

To protect the operator during powder weighing operations, Cruma designed a new cabinet with double HEPA filtration for the retention of particles of 0.3 microns or larger: a main filter H-14 + and exhaust safety filter H-14. Optionally it can be configured with an activated exhaust carbon filter instead of the H-14 filter.

Weighing operations must be performed in a controlled environment that eliminates any risk of operator exposure to manipulated products and guarantee the level of precision required by the applications of drug companies.

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
- $\checkmark\,$  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
- √ Filters with electronic chip
- √ Internal temperature sensor

## New alarms and scheduled warnings

- √ Open door warning
- √ Open door in off mode 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



- √ Analysis laboratories
- √ Reserarch laboratories
- √ Quality control laboratories
- √ Clinical laboratories, etc...
- ...in short, in any laboratory.

TECHNICAL FEATURES		
Number of filtration columns	Number of filtration columns	
Number of filters		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		0,376 m <sup>3</sup>
Renewals inside the cabinet / min		8,3
Total electrical power consumption Voltage-		91 W
Frequency		110-220 V - 50-60 Hz
LED light intensity		900 Lux
Noise level		48 dB
Packaging: 100% recycled wooden box	Volume	0,95 m <sup>3</sup>
with international phytosanitary certificate	Weight	142 Kg

SIZES (m	m)				
	External			Internal	
Width 1200	Depth <b>600</b>	Height 1137	Width <b>1110</b>	Depth <b>556</b>	Height <b>610</b>

# It is not a typographical error, 7 year warranty

Because we are convinced of the quality of our products.



## 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 of call us if you have any questions or need technical support, spare parts, maintenance service...

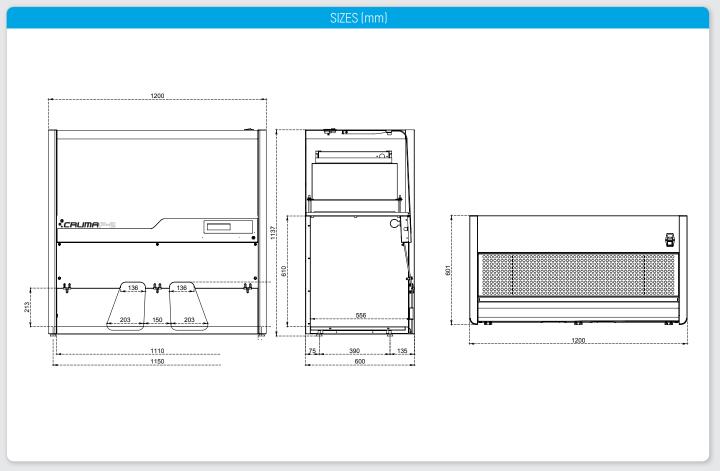
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SERIAL EQUIPMENT	
Electronic circuit with large format LCD screen	Security levels: level 1 for users and level 2 for maintenance users
Electronic anemometer device	Electronic sensor monitoring continuously air face velocity
Photocell sensor device 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
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
Switched electrical outlet	Electrical socket placed on the inside of the cabinet to connect a weighing balance.
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
Voltage / Frequency	125 V / 50 Hz

MAIN STRUCTURE	
Metal parts	1.2 mm galvanized coated steel with anti acid polymer resin powder heat-hardened at 200 °C
Doors	Transparent polymethylmethacrylate 6 mm thick (light transmission of 93%)







FILTER TYPES			
Туре А	For <b>organic vapors</b> 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 <b>NH3 vapors and amines</b> ; also good for other organic compounds. Carbon with metal salt complexes impregnation.
Туре ВЕ	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 <b>formaldehyde vapors</b> 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.

POWDER FILTRATION COLUMN	
<b>Type D6</b> Handling of powder with molecular safety filter	<u>&amp;</u>
Type DD Handling of powder with safety filter HEPA-H14	( <b>XXXXXXXX</b> )



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	























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