

CRUMAECO²



The 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.

CERTIFIED – Manufactured in Barcelona and certified by an external laboratory following international standards, applying the criteria of ISO 9001.

MOBILITY AND FLEXIBILITY – Due to its dimensions and reduced weight, as well as the absence of works to install a duct system outside, the possibilities of location and replacement are simpler. Moreover, as it is a dismountable product, it can be stored and placed in any laboratory without any problem (narrow passages, narrow or difficult to access stairs, etc.).

PROTECTION – Thanks to its filtration system, the aspirated air is recirculated back into the room free of contaminants, thus allowing a constant renewal of the room air. Toxic vapors and contaminating particles are captured inside the filter, where they are neutralized.

GREEN AND SUSTAINABLE – In addition, not consuming the laboratory's air conditioning, it substantially reduces energy costs while providing point-of-use protection without releasing hazardous pollutants into the atmosphere.

SERIAL EQUIPMENT

| | |
|-------------------------------------|---|
| Mechanical anemometer | Mechanical probe for continuous control of air velocity in facade |
| Illumination | LED tube high intensity and lower power 15 Watts / 1500 lm |
| Exhausted air sampling probe | Detection system of the saturation level of the filter medium |
| Lock | Key lock |
| Shelves (4) | Additional metal shelves (2u) with holes that support up to a maximum of 20L/25kg |
| Inert absorbent mat | Mat for liquid absorption in case of spillage |
| G4 Prefilter | G4 class pre-filtering blanket of synthetic biofibres (according to EN-779) for the retention of atmospheric dust |
| Warranty | 2 Years |

OPTIONAL EQUIPMENT

| | |
|----------------------------|---|
| Voltage / Frequency | 125 V / 50 Hz |
| Filter test kit | Dräger pump with reactive colorimetric tubes (pack 10 u.) |
| Shelves (2) | Additional metal shelves (2u) with holes that support up to a maximum of 20L/25kg |

MAIN STRUCTURE

| | |
|--|--|
| Metal parts: base frame, rear wall and head | In 1.2 mm galvanized steel coated with anti-corrosion thermosetting polymer resin hardened at 200 °C |
| Doors | In transparent polymethyl methacrylate (PMMA) 6 mm thick. Light transmission 93% |

USES

Storage of chemical products, liquid or solid under the criteria of incompatibilities. Filters available:

- ✓ **Type A:** Suitable for organic vapors such as ketones, ethers, alcohols, aromatics compounds, etc.
- ✓ **Type BE:** For inorganic acid vapors such as H₂SO₄, HCl, HNO₃ and volatile sulfur compounds such as H₂S, SO₃, etc.
- ✓ **Type F:** For formaldehyde vapours, formol, and derivatives.
- ✓ **Type K:** Suitable for ammoniacal vapours (NH₃) and amines.
- ✓ **Type D:** HEPA H-14 filter, suitable for the filtration of dusts.

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 | |
| Voltage-Frequency | 110-220 V - 50-60 Hz | |
| LED light | 1500 lm | |
| Noise level | 55 dB | |
| Packaging: 100% recycled wooden box with international phytosanitary certificate | Volume | 1,1 m ³ |
| | Weight | 150 Kg |

SIZES (mm)

| External | | | Internal | | |
|----------|-------|--------|----------|-------|--------|
| Width | Depth | Height | Width | Depth | Height |
| 800 | 500 | 1834 | 760 | 468 | 1393 |

It is not a typographical error,
2 year warranty

Because we are convinced of the quality of our products.



*More information www.cruma.es

Well done, well shipped.
Our responsible packaging

Wood box 100% recyclable with international phytosanitary certificate.

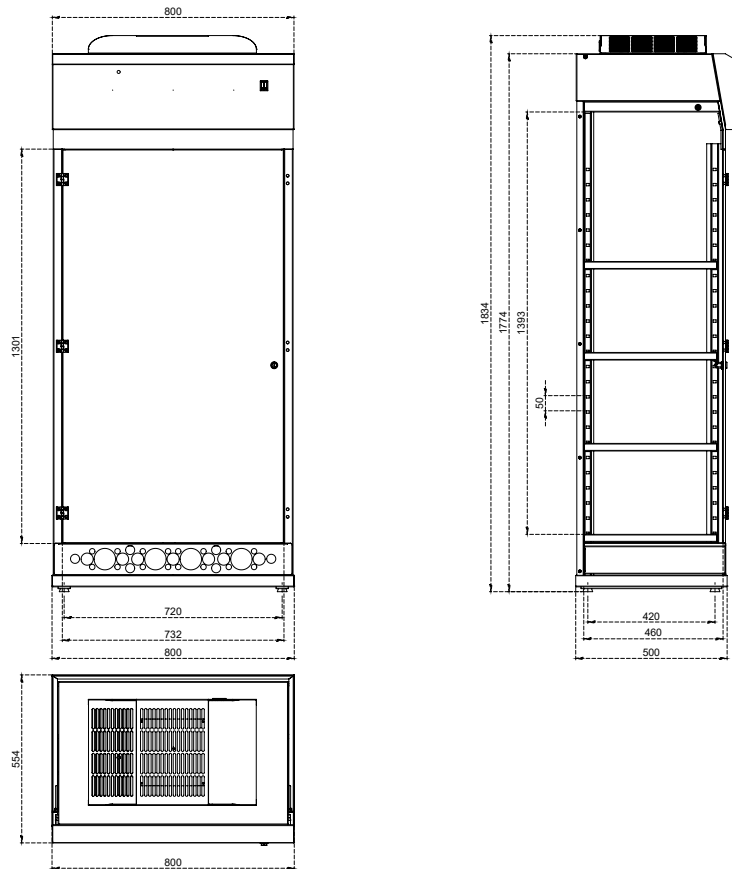


Do you need help or
technical assistance?

