

Thanks, science.



burdinola
safer labs

“I have an idealistic view of science as an act of liberation and progress for humanity.”

Sir Paul Maxime Nurse. Nobel Prize in Physiology or Medicine

Burdinola are specialists in the planning, integration and installation of laboratories, by way of value proposals which include complete project management and design and development through all phases. We start with a complete overview, integrating your process into the laboratory furniture and fume cupboards with associated MEP services. With all of this, Burdinola create advanced scientific spaces, developed to adapt and change to the most demanding requirements.

Burdinola S.Coop.

Ctra. Lekeitio km. 53,5.
48289 Amoroto (Bizkaia)
T. +34 94 684 07 66
burdinola@burdinola.com
www.burdinola.com

Spain / France / Italy / UK / Benelux
UAE / Mexico / Colombia / Perú

Global solutions for what really matters, science

At Burdinola, we take our commitment of the safety of the people who work in laboratories very seriously. Expertise and good practice have always been and always will be our top priority.

The entire Burdinola product range is certified in accordance with European standards:

- UNE-EN 13150:2001
- UNE-EN 14727:2006
- UNE-EN 14175-1:2004
- UNE-EN 14175-2:2003
- UNE-EN 14175-3:2004
- UNE-EN 14175-4:2005
- UNE-EN 14175-5:2009
- UNE-EN 14175-6:2007
- UNE-EN 14175-7:2012
- UNE-EN 16121: 2014 (Level of severity: 2)
- UNE-EN 16122: 2013 (Level of severity: 2)

Burdinola actively takes part in international policy forums. Since 1985, it has been Spain's representative on the European Committee for Standardisation CEN/TC 332/WG 04 "Fume cupboards and associated ventilation": Standardisation in the field of fume cupboards.



Mission

To always carry out the safest and most efficient laboratory projects in the world in which researchers enjoy improving society.

Vision

To further build upon and grow a large, successful international company where people enjoy and take pride in their work.

Getting here has been the result of extensive experience and high technical specialisation and, above all, the professional spirit of a team that has always committed to innovation and total quality.

Global solutions at an international level. More than 5,000 laboratory projects carried out successfully worldwide define Burdinola as a leading international brand.

Values

Commitment

The aim is to get involved with the organisation, sharing and applying the values of Burdinola. It involves taking part in activities in a proactive and selfdemanding manner, being consistent with the company's responsibilities and making talent and skills available to Burdinola.



Customer focus

Willingness to identify the needs of internal/external customers, making them the point of reference to achieve common objectives. It involves working transparently and flexibly by offering a reliable, high quality, comprehensive service aimed at continuous improvement. It also involves earning customer loyalty and repeat business by demonstrating empathy, communicating and adapting to their needs, while realising anticipation of these needs as a key to success.



Respect

This is an attitude towards colleagues, work and the environment, from a position of humility, companionship, ethics and equality within a framework of minimum standards established, agreed and accepted by everyone, based on respect and getting along well with others. It makes it possible to establish the basic conditions for people's growth/development.



Teamwork

This involves active collaboration between the people who make up Burdinola to achieve common objectives through close, simple and direct communication, in search of consensus and joint responsibility for the commitments made. It makes it possible to establish the conditions for shared success through listening, trust, respect, recognition and humility.



Innovation

This involves having an open mind, being keen to improve and adapt oneself and the organisation to developments in the global market, by anticipating present and/or future trends in relation to products/services and the internal way of operational processes. It is associated with courage, leadership, positivity, enthusiasm and determination to achieve Burdinola's purpose.



Science

About us.. P.03

About us. Certificates.
Mission, vision and values.



Testimonials. P.36

We share a commitment to rigorous work and a common goal with our customers..

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History. P.28

More than 40 years undertaking the safest and most efficient laboratory projects in the world.

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We know that the key is a global solution conceived with attention to the smallest detail.

Science. P.12

Health. Innovation.
Research. Pharmaceuticals.
Wellbeing. Education.
Chemical / Petrochemical.

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Nicolás Achúcarro (1880-1918). Tribute to the physician and neuroscientist from Bilbao.



Fume cupboards.

For general use. For specific use. Accessories. Other extraction elements.



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Benches. P.168

With and without a frame. Mobile benches. Height-adjustable benches. Benches for sampling. Balance tables.

Product

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Other Accessories. P.254

Showers. Eyewashes. Dispensers. Lockers. Chairs. Scaffold. Shelving.

Service systems. P.190

Self-supporting. Stand-alone. Wall/ceiling-mounted. Accessories for service



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References for the entire Burdinola product range.



Storage units. P.220

For general use. For specific use. Self-contained cabinets and storage units.



The images collected in this catalog are indicative and may include elements classified as accessories in the corresponding chapter.

Because science matters.

Thanks, science.

Burdinola's ability to generate innovation has been tested throughout our history since the organisation was incorporated in 1978. This evolution is the result of the drive for constant improvement that continues to drive and motivate the entire team.

Burdinola still works today to help its customers, the scientific community and society in general to make progress and advances in science.

**We are enjoying
greater longevity
and a better
quality of life
thanks to science.
Thanks, science.**

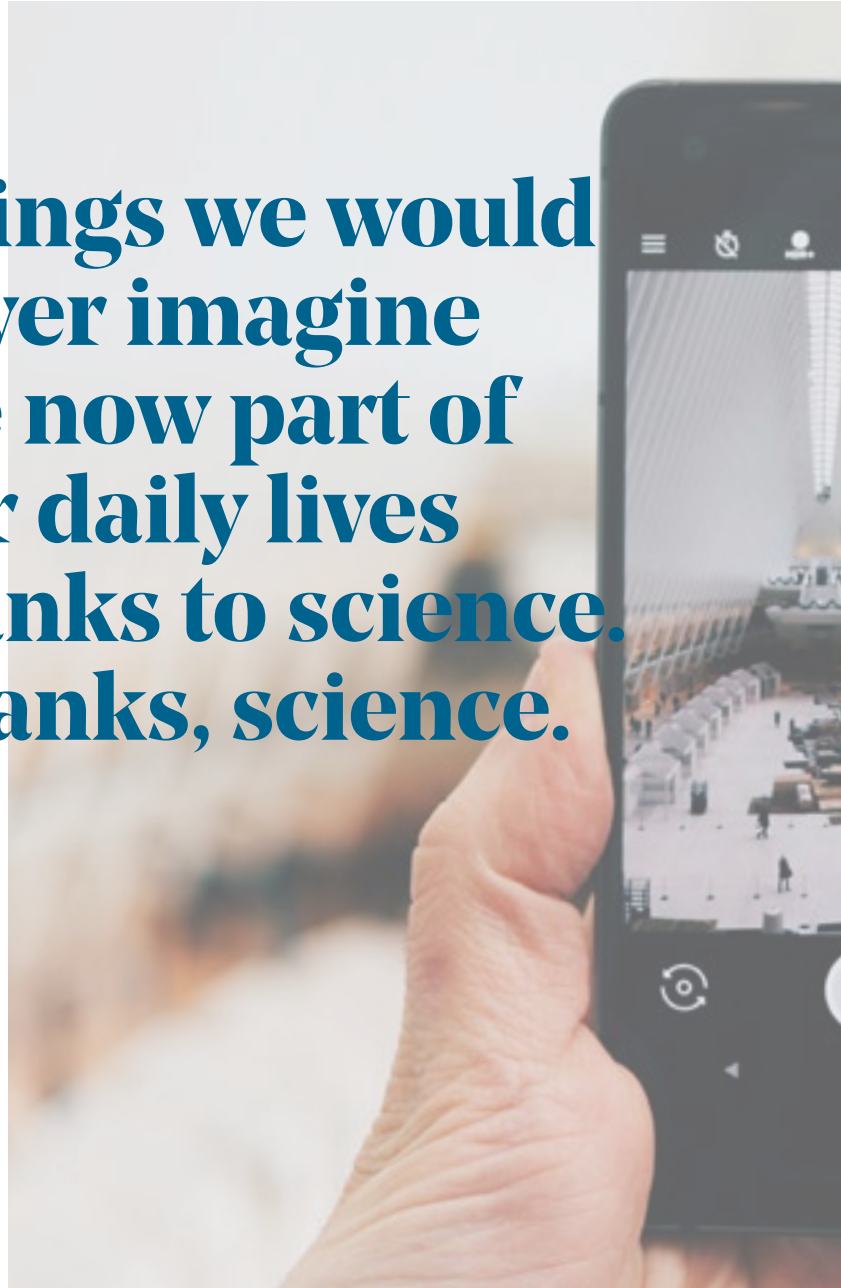
Health



Project
HUCA

The Central University Hospital of Asturias (HUCA) is equipped with the most advanced solutions in spaces and infrastructures, equipment and scientific and technological programmes to facilitate modern medical practice at a European level.

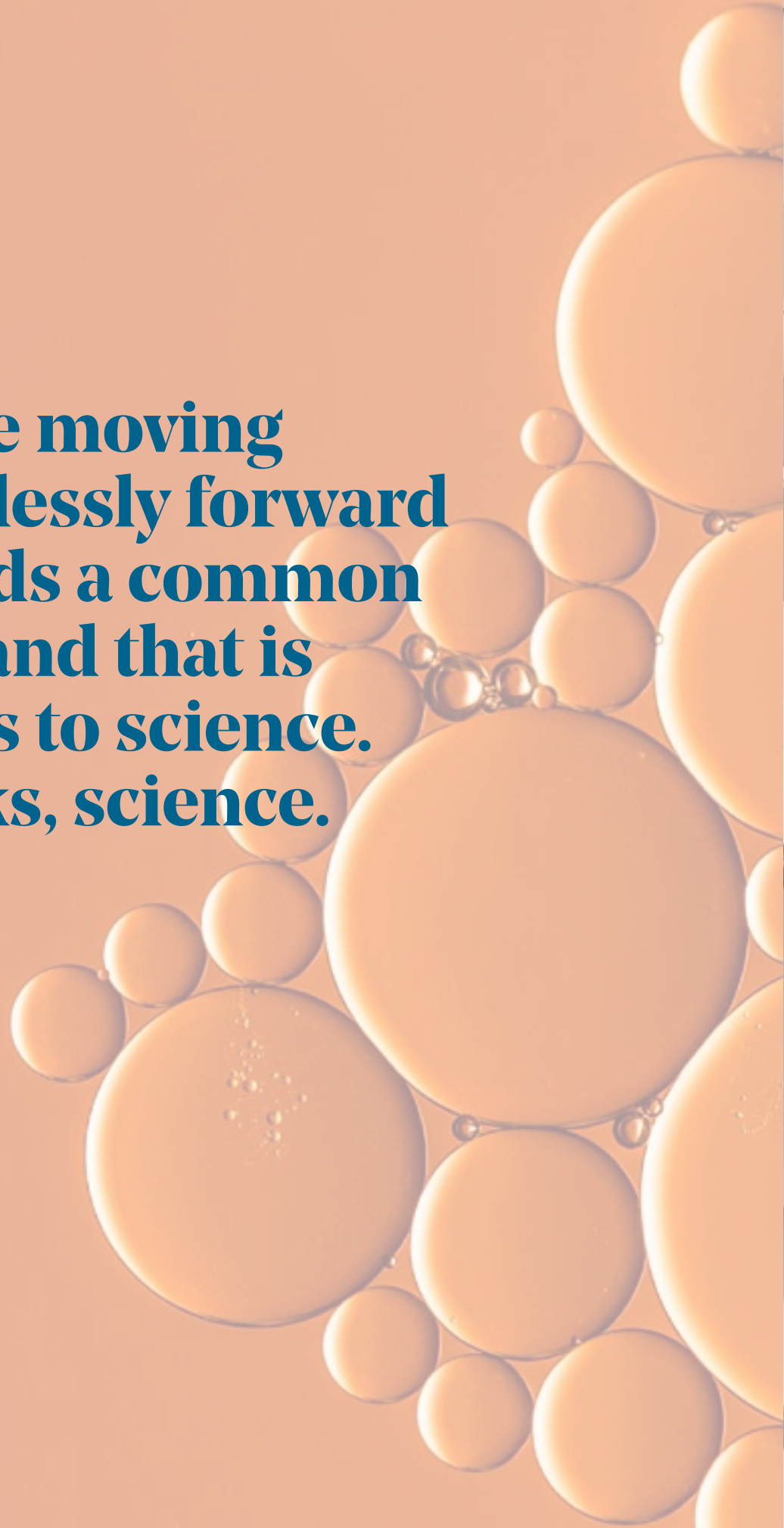
Things we would never imagine are now part of our daily lives thanks to science. Thanks, science.



