

# Ductless fume hoods

## PLUG&PLAY RANGE

### Plug&Play Range models G-1, G-2, G-3, G-4 & G-5



G-1



G-2



G-3



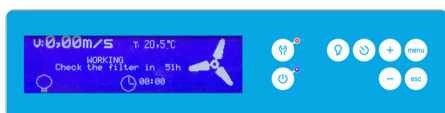
G-4



G-5

#### NEW FEATURES

More information on the new LCD display



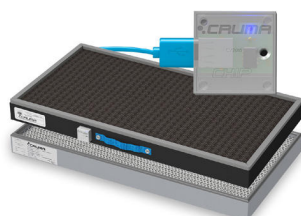
- ✓ New size 127x34mm display
- ✓ Air speed continuously monitored
- ✓ Type of filter installed, working hours, expiration date and next revision date
- ✓ Open door warning via electronic photocell
- ✓ Countdown timer
- ✓ Clock and calendar

#### 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
- ✓ Internal temperature sensor

#### New alarms and scheduled warnings

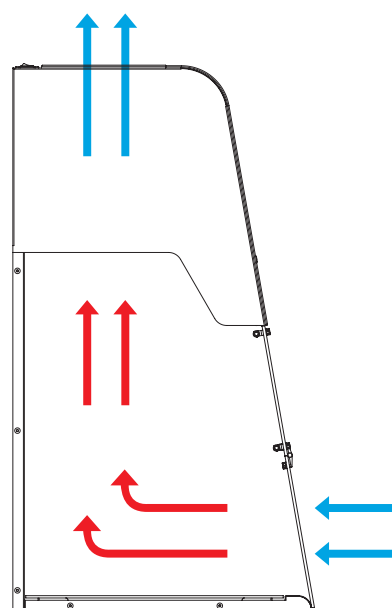
- ✓ Open door warning
- ✓ Open door in off mode warning
- ✓ 60h of filter use warning
- ✓ Next validation warning
- ✓ Few hours of filter life warning
- ✓ Countdown timer warning
- ✓ Expired filter alarm (by hours)
- ✓ Expired filter alarm (by date)
- ✓ Temperature alarm
- ✓ Equipment without filter alarm
- ✓ Low barrier alarm



#### USES

General chemistry involving small volumes of reagents or chemical compounds at ambient/moderate temperature in all types of laboratories:

- ✓ Research laboratories
  - ✓ Quality control laboratories
  - ✓ Clinical and hospital laboratories
  - ✓ University and school laboratories
- ...In general, in any kind of laboratory.








This range is **delivered fully assembled**, provides a wider range of measures and has the option of incorporating multiple accessories.

The fume hoods of the **Plug&Play range** are **Class I** and / or **Class II** according to **Standard NF X 15-211**.

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	LED Tube high light intensity and low power consumption - 16 Watts / 1500 Lm
Temperature sensor	Continuous monitoring of the temperature inside the cabinet
Sampling system to analyze the filtered air at the exhaust	To detect the level of filter saturation
60 hours alarm	Countdown timer according to French NF X 15-211:2009
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
G4 Prefilter	G4 class pre-filtering blanket of synthetic biofibres (according to EN-779) for the retention of atmospheric dust
Cable entry holes (2)	Access to the rear wall for cables and / or services entry
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 inox steel
Transparent back wall	Transparent polymethylmethacrylate 8mm thick - PPMA- (light transmission of 93%)
Voltage / Frequency	125 V / 50 Hz
Filter test kit	Dräger pump with reactive colorimetric tubes (pack 10u)

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
Front and side panels	Transparent polymethylmethacrylate 6 mm thick (light transmission of 93%)

MODULAR FILTRATION COLUMN FOR GASES AND PARTICLES <small>(according to NF X 15-211:2009)</small>			
CLASS 2		CLASS 1	
Type G Handling of liquid compounds/products		Type 2G Liquid compounds/products handling with security molecular filter	
Type GS Handling of liquid and particles compounds/products		Type 2GS Liquid and particles compounds/products handling with molecular security filter	
		Type 2GD Handling of liquid compounds in clean room with molecular security filter	

