



More than 180 years of commitment

The company **Flores Valles** was founded in **1830** and is the oldest industrial company in Madrid. For 180 years it has been dedicated to **state of the art Industrial Kitchens** and for more than 50 years to **Technical Laboratory Equipment**.

Currently and over many years, **Flores Valles** has established itself as a strong and **financially independent industrial group** consisting of several companies, with more than 300 employees and a commercial presence in more than **35 countries**.

Flores Valles is a **consolidated** group that seeks above all, the **satisfaction** of our clients. Commitment, obligation and responsibility are the three fundamental pillars that guide our work on a daily basis, together with the goal of constant improvement.



Fume Hoods



Our Values, Your Satisfaction

Quality, Safety and Efficiency

Most of hazardous tasks performed in a laboratory should be carried out inside a fume hood.

For this reason, at **Flores Valles Hoods Division** we work so that our fume hoods and grossing workstations are of the **highest Quality**. We develop products with the most advanced technology that combines and guarantees above all **safety, cost effectiveness** and **energy efficiency**.



Calle Isla de Jamaica, 10
28034, Madrid, Spain.
 Tel.+34 91 761 10 94 | Fax. +34 91 761 10 97
 export@floresvalles.com
 www.floresvalles.com

Flexibility

Under the premise of remaining integrated in a scientific environment in continuous evolution, we have created Technical Laboratory Furniture and laboratory products able to respond to any present or future need of the most demanding user.

Designing the laboratories of the future

Safety, flexibility or capacity are some of the concepts which in a subtle aesthetic balance define our Line of Technical Products for Adapta System Laboratories.

The most advanced steel treatments available to the scientific world, generating a perfect synthesis between design and technology.

★ Quality

Continous improvement, our *raison d'être*

At Flores Valles Hoods Division we insist on Quality as a basic parameter of our work. Our primary concern is dedication both to the manufactured product and the company itself, always by means of constant improvement in our processes and methodologies.

A High Quality Product

All our products are certified under the most demanding global standards, as EN14175 and ANSI/ASHRAE.

ADIPROL®: Low reticulated thermopolymerized resin. Improves the behaviour of the Epoxy coating against chemical attacks by acids, chlorinated organic compounds, sulfonates, nitrates, aromatics and ketones.



Shield Safety

Safety is our priority

For our R+D+i team, safety in the Laboratory is a priority which is embodied in the selection of the raw materials and in the design of the equipment. Many of the jobs carried out in a Laboratory involve a high level of risk for the user.



A Design linked to Safety

The design and the use of the highest-quality Steel guarantees all the safety evaluations expressed in standard EN14175 with regard to Containment and Robustness.

All our designs have been developed by a team of aeronautical engineers, ensuring that the air flow is distributed equally throughout.

Leaf Efficiency

Air conditioning and energy saving

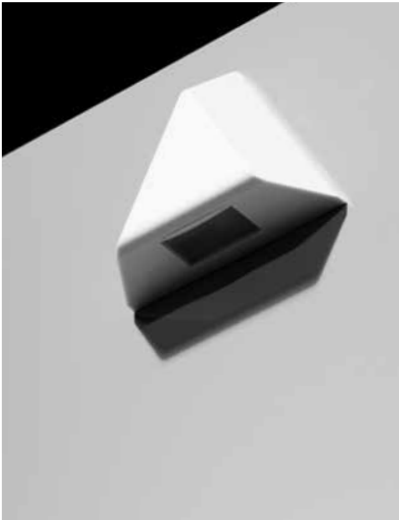
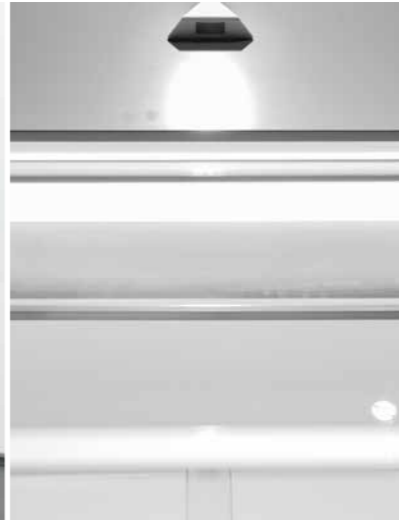
Once the safety of the user is guaranteed, which is the main objective of a Fume Hood, a proper Laboratory project must include the requirements of these as part of the air conditioning of the room or of the building. This way, it is possible to reduce the average cost of air and the environmental impact of its expulsion to the exterior.

