ARIAS LABS SYSTEM
FURNITURE & EQUIPMENT

SAFETY
QUALITY
ADAPTABILITY

THINK
LABS
THINK
ARIAS

LAB Catalogue | 2023

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WE ARE

- Laboratory Furniture Designers & Manufacturers
- Hospital Furniture Solution Providers

ARIAS

A — Accessibility

R — Reliability

I — Innovation

A — Adaptability

S — Safety

ABOUT US

ARIAS LABS SYSTEM is a Spanish laboratory furniture, fume hood and laboratory equipment manufacturer with more than 20 years of experience in this field.
Arias is a complete solution provider for your laboratory needs. Our services include designing, planning, engineering, commissioning & consulting for all types of laboratories.
We provide our clients with the best solutions required for their laboratory function, having in mind the best proposition in terms of safety, quality and delivery time.
For different target groups & applications, our ergonomic design enables researchers to work comfortably and safely in any research environment.

OUR VISION

Getting a safe laboratory with innovative design should be accessible to any company or organization, in terms of budget, product adaptability, right design & delivery time.
That is where we focus while designing, engineering & manufacturing new products.
Arias aims to be one of the best innovative European laboratory manufacturers operating worldwide.

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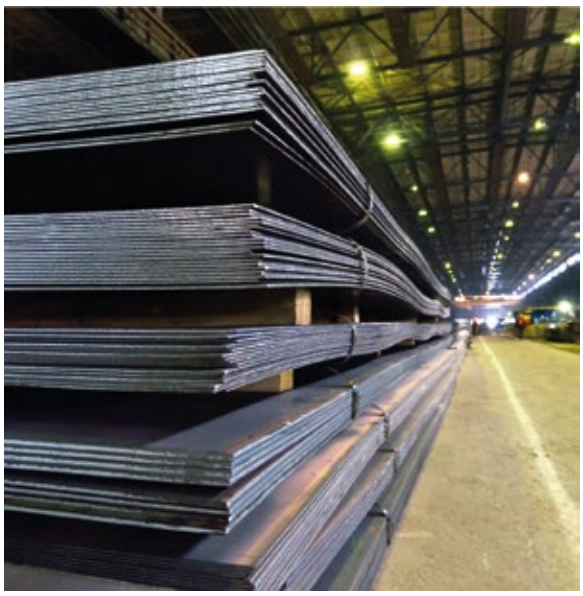
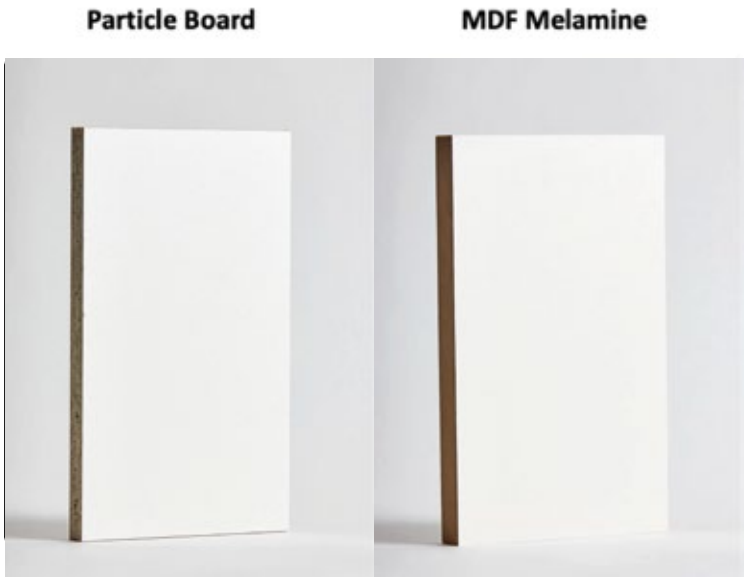
MATERIAL SPECIFICATIONS AND MANUFACTURING PROCESS

STEEL SHEET

Our bench frames, steel cabinets & cupboards are manufactured by electro-zinc cold rolled steel epoxy polyester coated resistant to corrosion. Before painting, the steel sheets go through: electrolytic zinc settlement, degreasing & surface cleaning, pre-treatment with phosphate and chromated treatment.





MELAMINE SHEET

For some specific projects, a line of cabinets & cupboards is manufactured from wood fibres and agglutinated by synthetic resins with pressure and temperature. The MDF melamine is moisture resistant, with low formaldehyde content, compact boards and lightweight.

PAINTING PROCESS

Our products are coated by a chemical resistant epoxy powder paint. The painting is specially formulated to satisfy the laboratory needs in order to obtain a very high resistance to UV radiations, chemicals and to humidity. Its excellent gloss retention and resistance to colour change, combined with other outstanding properties are what makes Arias different.

Our painting process follows these meticulous steps:

1- Surface polishing & dedusting if needed.
2- Surface cleaning: Acid washing & phosphating or nano zirconia treatment.
3- Washing, drying & surface examination.
4- Acid resistant epoxy powder automatic painting.
5- Drying at 200°C in a special oven.
6- Cooling & packing.

OUR PRODUCTS

FUME HOODS

FUME HOODS

Fume Hoods are ventilated enclosures that enable laboratory personnel to safely work with materials that produce hazardous fumes and volatile vapors.
We at Arias Labs continue to innovate the standards of our fume hoods to support the evolving needs of modern laboratory safety requirements & end user new application requirements.
Our fume hoods are suitable for general and special laboratory applications, dealing with various common acid and solvents as well as enduring the harshest laboratory environments.
Our fume hoods are certified as per standards EN14175 & ASHRAE 110-2016.

Fume Hood Types:

- Basic Fume Hood – Manual Control Panel
- Standard Fume Hood - LCD Control Panel
- Prime Fume Hood – LCD Control Panel Energy Saving Inverter (Automatic Flow)
- Walk-in Fume Hood
- Polypropylene Fume Hood – Perchloric HCI Acid FH

Fume Hood Basic Type - Manual Control Panel

This fume hood is suitable for general laboratory applications, dealing with various common acid and solvents as well as enduring the harshest laboratory environments.

Fume hood basic type could be used as a ductless fume hood as well. This type of fume hood utilizes carbon or HEPA filtration to protect laboratory personnel from toxic chemical fumes, odors, and particles. Ductless Fume Hood guarantees a hassle-free installation and no lab work interruption.

FUME HOODS

Model	AR01-120	AR01-150	AR01-180	AR01-210
External dimensions (mm) (W x D x H)	1200x750x2200	1500x750x2200	1800x750x2200	2100x750x2200
Upper Body	Steel epoxy powder coated for chemical resistance			
Support Stand	Integrated (full height body)			
Color	Light Grey & Dark Grey			
Worktop	16 mm Anti-chemical compact laminate countertop			
Under FH cabinet	Vented Cabinet steel epoxy powder coated			
Operation Controller Panel	• Main fuse breaker • Manual Fan control • Manual Speed control • Manual Lamp switch			
Sash type	Vertical opening			
Sash material	Tempered safety glass 6mm with aluminum frame			
Sash Safety door stop	Yes			
Lamp	LED 1 unit			
Cup sink	PP 1 unit			
Water tap	CW 1 unit			
Air valve	Option			
Vacuum valve	Option			
Sockets	British type 2 units with cover (international type available)			
Electrical Break	16A Insurance			
Duct collar (Ø)	PP 250mm (Ø)			
Duct	PVC flexible duct (3 m each fume hood)			
Blower Type: Polypropylene built in blower	1040 m³/h	1400 m³/h	2350 m³/h	3400 m³/h
Option	Worktop: Ceramic - Color: Off white & Light Grey Controller: Digital touch panel - Sash: Horizontal opening Air, Vacuum Valve			

Fume Hood Standard Type - LCD Control Panel

This fume hood is suitable for general laboratory applications, dealing with various common acid and solvents as well as enduring the harshest laboratory environments.
This fume hood comes with LCD Display control panel for AIRFLOW controlling and monitoring, in addition to visual & audible alarms, air flow digital screen, and touch sensitive buttons for all the operations.

