

Cabinas de seguridad biológica Clase II A

Class II A microbiological safety cabinet

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BIOHAZARD Class II A Microbiological safety cabinet, for personnel and product protection and ambient safety from exposure to biological agents (Class 10 in working surface). 70% of HEPA filtered air is therefore recirculated with the remaining 30% being expelled through a dedicated exhaust HEPA filter.

TÜV certified according to DIN – 12469 norm.

Features:

- Outer construction made of rolled steel with paint finish.
- Inner chamber made of AISI 304 stainless steel with radiussed corners and full access to exposed surfaces for easy of cleaning.
- Removable work surface made of AISI 304 stainless steel with perforated work area and shaped front grille to prevent obstruction air barrier intake.
- Front window made of securized glass with pneumatic lift. Access to microprocessor, change of filters... from cabinet front panel.
- Supplied with vacuum tap, electrical power outlet and gas tap with safety solenoid valve.
- Main switch with key and 3 positions: 0 stop, 1 work, and 2 program. and UV lamp control.



Inner dimensions (W x D x H): 1185x580x670 mm
Outer dimensions (W x D x H): 1450x785x1440 mm
Weight: 225 Kg
Power requirement: 2,2 Kw
230V-50 Hz

496960 Class IIA microbiological safety cabinet IDL.14SB-MAC

Accessories:

490112 Support table 1500 x 800 x 900 mm

Microprocessor controlled with alphanumeric screen, located in a non contaminated zone, and give us the following information:

- Exhaust airflow rate m/hour.
- Air speed in m/sec.
- Date and time
- Cabinets run hours.
- Control and programming up to 24 hours for UV lamp.

Visible and audible alarms visualized in control panel to control:

- Exhaust air flow rate, with alarm when it is insufficient.
- Laminar air flow speed, with alarm when it is insufficient.
- Front window open or not closed securely.
- Gas supply, with automatic shutdown when an electrical failure occurs.
- Motor failure during expulsion and motor failure during impulsion.
- Control of inner socket.
- Control of the lighting of fluorescent lamp and UV lamp.

Standard outfit:

- 2 HEPA filters H14 99,999% efficiency.
- Variable speed centrifugal fan with built-in thermal cut-out.
- Lighting 800 lux.
- Noise level < 58dB.
- Kit with 30 Watt UV lamp and 253,7 nm wavelength.



- **Certifications:** (AFNOR-TÜV) EN-12469 and DIN-12950

Mobile cabinet for vertical filtration FLOWLAN GN

- Vertical filtration cabinet, without out side sluiceway microprocessor controller.
- Designed for filtration of different type of gases, vapours, odours and particles in suspension.

General characteristics:

- Microprocessor controlled.
- LCD display.
- Date and time indicator.
- Inner temperature indication.
- Operation hour counter
- Indicator of necessity of filter verification.
- Filter fullfilling alarm.
- Digital indicator for air speed.
- Frontal window wrong closed detector with optical and acustiscal alarm.
- Internal storing of data, like last filter change and several technical parameters.
- **Electronic anemometer**, permanent controls air speed in frontage and inner of cabinet. Visible and audible alarm for insufficient air speed.
- Frontal window indicates filter in use.
- Suction speed 0,4 – 0,5 m/s
- According to AFNOR NFX 15-211 norm, cabinet will indicates each 60 working hours, necessity of filter verification
- Filtered air sample capture system, to verify filter state with an aspiration system and a posterior analisys in colorimetric tubes, they inform us about filter fullfilling.