TYPES OF FILTERS	
Type A	General use filter, especially appropriate for <b>organic fumes</b> , such as ketons, ethers, alcohols, xylenes, etc. These can be used with inorganic acids, but only if these are not too abundant, as the active carbon has not been impregnated and any excess acid fumes will quickly saturate this.
Type BE	For <b>inorganic acid fumes</b> such as: H2SO4, HCl, HNO3, as well as for volatile sulphur compounds such as H2S, SO3, etc. These filters can be used with organic fumes as the active carbon has been impregnated with metal compounds and neutralizing salts. They can be used with both organic and inorganic fumes provided these are present in similar proportions.
Type F	For <b>formaldehyde</b> and <b>formol fumes and their derivatives</b> ; can also be used with other organic compounds. Carbon is impregnated with KI, and, as such, should never be used with inorganic acid fumes.
Type K	For <b>NH3 fumes</b> and <b>amines</b> ; also useful for other organic compounds. The carbon is impregnated with metal salt complexes.
Type ABEK	<b>Mixed type</b> to be used when the proportions between <b>organic, inorganic</b> and <b>NH3/amines</b> are similar.
Type D	<b>HEPA Filter</b> (High Efficiency Particulate Air) <b>H-14</b> (standard EN-1822:2010) for filtering particles of dust and fumes.

 Fan     Molecular Filter     HEPA-H14 Filter

DUCTLESS FUME HOOD. PLUG&PLAY RANGE

# CRUMAG-1



The **Cruma G-1** is perfect to remove low quantities of gaseous polluting agents and/or solid particles/aerosols from its working area in a simple, secure, efficient and cost effective way, protecting both the user and the environment.

**Cruma G-1** ductless fume hood uses the **patented Cruma Filtration System**, without any exterior duct connection. All molecular and dust particles are absorbed and retained into the filtration system.



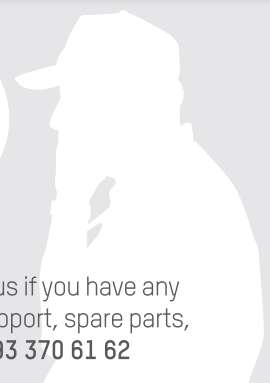
## TECHNICAL FEATURES

Number of filtration columns	1
Number of filters	1 to 3
Number of IP44 fans	1
Average volume of treated air	160 m <sup>3</sup> /h
Average face velocity	0,50 m/s
Internal volume of the cabinet	0,32 m <sup>3</sup>
Renewals inside the cabinet / min	8,25
Total electrical power consumption	57 W
Voltage-Frequency	110-220 V / 50-60 Hz
LED light intensity	1500 lm
Noise level	55 dB
<b>Packaging:</b> 100% recycled wooden box with international phytosanitary certificate	Volume 1,25 m <sup>3</sup> Weight 120 Kg

## SIZES (mm)

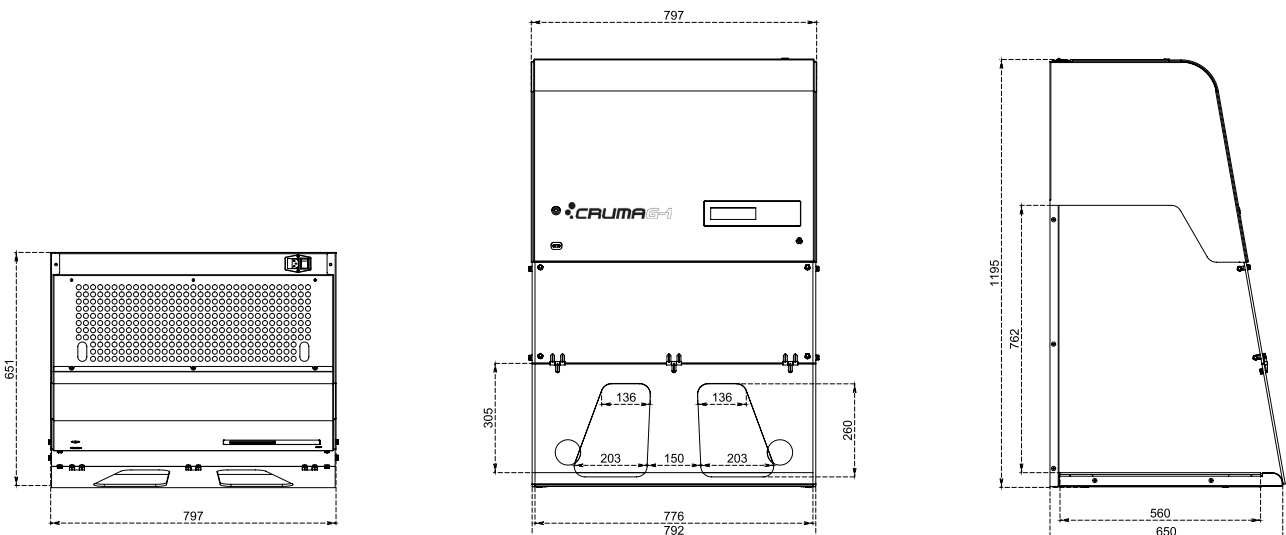
External Dimensions			Internal Dimensions		
Width	Depth	Height	Width	Depth	Height
792	650	1196	776	567,2	761