FUME HOODS

Model	AR02-120	AR02-150	AR02-180	AR02-210
External dimensions (mm) (W x D x H)	1200x900x2340	1500x900x2340	1800x900x2340	2100x900x2340
Upper Body	Steel epoxy powder coated for chemical resistance			
Support Stand	Pipe with horizontal supports epoxy powder coated			
Inner services connection	From the back side of the Fume hood			
Frontal window	700mm			
Color	Light Grey & Dark Grey			
Worktop	16 mm Anti-chemical compact laminate countertop			
Under FH cabinet	Vented Cabinet steel epoxy powder coated			
Operation Controller Panel	LCD Display control panel for AIRFLOW controlling and monitoring • Visual & audible alarms • Air flow digital screen • Touch sensitive buttons for all the operations			
Sash type	Vertical opening			
Sash material	Tempered safety glass 6mm with aluminum frame			
Sash Safety door stop	Steel epoxy powder coated			
Lamp	LED 1 unit			
Cup sink	PP 1 unit			
Water tap	CW 1 unit			
Air valve	CA 1 unit			
Vacuum valve	Option			
Sockets	British type 2 units with cover (international type available)			
Electrical Break	16A Insurance			
Duct collar (Ø)	PP 250mm (Ø)			
Duct	PVC flexible duct (3 m each fume hood)			
Blower Type: Polypropylene built in blower	1040 m³/h	1400 m³/h	2350 m³/h	3400 m³/h
Option	Worktop: Ceramic - Cup sink: Ceramic Color: Off white & Light Grey - Sash: Horizontal opening Fittings: Vacuum Valve			

Fume Hood Prime Type – LCD Control Panel Energy Saving Inverter (Automatic Flow)

This fume hood is suitable for general & special laboratory applications, dealing with various common acid and solvents as well as enduring the harshest laboratory environments.
This fume hood comes with VAC (variable air control) system which enables the control the speed of the exhaust air to save energy & fresh air. Also, it comes with LCD Display control panel for AIRFLOW controlling and monitoring, in addition to visual & audible alarms, air flow digital screen, and touch sensitive buttons for all the operations.

FUME HOODS

Model	AR03-120	AR03-150	AR03-180	AR03-210
External dimensions (mm) (W x D x H)	1200x817x2380	1500x817x2380	1800x817x2380	2100x817x2380
Upper Body	Steel epoxy powder coated for chemical resistance			
Support Stand	Pipe with horizontal supports epoxy powder coated			
Inner services connection	From the lateral sides of the fume hood			
Frontal window	1100mm			
Color	Light Grey & Dark Grey			
Worktop	Ceramic worktop with 28mm thick edge marine			
Under FH cabinet	Vented Cabinet steel epoxy powder coated			
Operation Controller Panel	LCD Display control panel for AIRFLOW controlling and monitoring • Visual & audible alarms • Air flow digital screen • Touch sensitive buttons for all the operations			
Sash type	Vertical opening			
Sash material	Tempered safety glass 6mm with aluminum frame			
Sash Safety door stop	Steel epoxy powder coated			
Lamp	LED 1 unit			
Cup sink	PP 1 unit			
Water tap	CW 1 unit			
Air valve	CA 1 unit			
Vacuum valve	Option			
Sockets	British type 2 units with cover (international type available)			
Electrical Break	16A Insurance			
Duct collar (Ø)	PP 250mm (Ø)			
Duct	PVC flexible duct (3 m each fume hood)			
Blower Type: Polypropylene built in blower	1040 m³/h	1400 m³/h	2350 m³/h	3400 m³/h
Option	Worktop: Ceramic - Cup sink: Ceramic Color: Off white & Light Grey - Sash: Horizontal opening Fittings: Vacuum Valve			

Walk-in Fume Hood

Walk-In Fume Hoods are "oversized" enclosures that are built to isolate the exterior of the hood from fumes, dust, odors, and other harmful particulate. Primarily, these hoods isolate the environment from particle contamination and allow applications to be performed in a sperate working area.

FUME HOODS

Model	AR04-120	AR04-150	AR04-180	AR04-210
External dimensions (mm) (W x D x H)	1200x900x2340	1500x900x2340	1800x900x2340	2100x900x2340
Upper Body	Steel epoxy powder coated for chemical resistance			
Support Stand	Pipe with horizontal supports epoxy powder coated			
Inner walls	One side to allow the connections to be in the back side of the Fume hood			
Frontal window	700mm opening space for the operations			
Color	Light Grey & Dark Grey			
Worktop	N/A			
Under FH cabinet	N/A			
Operation Controller Panel	LCD Display control panel for AIRFLOW controlling and monitoring • Visual & audible alarms • Air flow digital screen • Touch sensitive buttons for all the operations			
Sash type	Vertical opening			
Sash material	Double Tempered safety glass 6mm with aluminum frame			
Sash Safety door stop	Steel epoxy powder coated			
Lamp	LED 1 unit			
Cup sink	PP 1 unit			
Water tap	CW 1 unit			
Air valve	CA 1 unit			
Vacuum valve	Option			
Sockets	British type 2 units with cover (international type available)			
Electrical Break	16A Insurance			
Duct collar (Ø)	PP 250mm (Ø)			
Duct	PVC flexible duct (3 m each fume hood)			
Blower Type: Polypropylene built in blower	1040 m^3/h	1400 m^3/h	2350 m^3/h	3400 m^3/h
Option	Cup sink: Ceramic Color: Off white & Light Grey Fittings: Vacuum Valve			

Polypropylene Fume Hood – Perchloric HCl Acid FH

Polypropylene Fume Hoods are made of high-quality non-corrosive polypropylene with excellent chemical resistance. Polypropylene increases the product's tensile strength and improves its thermal characteristics. The Polypropylene Fume Hoods protect laboratory staff from noxious fumes released by acids, dangerous gas and organic solutions - materials and acids which regular steel hoods may not withstand.

FUME HOODS

Model	AR05-120	AR05-150	AR05-180	AR05-210
External dimensions (mm) (W x D x H)	1200x817x2380	1500x817x2380	1800x817x2380	2100x817x2380
Upper Body	One-piece welded Polypropylene structure			
Support Stand	Integrated (full height body)			
Color	Beige			
Worktop	Built-in polypropylene worktop			
Under FH cabinet	Integrated Vented Cabinet full polypropylene			
Operation Controller Panel	LCD Display control panel for AIRFLOW controlling and monitoring • Visual & audible alarms • Air flow digital screen • Touch sensitive buttons for all the operations			
Sash type	Vertical opening			
Sash material	Tempered safety glass 6mm			
Lamp	LED 1 unit			
Cup sink	PP 1 unit			
Water tap	CW 1 unit			
Air valve	CA 1 unit			
Vacuum valve	Option			
Sockets	British type 2 units with cover (international type available)			
Electrical Break	16A Insurance			
Duct collar (Ø)	PP 250mm (Ø)			
Duct	PVC flexible duct (3 m each fume hood)			
Blower	Option			
Option	Worktop: Ceramic - Cup sink: Ceramic Sash: Horizontal opening - Fittings: Vacuum Valve Blower: Centrifugal FAN			

BIOLOGICAL SAFETY CABINETS

BIOLOGICAL SAFETY CABINETS

A Biological Safety Cabinet is mainly used for handling pathogenic biological samples or for applications that require a sterile work zone. It creates inflow and downflow of air that ensures the user, product and environment protection from the biohazard factor and prevents cross-contamination of various samples used in experiments.

Biosafety Cabinets Types:

- Class I: Laminar Flow
- Class II: A2 Biological Safety Cabinet
- Class II: B2 Biological Safety Cabinet

Class I: Laminar Flow

A laminar flow cabinet is defined as enclosed workbench which is used to create a contamination free work environment through installed HEPA filters that capture all the particles entering the cabinet.
A laminar flow cabinet is used for work with substances which are not hazardous for the personnel health for personnel and environmental protection.

