

CRUMA G-1

The new Cruma G-1 is perfect to remove low quantities of gaseous polluting agents and/or solid particles/aerosols from its working area in a simple, secure, efficient and cost effective way, protecting both the user and the environment.

Cruma G-1 ductless fume hood uses the patented Cruma Filtration System, without any exterior duct connection. All molecular and dust particles are absorbed and retained into the filtration system.

CERTIFIED –Made in Barcelona and certified by an external laboratory according to international standards, and complying with the criteria of ISO 9001 standard.

PLUG&PLAY –It is sent from our warehouse assembled, and when unpacked it just needs to install the filters and connect into a plug.

FLEXIBLE –It can be used in hard-to-duct areas such as the center or bottom level of multi-level buildings.

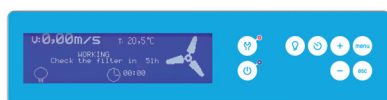
TURNKEY –Installation expenses are far less than traditional hoods because no ductwork and remote blower are required.

GREEN & SUSTAINABLE –Unlike traditional fume hoods, costly tempered room air is not exhausted from the laboratory, resulting in lower energy costs.



NEW FEATURES

More information on the new LCD display



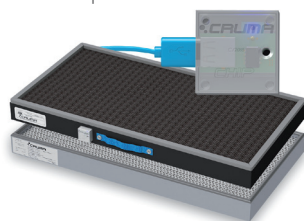
- ✓ New size 127x34mm display
- ✓ Air speed continuously monitored
- ✓ Type of filter installed, working hours, expiration date and next revision date
- ✓ Open door warning through electronic photocell
- ✓ Countdown timer
- ✓ Clock and calendar

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
- ✓ Internal temperature sensor
- ✓ LED illumination

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)
- ✓ Temperature alarm
- ✓ Equipment without filter alarm
- ✓ Low barrier alarm



USES

General chemistry involving small volumes of reagents or chemical compounds at ambient/moderate temperature 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 3	
Number of IP44 fans	1	
Average volume of treated air	160 m³/h	
Average face velocity	0,50 m/s	
Internal volume of the cabinet	0,32 m³	
Renewals inside the cabinet / min	8,13	
Total electrical power consumption	60 W	
Power supply ¹	220-240 V ~ 50-60 Hz	
LED light intensity	1275 lux	
Noise level	54 dB	
Packaging: 100% recycled wooden box with international phytosanitary certificate	Volume	0,80 m³
	Weight	95 Kg

¹ On request available for 110 V / 127 V.

SIZES (mm)

External Dimensions			Internal Dimensions		
Width	Depth	Height	Width	Depth	Height
797	650	1195	776	600	762

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.

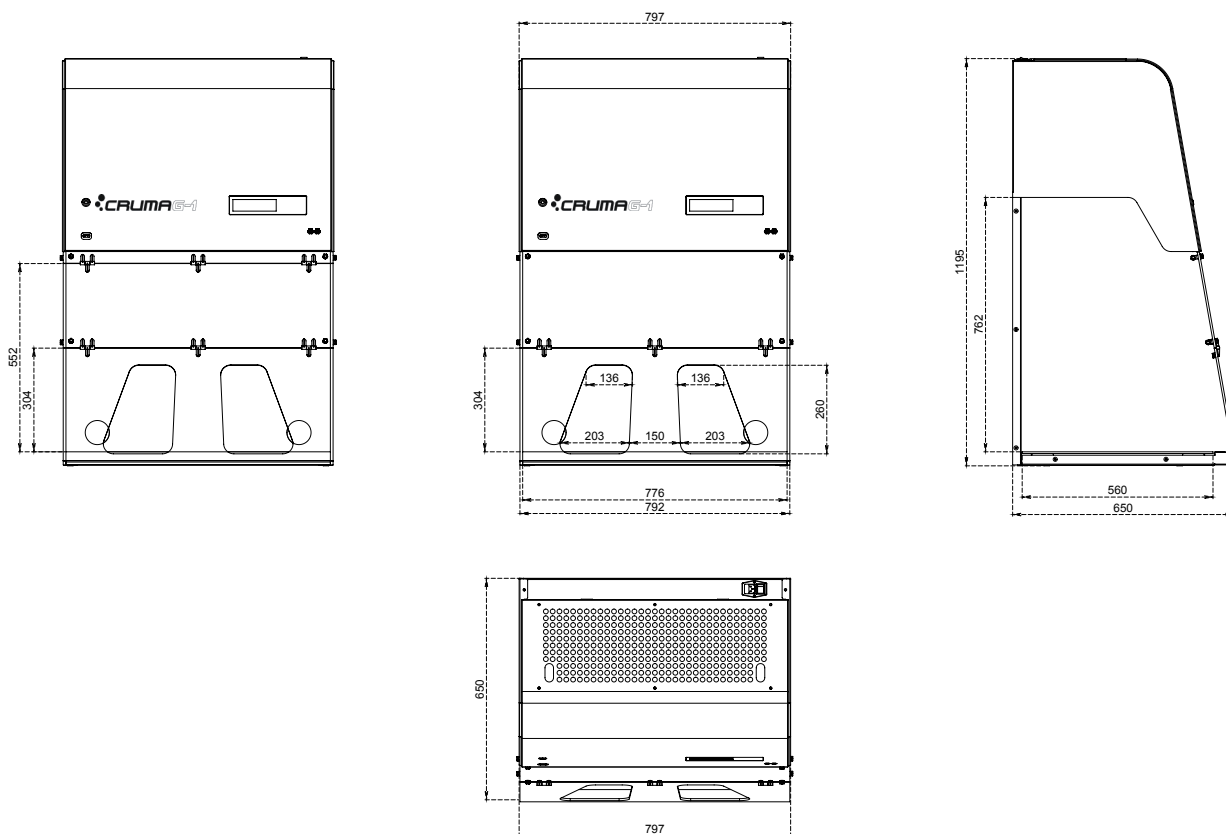


Do you need help or
technical assistance?