Project GRAPHENEA

Graphenea, a technology company created in 2010 to manufacture and market high quality graphene wafers and develop graphene-based technologies. Today, it is one of Europe's main vgraphene producers and maintains its international leadership in this sector.

**We are moving
relentlessly forward
towards a common
good and that is
thanks to science.
Thanks, science.**



Research



Project
BIOCRUCES

The BioCruces Health Research Institute was created to promote biomedical, epidemiological and public health research and research on health services. It has 58 research groups made up of a team of 600 professionals, which work in seven areas: maternal and child health and assisted reproduction; cancer; diabetes, metabolopathies and kidney diseases; hearing diseases and chronic diseases.

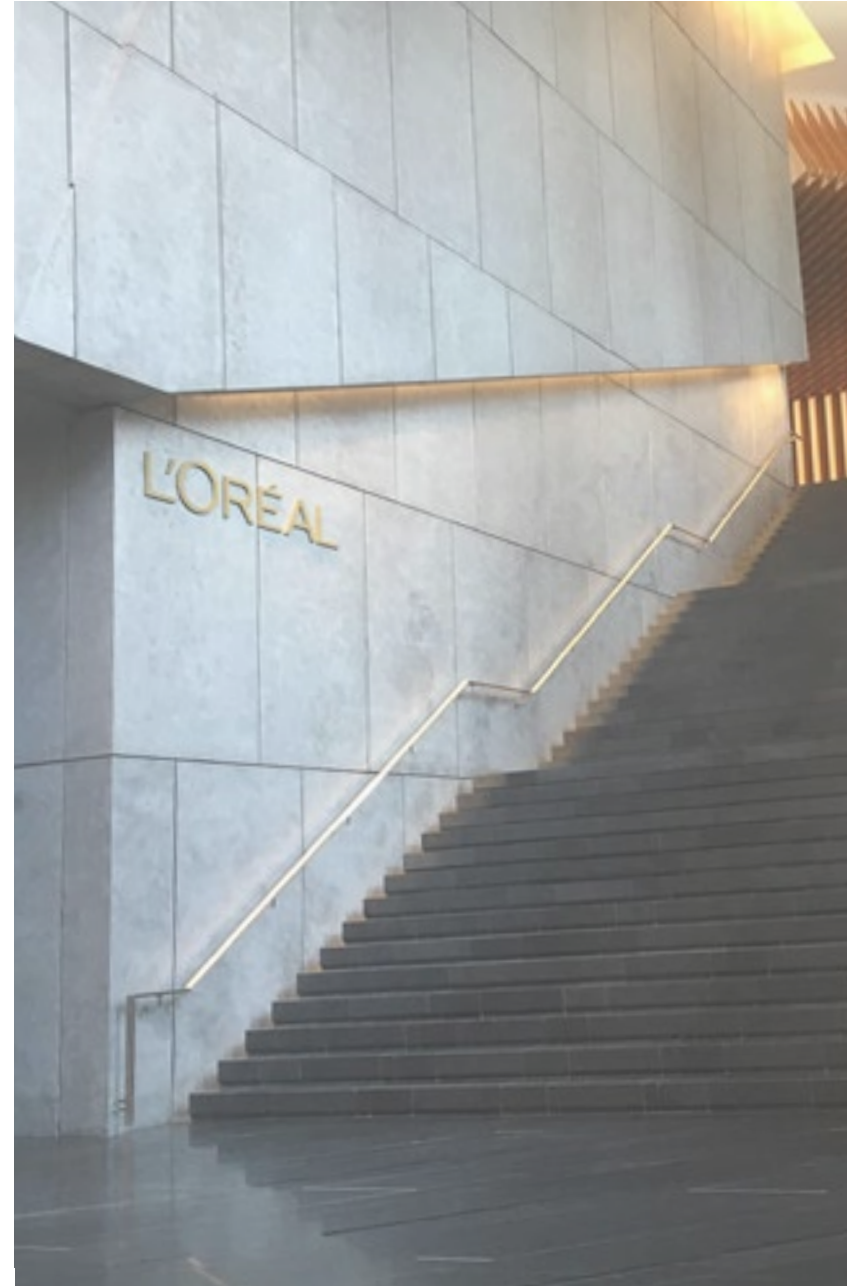
The pharmaceutical evolution has allowed us to get this far, and will allow us to continue to build a better future. Thanks, science.



Project
NOVARTIS

Novartis is a multinational company dedicated to the pharmaceutical and biotechnology industry. Its headquarters are in Basel (Switzerland). Novartis is driven by a passion for developing and marketing new products that contribute to human progress through advances in science and health.

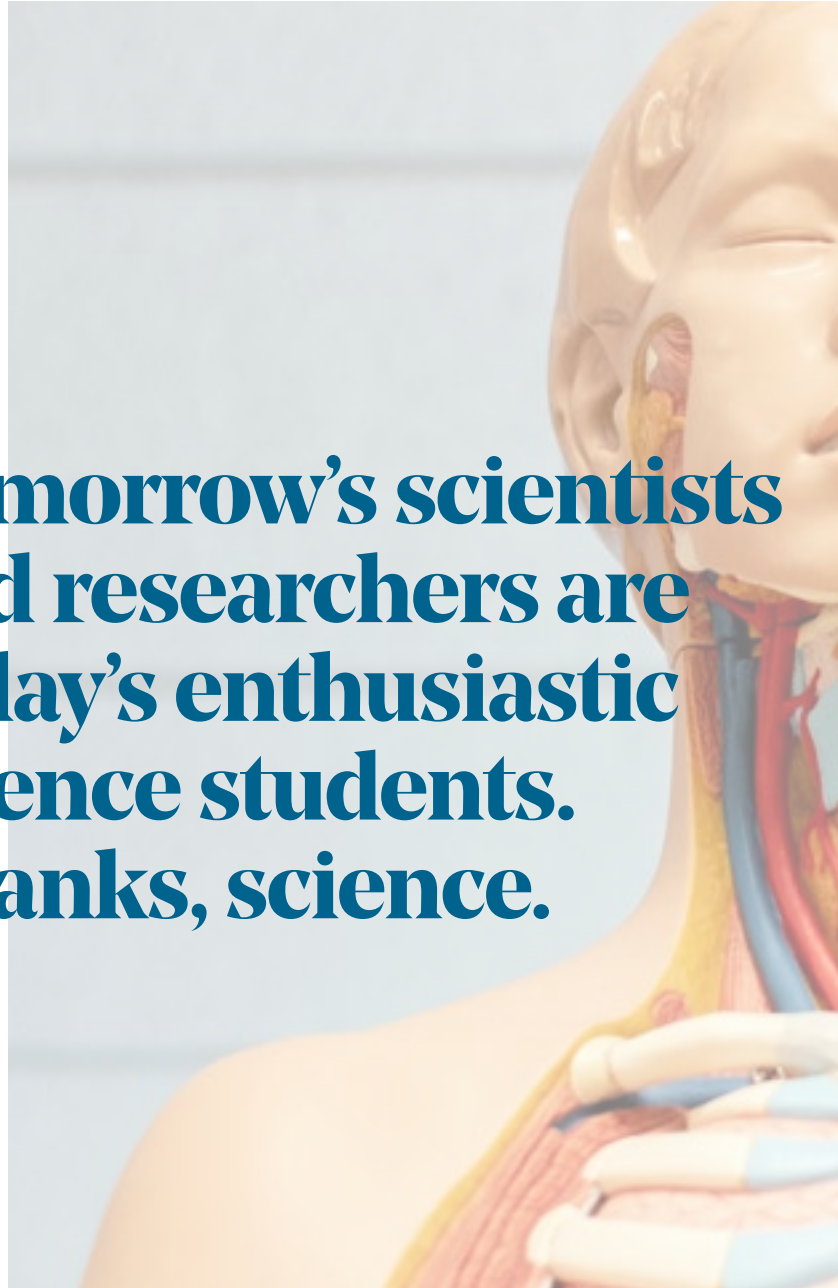
**We feel better
about ourselves
because of science.
Thanks, science.**



**Project
L'ORÉAL**

L'Oréal has a large portfolio of international brands that is unique in the world, covers all areas of cosmetics and responds to the wide variety of consumer needs.

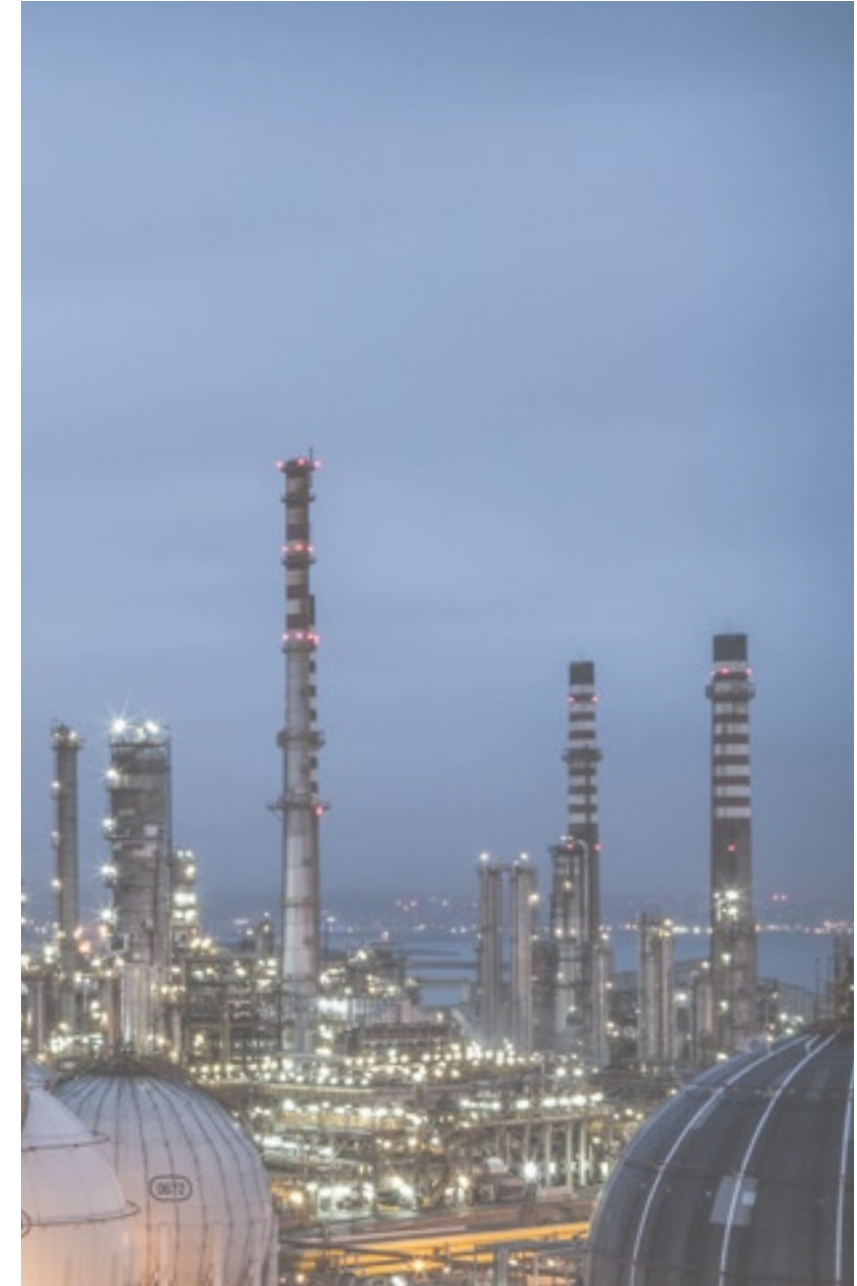
**Tomorrow's scientists
and researchers are
today's enthusiastic
science students.
Thanks, science.**



**Project
Science Park
UPV/EHU University of the Basque Country**

The Leioa Science Park project has been promoted by the Bizkaia Technology Park and the University of the Basque Country, with the aim of generating a space of excellence and innovation to foster university-company relations and promoting the generation of new technology-based companies and highly qualified jobs.

Chemical and petrochemical breakthroughs will make it possible for us to go further. In many more senses than can be imagined. Thanks, science.



Project
CEPSA

Cepsa is an integrated global energy company that operates in the entire oil and gas value chain. Its almost 90 years of experience has led to it becoming one of the leading companies in the energy sector in Spain, carrying out its activities over the 5 continents. It is involved in all phases of the petroleum value chain: exploration and production of oil and gas, refining, transportation and marketing of oil derivatives and natural gas, biofuels, cogeneration and marketing of electrical energy and petrochemicals, in which it manufactures and markets raw materials for the production of high added value products.

