

# CRUMAVIRUS-3

## Class III MICROBIOLOGICAL SAFETY CABINET

The recent emergence of Ebola virus in West Africa risks to be a growing worldwide threat!

Despite years of research on Ebola virus it is still not possible to deliver vaccines or treatments to the at-risk population or medical aid teams. Therefore there is currently no prophylaxis or treatment for Ebola virus infection.

This is the reason why the World Health Organization classifies Ebola virus as a pathogen of Risk Group Level 4. A Risk Group Level 4 pathogen must be manipulated, according to WHO, in a Containment Level 4 environment, wearing specific protective clothing and working with a Microbiological Safety Cabinet of Class III.



## MAIN SPECIFICATIONS

- ✓ Controls comfortably located at eye level
- ✓ Fan speed and aeraulic controlled by Microprocessor
- ✓ Three operating modes: normal, stand-by, calibration
- ✓ High speed rinse at start up
- ✓ Self calibration and internal Watch-dog cycle before "SAFE" condition is reached
- ✓ Visual display of "SAFE" conditions and "UNSAFE" conditions (LED and bar graph)
- ✓ Elapsed time meter
- ✓ Microprocessor control with following specifications:
  - Multilevel alarms, with redundancy functions.
  - Permanent display of working conditions.
  - High air flow stability both in case of transitional disturbances or to progressive filter clogging
  - Power failure alarm
- ✓ Volt-free contact for remote monitoring of exhaust fan.
- ✓ Automatic reset of initial conditions in case of power failure
- ✓ C-shaped support stand for easy one man installation procedure
- ✓ Anti blow back valve (optional) for ducted configuration
- ✓ Magnehelic Gauge for internal chamber pressure constant monitoring
- ✓ One (1) Electrical Socket as standard option
- ✓ UV-Light installed on top (standard option)

## TECHNICAL FEATURES

Order number	LT20000
N° of glove ports	2
Exhaust air flow rate (m3/h)	> 180 m3/h
Internal Differential pressure (Pa)	< -220
Weight (kg)	210
Power Supply	220/240V 50Hz
Power (W)	500 W
Noise level	< 58dB(A)
Lighting lux	>1000

## SIZES (mm)

External Dimensions			Internal Dimensions		
Width	Depth	Height	Width	Depth	Height
2105	822	1300	1200	660	700

## 2 year warranty

Because we are convinced of the quality of our products.



\*More information  
[www.cruma.es](http://www.cruma.es)

We recognise our responsibility 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

## 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**

# CRUMAVIRUS-3

## TECHNICAL SPECIFICATIONS

- ✓ Manufactured in accordance with EN12469:2000 standard
- ✓ State of the art microprocessor control system
- ✓ Main switch with removable key
- ✓ Soft touch keyboard
- ✓ Bar graph for exhaust air flow conditions; permanent display
- ✓ Alarms for low air flow
- ✓ Sloped front for the most comfortable access
- ✓ Front and side access for filter maintenance and service
- ✓ C-shaped support stand for easy one man installation procedure
- ✓ Transfer hatch with interlocked doors (right or left positioned)
- ✓ Class III cabinet with exclusive three filter design and Class 100 inner chamber.

## MECHANICAL AND FUNCTIONAL SPECIFICATIONS

- ✓ Sloped front design for the highest operational comfort.
- ✓ Stainless Steel internal surfaces with 2B finishing
- ✓ Liquid retaining work surface (Stainless Steel 2B finishing)
- ✓ Total visibility air and aerosol-tight front window equipped with robust gloves (Class III) for the safest operation when working with Risk Group 4 pathogens.
- ✓ Class III: Exclusive four filter design for the highest safety of the environment and the operator (Risk Group 4 pathogens): one (1) prefilter, one (1) HEPA H14 In-Let, two (2) HEPA H14 Exhaust Filters.
- ✓ H14 class High Efficiency Particulate Air filters with 99.995% efficiency on MPPS (most penetrating particle size) (EN1822-1 and EN 13091:1999 tested and certified)
- ✓ Filter change and maintenance from the front of the cabinet.
- ✓ Exhaust transitions easily installable.
- ✓ Anti-blow-back valve available as add-on option
- ✓ Key operated. The key can be removed when the unit is in SAFE mode, in order to avoid unwanted operation. In case of power failure, the cabinet is re-set to original working conditions.
- ✓ Self calibration cycle performed when cabinet is switched on.
- ✓ High speed rinse and set up cycle performed, before reaching the SAFE operating mode.
- ✓ Visual display of SAFE conditions. Pre-warning before actual alarm conditions are reached (visual and acoustic alarms)
- ✓ Soft touch control with keys for standard service utilities. Interconnected UV and fluorescent lights.
- ✓ 100% air exhaust.
- ✓ Light intensity on work surface > 1000 lux.
- ✓ Noise level ≤58 dB(A)
- ✓ Work surface displacement (vibration) <0.005mm RMS between 20Hz and 20,000Hz (ISO 5349 tested and certified)
- ✓ 230V, 50Hz (230V,60Hz also available)
- ✓ Max power (for each power point): 3Amps.
- ✓ Microprocessor equipped with analogical watch-dog.
- ✓ Leakage tested in agreement with EN 12469 and ISO10648.2
- ✓ CE certification according to Machinery Directive 2006/42/CEE



# CRUMAVIRUS-3

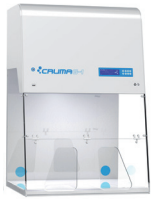


We recognise our responsibility  
and dependence towards a healthy environment and,  
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innovating and developing new products for the lab operator

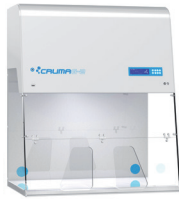
our **7%** engagement



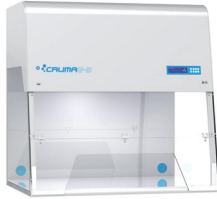
**CRUMA**  
PLUG&PLAY RANGE



G-1



G-2



G-3



G-4



G-5

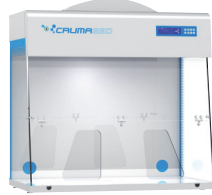
**CRUMA**  
CLASSIC RANGE



670



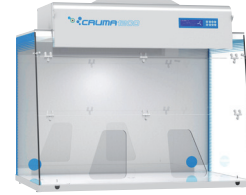
870



990



1010



1200



ECO



**CRUMA**  
VENTED STORAGE  
CUPBOARDS

2010

**CRUMA**  
POWDER CABINETS

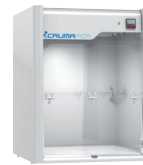


P-1



P-2

**CRUMA**  
PCR CABINET



PCR

**CRUMA**  
CO<sub>2</sub> INCUBATOR



INCUBATOR

**CRUMA**  
LAMINAR FLOW CABINETS



670FL



870FL



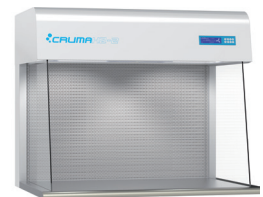
FL-1



FL-2

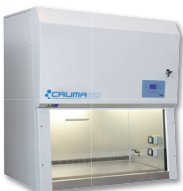


H2-1



H2-2

**CRUMA**  
BIOSAFETY CABINETS



BIO-1



BIO-2



VIRUSFREE



CYTO-2&3

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