POWDER WEIGHING CABINETS

CRUMA P-1

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.

PLUG&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.

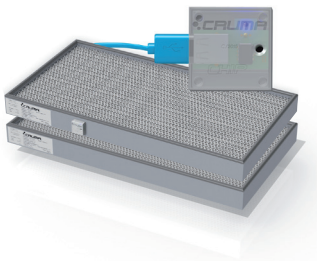
NEW FEATURES

More information on the new LCD display

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

USES

- √ Analysis laboratories
- √ Reserarch laboratories
- √ Quality control laboratories
- √ Clinical laboratories, etc...

...in short, in any laboratory.

TECHNICAL FEATURES

Number of filtration columns		1
Number of filters		2
Number of IP44 fans		1
Average volume of treated air		160 m^3/h
Average face velocity		0,35 m/s
Internal volume of the cabinet		0,236 m^3
Renewals inside the cabinet / min		9,6
Total electrical power consumption		50 W
Power supply [1]		220-240 V ~ 50-60 Hz
LED light intensity		1400 lux
Noise level		55 dB
Packaging: 100% recycled wooden box with international phytosanitary certificate	Volume	0,74 m^3
	Weight	112 Kg

[1] On request available for 110 V / 127 V.

SIZES (mm)

External			Internal		
Width	Depth	Height	Width	Depth	Height
800	**600**	**1137**	**710**	**556**	**610**

It is not a typographical error, *10 year warranty*

Because we are convinced of the quality of our products.

10 YEARS GUARANTEE / 10 AÑOS GARANTÍA

*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...

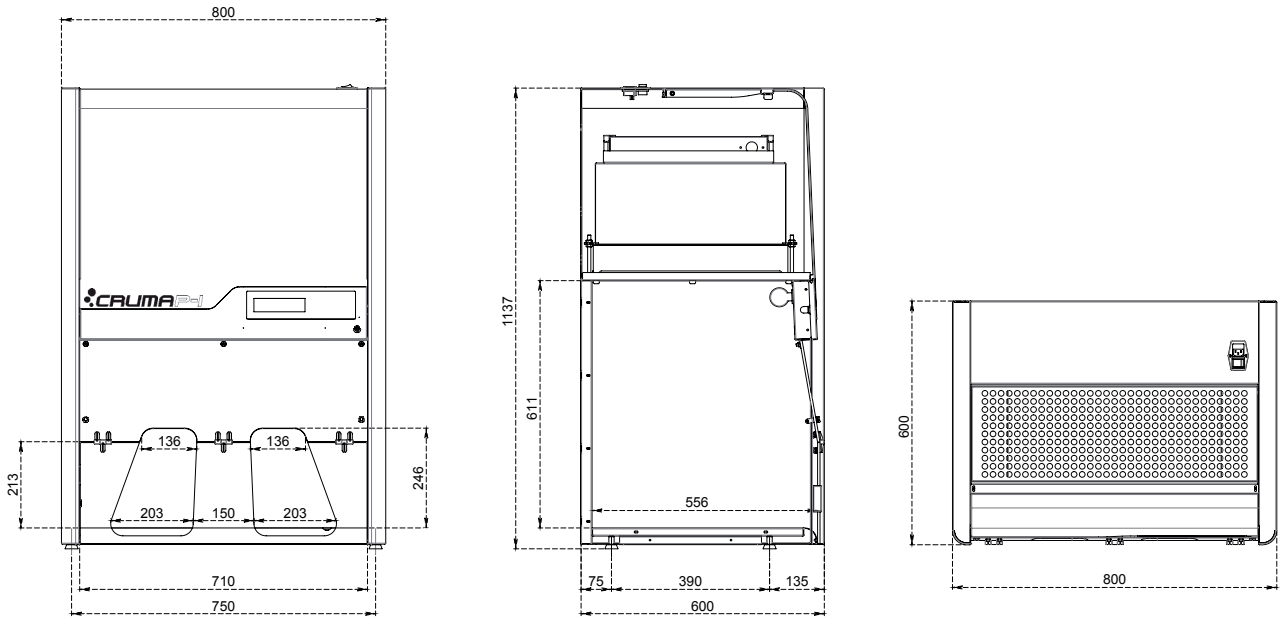
+34 93 370 61 62

P1-EN-2025-Rev.01

POWDER WEIGHING CABINETS

CRUMA P-1

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 the expiry date
Illumination	LED Tube high light intensity and low power consumption - 9W - 850 lm
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	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	Granite or marble stone base to minimize any type of vibration

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%)

CRUMA
Laboratory equipment made in Barcelona

CE

LLOYD'S REGISTER QUALITY ASSURANCE ISO9001

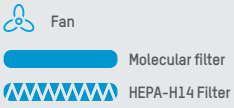
CRUMA P-1

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 **NH_3 vapors and amines**; also good for other organic compounds. Carbon with metal salt complexes impregnation.
Type BE	For **inorganic acid vapors** as H_2SO_4, HCl, HNO_3, and volatile sulfur compounds such as H_2S, 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 leads, 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.

POWDER FILTRATION COLUMN

Type DG Handling of powder with molecular safety filter	
Type DD Handling of powder with safety filter HEPA-H14	



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 UNE EN 14387:2004 A1:2008 EN-1822:2010 (HEPA & ULPA Filters) EN ISO 14644-1:2015 (Gas 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 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 7% engagement

cruma.es
export@cruma.es

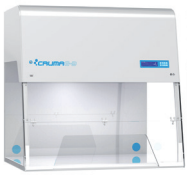
CRUMA
Laboratory equipment made in Barcelona

CRUMA 50 years
Laboratory equipment made in Barcelona 1974-2024

PLUG&PLAY RANGE


G-1


G-2


G-3

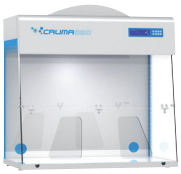

G-4


G-5

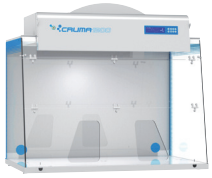
CLASSIC RANGE


670


870


990

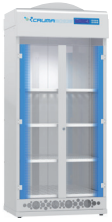

1010


1200


1200XL


ECO²

VENTED STORAGE CUPBOARDS


2010


ECO²

POWDER CABINETS


H+

POWDER WEIGHING CABINETS


P-1


P-2

PRECISION WEIGHING CABINET


W-2

LAMINAR FLOW CABINETS


670FL

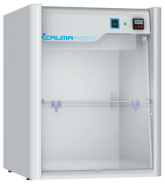

870FL


FL-1


FL-2

PCR CABINETS


PCR


PCR-V


HZ-1


HZ-2


HZ-3


HZ-4

BIOSAFETY CABINETS



BIO+


SAFE3


CYTO-2&3

CO_2 INCUBATOR


INCUBATOR

Pol. Ind. Fonollar - Andorra, 19A - 08830 Sant Boi de Llobregat - Barcelona
T. +34 93 370 61 62 - export@cruma.es - **www.cruma.es**

CE ISO 9001 2015 our 1% engagement