Burdinola, a history linked to progress, science and safety.

More than 40 years undertaking the safest and most efficient laboratory projects in the world.
In which the best researchers work on a day-to-day basis to improve society.

Founded in 1978, Burdinola is a cooperative company that specialises in the comprehensive management and implementation of laboratory projects in any of their phases, from consultancy and engineering to commissioning and aftersales service.

It integrates furniture and fume cupboards manufactured in-house.

Burdinola is today a company that is very focused on undertaking large projects, where flexibility and customer focus are key.



01 Historical documentation

As a manufacturer with more than 40 years of experience managing projects in laboratory environments, Burdinola has a product range that integrates: Laboratory benches and storage units, service systems, fume cupboards and other suction elements.

Safety and sustainability. Burdinola is synonymous with safety and specialisation. Safety is our guide throughout the process of creating laboratories: from the preliminary study and identification of risks, the design of spaces, the configuration of work stations to the fitting and installation. And of course, as manufacturers of fume cupboards, as it is the critical element in the safety of the laboratory, being one of our most demanded products.

A fundamental criterion when defining and designing a laboratory is marked by the premise that “The design and exposure to environmental conditions in laboratories should not pose a risk to the health and safety of researchers.”

At Burdinola, the difference in the value proposal lies in the commitment to the safety of the laboratories and the professionals who use them.



02



03

02 Current facilities at Amoroto with 26000 m².
03 Current project.

Over its history, Burdinola has equipped more than 5,000 laboratory projects in more than 35 countries in sectors such as nutrition, food, pharmaceuticals, cosmetics, industry, research and testing, chemicals, petrochemicals, education and health.

As an example of Burdinola's commitment to quality and excellence, it created Burdinola Service with the aim of strengthening the safety of laboratories through a range of specialist services that make it possible to analyse installations and provide solutions to existing problems. Service combines verification, maintenance, training and technical support services (TSS), the main focus of which is to guarantee the safety and proper functioning of laboratories throughout their life cycle.



On the occasion of the company's 40th anniversary, the British Nobel Prize winner for Physiology and Medicine, Sir Paul Maxime Nurse visited the Burdinola facilities, where he was able to appreciate the latest advances in modular laboratory furniture systems first-hand, valuing Burdinola's history and overall capacity to undertake the most demanding projects with total confidence above all.

El éxito de Burdinola reside en el entendimiento de las necesidades del investigador y la aplicación de nuestro conocimiento y experiencia en el diseño de laboratorios bajo las más estrictas normas internacionales.



04 Sir Paul Maxime Nurse, the Nobel Prize winner for Physiology or Medicine at the Burdinola facilities.

Nicolás Achúcarro.

His studies focused on the problem of Stäbchenzellen or rod cells, the tannin and ammoniacal silver methods, the staining technique that bears his name, and the study of alterations of the sympathetic upper cervical ganglion in some psychoses. One of his most important contributions was the study of glioarchitecture.

In his honour, the scientific research centre of the University of the Basque Country, the Achúcarro Basque Center for Neuroscience, bears his name and has been fully equipped by Burdinola.

Nicolás Achúcarro y Lund was born on June 14, 1880 in the Old Town of Bilbao, into the bosom of a bourgeois, cultured family of the time. At the age of 10 he entered the Institute of Bilbao, where Miguel de Unamuno taught Latin. At the age of 15 (1895), he finished what was the equivalent of the baccalaureate with excellent grades, both in science subjects and in language and literature.

In October 1895 he left Bilbao to settle for a time in Germany, where he prepared for 16 months at the Gymnasium of Wiesbaden for his entrance exams to the Faculty of Medicine at the University of Madrid (now the Complutense University of Madrid).

He left Germany in March 1897 and, after taking the selection exams that year at the University of Zaragoza, he began his medical career in Madrid in the 1897-1898 academic year (at the age of 17). In his first year at university he won the "Martínez Molina" Prize for his knowledge of anatomy, and the following year he was awarded the Fourquet Prize, in a vote taken among his peers. During this second year, he attended the practical physiology classes of Prof. Gómez Ocaña and came into contact with Santiago Ramón y Cajal and his histology and pathological anatomy.

In 1899, he moved to Marburg, Alemania, with his brother Juan Luis,

to attend various courses on pathology, chemistry and physiology. The following year he was forced to return to Bilbao because his brother contracted tuberculosis. Back in Madrid, he prepared the last three years for his graduation in Medicine. He began his research experience in the laboratory of Professor Luis Simarro, where he worked on histopathology, which led him to set up a small laboratory in his own family home in Neguri.

He completed his medical studies at the age of 24. Guided by his interest and thirst for knowledge, he visited the main laboratories of his time. Between 1904 and 1905 he travelled to Paris to visit Pierre Marie's clinic in La Salpêtrière and attended Babinski's courses. He then moved to Germany to work with Lewandowsky and the Italian Catola, which strongly influenced his subsequent career. During this time he started to prepare his compilation of the anatomy-pathology of mental illnesses.

In the summer of 1905, after returning to Bilbao, he travelled to Florence, this time to the San Salvi Clinic, where the Florentine neuropsychiatrists Tanzi and Lugaro introduced him to the study of mental illnesses. Then he returned to Germany, to Munich, where he spent three years working at Professor Kraepelin's clinic and Professor Alzheimer's neuropathology laboratory, where he developed his



01

doctoral thesis "Contribution to the study of the pathological anatomy of rabies" which he presented in Madrid in December 1906, a work which was rated as outstanding.

In 1908, at the age of 28, Alzheimer recommended him to run the Laboratory of Pathological Anatomy of the Federal Psychiatric Hospital in Washington (USA). To prepare for this trip, he moved to Paris, where he visited several psychiatric hospitals and wrote an article on the Stäbchenzellen (rod cells), neurological cells and adipose granule cells in the Ammon's horn of the rabbit. Subsequently, he continued his journey via London and Liverpool, where he met the father of modern physiology, Sir Charles Scott Sherrington, and then sailed to America. During his stay in the USA, between 1908 and 1910, the scientific activity he undertook was very intense, from which he published his results in English and German in specialist journals of the time.

In 1910, he returned to Madrid, where he took on the position of doctor at the Provincial Hospital, where he could focus on his research work. During this time, he collaborated with the Boletín de la Sociedad Española de Biología (Bulletin of the Spanish Biological Society) and worked in the biological research laboratory on subjects related to histology and the physiology of glial cells, and also took part in creating the Residencia de Estudiantes promoted by

01 Portrait Nicolás Achúcarro.
02 Achúcarro Basque Center for Neuroscience, UPV/
EHU Science Park Headquarters, fully equipped by



02

Francisco Giner de los Rios. In 1911, he concluded his research on microscopic staining with the discovery of a new staining method, which has been known since then as Achúcarro Technique and which uses tannin and ammoniacal oxide. In 1912, he was invited by Carl Gustav Jung to give a series of courses on mental illness at Fordham University (New York) and was named Doctor Honoris Causa by that University on September 11 of that year. On his return, with the help of Ramón y Cajal and the Junta de Ampliación de Estudios (Board for the Expansion of Scientific Studies and Research), he was appointed head of the laboratory, where he worked and collaborated with other important figures (Rodríguez Lafora, Del Rio Hortega, Sacristán, Gayerre, Fortún and others) of that time.

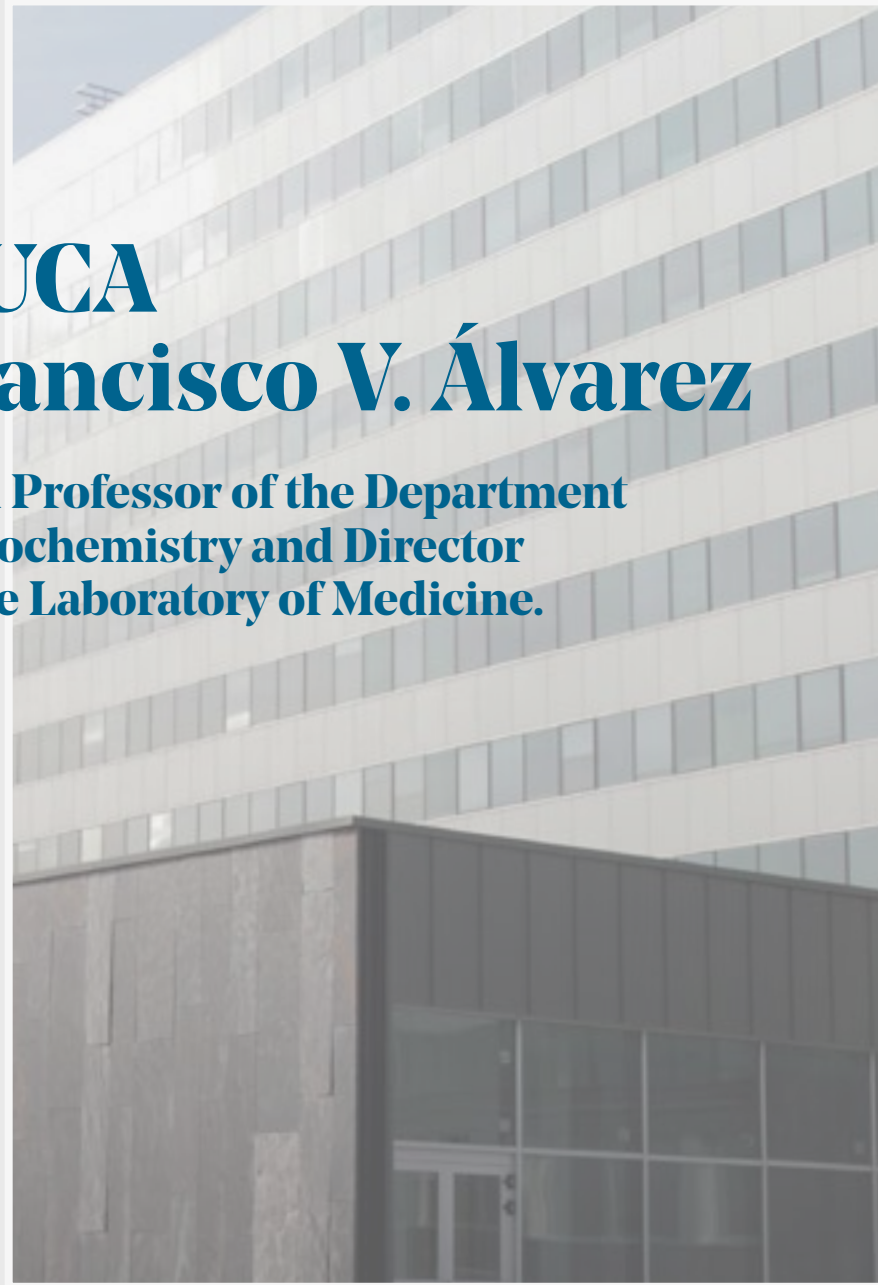
The first symptoms of his fatal illness appeared in 1915. The following year, he was forced to abandon his work in the laboratory and retire to El Pardo (Madrid). In July 1917, with the effects of the illness hitting him hard, he returned to his family home in Neguri. Although at first it was thought to be tuberculosis, over time the symptoms changed. Gradually he became paraplegic, suffering from intense itching and pressure sores. He diagnosed himself with Hodgkin's disease, after reading a text on medical conditions and recognising the symptoms described. Finally he died on April 23, 1918 at the age of 37.

HUCA

HUCA

Francisco V. Álvarez

Lead Professor of the Department of Biochemistry and Director of the Laboratory of Medicine.



“My first contact with Burdinola was in 1995, as a result of the Clinical Analysis Laboratory project for the Hospital San Agustín de Avilés. Up until 2002, when I moved to the HUCA, my work using Burdinola products and laboratory equipment was perfect. At HUCA, we had the chance to put the new laboratory out to tender, which we awarded to Burdinola and which it executed in a fully consistent manner, adapting it to the architecture of the building with absolute competence. In addition, they provided solutions to prevent noise, with soundproofed equipment where it was required due to the high noise of the apparatus in use in our laboratory. We were more than satisfied during these 4 years of operating with the new laboratory, not only with the equipment and project, but also with Burdinola’s after-sales service.”