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## SIZES (mm)



DUCTLESS FUME HOOD. PLUG&PLAY RANGE

# CRUMAG-2



The **Cruma G-2** is perfect to remove low quantities of gaseous polluting agents and/or solid particles/ aerosols from its working area in a simple, secure, efficient and cost effective way, protecting both the user and the environment.

**Cruma G-2** ductless fume hood uses the **patented Cruma Filtration System**, without any exterior duct connection. All molecular and dust particles are absorbed and retained into the filtration system.



## TECHNICAL FEATURES

Number of filtration columns	1
Number of filters	1 to 3
Number of IP44 fans	1
Average volume of treated air	160 m <sup>3</sup> /h
Average face velocity	0,50 m/s
Internal volume of the cabinet	0,40 m <sup>3</sup>
Renewals inside the cabinet / min	6,6
Total electrical power consumption	57 W
Voltage-Frequency	110-220 V / 50-60 Hz
LED light intensity	1500 lm
Noise level	55 dB
<b>Packaging:</b> 100% recycled wooden box with international phytosanitary certificate	Volume 1,25 m <sup>3</sup> Weight 130 Kg

## SIZES (mm)

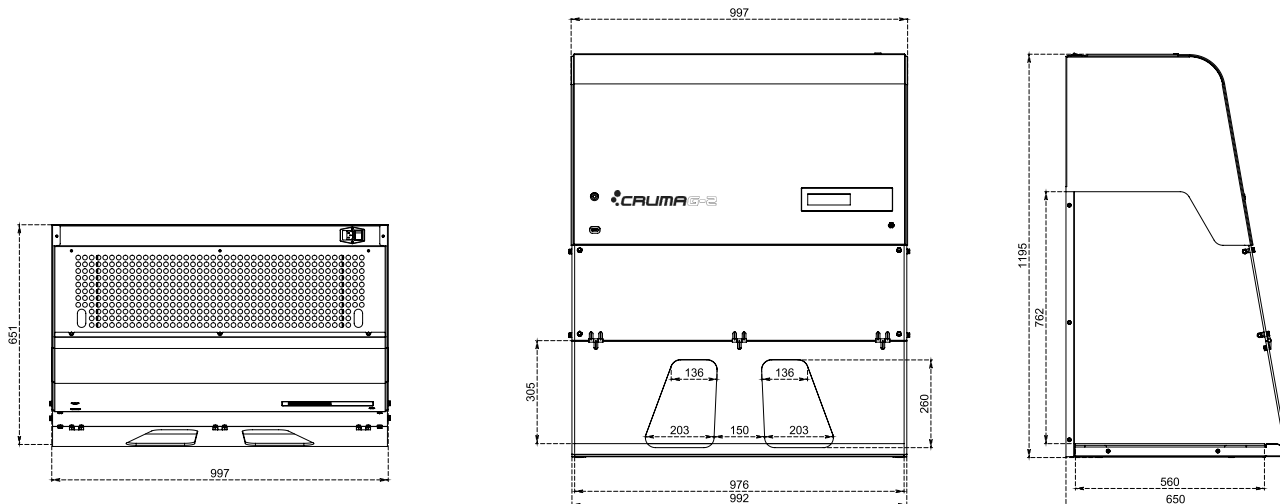
External Dimensions			Internal Dimensions		
Width	Depth	Height	Width	Depth	Height
992	650	1196	976	567,2	761

Filters with microchip and USB connection, *intelligent filtering*

Information storage and interaction with the alarm system.