● Control panel



Cabinas de filtración

Filtration cabinets



Construction:

- Structure made of rolled steel epoxy coated, with high resistance, side walls and front windows made of transparent polymethacrilate.
- Front mask made of polycarbonate with digital display to select y monitorize working state and for verification alarms displaying.
- Possibility of join 2 cabinet in a rapid and easy way.
- 2 holes in the rare part to input /output of external probes,...
- Internal illumination interna through a fluorescent lamp fo 650 lux.
- Activated carbon standard filter A/C included, to work with organic vapours.
- Optional filters for acids, formaldehyde,...
- HEPA H14 filter for particles in suspension (optional)
- Working surface made of tempered glass, acid , vapours... resistant with retention basin to gather spills .
- Power: 84 w
- 230V-50/60Hz



Reference	Description	Inner Dimensions mm	Outer Dimensions mm	Weight Kg.	Price
508300	FLOWLAN GN cabinet	785x580x690	800x620x1000	64	

Accessories:

- 508320 Support table for 1 cabinet
- 508321 Support table with wheels, for 1 cabinet
- 508322 Support table for 2 cabinets
- 508331 Active Carbon filter A/C
- 508333 Active carbon filter A/F (Formaldehyde)
- 508335 Active carbon filter for acids
- 508340 Auxiliary motor with exhaustion kit
- 508341 HEPA filter (for particles)
- 508350 Suction pump (filters test kit)



Mobile cabinet for vertical filtration



- Vertical mobile cabinet (without sluiceway) for vertical filtration high efficiency in filtration of gases, streams and odours (AIR.G) and particles in suspension (AIR.GH)
- Option: connection kit to outside eduction.
- Included active carbon standard filter to work with organic vapours.
- HEPA filter H14 99,999% efficiency for up to 0,3 micron particles (included in AIR.GH)
- Protection of operator and outside environment.
- Frontal air speed: 0,4 m/sec.
- Inner made of stainless steel covered by epoxy, with a high resistance to chemical agents. Lateral walls made of securized glass.
- Inner illumination. Inner socket.
- Working area made of tempered glass and other material upon request.
- Hour counter.



Reference	508003	508013
Model	AIR.G	AIR.GH
Price		
Inner Dimensions WidexHighxDdepth mm	780x680x600	780x680x600
Outer Dimensions WidexHighxDdepth mm	800x990x610	800x1090x610
Treated air volume m³/hour	300	300
Weight Kg	67	77
Power W	70	160
220V/50Hz		

Accessories:

- 508101 Active carbon standard filter for AIR.G and AIR.GH
- 508201 HEPA filter H14 for AIR.GH
- 508103 Formldehyde filter for AIR.G and AIR.GH
- 508105 Filter for acids
- 508141 Support table for AIR.G and AIR.GH
- 508111 Connection kit to outside eduction with auxiliary motor
- 508112 Flexible tube 2 meters
- 508114 Anemometer to air speed control
- 508116 Suction pump to filter saturation control



Mobile cabinet for horizontal filtration

- Mobile cabinet (without sluiceway) for horizontal filtration high efficiency in filtration of gases, streams and odours.
- Option: connection kit to outside education.
- Included: active carbon standard filter to work with organic vapours and cold acids.
- Protection of operator and environment.
- Outer construction made of stainless steel covered by epoxy, with a high resistance to chemical agents.
- Lateral and upper walls made of 8 mm acrylic panels.
- Inner illumination: 1200 lux.
- It can be located in any surface.
- Modular: possibility of joint 2 mobile cabinets.
- Spinners with a low noise level.
- Hour counter.

Reference	508084	508086
Model	AIR.1H	AIR.2H
Price		
Inner Dimensions WidexHighxDPTH mm	900x620x580	1800x620x580
Outer Dimensions WidexHighxDPTH mm	920x810x750	1840x810x750
Treated air volume m³/hour	550	1100
Noise level	50dB	65dB
Weight Kg	77	154
Power W	140	280
220V-50Hz		

Accessories:

- 508102 Active carbon standard filter for AIR.1H
- 508104 Formaldehyde filter for AIR.1H
- 508146 Support table for AIR.1H 120 x 75 x 90 cm, 30 mm LP top
- 508147 Support table for AIR.1H 190 x 75 x 90 cm, 30 mm LP top
- 508121 Connection kit to outside education with auxiliary motor
- 508112 Flexible tube 2 meters