CINFA



CINFA

Jon Lana

Head of Quality Control

“We share the value of and commitment to global projects with Burdinola, i.e working rigorously and in harmony, hand in hand and with a common goal. The success in implementing a project of great magnitude like this was achieved not only by carrying out the major milestones, but also due to the fact that attention to detail increased the satisfaction of users of the new facilities and therefore, the quality of the work that they do daily. I have to thank Burdinola for their knowledge, their attitude towards any changes and their total commitment to the project.”

Burdinola Projects.

Burdinola carries out complete projects and studies for the development and complex installation of large laboratories where flexibility and customer focus are key. This is done by jointly considering the most demanding international regulations, processes and equipment in an integrated manner. Burdinola works with the customer, assessing and considering their requirements. It takes into account the needs of the spaces in each type of laboratory and the people who carry out activities in them and how they unfold. Burdinola provides solutions ranging from the draft project and pre-installations to the complete functional integration of people, spaces and equipment. To this end, the latest advances in fume cupboards, safety, advanced materials, energy savings, sustainability and respect for the environment are incorporated. "Have a safe, satisfied user. That is what is most important. Each of our projects starts around the user".

Because we know that the key is a global solution conceived down to the smallest detail, at Burdinola we have been creating turnkey projects for over 40 years. We have a customer portfolio that includes the most prestigious health, research, pharma , food/nutrition, chemicalpetrochemical and cosmetic laboratories in the world.

Only the highest quality makes it possible to reach the levels of asepsis required by our customers.





Thanks to our manufacturing and design process, at Burdinola we are able to generate work spaces that are suitable for the diverse, demanding environments that science requires.



The beauty is in the detail, in the nurturing, in the care of each phase of the project.



Integrated service systems, so that everything you need is always there, where it needs to be.





Rigorous controls during the assembly process are key to delivering a global project in the best possible way.



Combining safety, innovation and technology entails extensive knowledge of the project as a whole.

For this reason, Burdinola is the perfect partner for large laboratories and infrastructures.

The laboratory, our reason of being.

Product Family

Burdinola's offer is made up of five families of products, integrating furniture and fume cupboards manufactured inhouse to provide a solution for any needs regarding laboratory equipment. In addition, each family has a wide range of accessories to meet the specific requirements of each project.

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systems** P.190

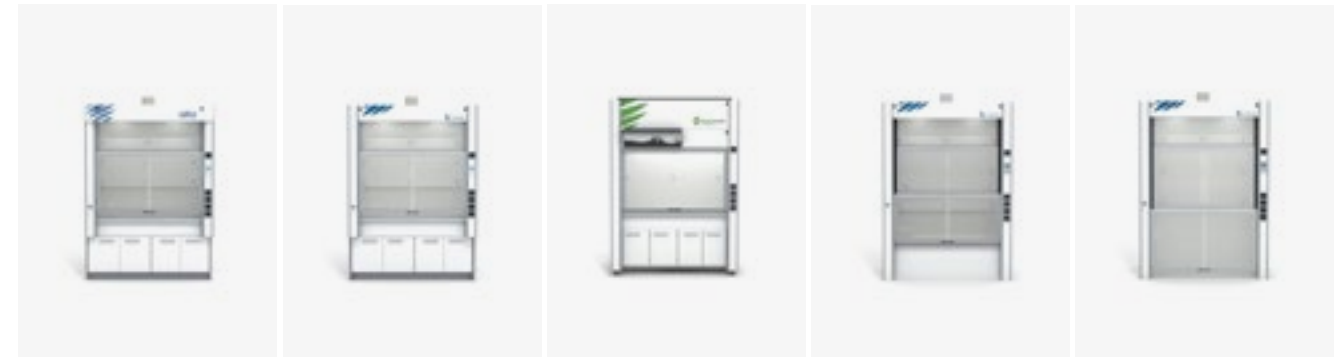
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Storage units P.220

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Fume cupboards

Our aim in developing the BECOME range of fume cupboards is to ensure user safety with maximum levels of energy efficiency. The innovation provided in this range of fume cupboards is based on the knowledge acquired from more than 40 years of experience in the manufacture of fume cupboards, combined with research and development work on the performance of the fume cupboards and each of their critical design elements, at ideal levels (in accordance with standard tests) as well as in real conditions. The international recognition of our customers endorses the innovation and quality provided by our products.

Fume cupboards for general use



Elite
P.66

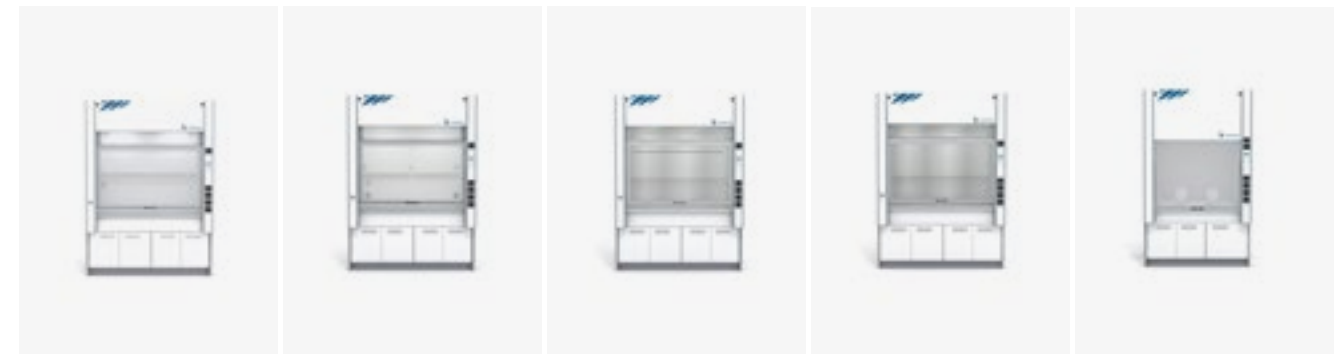
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Fume cupboards for specific use



BECOME AC and ACL
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Beta-ray emitting
radioisotopes: RB
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Gamma-ray emitting
radioisotopes: RG
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Ikasi
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Accessories for fume cupboards

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P.118 Accessories. IOTLAB
P.120 VAV Easy Control.
P.121 Haka Control.
P.122 EO25
P.124 Waste: SCAT

P.126 Solvent Dispensing
P.128 Pass boxes / Cable glands
P.130 Filters
P.132 Scrubber / Neutraliser
P.134 Electrical and fluid services
P.138 Storage under fume cupboards

Other extraction elements

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flow cabinets
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Characteristics

Experience

Burdinola, as an expert company recognised by AENOR for more than 30 years and as a Spanish representative in European standard setting forums, offers its customers its technical resources, experts in fume cupboards and installations and an approved test room, all to produce safe, functional and flexible installations and equipment. Depending on the toxicity characteristics of the work carried out and the specific conditions of the laboratory, we will look for the most appropriate option in collaboration with our customers for capturing emissions and waste so as to:

- Prevent users being exposed.
 - Confine the contaminant to prevent its dispersion in the laboratory environment.
- To do this, we will assess the risks to be controlled, the level of protection required and we will do an analysis of the structural characteristics of the laboratory, taking into account the available space, the suitability of the place where it is to be installed and the characteristics of the ventilation and air conditioning of the space.

Protection Device

In accordance with UNE EN 14175, a fume cupboard is a: Protection device ventilated by an induced flow of air through an adjustable work opening:

- With an enclosure designed to limit the propagation of airborne contaminants to operators or personnel located outside the device.
- That provides mechanical protection.
- That allows a controlled evacuation of contaminants present in the air.

UNE EN 14175 consists of 7 parts:
 Part 1: Terminology and definitions.
 Part 2: Safety and operational requirements.
 Part 3: Type test methods in a test room.
 Part 4: Testing methods in situ.
 Part 5: Installation and maintenance.
 Part 6: VAV – Variable air volume.
 Part 7: Fume cupboards with a high thermal charge and for concentrated acids.

Suitability test as per EN 14175-2

Qualitative suitability criteria in the categorisation of fume cupboards			
Documentation	Manufacturer's declaration.	Sash	Provides protection against splashes.
	Type test on new fume cupboards.		It must prevent liquids that drip from the sash from scaping to the work area.
Materials	Manufacturer's instruction manual: assembly, installation and use. As per UNE-EN 14175-2		Handles must not reduce the operator's field of vision (which would constitute an additional risk).
Work area	Resistant to the mechanical, chemical and thermal stresses to which it may be subjected during use. Not easily combustible.	Air flow	Must have a sash locking system to prevent it from falling.
	There must not be any sashes on side walls which look out onto the premises. The orifices or pipes in the side walls must be able to be closed.		Reference threshold values (NTP 990).
Work surface	Flat with a perimeter rim.	Overpressure device	Air flow indicator that unambiguously shows that the fume cupboard is operating correctly. Visual and audible alarm in the event of malfunction.
	Minimum load: 2.000N.		Operating controls on the outside of the fume cupboard, outputs in the work area. The operating controls must be clearly associated with their corresponding output.
Deflectors	It should not be possible to modify their original position.	Services	Easily accessible for maintenance.
	It must be easy to maintain and clean them.		Combustible gas controls protected against accidentally being opened.
Sash	Where required, the fume cupboard shall have an efficient blast wave discharge device in the event of an explosion, without endangering operators or personnel in the vicinity of the fume cupboard.	Marked and labelled	Every sink must have its own siphon.
	Transparent.		IP 55-rated electrical sockets protected against liquid splashes. Preferably on the outside of the fume cupboard. If they are located in the work area they must be able to be connected from the outside separately and unambiguously.
	Made of laminated or tempered glass (in accordance with EN 12600, type 2B or 2C or EN ISO 12543-1) or a suitable plastic material.	Lighting in accordance with UN EN 14175-3 chapter 9.	
	The operational or work opening must be clearly indicated and its maximum position should preferably be 500 mm.	Keep the sash closed whenever possible.	
Sash	Must have a sash stop to prevent it from opening above the operational height, unless it is through a deliberate action by the researcher and it return to its original position automatically.	Marked and labelled	Do not work with the horizontal and vertical sashes open simultaneously.
	Maximum travel force for single sash: 30 N. For multiple sashes: 50 N.		Manufacturer's trade name and mark.
			Type designation and year of production. Conformity with UNE EN 14175-2.

Durability

Our general use fume cupboards are equipped with a 6 mm thick interior cabinet with an acrylic urethane coating, with a work surface made of vitrified stoneware plate with a perimeter rim for retaining 5 l/m2.

With regard to the cabinet interior, our materials respond to the highest chemical resistance, where both the interior of the cabinet and work surface adapt to user activity (see the detailed tables for fume cupboards).

For fume cupboards with specific uses, we have also adapted our materials to the most demanding work that their use may require and these are detailed in each of the corresponding sections.

Sash and windows with extruded aluminium profiles, with an epoxy polyester coating, incorporating guides to facilitate the movement of the 6 mm thick glass panes (3+3 mm laminated safety glass).

Robustness

The construction system of our fume cupboards is exceptionally robust and built to last over time. They are equipped with frames made of steel pipes with a 1 mm sheet metal finish.

To ensure resistance against corrosion, a thermo-hardened powder coating with an epoxy resin base (epoxy-polyester powder) is applied. The service carrying side columns are made of 4 mm extruded aluminium.

Ecodesign

Following the continuous improvement, as philosophy, Burdinola goes further with the implementation of an Ecodesign management system in accordance with the UNE-EN ISO 14006: 2011 standard. The Ecodesign certificate guarantees that Burdinola has adopted a management system to identify, control and continuously improve the environmental aspects of its products and services.

Ecodesign is a methodology that integrates the environmental variable in the design and development of products and services; achieving a reduction of the environmental impacts that they produce throughout their life cycle. In this way, we obtain much more competitive quality products; in addition to being respectful with the environment; which is a differential factor in the current market.

Range

The BECOME range of fume cupboards is made up of more than 40 models, which makes it possible to cover all of the most common applications in laboratories.

Safety systems

In accordance with the regulatory requirement, the fume cupboard incorporates a stop or limit on the travel of the sash at the operational opening. This device acts on both sides, being perfectly integrated into the handle.

The sash is operated by a counterweight, supported by plasticcoated steel cables, which protect it from corrosion. In the event that one of the cables breaks, the sash remains locked to avoid it falling, in accordance with the EN 14175 standard.

The BECOME range of fume cupboards, with the upper part glazed, allow full visibility of the tests being carried out inside.

