

CRUMA 1200XL



The ductless fume hood **Cruma 1200XL** is our Classic Range cabinet with the **largest interior volume and working height**. Specially designed to work with high instruments. Perfect to remove gaseous polluting agents and/or solid particles/aerosols from the working space in a simple, efficient and cost effective way, protecting both the user and the environment. CRUMA 1200 ductless fume hood uses the CRUMA filtration system, without any exterior connection.

PROTECTION OF AND RESPECT FOR THE ENVIRONMENT –The toxic chemical products are not released outside but retained within the filter.

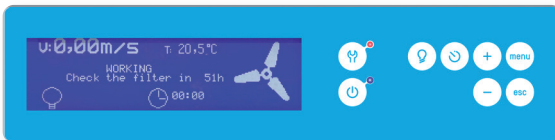
COST SAVINGS AND FAST SET UP –No building work is needed to install ducts to channel the gas outside, which means fewer problems for a laboratory working at full capacity.

FLEXIBLE –It can be used in areas where it is difficult to remove/extract contaminated air, such as from the lower levels in buildings that have a number of floors.

ENERGY SAVINGS –The air that is sucked in is not expelled but recirculated back into the lab after the contaminating substances have been removed. This means that it is not necessary to increase the use of the air-conditioning or heating systems to compensate for the air removed.

CERTIFIED –Manufactured in Spain and certified by an external laboratory according to international standards and applying the criteria of ISO 9001.

NEW FEATURES



More information on the new LCD display

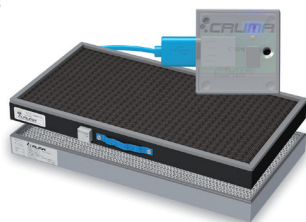
- ✓ Large-format display 127x34 mm
- ✓ Air speed continuously monitored
- ✓ Type of filter installed, working hours, expiration date and next revision date
- ✓ Open door warning through electronic photocell
- ✓ Countdown timer
- ✓ Clock and calendar

New features and components

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

New alarms and scheduled warnings

- ✓ Open door warning
- ✓ Open door in off mode warning
- ✓ 60h of filter use warning
- ✓ 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
- ✓ Low barrier alarm



USES

Small-scale handling of chemicals at ambient or moderate temperatures in all types of laboratories:

- ✓ Research laboratories
 - ✓ Quality control laboratories
 - ✓ Clinical and hospital laboratories
 - ✓ University and school laboratories
- ...In general, in any kind of laboratory.

TECHNICAL FEATURES

Number of filtration columns	1
Number of filters	1 to 2
Number of IP44 fans	1
Average volume of treated air	160 m ³ /h
Average face velocity	0.50 m/s
Internal volume of the cabinet	1.258 m ³
Average air renewal inside the cabinet / min	2.1
Total electrical power consumption Voltage-	60 ± 3 W
Frequency	110-230 V - 50-60 Hz
LED light level	800 lx
Noise level	58 ± 3 dB
Packaging: 100% recycled wooden box with international phytosanitary certificate	Volume 0.65 m ³ Weight 123 Kg

SIZES (mm)

External			Internal		
Width	Depth	Height	Width	Depth	Height
1200	1000	1422	1176	967	1106

It is not a typographical error,
10 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.



