DUCTLESS FUME HOOD



To remove from a large 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 990 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



- √ New size 127x34mm display
- √ Air speed continuously monitored
- \checkmark 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





OVE BOX AUSTRALIA

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 2		
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	0,361 m ³		
Renewals inside the cabinet / min	7,35		
Total electrical power consumption	60±3W		
Voltage-Frequency	110-230 V - 50-60 Hz		
LED light intensity		15W / 1100 lux	
Noise level	57± 3 dB		
Packaging: 100% recycled wooden box	Volume	0,52 m ³	
with international phytosanitary certificate	Weight	90 Kg	

SIZES (MM)						
External			Internal			
Width 1000	Depth 600	Height 1037	Width 976	Depth 563	Height 730	

It is not a typographical error, 7 year warranty

Because we are convinced of the quality of our products.



More information www.cruma.es

Our responsible packaging Wood box 100% recyclable with international phytosanitary certificate. CRUMP



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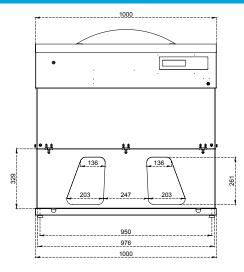
(R) our (P) engagement

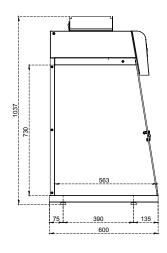


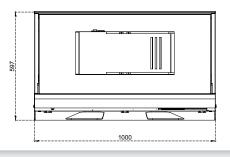




SIZES (MM)







SERIAL EQUIPMENT Electronic circuit with large Security levels: level 1 for users and level 2 for format LCD screen maintenance users Electronic anemometer Electronic sensor monitoring continuously air face device velocity Photocell sensor device Electric device with open door alarm for open door detection Electronic control device The filters incorporate a chip with USB connection that identifies the type of filter installed and the for filters replacement expiry date Illumination LED Tube high light intensity and low power consumption - 15W / 1100 lux Sampling system to analize To detect the level of filter saturation the filtered air at the exhaust 60 hours alarm Countdown timer according to French NF X 15-211:2009 Electronic cronometre To program the work inside the fume hood with audible alarm Clock and calendar Display of date and time Spill retention tray (2-10 liters) with working surface in Working surface 1 white tempered glass G4 class pre-filtering blanket of synthetic biofibres (according to EN-779) for the retention of atmospheric dust G4 Prefilter 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 stainless 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%)				











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 H_2SO_u , HCl, HNO ₃ , and volatile sulfur compounds such as H_2S , SO_3 , 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 NH ₃ /amines are similar.
Туре F	For formaldehyde vapors and derivatives; also good for other organic compounds. Carbon impregnated with KI 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: 2010) for filtering dust and smoke particles.

MODULAR FILTRATIO	N COLUMN FOR GAS	ES AND PARTICLES (accord	ling to NFX 15-211:2009)	FILTRATION COLUMN	FOR POWDERS	
CLASE 2						
Type G Handling of liquid compounds/products	æ	Type GS Handling of liquid and particles compounds/	æ	Type D Handling of powder compounds	<u>چ</u> ۲۰۰۰	
ACCORDING TO STAN	DADDS	products		A Fan	Molecular Filter HEPA-H14 Filter	
Cabinets / Fume Hoods	JARUS AFNOR NF X 15-211:2009 (France) BS EN 14175:2012 BS 7989: 2001 (UK)		Filters with microchip and USB connection, <i>intelligent filtering</i> Information storage and interaction with the alarm system.			
Filters	UNE EN ISO 16890:201 UNE EN 14387:2004 A EN-1822:2010 (HEPA	1:2008				
Quality	UNE EN ISO 9001:2015			TCAUTA		

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 72 engagement







PLUG&PLAY RANGE