The EO25 electronic system located on the right side of the fume cupboard based on a micro-controller provides a complete, easy, safe control of the electrical services in the cupboard. In addition to the measurement and alarm elements required by the standard, it incorporates an additional temperature alarm in the event of fire. The BTEC keyboard has control buttons with their respective synoptic symbols for a Sash applied to a fume cupboard. It optimises energy consumption, while significantly improving the safety of users.

The presence detection system using an infrared beam curtain, in which Burdinola sets a new market standard, simplifies the traditional detection system using a motion detector and photoelectric cell on the sash.

Compared to the latter, which only functions when the user is moving, with the risk that the locking movement suddenly starts up, the Burdinola system detects any object that breaks any of the 25 infrared beams that cross the work front.

VAV system: fast action, which allows energy saving by adjusting the extracted flow to the real demand of the fume cupboard, depending on the working conditions. Ecodesign

Safety and aerodynamics

Maximum compliance with the operating parameters of the standard requires an arduous aerodynamic study of the shapes formed in the airflow. The design of the BECOME range profiles is the best example of this premise.

The whole thing was devised with the collaboration of technological institutions to obtain the best aerodynamic response that avoids difficulties at the air inlet.



Selection criteria

The specification of the intended use will make it possible to identify the type of fume cupboard required:

A. Fume cupboards for general use:

Designed for "general use" in a laboratory. They can be used for jobs where large amounts of heat are not released and a wide variety of unconcentrated chemicals are.

A correct choice will ensure the protection of the user and the useful life of the product.

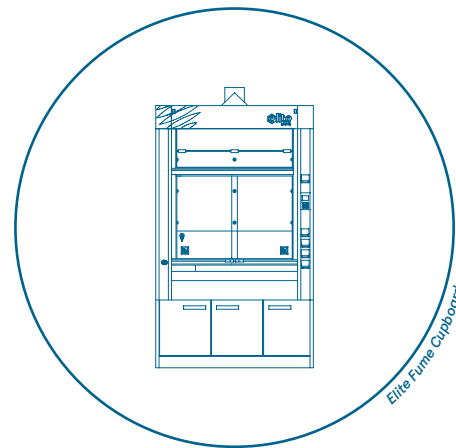
B. Fume cupboards for specific use:

Fume cupboards for concentrated acids and large thermal loads: They have specific construction, maintenance and safety characteristics in accordance with EN 14175 part 7. They may be fume cupboards for jobs with high thermal loads or jobs with strong acids (perchloric and hydrofluoric acids). Fume cupboards for solvents. Fume cupboards for radioisotopes.

1. Elite fume cupboards

The ELITE fume cupboard achieves optimum containment values. Tested in accordance with the provisions of UNE EN 14175 part 3, which sets the general test conditions:

- Air temperature of the room: 23°C +/- 3°C. During the measurements, the temperature of the make-up air was the same as the temperature of the air in the room +/- 1°C, avoiding temperature gradients.
- Make-up air supplied at a distance of more than 2 metres from the front of the fume cupboard.
- Exhaust air through the side symmetrically opposite to the supply of the make-up air and from outside the test area.
- Air velocity < 0.1 m/s in the test area.
- Pressure differential: +/- 5 Pa.



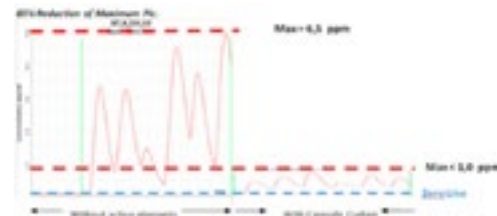
The ELITE fume cupboard achieved optimum containment results, with a flow rate of 250m³/hx mlin complying with the European reference values set by the German conglomerate BG Chemie and the French research institute INRS.

However, what distinguishes the ELITE fume cupboard from other low-flow cupboards is the incorporation of a patented microclimate system:

In accordance with the UNE EN 14175 standard, the performance of a fume cupboard is expressed in qualitative terms, such as the ability to contain and extract one or more pollutants emitted by a source in the work area of the fume cupboards, as well as the ability to minimise the influence of possible disturbances, such as air currents, operator movements or the movement of personnel.

The microclimate system acts on the environment of the fume cupboard, thus minimising the influence of external disturbances and achieving an increase in safety and efficiency.

The effect achieved is shown schematically on the following graph:



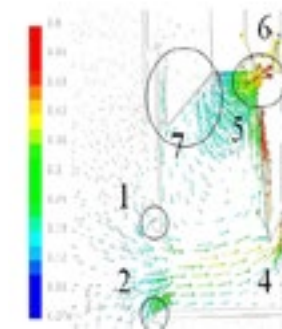
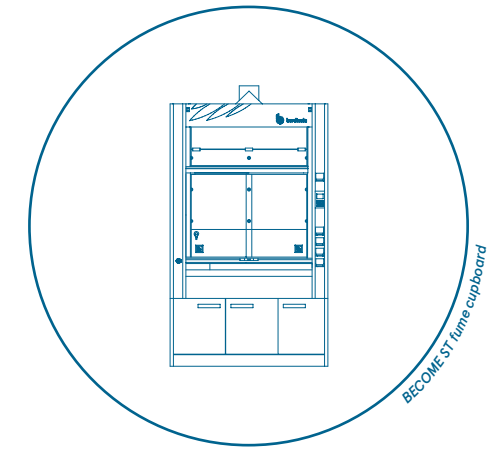
The microclimate created in the environment of the fume cupboard minimises the effect of external disturbances (difference in temperature in the room, air currents, movement of staff), reducing them by more than 70%.

2. BECOME ST fume cupboard

With its BECOME ST fume cupboard, Burdinola provides optimum containment values, without the incorporation of any active drive element.

The results obtained for the fume cupboard by the internal, external and robustness containment tests in accordance with EN 14175 part 3 (reflected in the product certificates) are optimal. The results are below the limit values established by the German conglomerate BG Chemie and the French research institute INRS with a flow rate of 375 m³/hx mlin.

However, it is the design of the BECOME ST fume cupboard that sets it apart in the market, a design which, as well as complying with all the safety aspects established in part 2 of the aforementioned EN 14175 standard, is the result of the meticulous study and detailed design of each of the elements that contribute to better containment and robustness and, therefore, to greater operational safety.



1. Sash handle
2. Airfoil
3. Sides
4. Rear deflector
5. Design of cut-out/recess
6. Trap
7. By-pass

3. Green Cycle fume cupboard

Designed and tested in accordance with the EN 14175 standard. Filtration tests in accordance with NFX 15-211. Containment tests in accordance with EN 14175 part 3.

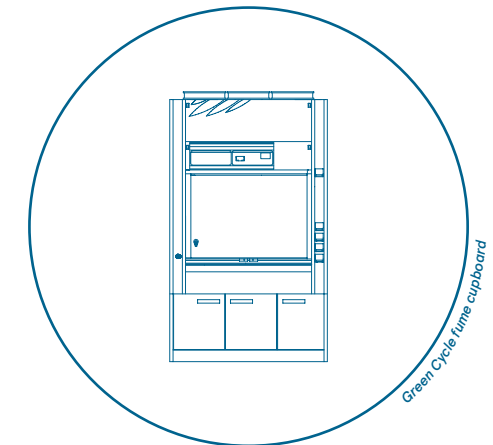
Developed in collaboration with the European leader in air filtration to protect laboratory personnel.

Applicable to the vast majority of ways of handling products in laboratories, with the capacity to handle liquids and powder. Quick and easy reconfiguration of the filtration columns if requirements change.

Energy consumption: 0 m³/h. No air consumption. Does not affect the dimensions of the air conditioning system. Flexibility: Need for changes in the lay-out.

No ventilation ducts required.

Safety: This is a fume cupboard for general use equipped with universal filtration and filter saturation sensors.



Fume cupboards for general

Elite fume cupboard P.66

BECOME ST fume cupboard P.70

Green Cycle fume cupboard P.74

BECOME M fume cupboard P.78

BECOME W fume cupboard P.82



Elite fume cupboards



Application

The Elite fume cupboard is intended for general use in the laboratory. Recommended for evacuating fumes, fine dust and light particles from the work area to avoid contaminating the laboratory atmosphere. Not recommended for use with compounds emitting ionising radiation, concentrated acids with a high thermal load or pathogens. The Elite Low version for low ceilings allows it to be installed in laboratories with a minimum height of 2.700mm.

Safe Product

Range certified under European standard EN 14175 parts 2, 3 and 6 Aerodynamic design that makes it possible to obtain unique results in the containment and energy efficiency market. Large useful interior capacity with a cabinet which is 1.415mm high inside, with a glazed upper part that allows full visibility of the tests being carried out inside.

Models



1. BECOME Elite



2. BECOME Elite Low

Materials

- Resistant to Chemical Stress: Standard with the best quality on the market in terms of materials, a ceramic worktop and inner lining made of HPL high pressure compact laminate with a coating of urethane acrylic resistant to chemical agents.
- Resistant to Mechanical Stress: Great robustness provided by side structural elements.

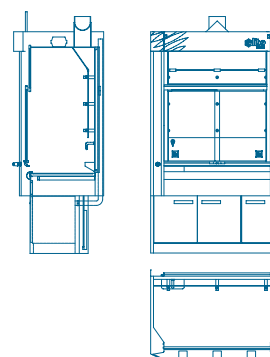
Optional accessories

- Motorised sash.
- VAV control with a valve for a group of fume cupboards.
- Waste collection.
- Power sockets inside.
- Side window.
- Pass box.
- Cable glands.
- Storage under the fume cupboard.

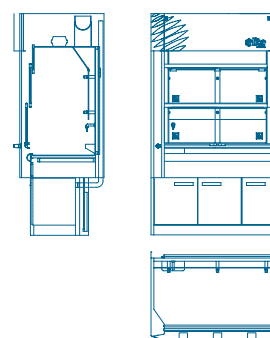
**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

BECOME Elite



BECOME Elite Low



Technical data

External dimensions

Width (mm)	1.200 1.500 1.800 2.100 2.400
Depth (mm)	950
Height (mm) (*)	2.500

(*) Minimum recommended laboratory height for ELITE: 3.000mm. See lower heights.
Minimum recommended laboratory height for ELITE LOW: 2.700mm. See lower heights..

Interior dimensions

Width (mm)	1.135 1.435 1.735 2.035 2.335
Depth (mm)	740/620
Height (mm) (*)	1.415 1.215

All dimensional data Tol: +/- 5mm.

Technical data

Work dimensions

Work height (mm)	900
Maximum operational height (mm) (*)	500
Recommended distance from sash (area directly behind the sash)(mm)	150
Recommended free space between bulky equipment and the interior walls of the fume cupboard (mm)	100
Recommended elevation of large equipment over the surface of the worktop (mm)	from 25 to 50

(*) When working, keep the sash as low as possible or closed, for th greater protection of the user and lower energy consumption. In the case of installing bulky equipment inside fume cupboards, it is recommended that in situ tests are carried out to ensure containment in these circumstances.

Technical characteristics

Models	ELITE 1200	ELITE 1500	ELITE 1800	ELITE 2100	ELITE 2400
Frame	Side frames made of steel pipe, with sheet metal lids, coated with polyester resin. Lower frame.				
Worktop	White, 26 mm thick vitrified stoneware panel, with a ridged edge for retaining liquids.				
Interior of the cabinet	6 mm compact high pressure with an acrylic urethane coating. Resistant to impact, humidity, chemical attack and antibacterial in accordance with DIN ES ISO 10545-13 and DIN EN ISO 10545-14. Reaction to fire B-s2-d0, as per EN 438-7.				
Sash	Sash made of 3+3 mm bi-laminar safety glass.				
No. of sashes (Elite/ Elite Low)	1/2				
No. of horizontal rails	2			4	
No. of support for scaffold	9			12	
Maximum load per scaffold support (kg) (*)	5				

Services (**)

Services (**)	ELITE 1200	ELITE 1500	ELITE 1800	ELITE 2100	ELITE 2400
LED lighting (20W)	1	2	2	3	3
230V/16A IP55 power sockets	4				
Magneto-thermal protection	1 x 16A				

Optional services(**)

Sink	300x120x111mm made of PP.
Water tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body and EPDM seal. Maximum working pressure of 10bar.
Combustible gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Taps with safety lock. Brass body, ceramic seal with a nitrile gasket. Maximum working pressure of 07bar.
Instrumental gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating.
Pressure reducers for instrumental gases	Compact design, brass body, with shut-off and control valve and pressure display. Maximum input pressure of 20bar, output pressure of 1,0bar to 8bar. Optional tap for fine tuning.