## SIZES (mm)



DUCTLESS FUME HOOD. PLUG&PLAY RANGE

# CRUMA G-3



The **Cruma G-3** is perfect to remove low quantities of gaseous polluting agents and/or solid particles/aerosols from its working area in a simple, secure, efficient and cost effective way, protecting both the user and the environment.

**Cruma G-3** ductless fume hood uses the patented **Cruma Filtration System**, without any exterior duct connection. All molecular and dust particles are absorbed and retained into the filtration system.



## TECHNICAL FEATURES

Number of filtration columns	2
Number of filters	2 to 6
Number of IP44 fans	2
Average volume of treated air	270 m <sup>3</sup> /h
Average face velocity	0,50 m/s
Internal volume of the cabinet	0,67 m <sup>3</sup>
Renewals inside the cabinet / min	6,7
Total electrical power consumption	120 W
Voltage-Frequency	110-220 V / 50-60 Hz
LED light intensity	1500 lm
Noise level	58 dB
<b>Packaging:</b> 100% recycled wooden box with international phytosanitary certificate	Volume 1,96m <sup>3</sup> Weight 180 Kg

## SIZES (MM)

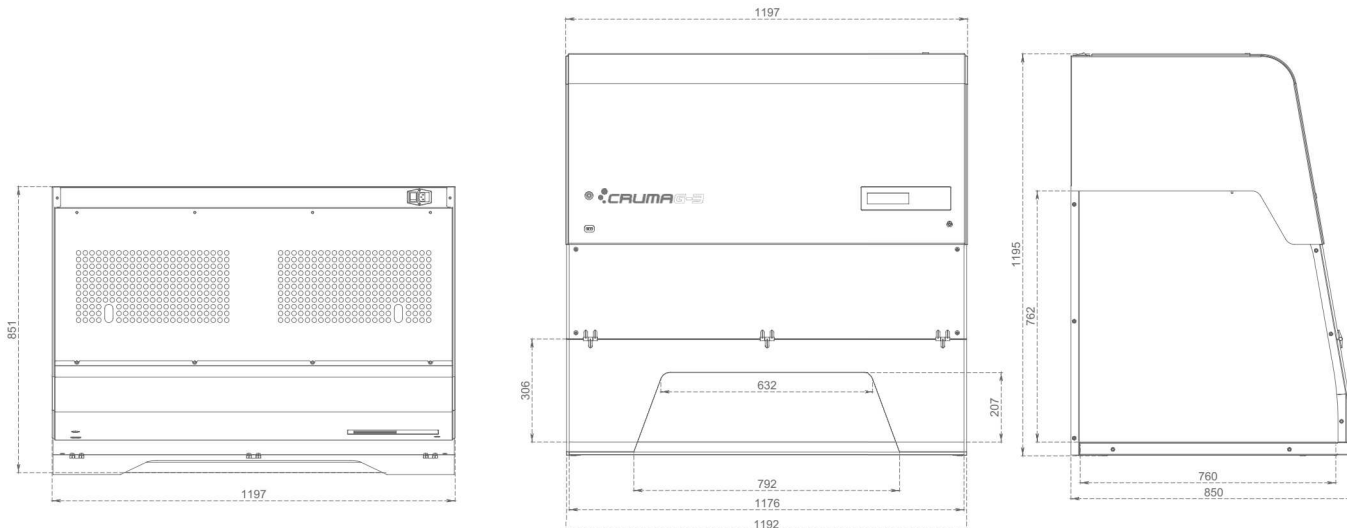
External			Internal		
Width	Depth	Height	Width	Depth	Height
1192	850	1196	1176	767,2	761,5



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## SIZES (mm)



DUCTLESS DUCTLESS FUME HOOD. PLUG&PLAY RANGE

# CRUMA G-4



The **Cruma G-4** is perfect to remove gaseous polluting agents and/or solid particles/aerosols from its working area in a simple, secure, efficient and cost effective way, protecting both the user and the environment.

**Cruma G-4** ductless fume hood uses the **patented Cruma Filtration System**, without any exterior duct connection. All molecular and dust particles are absorbed and retained into the filtration system.