Laminar Flow Types:

- Horizontal Laminar Flow
- Vertical Laminar Flow
- PCR Workstation

BIOLOGICAL SAFETY CABINETS

Model	AR-LAM-90	AR-LAM-120	AR-LAM-150	AR-LAM-180
External Dimensions (mm) (W x D x H)	1065x900x1550	1360x900x1550	1660x900x1550	1960x900x1550
Internal Dimensions (mm) (W x D x H)	900x630x650	1200x630x650	1500x630x650	1800x630x650
Stand Dimensions (mm) (W x D x H)	1060x870x850	1360x870x850	1660x870x850	1960x870x850
Exterior Body	Steel epoxy powder coated for chemical resistance			
Inner walls	Stainless steel (AISI 304)			
Worktop	Worktop floor height 850mm made of Stainless steel (AISI 316)			
Operation Controller Panel	LCD Display control panel for AIRFLOW controlling and monitoring • Visual & audible alarms • Air flow digital screen • Touch sensitive buttons for all the operations			
Average Inflow Velocity m/s	0.45			
Average Downflow Velocity m/s	0,25 / 0,50			
Filters (EN1822) Main Filter	H14 HEPA, 0.3 µm particulate 99.995%			
Filters (EN1822) Exhaust Filter	Not used in Laminar flow Cabinet			
Filters (EN1822) Front Filter	G4			
Cleanliness level (US FED 209E)	ISO 5 - Class 100			
Exhaust Fan Motor Capacity	Suitable for 10 m Horizontal and 3 m Vertical Long Air Channel			
Front Sash / Window Standard Opening	200mm ± 10mm			
Front Sash/Window Maximum Opening	530mm ± 10mm			
Noise Level (Normal Mode)	< 65 dB(A)			
Noise Level (Economy Mode)	< 55 dB(A)			
Illumination	850 – 1150 Lux			
Front Sash/Window Thickness	< 6 mm			
Power Consumption (Fan Filter Unit)	105 W		200 W	
Power Consumption (Lighting)	50 W			
Power Consumption (UV Lamp)	30 W			
Power supply (Voltage) Socket	220-240 V / 16A			
Supply Voltage / Frequency / Power /Current	230 V / 50 Hz / 2500 W / 16A			
Cabin Weight	205 kg	230 kg	270 kg	285 kg
Option	Fittings: Vacuum Valve			

Class II: A2 Biological Safety Cabinet

Class II: A2 Biological Safety Cabinet ensures the user, product and environment protection from the biohazard factor and prevents cross-contamination of various samples used in experiments. They recirculate 70% of the HEPA-filtered laminar air while 30% passes through an exhaust HEPA filter for discharge to the lab or optional canopy.

BIOLOGICAL SAFETY CABINETS

Model	ARS-2A2-90	ARS-2A2-120	ARS-2A2-150	ARS-2A2-180
External Dimensions (mm) (W x D x H)	1065x900x1450	1360x900x1450	1660x900x1450	1960x900x1450
Internal Dimensions (mm) (W x D x H)	900x630x650	1200x630x650	1500x630x650	1800x630x650
Stand Dimensions (mm) (W x D x H)	1060x870x750	1360x870x750	1660x870x750	1960x870x750
Exterior Body	Steel epoxy powder coated for chemical resistance			
Inner walls	Stainless steel (AISI 304)			
Worktop	Worktop floor height 850mm made of Stainless steel (AISI 316)			
Operation Controller Panel	LCD Display control panel for AIRFLOW controlling and monitoring • Visual & audible alarms • Air flow digital screen • Touch sensitive buttons for all the operations			
Average Inflow Velocity m/s	0.45			
Average Downflow Velocity m/s	0,25 / 0,50			
Filters (EN1822) Main Filter	H14 HEPA, 0.3 µm particulate 99.995%			
Filters (EN1822) Exhaust Filter	H14 HEPA, 0.3 µm particulate 99.995%			
Filters (EN1822) Front Filter	Not used in Class II A II			
Cleanliness level (US FED 209E)	ISO 5 - Class 100			
Exhaust Fan Motor Capacity	Air flow Qv 2400 m³/h			
Front Sash / Window Standard Opening	200mm ± 10mm			
Front Sash/Window Maximum Opening	530mm ± 10mm			
Noise Level (Normal Mode)	< 65 dB(A)			
Noise Level (Economy Mode)	< 55 dB(A)			
Illumination	850 – 1150 Lux			
Front Sash/Window Thickness	< 6 mm			
Power Consumption (Fan Filter Unit)	105 W		200 W	
Power Consumption (Lighting)	50 W			
Power Consumption (UV Lamp)	30 W			
Power supply (Voltage) Socket	220-240 V / 16A			
Supply Voltage / Frequency / Power /Current	230 V / 50 Hz / 2500 W / 16A			
Cabin Weight	205 kg	230 kg	270 kg	285 kg
Option	Fittings: Vacuum Valve			

Class II: B2 Biological Safety Cabinet

Class II: B2 Biological Safety Cabinet ensures the user, product and environment protection from the biohazard factor and prevents cross-contamination of various samples used in experiments. The type B2 total exhaust cabinets are widely used in toxicology laboratories and similar applications where chemical effluent is present and clean air is essential.
The air goes through a HEPA filter and is 100% exhausted through a dedicated duct with an exhaust fan motor. The air is then released into the atmosphere.

BIOLOGICAL SAFETY CABINETS

Model	ARS-2B2-90	ARS-2B2-120	ARS-2B2-150	ARS-2B2-180
External Dimensions (mm) (W x D x H)	1065x900x1450	1360x900x1450	1660x900x1450	1960x900x1450
Internal Dimensions (mm) (W x D x H)	900x630x650	1200x630x650	1500x630x650	1800x630x650
Stand Dimensions (mm) (W x D x H)	1060x870x750	1360x870x750	1660x870x750	1960x870x750
Exterior Body	Steel epoxy powder coated for chemical resistance			
Inner walls	Stainless steel (AISI 304)			
Worktop	Worktop floor height 850mm made of Stainless steel (AISI 316)			
Operation Controller Panel	LCD Display control panel for AIRFLOW controlling and monitoring • Visual & audible alarms • Air flow digital screen • Touch sensitive buttons for all the operations			
Average Inflow Velocity m/s	0.45			
Average Downflow Velocity m/s	0,25 / 0,50			
Filters (EN1822) Main Filter	H14 HEPA, 0.3 µm particulate 99.995%			
Filters (EN1822) Exhaust Filter	H14 HEPA, 0.3 µm particulate 99.995%			
Filters (EN1822) Front Filter	G4			
Cleanliness level (US FED 209E)	ISO 5 - Class 100			
Exhaust Fan Motor Capacity	Air flow Qv 2400 m³/h			
Front Sash / Window Standard Opening	200mm ± 10mm			
Front Sash / Window Maximum Opening	530mm ± 10mm			
Noise Level (Normal Mode)	< 65 dB(A)			
Noise Level (Economy Mode)	< 55 dB(A)			
Illumination	850 – 1150 Lux			
Front Sash / Window Thickness	6 mm			
Power Consumption (Fan Filter Unit)	105 W		200 W	
Power Consumption (Lighting)	50 W			
Power Consumption (UV Lamp)	30 W			
Power supply (Voltage) Socket	220-240 V / 16A			
Supply Voltage / Frequency / Power /Current	230 V / 50 Hz / 2500 W / 16A			
Weight	205 kg	230 kg	270 kg	285 kg
Option	Fittings: Vacuum Valve, gases			

LABORATORY BENCHES

A wide range of modular configurations are available for any type of laboratory

TABLE CONFIGURATION

Arias Labs System provides modular solutions for any special requirement and for all challenging space constraints with its versatile design. All our benches can be selected with various worktop materials for a variety of application possibilities in the laboratory. They are designed in a way that ensures flexibility and high levels of stability in order to provide you with the perfect platform for your research & equipment.

Arias offers 3 types of bench systems:

- C-frame system
- H-frame system
- On-plinth system

All our benches' frames are manufactured of epoxy polyester coated product that are made of zinc coated cold rolled steel resistant to chemical reagents.