Pressure reducers for corrosive gases	Compact design, stainless steel body, with shut-off and control valve and pressure display. Maximum input pressure of 20bar, output pressure of 1,0bar to 8bar. Optional tap for fine tuning.
Power sockets (***)	Socket voltage 230V - 16A.
	Socket voltage 230V - 13A.
	Computer socket.
	Telephone socket.
Thermal-magnetic cut-outs	Voice and data socket.
	16A single-phase thermal magnetic circuit breaker.
	16A three-phase thermal magnetic circuit breaker.
	20A single-phase thermal magnetic circuit breaker.
Socket power (**)	20A three-phase thermal magnetic circuit breaker.
	Single-phase power socket (3 poles) 230V - 16A.
	Single-phase power socket (3 poles) 230 - 32A.
	Three-phase power socket (5 poles) 400V - 16A.
Start / stop for accessories in fume cupboard	Three-phase power socket (5 poles) 400V - 32A.
	Start / stop switch.
	Emergency stop button.

(*) Load considered at a distance of 100mm from the support. Higher support loads on the worktop.

(**) The services will be located on the side and front panels, the configuration will be carried out according to the needs of each customer. Models will be adjusted to the regulations in each country.

(***) Optionally, electrical outlets will be installed inside the fume cupboard with an externally-operated safety keypad.

Technical Installations

Models	ELITE 1200	ELITE 1500	ELITE 1800	ELITE 2100	ELITE 2400
Height of the extraction outlet from the ground (mm) ELITE / ELITE LOW	2.670/ 2.470				
Diameter of the extraction outlet (mm) (*)	1 x Ø200	1 x Ø250	1 x Ø250	1 x Ø250	1 x Ø250
Fume Cupboard Control	EO25 (For details, see the chapter on accessories).				
Caresafe Curtain	All models have a Caresafe Curtain.				
Active Airfoil	All models have an Active Airfoil.				
Test flow rate (**)	250m ³ /hx mlin.				
Maximum pressure in the duct	600Pa.				
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a fume cupboard or group of fume cupboards.				

(*) The diameters of the outlet may vary depending on the installation.

(**) The flow rate data provided refers to that obtained in the tests in accordance with EN14175 part 3, taking the limit values set by the German conglomerate BG Chemie and the French research institute INRS as a reference for containment. It must not be used to calculate the dimensions of ducts or the HVAC system. Check nominal flow rates.

BECOME ST fume cupboards



Application

The BECOME ST fume cupboard is intended for general use in the laboratory. Recommended for evacuating fumes, fine dust and light particles from the work area to avoid contaminating the laboratory atmosphere. Not recommended for use with compounds emitting ionising radiation, concentrated acids with a high thermal load or pathogens. The BECOME ST Low version for low ceilings allows it to be installed in laboratories with a minimum height of 2.700mm.

Safe Product

Range certified under European standard EN 14175 parts 2, 3 and 6 Aerodynamic design that makes it possible to obtain optimum results for containment and energy efficiency. Large useful interior capacity with a cabinet which is 1,415 mm high inside, with a glazed upper part that allows full visibility of the tests being carried out inside.

Models



1. BECOME ST



2. BECOME ST Low

Materials

- Resistant to Chemical Stress: Standard with the best quality on the market in terms of materials, a ceramic worktop and inner lining made of HPL high pressure compact laminate with a coating of urethane acrylic resistant to chemical agents.
- Resistant to Mechanical Stress: Great robustness provided by side structural elements.

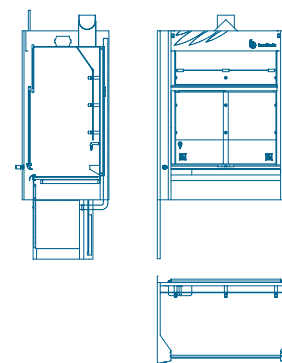
Optional accessories

- Motorised sash.
- VAV control with a valve for a group of fume cupboards.
- Waste collection.
- Power sockets inside.
- Side window.
- Pass box.
- Cable glands.
- Storage under the fume cupboard.

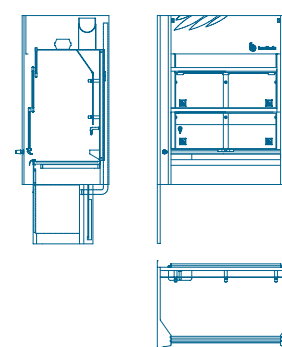
**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

BECOME ST



BECOME ST Low



Datos técnicos

External dimensions

Width (mm)	1.200 1.500 1.800 2.100 2.400
Depth (mm)	950
Height (mm) (*)	2.500

(*) Minimum recommended laboratory height for BST: 3.000mm See lower heights
Minimum recommended laboratory height for BST LOW: 2.700 mm See lower heights.

Interior dimensions

Width (mm)	1.135 1.435 1.735 2.035 2.335
Depth (mm)	740/620
Height (mm) (*)	1.415 1.215

Todos los datos dimensionales Tol: +/- 5mm.

BECOME ST 1500 fume cupboard is certified according to the UNE-EN ISO 14006: 2011 standard.

Technical data

Work dimensions

Work height (mm)	900
Maximum operational height (mm) (*)	500
Recommended distance from sash (area directly behind the sash)(mm)	150
Recommended free space between bulky equipment and the interior walls of the fume cupboard (mm)	100
Recommended elevation of large equipment over the surface of the worktop (mm)	from 25 to 50

(*) When working, keep the sash as low as possible or closed, for th greater protection of the user and lower energy consumption. In the case of installing bulky equipment inside fume cupboards, it is recommended that in situ tests are carried out to ensure containment in these circumstances.

Características Técnicas

Models	BST 1200	BST 1500	BST 1800	BST 2100	BST 2400
Frame	Side frames made of steel pipe, with sheet metal lids, coated with polyester resin. Lower frame.				
Worktop	White, 26mm thick vitrified stoneware panel, with a ridged edge for retaining liquids.				
Interior of the cabinet	6 mm compact high pressure with an acrylic urethane coating. Resistant to impact, humidity, chemical attack and antibacterial in accordance with DIN ES ISO 10545-13 and DIN EN ISO 10545-14. Reaction to fire B-s2-d0, as per EN 438-7..				
Sash	Sash made of 3+3 mm bi-laminar safety glass.				
No. of sashes (Elite/ Elite Low)	1/2				
No. of horizontal rails	2			4	
No. of support for scaffold	9			12	
Maximum load per scaffold support (kg) (*)	5				

Services (**)

	BST 1200	BST 1500	BST 1800	BST 2100	BST 2400
LED lighting (20W)	1	2	2	3	3
230V/16A IP55 power sockets	4				
Magneto-thermal protection	1 x 16A				

Optional services (**)

Sink	300x120x111mm made of PP.
Water tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body and EPDM seal. Maximum working pressure of 10bar.
Combustible gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Taps with safety lock. Brass body, ceramic seal with a nitrile gasket. Maximum working pressure of 07bar.
Instrumental gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating.
Pressure reducers for instrumental gases	Compact design, brass body, with shut-off and control valve and pressure display. Maximum input pressure of 20bar, output pressure of 1,0bar to 8bar. Optional tap for fine tuning.

Pressure reducers for corrosive gases	Compact design, stainless steel body, with shut-off and control valve and pressure display. Maximum input pressure of 20bar, output pressure of 1,0bar to 8bar. Optional tap for fine tuning.
Power sockets (***)	Socket voltage 230V - 16A.
	Socket voltage 230V - 13A.
	Computer socket.
	Telephone socket.
Thermal-magnetic cut-outs	Voice and data socket.
	16A single-phase thermal magnetic circuit breaker.
	16A three-phase thermal magnetic circuit breaker.
	20A single-phase thermal magnetic circuit breaker.
Socket power (**)	20A three-phase thermal magnetic circuit breaker.
	Single-phase power socket (3 poles) 230V - 16A.
	Single-phase power socket (3 poles) 230 - 32A.
	Three-phase power socket (5 poles) 400V - 16A.
Start / stop for accessories in fume cupboard	Three-phase power socket (5 poles) 400V - 32A.
	Start / stop switch.
	Emergency stop button.

(*) Load considered at a distance of 100mm from the support. Higher support loads on the worktop.

(**) The services will be located on the side and front panels, the configuration will be carried out according to the needs of each customer. Models will be adjusted to the regulations in each country.

(***) Optionally, electrical outlets will be installed inside the fume cupboard with an externally-operated safety keypad.

Technical Installations

Models	BST 1200	BST 1500	BST 1800	BST 2100	BST 2400
Height of the extraction outlet from the ground (mm) BST/ BST Low	2.670/ 2.470				
Diameter of the extraction outlet (mm) (*)	1 x Ø200	1 x Ø250	1 x Ø250	1 x Ø250	1 x Ø250
Fume Cupboard Control	EO25 (For details, see the chapter on accessories).				
Test flow rate (**)	350m ³ /hx mln.				
Maximum pressure in the duct	600Pa.				
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a fume cupboard or group of fume cupboards.				

(*) The diameters of the outlet may vary depending on the installation.

(**) The flow rate data provided refers to that obtained in the tests in accordance with EN14175 part 3, taking the limit values set by the German conglomerate BG Chemie and the French research institute INRS as a reference for containment. It must not be used to calculate the dimensions of ducts or the HVAC system. Check nominal flow rates.

Green Cycle fume cupboards



Application

The Green Cycle fume cupboard is intended for general use in the laboratory. Fume cupboard with integrated filtration system, no extraction ducts required. Adaptable to the vast majority of ways of handling chemical reagents in laboratories. Not recommended for compounds emitting ionising radiation, concentrated mineral acids with a high thermal load or pathogens.

Specially designed for laboratories where flexibility is a critical aspect, the Green Cycle version with wheels is a unique item on the market.

Safe Product

Designed and tested in accordance with the EN 141756 standard parts 2, 3 and 6. Filtration tests in accordance with NFX 15-211. Large useful interior capacity with a cabinet which is 1,100 mm high inside, with a glazed upper part that allows full visibility of the tests being carried out inside.

Models



1. BECOME GC



2. BECOME GCR

Materials

- Resistant to chemical and mechanical stress
- Filtration system: it has filtration columns applicable to the vast majority of ways of handling products in laboratories, with the capacity to handle liquids and powder.
- Quick and easy reconfiguration of the filtration columns if requirements change.

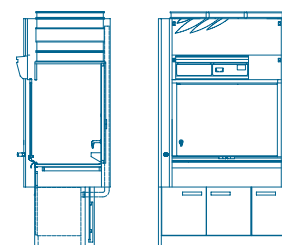
Optional accessories

- Motorised sash.
- Waste collection.
- Power sockets inside.
- Side window.
- Pass box.
- Cable glands.
- Storage under the fume cupboard.

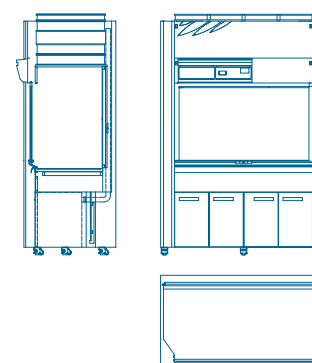
**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

BECOME GC



BECOME GCR



Technical data

External dimensions

Width(mm)	1.500 1.800 2.200
Depth (mm)	950
Height including filters (mm)	2.670
Height (mm) (*)	2.500

(*) Minimum recommended laboratory height: 3000mm See lower heights.

Interior dimensions

Width (mm)	1.435 1.735 2.135
Depth (mm)	740
Height (mm) (*)	1.100

All dimensional data Tol: +/- 5mm.

Technical data

Work dimensions	
Work height (mm)	900
Maximum operational height (mm) (*)	400
Recommended distance from sash (area directly behind the sash)(mm)	150
Recommended free space between bulky equipment and the interior walls of the fume cupboard (mm)	100
Recommended elevation of large equipment over the surface of the worktop (mm)	from 25 to 50

(*) When working, keep the sash as low as possible or closed, for th greater protection of the user and lower energy consumption. In the case of installing bulky equipment inside fume cupboards, it is recommended that in situ tests are carried out to ensure containment in these circumstances.

