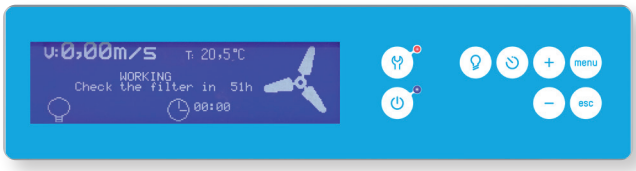
Vented storage CUPBOARD

Cruma 2010 and Cruma ECO²





NEW FEATURES

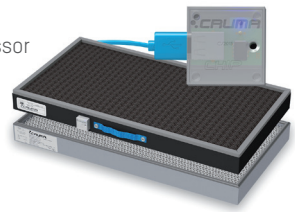


More information on the new LCD display

- √ New size 127x34mm display
- √ Air speed continuously monitored
- √ Type of filter installed, working hours, expiration date and next revision date
- √ Countdown timer
- √ Clock and calendar

New features and components

- √ Startup airflow adequacy cycle and switch off final purge cycle.
- √ Fault LED
- √ Control of air flow via Microprocessor
- √ HEPA filters with electronic chip
- √ LED illumination



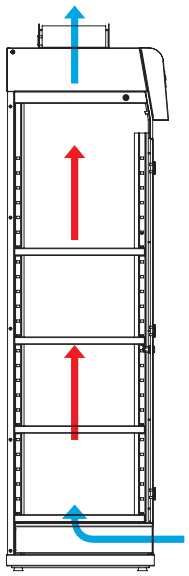
New alarms and scheduled warnings

- √ 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

USES

Storage of chemicals under the criteria of incompatibilities. Filters available:

- √ Type A: adsorption of vapours and organic solvents (ketones, ethers, alcohols and cyclics, etc.). Activated carbon without impregnation.
- √ Type BE: inorganic gases such as Cl2, HCl, HNO3, etc. and volatile sulphur compounds (H2SO4, H2S, SO3, NO2,...). Activated carbon impregnated with metal compounds and neutralising salts.
- √ Type D: Specific to dust and smoke particles.
- √ Type F: specific to formaldehyde and derivatives. Impregnated with KI.
- √ Type K: Specific to NH3 vapours and amines.



The CRUMA storage and filtration system is based on the technology employed in the CRUMA ASPIRATION AND FILTRATION FUME HOODS. They are made up of ventilation and filtration systems which prevent stored inflammable, corrosive or toxic fumes from accumulating inside the cabinet or being expulsed into the laboratory or workroom. When compared to other chemical product storage cabinets, their main advantages are:

√ They avoid the accumulation of vapours produced by the stored products inside the cabinet and reduce the risk of the formation of potentially explosive atmospheres inside the cabinet.

√ They prevent vapours produced inside the cabinet from being expulsed into the laboratory or workroom, thus avoiding these from being re-circulated through the laboratory or workroom and affecting the personnel inside.

Although the storage of chemical products does not usually cause many accidents, the few that do occur might be very serious if the necessary technical and/or organisational measures are not taken. Such measures will depend on the quantities and level of danger asociated with the stored products. This makes adequate management and organisation of the warehouse essential, by minimising product stocks, full control of their inventories, correct accounting of any incompatibilities among them, efficient separation among them in order to prevent them from mixing and/or aggravating the consequences in the case of accident, the use of safety containers and the design of installations according to the dangerousness level of the products, etc.

INCOMPATIBILITIES IN THE STORAGE OF CHEMICAL PRODUCTS
SEPARATE OR JOINT STORAGE

	EXPLOSIVES	COMBURENTS	INFLAMMABLE	TOXIC	CORROSIVE	HARMFUL
EXPLOSIVES	YES	NO	NO	NO	NO	NO
COMBURENTS	NO	YES	NO	NO	NO	(2)
INFLAMMABLE	NO	NO	YES	NO	(1)	YES
TOXIC	NO	NO	NO	YES	YES	YES
CORROSIVE	NO	NO	(1)	YES	YES	YES
HARMFUL	NO	(2)	YES	YES	YES	YES

(1) They may be stored together if certain prevention measures are taken.

(2) They may be stored together if certain measures of prevention are taken.

These are general criteria. For any alternative classification of danger levels, the possible storage incompatibilities must be examined in depth.

√ Products that react with water must not be stored in the same area as other inflammable or combustible liquids.

√ Inflammable or combustible liquids must not be stored in conventional refrigerators.

VENTED STORAGE CUPBOARD

CRUMA 2010



10 YEARS GUARANTEE
10 ANOS GARANTIA

The **Cruma 2010 vented chemical storage cupboard** uses the same filtration technology used by Cruma in its fume cupboards for more than 30 years to allow the easy storage of liquid reactives, reducing the space used and removing the inflammable, corrosive or toxic vapurs through adsoption by means of an specific activated carbon filter, venting nothing but recirculating purified air into the laboratory.