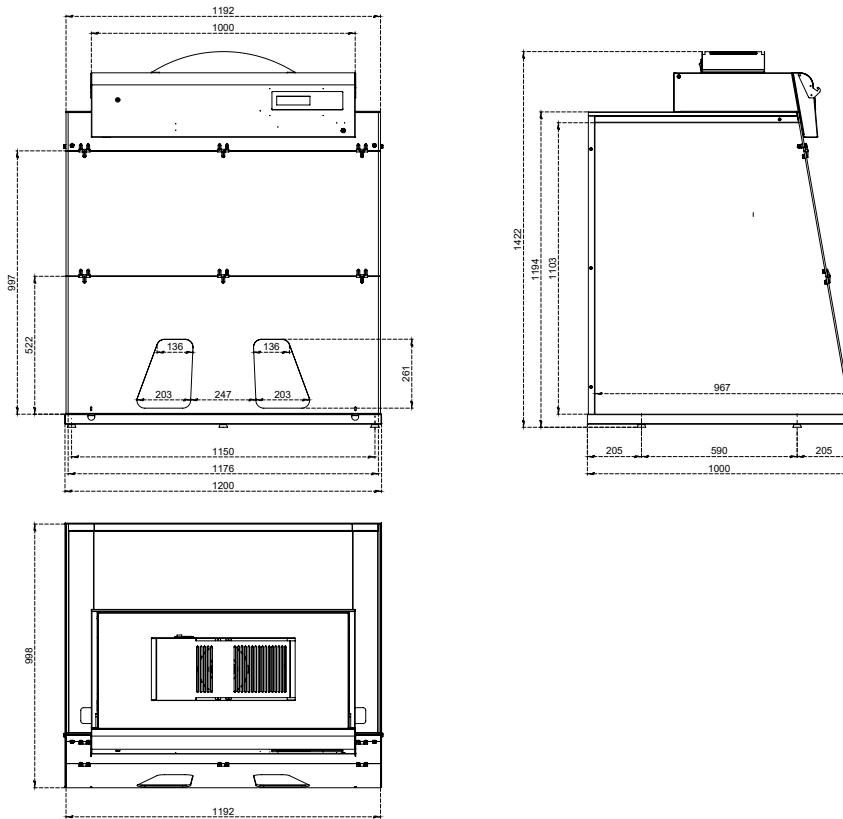
Do you need help or
technical assistance?

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

+34 93 370 61 62

CRUMA1200XL

SIZES (mm)



SERIAL EQUIPMENT

Electronic circuit with large format LCD screen	Security level: User (level 1) and Advanced (level 2)
Electronic anemometer device	Electronic sensor monitoring continuously air face velocity
Photocell sensor device for open door detection	Electric device with open door alarm
Electronic control device for filters replacement	The filters incorporate a chip with USB connection that identifies the type of filter installed, expiry date and the serial number
Illumination	LED Tube high light intensity and low power consumption - 15W / 800 lux
Exhausted air sampling probe	Detection system for the level of the filter medium
60 hours alarm	Countdown timer according to French NF X 15-211:2009
Electronic chronometer with audible alarm	For the supervision and control of work carried out in the fume hood
Clock and calendar	Display of date and time
Working surface 1	Spill retention tray (2-10 liters) with working surface in white tempered glass
64 Prefilter	64 class pre-filtering blanket of synthetic biofibres (according to EN-779) for the retention of atmospheric dust
Wall grommets (2)	Accesses in the rear wall for cables and/or services entry
Chemical Listing	Guide of retained products by type of filter
Warranty	10 years

OPTIONAL EQUIPMENT

Movilair	Wheel stand with inner shelf made of anti corrosion epoxy coated steel
Tubular stand	Made of anti corrosion epoxy coated steel
Working surface 2	Spill retention tray (2-10 liters) with working surface in stainless steel
Transparent rear wall	In transparent polymethyl methacrylate (PMMA), 8 mm thick. Light transmission 93%. Ideal for teaching.
Voltage / Frequency	125 V / 50 Hz
Filter test kit	Dräger pump with reactive colorimetric tubes (pack 10u)

MAIN STRUCTURE

Metal parts: base frame, rear wall and head	In 1.2 mm galvanized steel coated with anti-corrosion thermosetting polymer resin hardened at 200 °C
Front and side panels	In transparent polymethyl methacrylate (PMMA), 6 mm thick. Light transmission 93%