Technical characteristics

Models	BGC 1500	BGC 1800	BGC2200
Frame(*)	Side frames made of steel pipe, with sheet metal lids, coated with polyester resin. Lower frame.		
Worktop(**)	White, 26mm thick vitrified stoneware panel, with a ridged edge for retaining liquids.		
Interior of the cabinet	6mm compact high pressure with an acrylic urethane coating. Resistant to impact, humidity, chemical attack and antibacterial in accordance with DIN ES ISO 10545-13 and DIN EN ISO 10545-14. Reaction to fire B-s2-d0, as per EN 438-7..		
Sash	Sash made of 3+3 mm bi-laminar safety glass.		
No. of sashes	1		
No. Filtration Columns	3	4	5
Optional: Retractable wheels	They have a retractable system that makes it possible to move the fume cupboard or immobilise it with Silentblock support.		
No. of support for scaffold	9		12
Maximum load per scaffold support (kg) (*)	5		

(*) Optionally, the fume cupboard will be equipped with wheels to facilitate its movement in the laboratory.

(**) Optionally, a glass or Trespa Toplab Plus worktop with epoxy perimeter rim.

(***) Load considered at a distance of 100mm from the support. Higher support loads on the worktop.

Services(**)

LED lighting (20W)	3	4	5
230V/16A IP55 power sockets	4		
Magneto-thermal protection	1		

Optional services(**)

Sink	300x120x111mm made of PP.
Water tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body and EPDM seal. Maximum working pressure of 10 bar.
Combustible gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Taps with safety lock. Brass body, ceramic seal with a nitrile gasket. Maximum working pressure of 07 bar.
Instrumental gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating.
Pressure reducers for instrumental gases	Compact design, brass body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.
Pressure reducers for corrosive gases	Diseño compacto, cuerpo de Inoxidable,disponen de llave de corte, regulación y visualización de presión. Presión máxima de entrada 20bar, presión de salida 1,0bar a 8bar. Opcional llave para regulación fina.
Power sockets (***)	Socket voltage 230 V - 16 A.
	Socket voltage 230 V - 13 A.
	Computer socket.
	Telephone socket.
	Voice and data socket.

Thermal-magnetic cut-outs	16 A single-phase thermal magnetic circuit breaker.
	16 A three-phase thermal magnetic circuit breaker.
	20 A single-phase thermal magnetic circuit breaker.
	20 A three-phase thermal magnetic circuit breaker.
Socket power (**)	Single-phase power socket (3 poles) 230 V - 16 A.
	Single-phase power socket (3 poles) 230 V - 32 A.
	Three-phase power socket (5 poles) 400 V - 16 A.
	Three-phase power socket (5 poles) 400 V - 32 A.
Start / stop for accessories in fume cupboard	Start / stop switch.
	Emergency stop button.

(**) The services will be located on the side and front panels, the configuration will be carried out according to the needs of each customer. Models will be adjusted to the regulations in each country.

(***) Optionally,electrical outlets will be installed inside the fume cupboard with an externally-operated safety keypad.

Technical Installations

Models	BGC 1500	BGC 1800	BGC 2100
Height of output of filtration columns (mm)	2.670		
Minimum laboratory height	3.000		
Fume cupboard control	GFH		
Test flow rate (*)	440m ³ /hx mlin.		
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a fume cupboard or group of fume cupboards.		

(*) The flow rate data provided refers to that obtained in the tests in accordance with EN14175 part 3 and NFX 15-211 for an operational height of 375 mm, taking the limit values set by the German conglomerate BG Chemie and the French research institute INRS as a reference for containment. The dimensions of the HVAC system are not affected by these fume cupboards, as they recirculate 100% of the flow.

GFH Control System

Monitoring	Control	Operation of each fan.
		Extraction flow rate.
		Temperature measurement.
Alarms	Sistema de detección	Solvents.
		Acids.
		Ambient air quality.
Access control	Ventilation failure	Alarm in the event of failure with an indication of the fan number in question.
	Operational height	Alarm in the event of exceeding the operational height.
	Flow alarm	Alarm in the event of insufficient flow.
	Temperature	Temperature alarm at 60 °C.
		Temperature alarm at 80 °C with indication of interruption of ventilation.
Changing filters	Alarm to change filters with identification of the filter to replace.	
Access control	Username	Access to use the fume cupboard.
	Administrator	Access to loom up data and usage parameters.
	Maintenance	Access to all functions of the GC fume cupboard.

BECOME M fume cupboards



Application

La vitrina **BECOME M** está destinada a un uso general en el laboratorio. Específicamente concebida para el acceso total de grandes aparatos. Desaconsejada para su uso con compuestos emisores de radiaciones ionizantes, ácidos concentrados con alta carga térmica o patógenos.

Safe Product

Range certified under European standard EN 14175 parts 2, 3 and 6. Aerodynamic design that makes it possible to obtain optimum results for containment and energy efficiency. Large useful interior capacity with a cabinet which is 1,815 mm high inside. Available for installation with individual or shared ventilation, with optimised VAV systems.

Models



1. BECOME M

Materials

- Resistant to Chemical Stress: Standard with the best quality on the market in terms of materials, a ceramic worktop and inner lining made of HPL high pressure compact laminate with a coating of urethane acrylic resistant to chemical agents.
- Resistant to Mechanical Stress: Great robustness provided by side structural elements.

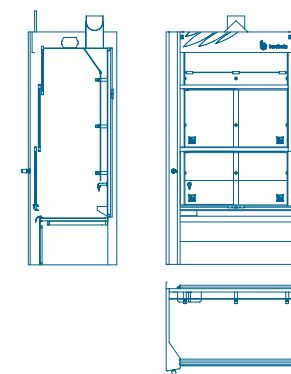
Optional Accessories

- Motorised sash.
- VAV control with a valve for a group of fume cupboards.
- Power sockets inside.
- Side window.
- Pass box.
- Cable glands

**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

BECOME M



Technical data

External dimensions

Width (mm)	1.200 1.500 1.800 2.100 2.400
Depth (mm)	950
Height (mm) (*)	2.500

(*) Minimum recommended laboratory height for BM: 3000 mm See lower heights.

Interior dimensions

Width (mm)	1.135 1.435 1.735 2.035 2.335
Depth (mm)	740/620
Height (mm) (*)	1.815

All dimensional data Tol: +/- 5mm.

Technical data

Work dimensions

Work height (mm) (*)	500
Recommended distance from sash (area directly behind the sash) (mm)	150
Recommended free space between bulky equipment and the interior walls of the fume cupboard (mm)	100
Recommended elevation of large equipment over the surface of the worktop (mm)	from 25 to 50

(*) When working, keep the sash as low as possible or closed, for th greater protection of the user and lower energy consumption. In the case of installing bulky equipment inside fume cupboards, it is recommended that in situ tests are carried out to ensure containment in these circumstances.

Technical Characteristics

Models	BM 1200	BM 1500	BM 1800	BM 2100	BM 2400
Frame	Side frames made of steel pipe, with sheet metal lids, coated with polyester resin. Lower frame.				
Worktop	White, 26 mm thick vitrified stoneware panel, with a ridged edge for retaining liquids.				
Interior of the cabinet	6 mm compact high pressure with an acrylic urethane coating. Resistant to impact, humidity, chemical attack and antibacterial in accordance with DIN ES ISO 10545-13 and DIN EN ISO 10545-14. Reaction to fire B-s2-d0, as per EN 438-7.				
Sash	Sash made of 3+3 mm bi-laminar safety glass.				
No. of sashes (BM/ BM Low)	2				
No. of Horizontal Rails	4			8	
No. Suppor for scaffold	9			12	
Maximum load per busbar support (kg) (*)	5				

(*) Load considered at a distance of 100 mm from the support.
Higher support loads on the worktop.

Services (**)

	1	2	2	3	3
LED lighting (20W)					
230V/16A IP55 power sockets	4				
Magneto-thermal protection	1 x 16A				

Optional services (**)

Sink	300 x 120 x 111 mm made of PP.
Water tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body and EPDM seal. Maximum working pressure of 10 bar.
Combustible gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Taps with safety lock. Brass body, ceramic seal with a nitrile gasket. Maximum working pressure of 07 bar.
Instrumental gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating.

Pressure reducers for instrumental gasses	Compact design, brass body, with shut-off and control valve and pressure display. Maximum input pressure of 20bar, output pressure of 1,0bar to 8bar. Optional tap for fine tuning.
Pressure reducers for corrosive gases	Compact design, stainless steel body, with shut-off and control valve and pressure display. Maximum input pressure of 20bar, output pressure of 1,0bar to 8bar. Optional tap for fine tuning.
Power sockets (***)	Socket voltage 230V - 16A.
	Socket voltage 230V - 13A.
	Computer socket. Telephone socket. Voice and data socket.
Thermal-magnetic cut-outs	16A single-phase thermal magnetic circuit breaker.
	16A three-phase thermal magnetic circuit breaker.
	20A single-phase thermal magnetic circuit breaker.
	20A three-phase thermal magnetic circuit breaker.
Socket power (**)	Single-phase power socket (3 poles) 230V - 16A.
	Single-phase power socket (3 poles) 230 - 32A.
	Three-phase power socket (5 poles) 400V - 16A. Three-phase power socket (5 poles) 400V - 32A.
Start / stop for accessories in fume cupboard	Start / stop switch.
	Emergency stop button.

(**) The services will be located on the side panels, the configuration will be carried out according to the needs of each customer. Power socket models will be adjusted to the regulations in each country
(***) Optionally, electrical outlets will be installed inside the fume cupboard with an externally-operated safety keypad.

Technical Installations

Modelos	BM 1200	BM 1500	BM 1800	BM 2100	BM 2400
Height of the extraction outlet from the ground (mm) BM	2.670/ 2.470				
Diameter of the extraction outlet (mm) (*)	1 x Ø200	1 x Ø250	1 x Ø250	1 x Ø250	1 x Ø250
Fume Cupboard Control	EO 25 (For details, see the chapter on accessories).				
Test flow rate (**)	350m ³ /hx mln.				
Maximum pressure in the duct	600Pa.				
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a fume cupboard or group of fume cupboards.				

(*) The diameters of the outlet may vary depending on the installation.

(**) The flow rate data provided refers to that obtained in the tests in accordance with EN14175 part 3, taking the limit values set by the German conglomerate BG Chemie and the French research institute INRS as a reference for containment. It must not be used to calculate the dimensions of ducts or the HVAC system. Check nominal flow rates.

BECOME W fume cupboards



Application

The BECOME W fume cupboard is intended for general use in the laboratory. Specifically designed for full access of large apparatus or tests to be carried out on mobile tables or on the floor. Not recommended for use with compounds emitting ionising radiation, concentrated acids with a high thermal load or pathogens.

Safe Product

Range certified under European standard EN 14175 parts 2, 3 and 6 Aerodynamic design that makes it possible to obtain optimum results for containment and energy efficiency. Large useful interior capacity with a cabinet which is 2,315 mm high inside. Available for installation with individual or shared ventilation, with optimised VAV systems.

Models



1. BECOME W

Materials

- Resistant to Chemical Stress: Standard with the best quality on the market in terms of materials, interior lining made of HPL high pressure compact laminate with a coating of urethane acrylic resistant to chemical agents.
- Resistant to Mechanical Stress: Great robustness provided by side structural elements.

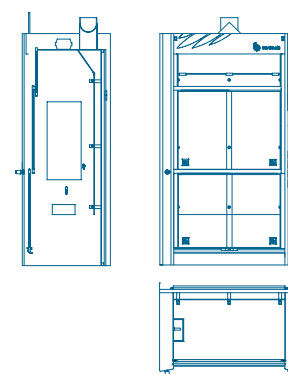
Optional Accessories

- Motorised sash.
- VAV control with a valve for a group of fume cupboards.
- Power sockets inside.
- Side window.
- Pass box.
- Cable glands.

**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

BECOME W



Technical data

External dimensions

Width (mm)	1.500 1.800 2.100 2.400 2.700
Depth (mm)	950
Height (mm) (*)	2.500

(*) Minimum recommended laboratory height for BW: 3000 mm See lower heights.

Interior dimensions

Width (mm)	1.200 1.500 1.800 2.100 2.400
Depth (mm)	740/620
Height (mm)	2.315

All dimensional data Tol: +/- 5mm.

Technical Characteristics

Models	BW 1500	BW 1800	BW 2100	BW 2400	BW 2700
Frame	Estructuras laterales realizadas en tubo de acero con tapas chapa, con recubrimiento de resina poliester. Estructura inferior.				
Interior of the cabinet	Laminado compacto de alta presión HPL de 6mm con recubrimiento de uretano acrílico. Resistente al impacto, la humedad, ataque químico y antibacteriana según norma DIN ES ISO 10545-13 y DIN EN ISO 10545-14. Reacción al fuego B-s2-d0 según EN 438-7.				
Sash	Guillotina de vidrio de seguridad, vidrio bilaminar 3+3mm.				
No. of sashes (BW/ BW Low)	2				
No. of Horizontal Rails	4			8	
No. Support for scaffold	9			12	
Maximum load per busbar support (kg) (*)	5				

(*) Load considered at a distance of 100 mm from the support. Higher support loads on the worktop.