Available Modular Configurations:

C-FRAME SYSTEM

The C-frame system was designed to provide a flexible modular solution with under bench registrable cover panels for easy maintenance & disinfection. It can incorporate different types of under bench cabinets: suspended, sliding or on-wheels depending on the client´s needs. Our c-frames are extremely stable and can load up to 200 kg/m².

C-frames are designed for different positions and styles:

- Wall bench
- Island bench
- Movable bench

Wall Laboratory Bench:

These frames are provided with a leveling system in contact with the floor as well as in contact with the working surfaces.
On the rear, it provides a structural support for the fixation of the service system, separated from the frame of the workbench, creating a space (service gallery) for the guiding of the mechanical, electrical, plumbing, and connections, easily accessible via removable covers.
Additional shelves could be added upon the request of the clients. These storage shelves are anchored to the vertical profiles and easily height adjustable. They are protected by coated epoxy polyester resin and have a 30-mm high back lip to prevent accidents.

	Width		Depth	Height
Unit: mm	900 / 1200 / 1500 / 1800		750 / 900	900 / 750
Front View				
Model	**BE-900**	**BE-1200**	**BE-1500**	**BE-1800**

Island Laboratory Bench:

Central laboratory bench based on a modular of self-supporting steel structure made of cold rolled steel pipe, rectangular and circular, treated and covered with Epoxy Polyester coated.
In the middle of the benches, a structure supports creating a space for the guiding of the mechanical, electrical, plumbing, connections with the required outlets, easily accessible via removable covers. The bench frames are provided with leveling legs.
Service galleries contain shelves and service spines that can be configured depending on the client´s needs. These storage shelves are anchored to the vertical profiles and easily height adjustable. They are protected by coated epoxy polyester resin and have a 30-mm high back lip to prevent accidents.

	Width		Depth	Height
Unit: mm	900 / 1200 / 1500 / 1800		1500 / 1650	900 / 750
Front View				
Model	**IBE-900**	**IBE-1200**	**IBE-1500**	**IBE-1800**

Movable Benches:

Movable benches are C frame benches mounted on 4 wheels, 2 of them are lockable. This design creates a flexible working environment for the end user.

	Width	Depth	Height
Unit: mm	1200 / 1500	750 / 900	900
Front View			
Model	**MBE-1200**		**MBE-1500**

H-FRAME SYSTEM

The H-frame system was designed to provide a heavy-duty modular solution with under-bench registrable cover panels for easy maintenance & disinfection. Our H-frames are extremely stable and can load up to 300 kg/m².

	Width		Depth	Height
Unit: mm	900 / 1200 / 1500 / 1800		750 / 900	900
Front View				
Model	**HBE-900**	**HBE-1200**	**HBE-1500**	**HBE-1800**

Corner Panel

The corner panel for benches is used to connect the benches at the corner, made of laminated steel with epoxy coated. It has a registrable cover panel for easy maintenance.

	Width	Depth	Height
Unit: mm	750 / 900	750 / 900	750 / 900
Front View			
Model	**CP-A75D | CP-A90D**		

ON PLINTH SYSTEM

The on-plinth system was designed to provide a solution with under-bench registrable cover panels for easy maintenance & disinfection. Underbench cabinets will be used to support worktops, without the need to use C or H-type frames. Each underbench unit is fitted with leveling legs & covered with a plinth.

	Knee space Width	Depth	Height
Unit: mm	830 / 1130	750 / 900	900 / 750
Front View			
Model	**ZBE-1200**	**ZBE-1500**	

Balance Bench

Anti-vibration or balance bench has a self-supporting metal separate structure with elements of isolation and a vibration-free plate. Ideal for setting up analytical balances and other sensitive measuring equipment.

General Characteristics:

- For weighing sensitive measurements with analytical balances
- Bench frame with worktop and vibration-free plate installed with 2 internal separate structures
- Not suited for laboratory operations requiring the extraction of dangerous chemicals

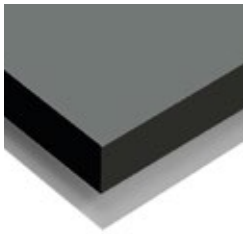
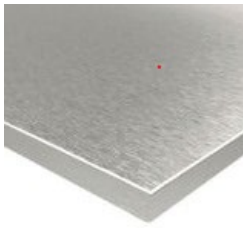
	Height	Width	Depth
Unit: mm	900	900 /1200	750 / 900
Front View			
Model	**BB-900**	**BB-1200**	

WORKTOPS

WORKTOPS

Arias collaborates with a number of worktop providers to ensure that the end user gets the best quality for their laboratory surfaces.

Worktop Types:

	Ceramic	Epoxy	Phenolic Laminate (HPL)	Stainless Steel
Material	Ceramic	Resin with a hardener	Paper & resin based	Stainless Steel
Corrosive Chemical Resistance	High with no color change	High with noticeable color change	High with minor color change	Moderate
Lab Application	Moderate duty	Heavy duty	Moderate duty	Moderate to heavy duty
Temperature Resistance	High	High	Moderate to High	High
Sample Environment	Chemical, Industrial	Chemical, Industrial	Chemical, Industrial, Medical, & biological	Biology, food & beverages
Scratch Resistance	High	Weak to Moderate	High	Weak
Images				

SINK UNITS

SINKS IN WALL OR ISLAND POSITION

Sink units are highly essential pieces of furniture in laboratory operations. Sinks can be connected to the various service systems available or be installed as individual units.
The Top sink is available in many materials: HPL, polypropylene, ceramic, stainless Steel, & epoxy.
The sink bowls are available in many materials like: Ceramic, Stainless Steel, Epoxy and Polypropylene.

	Ceramic	Epoxy	PP	Stainless Steel
Material	Ceramic	Resin with a hardener	Polypropylene	Stainless Steel
Corrosive Chemical Resistance	High with no color change	High with noticeable color change	High with no color change	Moderate
Lab Application	Moderate duty	Heavy duty	Moderate duty	Moderate duty
Temperature Resistance	High	High	Moderate	High
Sample Environment	Chemical, Industrial	Chemical, Industrial	Chemical, Industrial, Medical, & biological	Biology, food & beverages
Scratch Resistance	High	Weak to Moderate	Weak	Weak
Images				

SINKS IN WALL OR ISLAND POSITION

	Width		Depth	Height
Unit: mm	600 / 900 / 1200 / 1500		750	900
Front View				
Model	**FRE-600**	**FRE-900**	**FRE-1200**	**FRE-1500**

STORAGE UNITS

MATERIAL TYPES

All our storage units are made from steel epoxy-coated or melamine with an ergonomic design to ensure the safety, durability & functionality of the units.

Design Characteristics	Components
Load-bearing capacity per shelf (kg)	30
Construction	Body 1 part Adjustable shelves Door opening at 270º hinges 4 Paired polyamides, 2 with brake 4 heights adjustable feet
Combination possibilities	Drawers and doors
Handle	Zamak with in satin nickel
Drawers	Soft-Closing, fully extensible drawers

STEEL STORAGE UNITS

Entirely built of cold-laminated galvanized steel, for different uses with high-quality accessories that can sustain harsh laboratory environments:

- Underbench cabinets
- Overhead cabinets
- Tall storage cabinets
- Open shelves units

MELAMINE STORAGE UNITS

Made of melamine, for different uses with high-quality accessories that can sustain harsh laboratory environments:

- Underbench cabinets
- Overhead cabinets
- Tall storage cabinets

CABINETS DESIGN

Arias provides a wide variety of storage cabinets:

- On-Wheel Cabinets
- Suspended Cabinets
- Sliding Cabinets
- On-Plinth Cabinets
- Corner Storage Cabinets
- Overhead Cabinets
- Tall Cabinets

They are all available in different sizes and designs to meet the needs & requirements of end users. All our cabinets comply with the following standard: "UNE EN 14727:2006.

ON WHEELS

Under-bench cabinets on wheels are the best choice to have high flexibility for your benches to reconfigure them as you may wish in the future once you add new equipment. They can have 1 door, 1 door / 1 drawer or 4 drawers. Cabinets come with 4 wheels, 2 of them with breaks. Each cabinet includes an internal adjustable shelf.