Contact your distributor or call us if you have any questions or need technical support, spare parts, maintenance service...

+34 93 370 61 62

SIZES (mm)



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) | SI | YES | YES | YES |

(1) They may be stored together if corrosive products are not packed in fragile containers.

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

For any other type of classification of danger levels, the possible storage incompatibilities must be more fully examined.

✓ 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.

INCOMPATIBILITIES SEPARATION METHODS. SEGREGATION CRITERIA.

| NUMBER | CHEMICAL GROUP | DO NOT STORE WITH CHEMICAL NUMBER GROUPS WITH THE INDICATE NUMBERS |
|--------|----------------------------------|--|
| 1 | Inorganic acids | 2-8, 10, 11, 13, 14, 16-19, 21, 22, 23 |
| 2 | Organic acids | 1, 3, 4, 7, 14, 16, 17-19, 22 |
| 3 | Caustic products | 1, 2, 6, 7, 8, 13-18, 20, 22, 23 |
| 4 | Amines and alkanolamines | 1, 2, 5, 7, 8, 13-18, 23 |
| 5 | Halogenated compounds | 1, 3, 4, 11, 14, 17 |
| 6 | Alcohols, glycols, glycol-ethers | 1, 7, 14, 16, 20, 23 |
| 7 | Aldehydes | 1-4, 6, 8, 15-17, 19, 20, 23 |
| 8 | Ketones | 1, 3, 4, 7, 19, 20 |
| 9 | Saturated hydrocarbons | 20 |
| 10 | Aromatic hydrocarbons | 1, 20 |
| 11 | Olefins | 1, 5, 10 |
| 12 | Petroleum oils | 20 |
| 13 | Esters | 1, 3, 4, 19, 20 |
| 14 | Monomers, polymerisable esters | 1-6, 15, 16, 19-21, 23 |
| 15 | Phenols | 3, 4, 7, 14, 16, 19, 20 |
| 16 | Alkyene oxides | 1-4, 6, 7, 14, 15, 17-19, 23 |
| 17 | Cyanohydrins | 1-5, 7, 16, 19, 23 |
| 18 | Nitrils | 1-4, 16, 23 |
| 19 | Ammonia | 1-2, 7, 8, 13-17, 20, 23 |
| 20 | Halogens | 3, 6-15, 19, 21, 22 |
| 21 | Ethers | 1, 14, 20 |
| 22 | Elemental phosphorous | 1-3, 20 |
| 23 | Acid anhydrides | 1, 3, 4, 6, 7, 14, 16-19 |

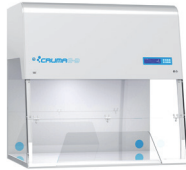
PLUG&PLAY RANGE



G-1



G-2



G-3



G-4



G-5

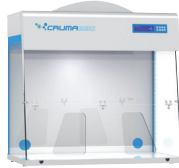
CLASSIC RANGE



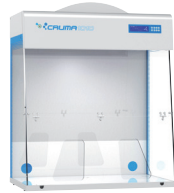
E70



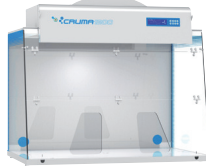
E70



S90



I010



I200



I200XL



ECO

VENTED STORAGE CUPBOARDS



2010



ECO

POWDER CABINETS

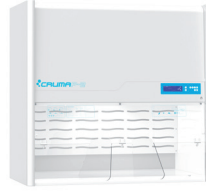


H+

POWDER WEIGHING CABINETS



P-1



P-2

PRECISION WEIGHING CABINET



W-2

LAMINAR FLOW CABINETS



E70FL



E70FL

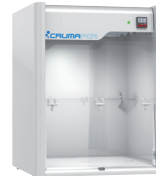


FL-1



FL-2

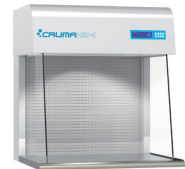
PCR CABINETS



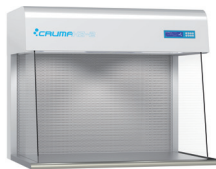
PCR



PCR-V



H2-1



H2-2



H2-3

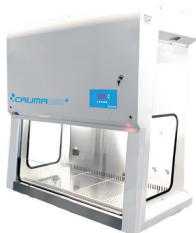


H2-4

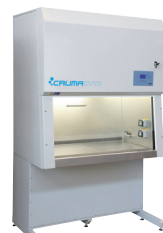
BIOSAFETY CABINETS



BIO+



VIRUSFREE



CYTO-2&3

CO₂ INCUBATOR



INCUBATOR