Ergonomics

In addition to safety, when developing of our range of Fume Hoods we have kept very much in mind the comfort of the user. All models contain many details which make use and maintenance easier.

Low environmental impact

The intensive use of metallic and inert materials in our production ensures that our fume hoods have an extremely low environmental impact at the end of their useful life. Almost all the components are recyclable.



Fume Hoods for General Use

Interior cabin coated in **ADIPROL®** and stainless steel

Internal lighting >500 lux, Protection IP65
Electrical sockets: "Schuko": CEE 7/4 Type F, 10/16A IP-44. British: BS 1363 Type G, 13A IP-44 USA: NEMA 5-15 Type B, 15A IP-44. Other requirements on demand.

Worktops: Ceramic, Epoxy Resin, Stainless Steel, Polypropylene

Accessories (Optional): Emergency Light with UPS, Waste collection system, Local exhaust taps, Fire extinguishing system, Automatic Sash Controller, Mobile or fixed cabinets in lower body, Noise level reduction <NR43. Option of cabin coated in Ceramic.

MODELS	DIMENSIONS			
	W	D	H	H+ Filters
VA090810/960	900	810/960	2500	2950
VA120810/960	1200	810/960	2500	2950
VA150810/960	1500	810/960	2500	2950
VA180810/960	1800	810/960	2500	2950
VA210810/960	2100	810/960	2500	2950

Accessories (Optional): Emergency Light with UPS, Filters, Fire extinguishing system, Automatic Sash Controller, Noise level reduction <NR43

Personalized design: Dimensions, equipment, etc.
Other requirements on demand

MODELS	DIMENSIONS		
	W	D	H
SM120960	1200	960	2500
SM150960	1500	960	2500
SM180960	1800	960	2500
SM210960	2100	960	2500



Fume Hoods for Strong Acids and Perchlorics

Lighting, accessories, electrical sockets and functional system as per Standard model

Strong Acids: Interior cabin coated in POLYPROPYLENE

- Worktops in Polypropylene or Ceramics.
- Accessories (Optional) Waste collection system, Local exhaust taps, Fire extinguishing system, Automatic Sash Controller, Cabinets for Strong acids and Alkalis, Neutral or Atex, Baffle automatic cleaning system. Scrubber (Optional): Compact design **Integrated or floor mounted**

MODELS	DIMENSIONS			
	W	D	H	H+ Filters
VA120960AC	1200	810/960	2500	2950
VA150960AC	1500	810/960	2500	2950
VA180960AC	1800	810/960	2500	2950
VA210960AC	2100	810/960	2500	2950

Perchloric acids: Interior cabin coated in Stainless Steel or Ceramic
- Worktop made in one single piece of Stainless Steel AISI 304

MODELS	DIMENSIONS		
	W	D	H
PC150960	1200	960	2500
PC180960	1500	960	2500
PC210960	1800	960	2500



Fume Hoods for Radio-isotopes Beta and Gamma

Lighting, accessories, electrical sockets and functional system as per Standard model

Beta and Gamma Radio-isotopes: Interior cabin coated in 2 mm thick sheet of lead.

- Worktop made of Polypropylene with 2 mm thick lead armor-plating on bottom, 10 mm leaded glass (RD50) exterior sash with two circular openings, Metallic attenuator (optional)
- Option of cabin made in one single piece of Stainless Steel (AISI 316)

MODELS	DIMENSIONS			
	W	D	H	H+ Filters
RD120810	1200	810	2500	2750

Functionality

Exhaust system

- Continuous exhaust flow system (SG)
- Variable air volume exhaust flow system (VAV)
- Variable air volume exhaust flow system and Automatic Sash Controller (VAV+Aut.)

Main Features

- Monitoring exhaust air systems
- Linear sash position sensor
- Integrated Scrubber in the Fume Hood
- Retrofitting of LON field bus module
- Suitable for all fume hood constructions

Building Management System (BMS)

- Connection to any BMS is easily implemented via the network (LON, BACnet® or Modbus®)
- Analogue outputs can also be connected to BMS

Efficiency

- Required volume flow may be reduced by about 70%
- Energy savings* up to 20% and maximum safety are ensured
*with a VAV+Aut system.