TECHNICAL FEATURES

Number of filtration columns		1
Number of filters		1 to 2
Number of IP44 fans		1
Internal volume of the cupboard		0,567 m^3
Total electrical power consumption		57 W
Power supply[1]		220-240 V / 50-60 Hz
Light intensity		1100 lx
Noise level		55 ± 3 dB
Packaging: 100% recycled wooden box with international phytosanitary certificate	Volume	1,1 m^3
	Weight	150 Kg

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

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
Electronic control device for filters replacement	The filters incorporate a chip with USB connection that identifies the type of filter installed and the expiry date
Lighting	LED Tube high light intensity and low power consumption - 15 Watts / 1500 lm
Probe for sampling expelled air	Detection system for filter media saturation level
Digital timer with audible alarm	For monitoring and alerting work performed in the cabinet or laboratory
Clock and calendar	Date and time display
Lock	Key lock
Shelves (4)	Metal shelves (4u) with perforations, each supporting up to a maximum of 20 L / 25 kg
Inert absorbent matt	Mat for absorbing liquids in case of spillage
G4 Prefilter	Prefilter blanket of synthetic biofibers class G4 for atmospheric dust retention
Chemical Listing	Guide of retained product according to filter type
Warranty	10 years

OPTIONAL EQUIPMENT

Power supply	110 V / 127 V.
Filter test kit	Dräger pump with reactive colorimetric tubes (pack 10u)
Additional shelves	2 additional shelves with holes that support up to a weight of 20l / 25kg each

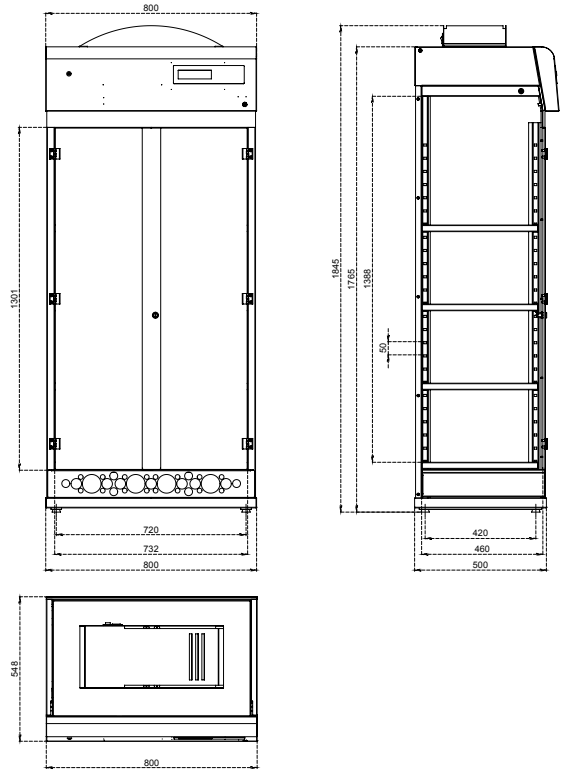
SIZES (MM)

External			Internal		
Width	Depth	Height	Width	Depth	Height
800	500	1845	760	468	1388

MAIN STRUCTURE

Metal parts	Made of 1.2 mm galvanized steel coated with anti-corrosive thermoplastic resin hardened at 200 °C.
Doors	Made of transparent methyl methacrylate (PPMA) 6 mm thick. Light transmission of 93%.

SIZES (mm)



VENTED STORAGE CUPBOARD

CRUMA ECO²



The **Cruma ECO²** storage cabinet is a more simplified and environmentally friendly product without sacrificing performance, functionality and quality. In response to a demanding market, our R+D+i department has developed this new model based on two fundamental premises: Economy and Ecology, hence its name. All of this while maintaining the technology used in our ductless fumehoods, which allows the vapors generated inside to be adsorbed and does not require a connection to the outside. In this way, it allows liquid or solid reagents to be stored inside and prevents both dust and toxic, inflammable or corrosive vapors from accumulating inside or being expelled into the working room.

TECHNICAL FEATURES

Number of filtration columns		1
Number of filters		1 to 2
Number of IP44 fans		1
Internal volume of the cabinet		0,567 m^3
Storage capacity (litres)		80l. max. (20l. per shelf)
Total electrical power consumption		47 W
Power supply [1]		220-240 V / 50-60 Hz
LED light level		1100 lx
Noise level		55 ± 3 dB
Packaging: 100% recycled wooden box with international phytosanitary certificate	Volume	1,1 m^3
	Weight	150 Kg

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

SERIAL EQUIPMENT

Mechanical anemometer	Mechanical probe for continuous monitoring of air face velocity
Lighting	High intensity, low consumption LED tube - 15 W / 1500 lx
Probe for sampling expelled air	Detection system for filter media saturation level
Lock	Key lock
Shelves (4)	Metal shelves (4u) with perforations, each supporting up to a maximum of 20 L / 25 kg
Inert absorbent mat	Mat for absorbing liquids in case of spillage
G4 Prefilter	Prefilter blanket of synthetic biofibers class G4 for atmospheric dust retention
Chemical listing	Guide of retained product according to filter type
Warranty	2 Years

OPTIONAL EQUIPMENT

Power supply	110 V / 127 V.
Filter test kit	Dräger pump with reactive colorimetric tubes (pack 10u)
Additional shelves	2 additional shelves with holes that support up to a weight of 20l / 25kg each

SIZES (mm)

External			Internal		
Widht	Depth	Height	Widht	Depth	Height
800	500	1834	760	468	1393

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
Doors	Transparent polymethylmethacrylate 6 mm thick (light transmission of 93%)

SIZES (mm)