CRUMA1200XL

FILTER TYPES


Type A	Suitable for organic vapours such as ketones, ethers, alcohols, aromatic compounds, etc. Eventually, it may be used with inorganic acids, but only if used in small quantities, because this activated carbon is not impregnated and an excess of acid vapours would quickly saturate it.	Type K	Suitable for ammoniacal vapours (NH₃) and amines ; as well as for other organic compounds. In this case, the carbon is impregnated with oxoacids.
Type BE	For inorganic acid vapours such as H ₂ SO ₄ , HCl, HNO ₃ and volatile sulphur compounds such as H ₂ S, SO ₂ , etc. It is also recommended for filtering organic and inorganic compounds when they are produced in similar proportions, as activated carbon incorporates impregnations of metallic compounds and neutralising salts.	Type ABEK	Mixed type filter to be used when the proportions of organic, inorganic and NH₃ /amine vapours are similar.
Type F	For formaldehyde vapours, formol and derivatives , as well as for other organic compounds. Activated carbon is impregnated with KI.	Type D	HEPA filter (High Efficiency Particulate Air) H-14 with an efficiency of 99.995% against microparticles (according to EN-1822:2010). Suitable for the filtration of dusts, fumes and/or aerosols




MODULAR FILTRATION COLUMN FOR GASES AND PARTICLES (according to NFX 15-211:2009)

CLASS 2

Type G Handling of liquid products		Type GS Handling of liquid and powder products	
----------------------------------------------	-----------------------------------------------------------------------------------	----------------------------------------------------------	-----------------------------------------------------------------------------------

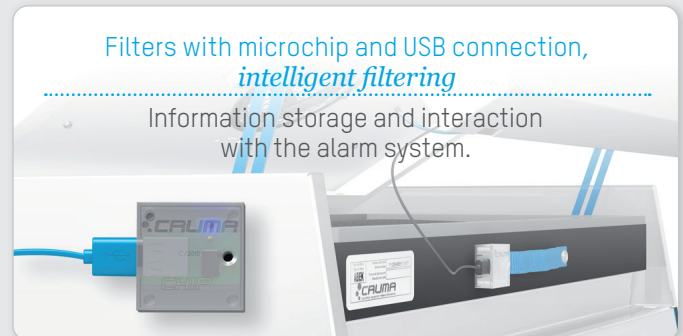
POWDERS FILTRATION COLUMN

Type D Handling of powder products	
----------------------------------------------	-------------------------------------------------------------------------------------

 Fan
  Gas Filter
 Particle Filter (HEPA H-14)

ACCORDING TO STANDARDS

Cabinets / Fume Hoods	AFNOR NF X 15-211:2009 (France) BS EN 14175:2012 BS 7989: 2001 (UK)
Filters	UNE EN ISO 16890:2017 UNE EN 14387:2004 A1:2008 EN-1822:2010 (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

PLUG&PLAY RANGE



G-1



G-2



G-3



G-4



G-5

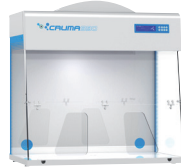
CLASSIC RANGE



E70



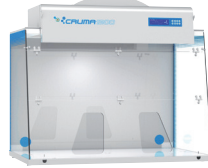
E70



S90



1010



1200

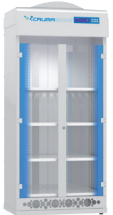


1200XL



ECO

VENTED STORAGE CUPBOARDS



2010



ECO

POWDER CABINETS



H+

POWDER WEIGHING CABINETS



P-1



P-2

PRECISION WEIGHING CABINET



W-2

LAMINAR FLOW CABINETS



E70FL



E70FL



FL-1



FL-2

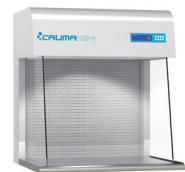
PCR CABINETS



PCR



PCR-V



H2-1



H2-2



H2-3

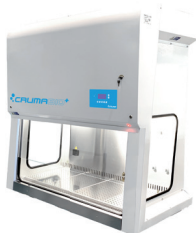


H2-4

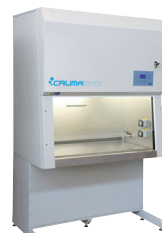
BIOSAFETY CABINETS



BIO+



VIRUSFREE



CYTO-2&3

CO₂ INCUBATOR



INCUBATOR