FLOW CABINETS


670FL


870FL


FL-1

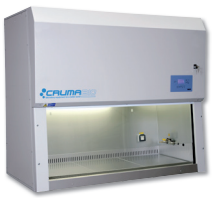

FL-2

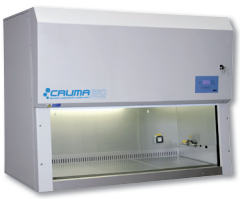

HZ-1


HZ-2

CRUMA
BIOSAFETY CABINETS


BIO-1


BIO-2


BIO-3


VIRUSFREE


CYTO-2&3

DISTRIBUTED BY:

Pol. Ind. Estruch - Carrer Moreres, 51 - 08820 El Prat de Llobregat - Barcelona
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