• Cabinet on wheels for H900

	Width			Depth	Height
Unit: mm	450 / 600 / 900			500	782
Front View					
Model	**CAB4-1PR**	**CAB4-1P1CR**	**CAB4-4CR**	**CAB9-2PR**	**CAB9-2P1CR**

• Cabinet on wheels for H750

	Width	Depth	Height
Unit: mm	450	500	632
Front View			
Model	**CAB4-1PR-H75**	**CAB4-1P1CR-H75**	**CAB4-3CR-H75**

SUSPENDED CABINETS

Underbench suspended cabinets are an innovative design for an easy cleaning and more free space. Cabinets can have 1 door, 1 door/1 drawer or 4 drawers. Each cabinet includes an internal adjustable shelf.

SLIDING CABINETS

Sliding cabinets are the new design provided by Arias to support the evolving lab needs and requirements. It is a solution between suspended and on wheels as it allows end users to choose the position of the cabinet under the bench without having to use wheels.
They can have 1 door, 1 door/1 drawer or 4 drawers. Each cabinet includes an internal adjustable shelf.

• Suspended/Sliding Cabinet for H900

	Width			Depth	Height
Unit: mm	450 / 600 / 900			500	782
Front View					
Model	**CAB4-1PS**	**CAB4-1P1CS**	**CAB4-4CS**	**CAB9-2PS**	**CAB9-2P1CS**

• Suspended/Sliding Cabinet for H750

	Width	Depth	Height
Unit: mm	450	500	632
Front View			
Model	**CAB4-1PS-H75**	**CAB4-1P1CS-H75**	**CAB4-3CS-H75**

ON-PLINTH CABINETS

Cabinet On-plinth is the classic bench system that does not require table frames. This type of cabinets holds the worktop by itself. It can have 1 door, 1 door/1 drawer or 4 drawers. Each cabinet includes an internal adjustable shelf.

	Width			Depth	Height
Unit: mm	450 / 600 / 900			500	800
Front View					
Model	**CAB4-1PZ**	**CAB4-1P1CZ**	**CAB4-4CZ**	**CAB9-2PZ**	**CAB9-2P1CZ**

CORNER STORAGE CABINET

A corner storage cabinet is a type of furniture that is designed to fit into the corner of a room, maximizing space and allowing for easy access to the contents inside. It is typically used to store items such as equipment, glassware or other supplies. The advantage of a corner storage cabinet is that it can help to save space in a room that might otherwise be unused. With adjustable shelves.

	Width	Depth	Height
Unit: mm	750 / 900	750 / 900	750 / 900
Front View			
Model	**CP-A75D | CP-A90D**		

OVERHEAD CABINETS

Wall mounted cabinets are used to provide the end user with more storage space all around the lab walls to free more working areas. All have an internal adjustable shelf.

There are 3 types of cabinets available:

- With glass doors
- With steel doors
- With no doors

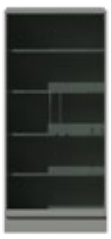
	Width		Depth	Height
Unit: mm	600 / 900 / 1200		370	700
Front View				
Model	**WCAB6-1P** **WCAB6-1PV**	**WCAB9-ENT** **WCAB12-ENT**	**WCAB9-2P** **WCAB12-2P**	**WCAB9-COR** **WCAB12-COR**

TALL STORAGE CABINETS

Tall cabinets can be used for different storage purposes (glassware, balances and small devices...). The tall storage is available in different designs to adjust to the end user needs.

- Tall storage with 2 glass doors with hinges in upper part and 2 blinded doors in lower part
- Tall storage with 2 glass sliding doors in upper part and 2 blinded doors in lower part.
- Tall storage with 2 blinded doors
- Tall storage with 2 glass doors
- Tall storage with open shelves in upper part and 2 blinded doors in lower part

All shelves are height-adjustable.

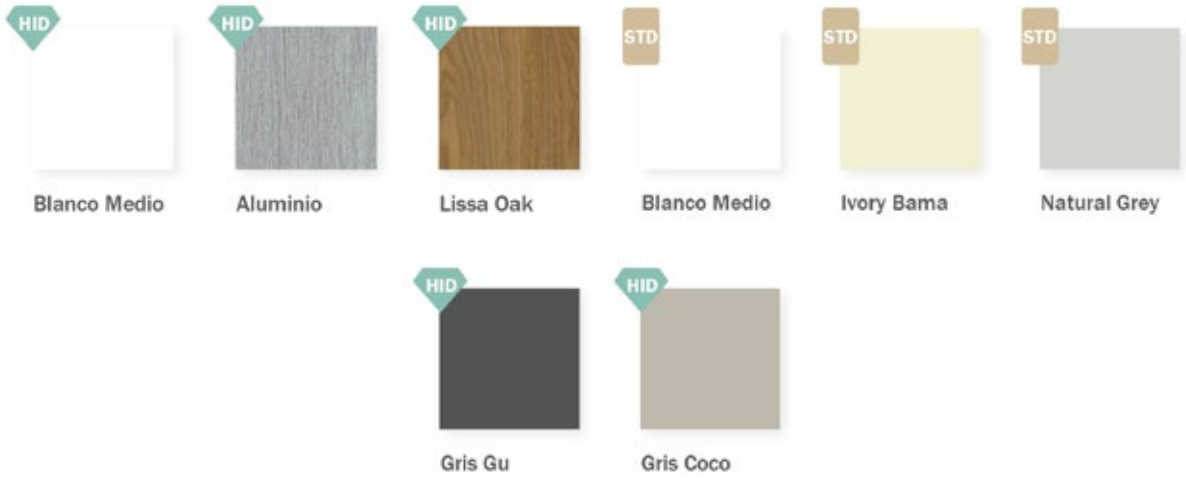
	Width		Depth	Height
Unit: mm	900 / 1200		460	1950
Front View				
Model	**MA9-2P** **MA12-2P**	**MA9-2PV** **MA12-2PV**	**MA9-2P2V** **MA12-2P2V**	**MA9-2PENT** **MA12-2PENT**

COLOURS

Epoxy coated steel cabinets and metal components:
For the steel cabinets and our benches metal components, we use 3 standard colours.

RAL 7035 | RAL 9003 | RAL 9007

Melamine particle board cabinets:
The melamine cabinets have MDF laminate panels of 18 mm thickness with a wide choice of colours on the coated surface.



Other Storage Units designs:

OPEN SHELF

Made of epoxy-coated steel, for different uses with adjustable shelves with a load capacity of 80 KG for each LM.
Open lab shelving is a type of storage system that is commonly used in laboratories, schools, and other research facilities. These shelving units are designed to hold and organize a variety of laboratory equipment, materials, and supplies. They are called "open" because they do not have doors or other enclosures, allowing easy access to the items stored on the shelves.
In addition to organizing lab equipment, open lab shelving can be used to store chemicals, reagents, and other lab materials that are used in experiments and research.

	Height	Width	Depth
Unit: mm	1800	900 / 1200	500
Front View			
Model	**ESTAL-900**	**ESTAL-1200**	

TALL CHEMICAL CABINETS

Internal volume: approx. 408 litres.

Accessories

Possibility to provide the cabinet with activated charcoal filters and fan.

Constructed entirely from pickled and electrogalvanized steel, coated with powdered epoxy acid-resistance, then passage through a 200° C. thermic tunnel. Painting thickness of no less than 60 m (micron).

Completely sealed external monolithic structure. New construction using internal and exterior double cases.
Included electrogalvanized steel basins with watertight bottoms coated with epoxy anti-acid.

- Doors opening to 180°
- Key lock
- Acid-proof hinges
- "Danger" warning stickers on the doors

Tall Chemical Storage	Sizes		
Width (mm)	600mm	900mm	1200mm
Depth (mm)	500mm	500mm	500mm
Height (mm)	1980mm	1980mm	1980mm

SERVICE GALLERIES

SERVICE GALLERIES

At Arias we have a wide range of service galleries that can be customized as per client´s requirements in order to ensure a safe & flexible working environment. The ergonomic design of the service galleries allows easy access to connection points, permitting the passage of pipes inside it with outlets at the required position, avoiding any running over at the working area.

