CRUMABIO

This model is perfect to be joined to another hood of similar measures or to a CRUMA 990. Ideal to remove from the working area gaseous polluting agents and/or solid particles/ aerosols in a simple, efficient and cost effective way, protecting both the user and the environment. **CRUMA 870** ductless fume hood uses the CRUMA filtration system.

Cruma ductless fume hoods designed to handle low toxic products are made of steel plate with antiacid polymerized epoxy coating and methylpropileno of high resistance.

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

 ${\rm COST}$ 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



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

New features and components

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

New alarms and scheduled warnings

- √ Open door warning
- \checkmark Open door in off mode warning
- √ 60h of filter use warning
- $\checkmark\,$ Next validation warning
- \checkmark 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

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

Because we are convinced of the quality of our products.





More information www.cruma.es

www.cruma.es export@cruma.es

Well done, well shipped.

Our responsible packaging

Wood box 100% recyclable with international

phytosanitary certificate.



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 a 2	
Number of IP44 fans		1	
Average volume of treated air	175 m³/h		
Average face velocity	0,50 m/s		
Internal volume of the cabinet	0,287 m ³		
Renewals inside the cabinet / min	10,2		
Total electrical power consumption		123 W	
Voltage-Frequency	220 V - 50 Hz		
LED light intensity	36 W / 800 Lux		
Noise level		48 dB	
Packaging: 100% recycled wooden box	Volume	0,42 m ³	
with international phytosanitary certificate	Weight	77 Kg	

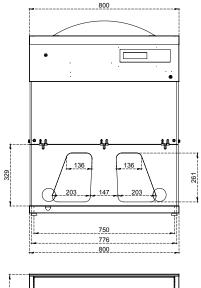
SIZES (M	1M)				
	External			Internal	
Width 800	Depth 600	Height 1122	Width 776	Depth 566	Height 720

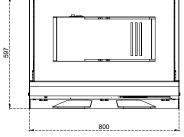


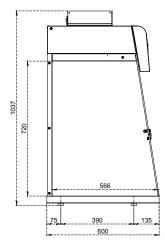
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SIZES (MM)







CEDI			IPMENT	
SERI	AL	EWU	IPMENT	

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
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	64 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		
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)	

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%)	

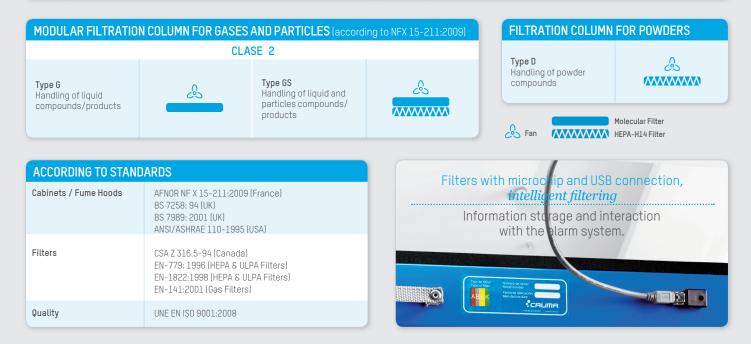




DUCTLESS FUME HOOD



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.	
Туре ВЕ	For inorganic acid vapors as H2SO4, HCl, HNO3, and volatile sulfur compounds such as H2S, SO3, 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.	Туре АВЕК	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.	





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