## TECHNICAL FEATURES

Number of filtration columns	2
Number of filters	2 to 6
Number of IP44 fans	2
Average volume of treated air	385 m <sup>3</sup> /h
Average face velocity	0,50 m/s
Internal volume of the cabinet	0,89 m <sup>3</sup>
Renewals inside the cabinet / min	7,2
Total electrical power consumption	125 W
Voltage-Frequency	110-220 V / 50-60 Hz
LED light intensity	1500 lm
Noise level	58 dB
<b>Packaging:</b> 100% recycled wooden box with international phytosanitary certificate	Volume 2,75 m <sup>3</sup> Weight 250 Kg

## SIZES (MM)

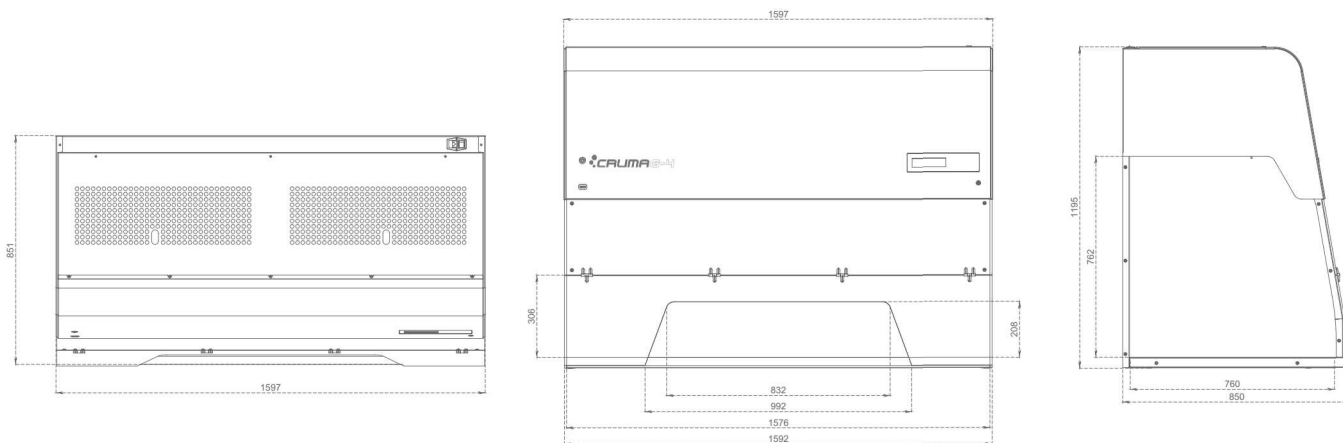
External			Internal		
Width	Depth	Height	Width	Depth	Height
1592	850	1196	1576	767,2	761,5

Filters with microchip and USB connection, *intelligent filtering*

Information storage and interaction with the alarm system.



## SIZES (mm)



# CRUMA G-5



The **Cruma G-5** is perfect to remove gaseous polluting agents and/or solid particles/aerosols from its working area in a simple, secure, efficient and cost effective way, protecting both the user and the environment.

**Cruma G-5** ductless fume hood uses the **patented Cruma Filtration System**, without any exterior duct connection. All molecular and dust particles are absorbed and retained into the filtration system.



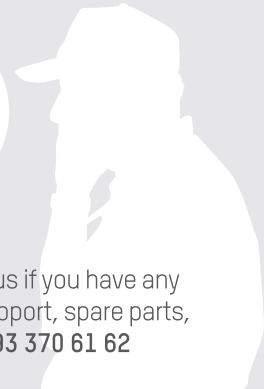
## TECHNICAL FEATURES

Number of filtration columns	2
Number of filters	2 to 6
Number of IP44 fans	2
Average volume of treated air	464 m <sup>3</sup> /h
Average face velocity	0,50 m/s
Internal volume of the cabinet	1,01 m <sup>3</sup>
Renewals inside the cabinet / min	7,6
Total electrical power consumption	130 W
Voltage-Frequency	110-220 V / 50-60 Hz
LED light intensity	1500 lm
Noise level	58 dB
<b>Packaging:</b> 100% recycled wooden box with international phytosanitary certificate	Volume 2,75 m <sup>3</sup> Weight 290 Kg

## SIZES (MM)

External			Internal		
Longitud	Width	Height	Longitud	Width	Height
1792	850	1196	1776	767,2	761,5

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## SIZES (mm)

