CRUMAG-0.5

The new Cruma G-0.5 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-0.5 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. *Invention Patent No.2397598

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

PLUGS PLAY –It is sent from our warehouse assembled, and when unpacked it just needs to be connected 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
- $\sqrt{\,}$ Type of filter installed, working hours, expiration date and next revision date
- \checkmark Open door warning through electronic photocell
- √ Countdown timer
- √ Clock and calendar

New features and components

- \checkmark 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
- \checkmark 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



General chemistry involving small volumes of reagents or chemical compounds at ambient/moderate temperature in all types of laboratories:

- √ Research laboratories
- √ Quality control laboratories
- \checkmark 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	Number of filters		
Number of IP44 fans		1	
Average volume of treated air	Average volume of treated air		
Average face velocity		0,50 m/s	
Internal volume of the cabinet		0,17 m ³	
Renewals inside the cabinet / min		15,37	
Total electrical power consumption Voltage-		91 W	
Frequency		110-220 V - 50-60 Hz	
LED light intensity		900 Lux	
Noise level		45 dB	
Packaging: 100% recycled wooden box	Volume	0,38 m ³	
with international phytosanitary certificate	Weight	50 Kg	

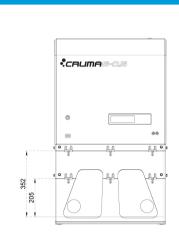
ı	SIZES (m	m)				
	Exte	rnal Dimensio	ons	Int	ernal Dimensio	ns
	Width 597	Depth 615	Height 995	Width 576	Depth 565	Height 562

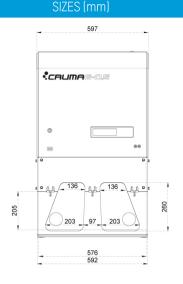


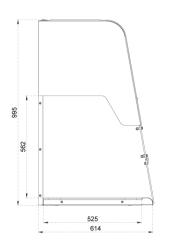


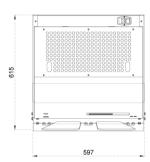


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SERIAL EQUIPMENT	
Electronic circuit with large format LCD screen	Security levels: level 1 for users and level 2 for maintenance users
Electronic anemometer device	Electronic sensor monitoring continuously air face velocity
Photocell sensor device for open door detection	Electric device with open door alarm
Electronic control device for filters replacement	The filters incorporate a microchip with miniUSB connection that identifies the type of filter installed, the expiry date and the serial no.
Illumination	96 LED Tube high light intensity and low power consumption - 16 Watts / 700 Lux
Temperature sensor	Continuous monitoring of the temperature inside the cabinet
Sampling system to analize 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	7 years

OPTIONAL EQUIPMENT	
Molecular detector	Automatic Alarm Device for detection of saturation in organic vapors filters (required for Class I according to standard NF X 15-211:2009)
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 phenolic resin
Working surface 3	Spill retention tray (2-10 liters) with working surface in inox steel
Transparent rear back pannel	Transparent polymethylmethacrylate rear pannel 8 mm thick (light transmission of 93%). Ideal for teaching sessions
Voltage / Frequency	125 V / 50 Hz
Filter test kit	Dräger pump with reactive colorimetric tubes (pack 10u)
Junction frame	Allows to join two units of the same model without internal divisions

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%)



FILTER TYPES			
Туре А	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.	Туре К	For NH3 vapors and amines ; also good for other organic compounds. Carbon with metal salt complexes impregnation.
Type BE	For inorganic acid vapors as H2S04, HCl, HN03, and volatile sulfur compounds such as H2S, S03, 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 NH3/amines are similar.
Туре F	For formaldehyde vapors and derivatives; also good for other organic compounds. Carbon impregnated with Cu leads, so that it should never be used with inorganic acid vapors.	Туре D	HEPA H-14 filter (High Efficiency Particulate Air, according to EN-1822: 1998) for filtering dust and smoke particles.

MODULAR FILTRATION COLUMN FOR GASES AND PARTICLES (according to NFX 15-211:2009)			
CLAS	SS 2	CLAS	S 1
Type G Handling of liquid compounds/products	<u>&</u>	Type 26 Liquid compounds/ products handling with security molecular filter	
Type GS Handling of liquid and particles compounds/ products	<i>&</i>	Type 26S Liquid and particles compounds/products handling with molecular security filter	& ************************************
		Type 26D Handling of liquid compounds in clean room with molecular security filter	& & &

Type D Handling of powder compounds	<u>&</u>
Type DD Handling of powder compounds in clean room	//////////////////////////////////////
Type 2DD Handling of powder and molecular compounds in clean room with molecular security filter	//////////////////////////////////////

ACCORDING TO STANDARDS		
Cabinets / Fume Hoods	AFNOR NF X 15-211:2009 (France) BS 7258: 94 (UK) BS 7989: 2001 (UK) ANSI/ASHRAE 110-1995 (USA)	
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 9001:2008	