Service Gallery Types:

- Wall Gallery
- Island Gallery
- Horizontal Service Spine
- Shelves Models

WALL GALLERY

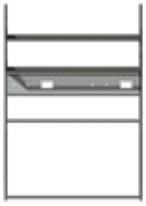
We have 2 types of wall gallery:

• With Service Spine

Gallery for wall benches with service spine system with ergonomic design that allows easy access to connection points, permitting the passage of pipes inside it with outlets at the required position, avoiding any running over the working area.

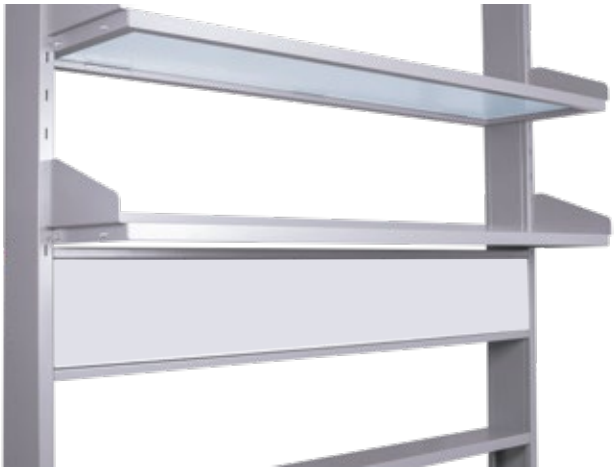
The service spine could be complemented by 1 or 2 raw shelves facing the user. Built according to Standard EN-14135, these shelves are easily height-adjustable without need to have them dismantled.

Shelves are available in steel or in glass.

	Width		Depth	Height
Unit: mm	900 / 1200 / 1500 / 1800		400 / 650	2120
Front View				
Model	**GCA-90C GCA-90**	**GCA-120C GCA-120**	**GCA-150C GCA-150**	**GCA-180C GCA-180**

SERVICE GALLERIES

	Width	Depth	Height
Unit: mm	1200 / 1500 / 1800	400 / 650	2120
Front View			
Model	**GCB-120C** **GCB-120**	**GCB-150C** **GCB-150**	**GCB-180C** **GCB-180**



• Without Service Spine

Gallery for wall benches without service spine system used to have services and outlets top mounted. The position of outlets has to be defined previously by the client.

The service spine could be complemented by 1 or 2 raw shelves. Built according to Standard EN-14135, these shelves are easily height-adjustable without need to have them dismantled. Shelves are available in steel or in glass.

ISLAND GALLERY

We have 2 types of island gallery:

• With Service Spine

Gallery for island benches with service spine system with ergonomic design that allows easy access to connection points, permitting the passage of pipes inside it with outlets at the required position, avoiding any running over the working area. The service spine could be complemented by 1 or 2 raw shelves on both sides. Built according to Standard EN-14135, these shelves are easily height-adjustable without need to have them dismantled. Shelves are available in steel or in glass.

	Width		Depth	Height
Unit: mm	900 / 1200 / 1500 / 1800		400 / 650	2120
Front View				
Model	**GCA-90C GCA-90**	**GCA-120C GCA-120**	**GCA-150C GCA-150**	**GCA-180C GCA-180**

SERVICE GALLERIES

	Width	Depth	Height
Unit: mm	1200 / 1500 / 1800	400 / 650	2120
Front View			
Model	**GCB-120C** **GCB-120**	**GCB-150C** **GCB-150**	**GCB-180C** **GCB-180**

• Without Service Spine

Gallery for island benches without service spine system used to have services and outlets top mounted. The position of outlets has to be defined previously by the client.

The service spine could be complemented by 1 or 2 raw shelves on both sides. Built according to Standard EN-14135, these shelves are easily height-adjustable without need to have them dismantled.

Shelves are available in steel or in glass.

HORIZONTAL SERVICE SPINE

Laboratory trunking services supply at benches made of laminated steel and protected by epoxy paint. With registrable cover panels for easy maintenance. Modular system that can make different configurations. Integration of all service outlets including sockets and multiple connectors for information technology.

	Width	Depth	Height
Unit: mm	900 / 1200 / 1500	80	166
Front View			
Model	**CEM-90**	**CEM-120**	**CEM-150**

SHELVES MODELS

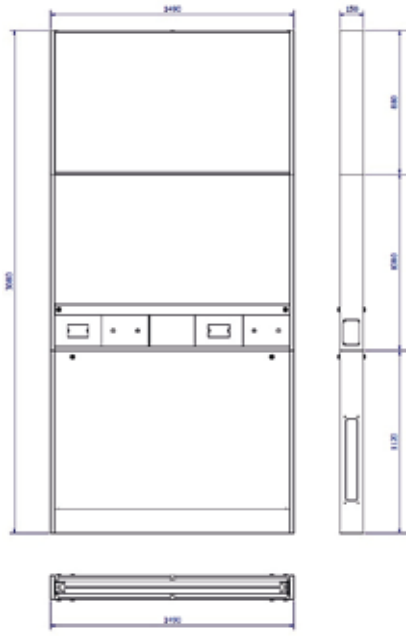
All gallery systems could be complemented by 1 or 2 raw shelves for one or both sides. These are anchored to the vertical profiles with steel zinc coated injection brackets coated in epoxy-polyester resin with a metallic finish. These shelves are easily height-adjustable. They are protected by coated epoxy polyester resin; they also have a 30mm high back lip to prevent accidents.

Shelves are available in 2 types:

- Steel
  Steel shelves protected by coated epoxy polyester resin.
- Glass
  Tempered glass used on our shelves is 3 times stronger than regular glass. In addition to its strength, it also has excellent chemical resistance and light penetration to prevent and detect contaminations and leaks of reagent.

WALL PARTITIONS & SERVICE COLUMN

WALL PARTITIONS & SERVICE COLUMN



Wall Partitions are a growing demand in research laboratories. A movable table can be added to the wall partition and use its service spine providing a maximum level of flexibility and adaptability in the laboratory.

The wall service spine includes modular and interchangeable panels, that can be adapted to any need.

Wall partitions include back panels to have an easy access to the services and registrable cover panels for easy maintenance.

Available in two options:

- Full steel
- Full steel with glass

WALL PARTITIONS & SERVICE COLUMN

A **Service column** has the main function of service connections from the ceiling and/or floor to the laboratory benches. Providing services to users, through gallery or horizontal electrical trunking systems, and may contain services in the panels, (gases, water, electricity and data).
The modular system's adaptability to different dimensions is possible through its flexibility and evolution, configurations and needs. It provides the opportunity to be central for central benches, mural for wall benches and finally they can have the total height of the room, with mural fixation and bench fixation. A service column is equipped with registrable cover panels, which facilitates easy maintenance and, if necessary, the future connections of services.

Services supplied from the ceiling or from the floor for:

- Laboratory devices on mobile tables or under-bench positions
- Floor-mounted laboratory devices
- Version with one or two sides
- Design versions for genetical engineering areas
- Additional storage area through the connection of service modules with reagent repositories.

	Width	Depth	Height
Unit: mm	330 / 900 / 1200 / 1500	150	3000
Front View			
Model	**BAJG-330**	**TAB-90 TAB-120 TAB-150**	**TABV-90 TABV-120 TABV-150**

ACCESSORIES

ACCESSORIES

At Arias, we are using a set of high quality accessories, that can withstand the harsh environment of the lab to ensure the product safety, durability and quality.

LABORATORY TAPS

A large choice of laboratory taps that comply with the most demanding regulations for taps and fittings (DIN12918), for handles (EN13792) and for nozzle fittings (DIN12898).

