CRUMA HZ-2

The new **Cruma HZ-2** is our large horizontal laminar flow cabinet Class ISO 4 (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 4 sterile area removing any possible contaminants from the product you are working with.
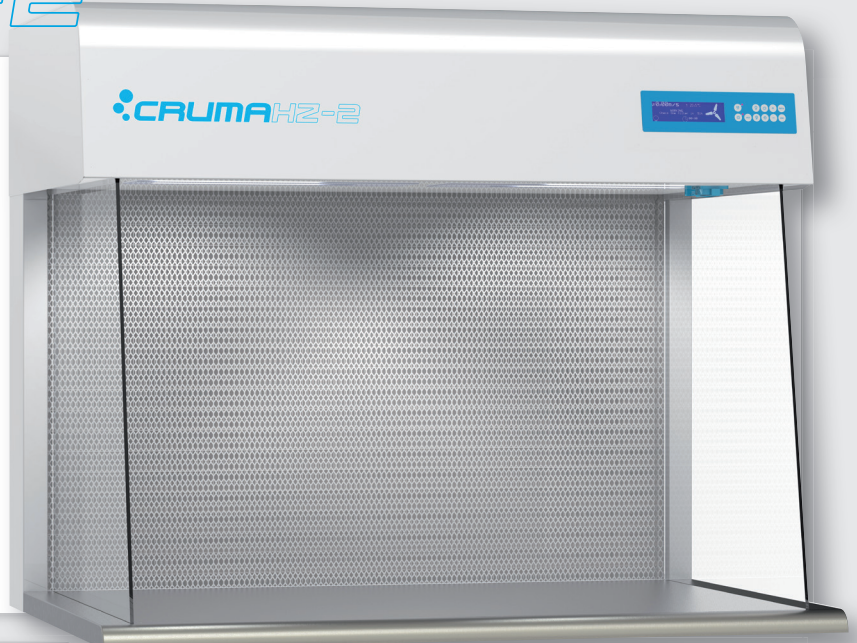
USES

√ 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
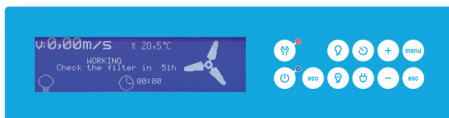
More info on the new LCD screen

√ 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
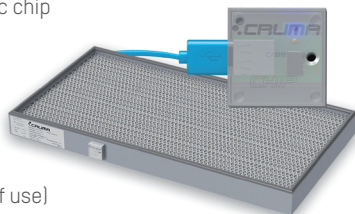
MAIN FEATURES

√ **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
√ **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		2
Average face velocity		0,45 m/s
Total electrical power consumption		406 W
Voltage/Frequency		110-220 V / 50-60 Hz
Illumination level LED		1500 lm
Noise Level		58 dB
Packaging: 100% recyclable Wood box with international phytosanitary certificate	Volume	0,65 m³
	Weight	120 Kg

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

Because we are convinced of the quality of our products.