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

+34 93 370 61 62

SIZES (mm)



SERIAL EQUIPMENT

Electronic circuit with large format LCD screen	Security levels: level 1 for users and level 2 for maintenance users
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 and the expiry date
Illumination	LED Tube high light intensity and low power consumption - 16 Watts / 1500lm
Temperature sensor	Continuous monitoring of the temperature inside the cabinet
Sampling system to analyze the filtered air at the exhaust	To detect the level of filter saturation
60 hours alarm	Countdown timer according to French NF X 15-211:2009
Electronic cronometre with audible alarm	To program the work inside 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
G4 Prefilter	G4 class pre-filtering blanket of synthetic biofibres (according to EN-779) for the retention of atmospheric dust
Cable entry holes (2)	Access to 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	Stand with wheels and internal tray in Epoxy coated steel
Tubular steel stand	Support stand in Epoxy coated steel
Working surface 2	Spill retention tray (2-10 liters) with working surface in inox steel
Filter test kit	Dräger pump with reactive colorimetric tubes (pack 10u)

MAIN STRUCTURE


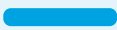









Metal parts: base frame, rear wall and head	1.2 mm galvanized coated steel with anti acid polymer resin powder heat-hardened at 200 °C
Front and side panels	Transparent polymethylmethacrylate 6 mm thick (light transmission of 93%)

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FILTER TYPES

Type A	For organic vapors such as ketones, ethers, alcohols, xylenes ... Eventually it can be used for inorganic acids, but only if used in small quantities because this activated carbon is not impregnated and the excess of acid vapors could saturate it quickly.	Type K	For NH₃ vapors and amines ; also good for other organic compounds. Carbon with metal salt complexes impregnation.
Type BE	For inorganic acid vapors as H ₂ SO ₄ , HCl, HNO ₃ , and volatile sulfur compounds such as H ₂ S, SO ₂ , ... It can be used with organic vapors because the activated carbon incorporates impregnation of metal compounds and neutralizing salts. It is also suitable to filter organic and inorganic compounds when they are in similar proportions.	Type ABEK	Mixed type to be used when the ratios between organic, inorganic and NH ₃ /amines are similar.
Type F	For formaldehyde vapors and derivatives; also good for other organic compounds. Carbon impregnated with KI, so that it should never be used with inorganic acid vapors.	Type D	HEPA H-14 filter (High Efficiency Particulate Air, according to EN-1822: 2010) for filtering dust and smoke particles.

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

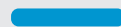
CLASS 2		CLASS 1	
Type G Handling of liquid compounds/products	 	Type 2G Liquid compounds/ products handling with security molecular filter	 
Type GS Handling of liquid and particles compounds/ products	 	Type 2GS Liquid and particles compounds/products handling with molecular security filter	 
		Type 2GD Handling of liquid compounds in clean room with molecular security filter	  

FILTRATION COLUMN FOR POWDERS

Type D Handling of powder compounds	 
Type DD Handling of powder compounds in clean room	  
Type 2DD Handling of powder and molecular compounds in clean room with molecular security filter	  



Fan



Molecular Filter



HEPA-H14 Filter

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 EUNE EN 14387:2004 A1:2008 EN-1822:2010 (HEPA & ULPA Filters)
Quality	UNE EN ISO 9001:2015

Filters with microchip and USB connection,
intelligent filtering

Information storage and interaction
with the alarm system.



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



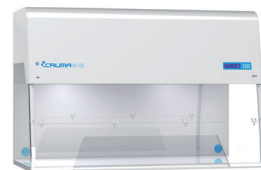
G-2



G-3



G-4



G-5

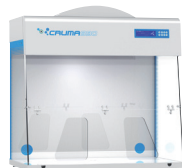
CLASSIC RANGE



670



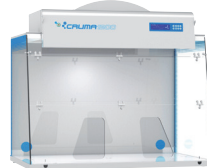
670



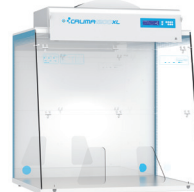
990



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



670FL



870FL

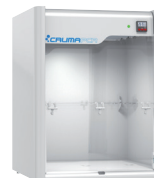


FL-1

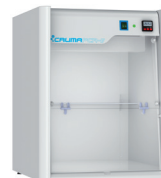


FL-2

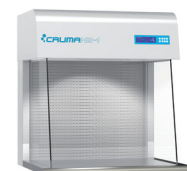
PCR CABINETS



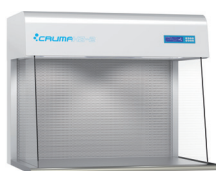
PCR



PCR-V



H2-1



H2-2



H2-3

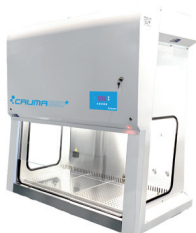


H2-4

BIOSAFETY CABINETS



BIO+



SOFEB



CYTO-2.3

CO₂ INCUBATOR



INCUBATOR