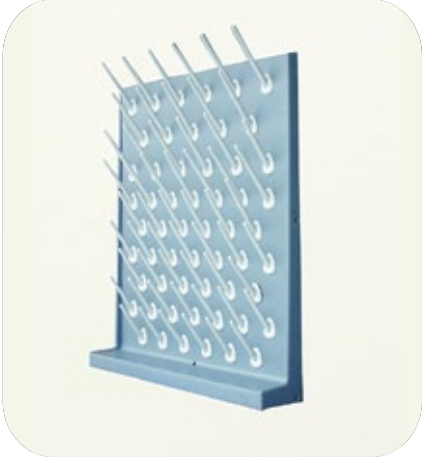
LABORATORY PRESSURE REGULATORS

For high purity gases (like carbon dioxide, hydrogen, helium & nitrogen), a large choice of regulators with gauge, inlet at rear, outlet downwards is provided.
A great variety of assembly possibilities in laboratory furniture with the required Gas type specific colour indication labels according to DIN13792.
May be combined with inlet shut-off valves, wall connectors, metering valves, different gauges and diverse accessories.

ELECTRICAL SOCKETS

Electrical socket supports compatible with containers (European and British standard). They are available in different colors.

PEG BOARDS



Made with High Density PP material, our pegboard standard size is L400*W108*H550mm. With droplet water rack, single faced with a drainage hole in the middle of one-sided bottom tray for water drainage. It has removable drip stick with locking function, easy to use.
Detachable peg: Convenient for use
Installation: Could be panel mounted or deck mounted
Colour: Available in grey and black

SAFETY SHOWER

Made by galvanized steel piping with brass fittings and anti-corrosive coating in high visibility yellow or red colour. Recommended water inlet pressure 2 bar/Min. 1.5 bar/Max. 8 bar.
Shower head in ABS plastic and could include an eyewash as an additional option. It has two high flow aerated water sprays at low pressure with automatic opening anti-dust cover, and a push handle for operation.

EYE WASH

Can be a double or 1 single mouth eyewash. The eye wash body is made by solid brass. Coating: High gloss epoxy powder, resistant to most chemicals, UV fading & heat. Spray head: soft rubber, softened water spray for eye protection. Dust Cup: PP, removed automatically when eye wash is operated. PVC pipe with stainless steel wire braided, wrapped by PE pipe for rust and leakage relief. Max. working pressure: 6 Bar.

ARM EXHAUST

Local extractor arm hood. An ergonomic and space saving solution for simple and light applications in the Laboratory. Ducting and exhaust fan of this arm comes separate and are quoted separately.

LABORATORY CHAIR

Ideally suited for tall counter height work areas.

Specifications:

- Variety of colours available.
- Chroming steel footrest ring.
- Nylon ESD 5 wheels.
- ESD Polyurethane foaming chair.

LABORATORY STOOL

Ideally suited for desk work areas.

Specifications:

- Variety of colours available.
- Height adjustment by gas spring (42-54 cm)
- Artificial leather covered seat.
- Plastic coated skeleton.
- 5 pieces rotating castors.

PRODUCT REFERENCE LIST

PRODUCT REFERENCE LIST

Sink Unit

	Width	Depth	Height
Unit: mm	600 / 900 / 1200 / 1500	750	900

Front View

Model	FRE-600	FRE-900	FRE-1200	FRE-1500

Movable Cabinet

	Width	Depth	Height
Unit: mm	450 / 600 / 900	500	782

Front View

Model	CAB4-1PR	CAB4-1P1CR	CAB4-4CR	CAB9-2PR	CAB9-2P1CR

Movable Cabinet for H750

	Width	Depth	Height
Unit: mm	450	500	632

Front View

Model	CAB4-1PR-H75	CAB4-1P1CR-H75	CAB4-3CR-H75

Suspended / Sliding Cabinet

	Width	Depth	Height
Unit: mm	450 / 600 / 900	500	782

Front View

Model	CAB4-1PS	CAB4-1P1CS	CAB4-4CS	CAB9-2PS	CAB9-2P1CS

PRODUCT REFERENCE LIST

Suspended / Sliding Cabinet for H75

	Width	Depth	Height
Unit: mm	450	500	632
Front View			
Model	CAB4-1PS-H75	CAB4-1P1CS-H75	CAB4-3CS-H75

On-Plinth Cabinet

	Width			Depth	Height
Unit: mm	450 / 600 / 900			500	880
Front View					
Model	CAB4-1PZ	CAB4-1P1CZ	CAB4-4CZ	CAB9-2PZ	CAB9-2P1CZ

Wall Bench

	Width	Depth	Height
Unit: mm	900 / 1200 / 1500 / 1800	750 / 900	900 / 750
Front View			
Model	BE-900	BE-1200	BE-1500	BE-1800

Island Bench

	Width	Depth	Height
Unit: mm	900 / 1200 / 1500 / 1800	1500 / 1650	900 / 750
Front View			
Model	IBE-900	IBE-1200	IBE-1500	IBE-1800

PRODUCT REFERENCE LIST

Movable Bench

	Width	Depth	Height
Unit: mm	1200 / 1500	750 / 900	900

Model	MBE-1200	MBE-1500

H-Frame Bench

	Width	Depth	Height
Unit: mm	900 / 1200 / 1500 / 1800	750 / 900	900

Front View

Model	HBE-900	HBE-1200	HBE-1500	HBE-1800

On-Plinth Bench

	Knee space Width	Depth	Height
Unit: mm	830 / 1130	750 / 900	900 / 750

Front View

Model	ZBE-1200	ZBE-1500

Balance Bench

	Width	Depth	Height
Unit: mm	900 / 1200	750 / 900	900

Front View

Model	BB-900	BB-1200

PRODUCT REFERENCE LIST

Overhead Cabinet

	Width	Depth	Height
Unit: mm	600 / 900 / 1200	370	700

Front View

Model			
	WCAB6-1P WCAB6-1PV	WCAB9-ENT WCAB12-ENT	WCAB9-2P WCAB12-2P	WCAB9-COR WCAB12-COR

Tall Storage Cabinet

	Width	Depth	Height
Unit: mm	900 / 1200	460	1950

Front View

Model			
	MA9-2P MA12-2P	MA9-2PV MA12-2PV	MA9-2P2V MA12-2P2V	MA9-2PENT MA12-2PENT

Open Shelf

	Width	Depth	Height
Unit: mm	900 / 1200	500	1800

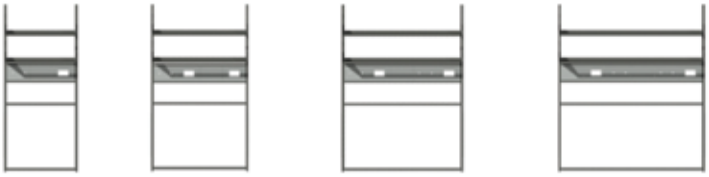
Front View

Model		
	ESTAL-900	ESTAL-1200

Gallery System for Wall and Central Tables

	Width	Depth	Height
Unit: mm	900 / 1200 / 1500 / 1800	400 / 650	2120

Front View



Model			
	GCA-90C GCA-90	GCA-120C GCA-120	GCA-150C GCA-150	GCA-180C GCA-180

PRODUCT REFERENCE LIST

Gallery System for Wall and Central Tables

	Width	Depth	Height
Unit: mm	1200 / 1500 / 1800	400 / 650	2120
Front View			
Model	GCB-120C GCB-120	GCB-150C GCB-150	GCB-180C GCB-180

Wall Partitions

	Width	Depth	Height
Unit: mm	330 / 900 / 1200 / 1500	150	3000
Front View			
Model	BAJG-330	TAB-90 TAB-120 TAB-150	TABV-90 TABV-120 TABV-150

Service Spine

	Width	Depth	Height
Unit: mm	900 / 1200 / 1500	80	166
Front View			
Model	CEM-90	CEM-120	CEM-150

Corner Panel

	Width	Depth	Height
Unit: mm	750 / 900	750 / 900	750 / 900

Front View

Model	CP-A75D CP-A90D

Corner Storage

	Width	Depth	Height
Unit: mm	750 / 900	750 / 900	750 / 900

Front View

Model	CP-A75D CP-A90D

CERTIFICATIONS

ARIAS LABS SYSTEM CERTIFICATIONS

Our company meets the highest European standards, quality and safety are our absolute priority.