7 YEARS GUARANTEE / AÑOS GARANTIA

*More information www.cruma.es

Well done, well shipped. *Our responsible packaging*

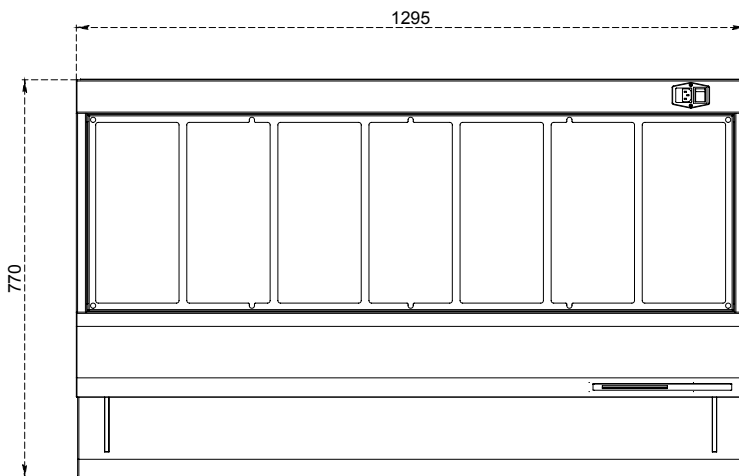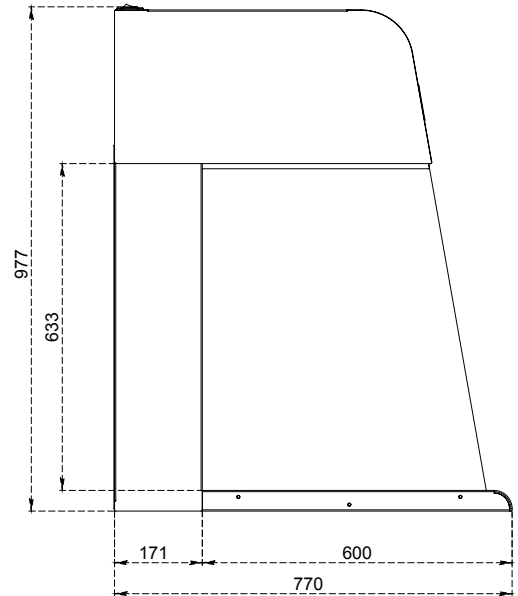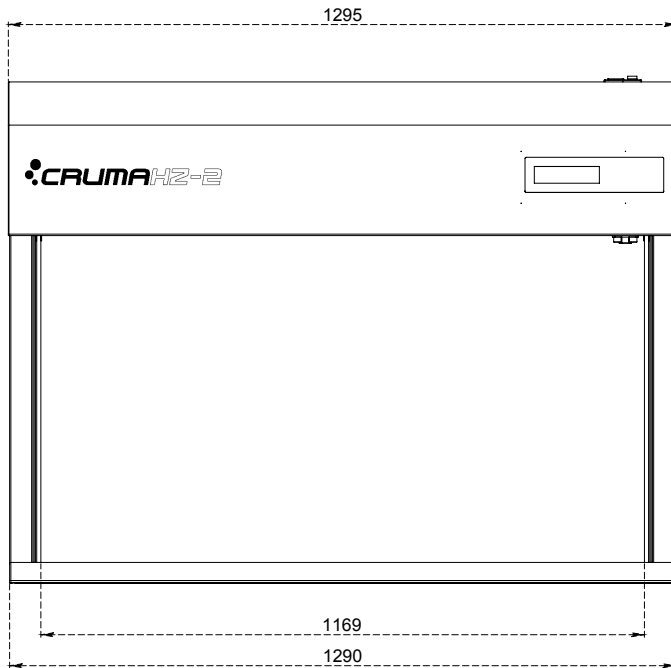Wood box 100% recyclable with international phytosanitary certificate.

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

CRUMA
Laboratory equipment made in Barcelona

www.cruma.es   export@cruma.es

CE   our engagement

HORIZONTAL LAMINAR FLOW CABINET TO PROTECT THE SAMPLE

CRUMA HZ-2

SIZES (mm)

SIZES (mm)

	Exterior			Interior	
Width	Depth	Height	Width	Depth	Height
1295	**770**	**977**	**1169**	**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

CRUMA HZ-2

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 chip with USB connection identifying the type of filter installed and the expiry date
Illumination	96 LED high light intensity and low consumption 16W /1500lm
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	UNE EN ISO 16890:2017 EN-1822:2010 (HEPA & ULPA Filters)
Quality	UNE EN ISO 9001:2015

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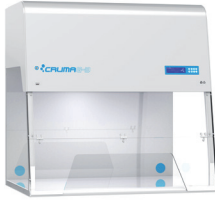innovating and developing new products for the lab operator

our 7% engagement

CRUMA
Laboratory equipment made in Barcelona

CRUMA
Laboratory equipment made in Barcelona

CRUMA
PLUG&PLAY RANGE
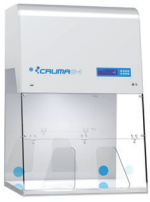
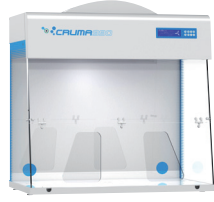G-1 G-2 G-3 G-4 G-5

CRUMA
CLASSIC RANGE
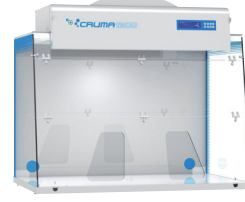
670 870 930 1010 1200 ECO

CRUMA
VENTED STORAGE CUPBOARDS

2010

CRUMA
DUCTED FUME HOOD FOR ACIDS

H+

CRUMA
POWDER CABINETS

P-1 P-2

CRUMA
PRECISION WEIGHING CABINET
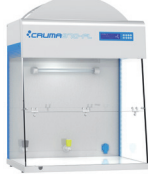
W-2

CRUMA
PCR CABINET

PCR

CRUMA
LAMINAR FLOW CABINETS
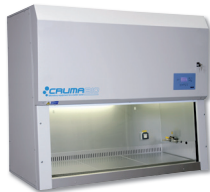
670FL 870FL FL-1 FL-2 HZ-1 HZ-2

CRUMA
BIOSAFETY CABINETS

BIO-1 BIO-2 VIRUSFREE CYTO-2&3
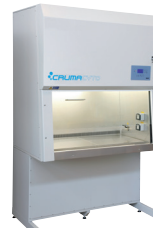
CRUMA
CO$_2$ INCUBATOR

INCUBATOR

DISTRIBUTED BY:

our 7% engagement

CERTIFIED LR
ISO 9001