Fume hoods

- Bench cabinets or with support table to gases exhaustion.
- Structure made of rolled steel covered by epoxy, with a high resistance to chemical agents.
- Inner walls made of 5 00 high density compact laminated of high pressure F1. Upon request it can be made of polypropylene.
- Working surface made of smooth granite.
- As option working surface made of monolithic and vitrified sandstone.
- Polycarbonate sash window, counterbalanced with frontal opening.
- Frontal control panel to support pilot relaying for all the required services: water, gas.
- 2 intakes of current 10/16V and motorholder included and located in frontal panel.
- Spinner with polypropylene frame of 0,33 c.v. – 1500 rpm.
- Kit with inner illumination.
- Speed selector (potenciometer) included.

INDELAB



● 508500

Reference	508400	508500	508600
Model	AIR.EP	AIR.EM	AIR.EG
Price			
Inner Dimensions WidexHighxDepth mm	90x50x90	130x50x90	160x50x90
Outer Dimensions WidexHighxDepth mm	110x66x140	150x66x155	180x66x155
Weight Kg	115	145	188
Voltage: 220V-50 Hz			

Accessories:

- 508410 Support table for AIR.EP
- 508411 Support table for AIR.EM
- 508413 Support table for AIR.EG
- 508416 Gas tap with pilot relaying
- 508418 Water tap with pilot relaying
- 508417 15 x 15 cm Water sink
- 508432 Module under bench MA 2C with door /pane 60 x 45 x 65 cm
- 508434 Module under bench MB 2C with drawer/door/pane 60 x 45 x 45 cm
- 508436 Module under bench MC 2C with 4 drawers 60 x 45 x 65 cm

Cabina de extracción de gases

Fume hoods

Fume hoods

External body:

The base support is composed by the following elements:

Metallic structure

Manufactured with stainless steel rectangular tube and epoxy paint coated, resistance to acids, lays and alcalis, as well as mechanical agents and to corrosion.

Legs with levelling systems.

Service area to fluids conduction located in rare part.

Frontal control panel to support pilot relaying for water, gases, electrical bases, magnetothermic, differential...

Withdrawable module under surface included.

Internal body

Compact stratified of polymerized resins, to general applications (acids, dissolving agents in medium concentrations and temperatures).

High density polypropylene or PVDF for concentrated acids (optional inside).

Working surface

Ther work surface is made of vitrified monolithic sandstone, with border against spreading.

Composed by clay, quartz, feldspar and other mineral products, mixed and 1200°C kilned.

Excellent resistance to the attack of chemical agents (except hydrofluoric acid).

In accordance to UNI EN 106, UNI EN9, 100, 101, 103 106 and DIN 51065, and 12916 (part A).

Water sink incorporated with water tap with pilot relaying.

Sash window

Vertical and horizontal opening.

Located in metallic enclosing case, made of rolled steel epoxy coated.

Nylon sliders.

2 Shatterproof glass sheets, horizontally sliding.

Vertical opening in any position.



Aspiration control unit FLOW.LAN for standard gases cabinets

Membrane control module for the following functions:

Exhaust motor switch on and off.

Inner illumination lamp.

Optical and acoustic alarm due to high temperature inside the cabinet.

Exhaust speed setting and flow volume with light signs, by an electronic speed regulator.

Optical and acoustic alarm due to exhaust motor failure.

Aspiration module

High density polypropylene case, steerable 8 positions.

Polypropylene fan with nylon graphite- treated cube.

Motor holder in nylon. Aspiration capacity adaptable from 500 up to 4.500m³/hour.

IP55 Agents.

Included devices:

Water tap with pilot relaying and sink.

Gas tap with pilot relaying.

2 plugging device magnetothermic and differential.

Inner illumination fluorescent lanp.



FUME HOOD	OUTER MEASURES cm			INNER MEASURES cm (working surface)	
	MODELS	Length	Depth	Height	Lenght
IDL.120V	120	90	250	114	75
IDL.150V	150	90	250	144	75
IDL.180V	180	90	250	174	75