AIDIMME
TECHNOLOGY INSTITUTE

TEST CERTIFICATE nº 230.Z.1608.479.EN.01

References: 1606142-01 – 1707049-01– Ci

PRODUCT: Laboratory module hung unit,
Code: CAB4C-1PD1C.
Additional code module: CAB4C-1PD, CAB4C-1PI, CAB4C-1PI1C, CAB4C-4C

COMPANY: **ARIAS LABS SYSTEM, S.L**
St/ FUENTE ALAMO, 16
28400 COLLADO VILLALBA (MADRID)
Phone.: +34 608 51 55 24
VAT: B 87540787

TEST: Compliance with the following standards:
"UNE EN 14727:2006"
Laboratory furniture - Storage units for laboratories - Requirements and test methods.

RESULT: The model tested satisfactorily fulfills the especifications for the standards applied in the following sections:

TESTS	RESULT
- Sect. 6 - General safety requirements	CORRECT
- Sect. 7.1.1 – Stable position of the shelves	CORRECT
- Sect. 7.1.2 – Deflection of shelves	CORRECT
- Sect. 7.2 – Strength test of shelf supports	CORRECT
- Sect. 7.3.2 – Strength of pivoted doors	CORRECT
- Sect. 7.3.4 – Durability of pivoted doors with hinges (n= 50.000 cycles)	CORRECT
- Sect. 7.5.2 – Slam open of drawers	CORRECT
- Sect. 7.5.3 – Strength of the drawers	CORRECT
- Sect. 7.5.4 – Durability of the drawers (n= 50.000 cycles)	CORRECT
- Sect. 7.5.5 – Displacement drawer bottom	CORRECT
- Sect. 7.7.2 – Static load on top surfaces of storage units	CORRECT

Paterna, September 14, 2017

AIDIMME
Signed. José Emilio Nuévalos
Head of Furniture Laboratory

This certificate only refers to the samples tested by the AIDIMME laboratory.
The particular results of the tests are described in technical report Nº 230.I.1709.522.ES.01 dated on 07/24/2017

AIDIMME is a member of INNOVAWOOD, The European Network of Research and Training for the Forest, Wood and Furniture Industry, among whose members are: BRE-CTTC (United Kingdom), COSMOB (Italy), DTI (Denmark), FCBA (France), ITD (Poland), SHR (Holland), SP Trätek (Sweden), TRADA-FIRA (United Kingdom), University of Zagreb (Croatia), WKI (Germany).

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www.aidimme.es

ARIAS LABS SYSTEM CERTIFICATIONS

ASHRAE110-1995:

invent-uk

ANSI/ASHRAE 110-1995 Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH ASHRAE 110-1995

CERTIFICATE & REPORT NO: INV/ASHRAE110/872
ISSUE DATE: 25th September 2018

Fume Hood Supplier:
Arias Labs System
Hermanos Lumiere 12
28500 Arganda
Madrid
SPAIN

invent-uk 25/09/18 CERTIFIED

Fume Hood Type:
1.5m wide bench-type vertical-sash
External Dimensions:
Height = 2400mm
Width = 1500mm
Depth = 900mm
Internal Dimensions:
Height = 1060mm
Width = 1400mm
Depth = 660mm (wall-sash)
600mm (baffle-sash)
Baffle Gap Dimensions:
Top gap: 25mm
Bottom gap: 200mm

Test Opening:
Width: 1200mm
Height: 500mm

Fume Hood Flow:
Flow rate: 0.340m^3/s
Face velocity: 0.52m/s
Press drop: 140Pa (at 250mmD)

Fume Hood Containment:
Position P1: <0.020ppm
Position P2: <0.020ppm
Position P3: <0.020ppm
Edge scan: <0.020ppm

This is to certify that the fume hood described above has been type-tested in accordance with ASHRAE 110-1995 and resulted in performance characteristics given in the corresponding test report.

Tested and Certified by: Dr A F Bicen

A.F. Bicen

Invent UK Ltd, 85 Southdown Road, Harpenden, Herts AL5 1PR
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ARIAS LABS SYSTEM CERTIFICATIONS

EN14175:

invent-uk

EN 14175 Flow Containment & Instrumentation

CERTIFICATE OF TYPE TESTING IN ACCORDANCE WITH EN 14175, PART 3

CERTIFICATE & REPORT NO: INV/EN14175/871
ISSUE DATE: 25th September 2018

Fume Cupboard Supplier:
Arias Labs System
Hermanos Lumiere 12
28500 Arganda
Madrid
SPAIN

invent-uk 25/09/18 CERTIFIED

Fume Cupboard Type:
1.5m wide bench-type vertical-sash
External Dimensions:
Height = 2400mm
Width = 1500mm
Depth = 900mm
Internal Dimensions:
Height = 1060mm
Width = 1400mm
Depth = 660mm (wall-sash)
600mm (baffle-sash)
Baffle Gap Dimensions:
Top gap: 25mm
Bottom gap: 200mm

Test Opening:
Width: 1200mm
Height: 500mm

Fume Cupboard Flow:
Flow rate: $0.340 m^3/s$
Face velocity: 0.518m/s
Press drop: 140Pa (at 250mmD)

Fume Cupboard Containment:
Inner-plane containment:
C_1: <0.010ppm
Outer-plane containment:
C_2, C_3, C_4, C_5: <0.010ppm
Robustness of containment:
C_R: 0.011ppm

This is to certify that the fume cupboard described above has been type tested in accordance with Part 3 of EN 14175, in compliance with the requirements of Part 2 and with reference to Part 1, and resulted in performance characteristics given in the corresponding test report.

Tested and Certified by: Dr A F Bicen

A.F. Bicen

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ARIAS LABS SYSTEM CERTIFICATIONS

AIDIMA

TEST CERTIFICATE nº 230.Y.1605.282.EN.01

Reference: 1604013-01 – C-i

PRODUCT: Table for laboratory model:
"ARIAS / BF9-12-D / BASIC FRAME 1200"

COMPANY: ARIAS LABS SYSTEM, S.L
St./ FUENTE ALAMO, 16
28400 COLLADO VILLALBA (MADRID)
Phone: 608 51 55 24
VAT: B 87540787

TEST:
"UNE EN 13150:2001"
WORKBENCHES FOR LABORATORIES. DIMENSIONS, SAFETY REQUIREMENTS AND TEST METHODS.

RESULT: The model tested satisfactorily fulfills the especifications for the standard applied in the following tests carried out:

TEST	RESULT
- Sect. 4 – Recommended Dimensions	CORRECT
- Sect. 5 – General safety requirements	CORRECT
- Reflection of the surface according to (ISO 2813) to 60°	13,6
- Sect. A.3.1 - Horizontal Static Load Test (Fh= 600 N)	CORRECT
- Sect. A.3.2 - Vertical Static Load test (Fv= 2000 N)	CORRECT
- Sect. A.3.5 - Stability Test Versus Horizontal Impact (M=50 kg, h = 40 mm)	STABLE
- Sect. A.3.6 - Stability under vertical load (Fv= 1000 N)	STABLE

Paterna, 29th April 2016

Signed: José Emilio Nuévalos
Head of Furniture Laboratory

This certificate only refers to the samples tested by the AIDIMA laboratory.

The particular results of the tests are described in technical report ref.: 1604013-01 dated on 29/04/2016.

AIDIMA is a member of INNOVAWOOD, The European Network of Research and Training for the Forest, Wood and Furniture Industry, among whose members are: CATAS SPA (Italy), COSMOB (Italy), CTIB-TCHN (Belgium), DTI (Denmark), ELKEDE (Greece), EMPA (Switzerland), FCBA (France) HFA (Austria), IHD (Germany), ITD (Poland), SHR (Holland), SP Trätek (Sweden), TRADA-FIRA (United Kingdom), University of Zagreb (Croatia), VTT (Finland), WKI (Germany).

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