Services (**)

LED lighting (20W)	1	2	2	3	3
230V/16A IP55 power sockets	4				
Magneto-thermal protection	1 x 16A				

Optional services (**)

Sink	300 x 120 x 111 mm made of PP.
Water tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body and EPDM seal. Maximum working pressure of 10 bar.
Combustible gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Taps with safety lock. Brass body, ceramic seal with a nitrile gasket. Maximum working pressure of 07 bar.
Instrumental gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating.
Pressure reducers for instrumental gases	Compact design, brass body, with shut-off and control valve and pressure display. Maximum input pressure of 20bar, output pressure of 1,0bar to 8bar. Optional tap for fine tuning.
Pressure reducers for corrosive gases	Compact design, stainless steel body, with shut-off and control valve and pressure display. Maximum input pressure of 20bar, output pressure of 1,0bar to 8bar. Optional tap for fine tuning.
Power sockets (***)	Socket voltage 230 V - 16 A.
	Socket voltage 230 V - 13 A.
	Computer socket.
	Telephone socket.
	Voice and data socket.

Thermal-magnetic cut-outs	16 A single-phase thermal magnetic circuit breaker.
	16 A three-phase thermal magnetic circuit breaker.
	20 A single-phase thermal magnetic circuit breaker.
	20 A three-phase thermal magnetic circuit breaker.
Socket power (**)	Single-phase power socket (3 poles) 230 V - 16 A.
	Single-phase power socket (3 poles) 230 V - 32 A.
	Three-phase power socket (5 poles) 400 V - 16 A.
	Three-phase power socket (5 poles) 400 V - 32 A.
Start / stop for accessories in fume cupboard	Start / stop switch.
	Emergency stop button.

(**) The services will be located on the side panels, the configuration will be carried out according to the needs of each customer. Power socket models will be adjusted to the regulations in each country
(***) Optionally, electrical outlets will be installed inside the fume cupboard with an externally-operated safety keypad.

Technical Installations

Models	BW 1500	BW 1800	BW 2100	BW 2400	BW 2700
Height of the extraction outlet from the ground (mm) BW	2.670				
Diameter of the extraction outlet (mm) (*)	1 x Ø200	1 x Ø250	1 x Ø250	1 x Ø250	1 x Ø250
Fume Cupboard Control	EO25.				
Test flow rate (**)	350 m ³ /hx min.				
Maximum pressure in the duct	600Pa.				
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a fume cupboard or group of fume cupboards.				

(*) The diameters of the outlet may vary depending on the installation

(**) The flow rate data provided refers to that obtained in the tests in accordance with EN14175 part 3, taking the limit values set by the German conglomerate BG Chemie and the French research institute INRS as a reference for containment. It must not be used to calculate the dimensions of ducts or the HVAC system. Check nominal flow rates.

Fume cupboards for specific

- Fume cupboard for acids: AC and ACL P.88**
- Fume cupboard for hydrofluoric acid: ACF and ACFL P.92**
- Fume cupboard for perchloric acid P.96**
- Fume cupboard for solvents P.100**
- Fume cupboard for Beta radioisotopes: RB P.104**
- Fume cupboard for Gamma radioisotopes: RG P.108**
- Ikasi fume cupboard P.112**



BECOME AC fume cupboards



Application

The BECOME AC fume cupboard is intended for handling concentrated acids and high thermal loads. Recommended for the evacuation of fumes and aerosols generated in reactions with concentrated acids handled in the work area, in order to avoid contaminating the laboratory atmosphere. Not recommended for use with hydrochloric acid, compounds emitting ionising radiation, large amounts of solvents or pathogens.

Safe Product

Range certified under European standard EN 14175 parts 2 and 7. The design of the BECOME AC fume cupboard makes it possible to ensure safety and operating objectives at high temperatures, and avoid dangerous concentrations and deposits of acids or hydroxides in the work area.

Models



1. BECOME AC



2. BECOME ACL

Materials

- Resistant to Chemical Stress: Smooth materials that are easy to clean. Suitable against chemical erosion from acids and thermal deformation at the temperature of use.
- Ceramic worktop and interior lining.
- Resistant to Mechanical Stress.

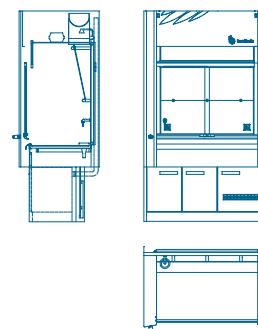
Accesorios opcionales

- Gas scrubber.
- Neutraliser.
- Motorised sash.
- VAV control with a valve for a group of fume cupboards.
- Waste collection.
- Storage under the fume cupboard.

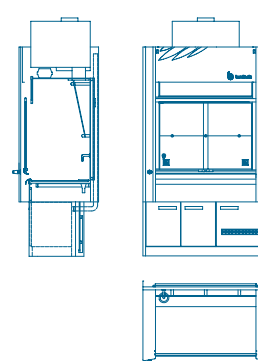
**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

BECOME AC



BECOME ACL



Technical data

External dimensions

Width (mm)	1.500 1.800
Depth (mm)	950
Height (mm) (*)	2.500

(*) Minimum recommended laboratory height for BAC: 3,000 mm See lower heights.
Minimum recommended laboratory height for BACL: 3,300 mm See lower heights.

Interior dimensions

Width (mm)	1.225 1.525
Depth (mm)	740/620
Height (mm)	1.215

TALL dimensional data Tol: +/- 5mm.

Technical data

Dimensiones de trabajo

Work height (mm)	900
Maximum operational height (mm) (*)	400
Recommended distance from sash (area directly behind the sash) (mm)	150
Recommended free space between bulky equipment and the interior walls of the fume cupboard (mm)	100
Recommended elevation of large equipment over the surface of the worktop (mm)	25 to 50

(*) When working, keep the sash as low as possible or closed, for th greater protection of the user and lower energy consumption. In the case of installing bulky equipment inside fume cupboards, it is recommended that in situ tests are carried out to ensure containment in these circumstances.

Technical Characteristics

Models	BAC/ BACL 1500	BAC/ BACL 1800
Frame	Side frames made of steel pipe, with sheet metal lids, coated with polyester resin. Lower frame.	
Worktop	White, 26 mm thick vitrified stoneware panel, with a ridged edge for retaining liquids	
Interior of the cabinet	6 mm vitrified stoneware. Resistant to chemical account	
Sash	Sash made of 3+3 mm bi-laminar safety glass	
No. of sashes	1	
Trap for concentrated acids (BAC)	Prevents condensate that may be produced during extraction from returning to the fume cupboard.	
Extraction trap Gas Scrubber (BACL)	Adapted for the installation of a gas scrubber in the fume cupboard	

Services (**)

LED lighting (20W)	2	2
230V/16A IP55 power sockets	4	
Magneto-thermal protection	1 x 16A	

Optional services(**)

Sink	Ceramic.
Water tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body and EPDM seal. Maximum working pressure of 10 bar.
Combustible gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Taps with safety lock. Brass body, ceramic seal with a nitrile gasket. Maximum working pressure of 07 bar.
Instrumental gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating.
Pressure reducers for instrumental gasses	Compact design, brass body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.

Pressure reducers for corrosive gases	Compact design, stainless steel body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.
Power sockets (***)	Socket voltage 230V - 16A.
	Socket voltage 230V - 13A.
	Computer socket.
	Telephone socket.
Thermal-magnetic cut-outs	16A single-phase thermal magnetic circuit breaker.
	16A three-phase thermal magnetic circuit breaker.
	20A single-phase thermal magnetic circuit breaker.
	20A three-phase thermal magnetic circuit breaker.
Socket power (**)	Single-phase power socket (3 poles) 230V - 16A.
	Single-phase power socket (3 poles) 230 - 32A.
	Three-phase power socket (5 poles) 400V - 16A.
	Three-phase power socket (5 poles) 400V - 32A.
Start / stop for accessories in fume cupboard	Start / stop switch.
	Emergency stop button.

(**) The services will be located on the side and front panels, the configuration will be carried out according to the needs of each customer. Models will be adjusted to the regulations in each country
 (***) Optionally, electrical outlets will be installed inside the fume cupboard with an externally-operated safety keypad..

Technical Installations

Models	AC/ ACL 1500	AC/ ACL 1800
Height of the extraction outlet from the ground (mm) BAC/ BACL	2.470/ 2.850	
Diameter of the extraction outlet(mm) (*)	1 x Ø250	1 x Ø250
Fume Cupboard Control	EO 25 (For details, see the chapter on accessories).	
Test flow rate (**)	467 m ³ /hx mlin.	
Maximum pressure in the duct	600Pa.	
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a fume cupboard or group of fume cupboards.	
Instalación para captador de condensados	Water flow solenoid valve.	
	Input water flow regulator	
	Ø 32 mm propylene extraction pipe.	

(*) Los diámetros de salida pueden variar en función de la instalación.

(**) The flow rate data provided refers to that obtained in the tests in accordance with EN14175 part 7, taking the limit values set by the German conglomerate BG Chemie and the French research institute INRS as a reference for containment. It must not be used to calculate the dimensions of ducts or the HVAC system. Check nominal flow rates.

BECOME ACF fume cupboards



Application

The BECOME ACF fume cupboard is intended for handling hydrofluoric acid. Recommended for the evacuation of fumes and aerosols generated in reactions with hydrofluoric acid handled in the work area, in order to avoid contaminating the laboratory atmosphere. Not recommended for use with compounds emitting ionising radiation, large amounts of solvents or pathogens.

Safe Product

Range certified under European standard EN 14175 parts 2 and 7. The design of the BECOME ACF fume cupboard makes it possible to ensure safety and operating objectives when handling hydrofluoric acid, and avoid dangerous concentrations and deposits in the work area. Cabinet interior made of polypropylene in one piece, sash made of transparent methacrylate for acids or hydroxides in the work area.

Models



1. BECOME ACF



2. BECOME ACFL

Materials

- Resistant to Chemical Stress: Standard with the best quality on the market in terms of materials. Cabinet made of 10 mm polypropylene welded without joints and with a 20 mm worktop with integrated sink. The worktop has a front ridge to prevent possible spillages.
- Resistant to Mechanical Stress: Great robustness provided by side structural elements.

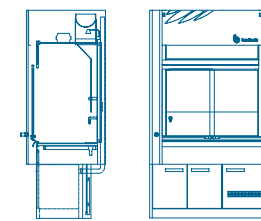
Optional accessories

- Motorised sash.
- VAV control with a valve for a group of fume cupboards.
- Waste collection.
- Gas scrubber.
- Neutraliser.
- Motorised sash.
- VAV control with a valve for a group of fume cupboards.
- Waste collection.
- Storage under the fume cupboard.

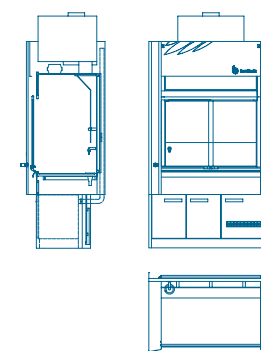
**For more details, see the chapter on "Accessories for fume cupboards".*

Planos

BECOME ACF



BECOME ACFL



Technical data

External dimensions

Width (mm)	1.500 1.800
Depth (mm)	950
Height (mm) (*)	2.500

(*) Minimum recommended laboratory height for BACF: 3,000 mm See lower heights.
Minimum recommended laboratory height for BACFL: 3,300 mm See lower heights.

Interior dimensions

Width (mm)	1.225 1.525
Depth (mm)	740/620
Height (mm)	1.215

All dimensional data Tol: +/- 5mm.

Technical data

Work dimensions

Work height (mm)	900
Maximum operational height (mm) (*)	400
Recommended distance from sash (area directly behind the sash) (mm)	150
Recommended free space between bulky equipment and the interior walls of the fume cupboard (mm)	100
Recommended elevation of large equipment over the surface of the worktop (mm)	25 to 50

(*) When working, keep the sash as low as possible or closed, for th greater protection of the user and lower energy consumption. In the case of installing bulky equipment inside fume cupboards, it is recommended that in situ tests are carried out to ensure containment in these circumstances.

Technical Characteristics

Models	BACF/ BACFL 1500	BACF/ BACFL 1800
Frame	Side frames made of steel pipe, with sheet metal lids, coated with polyester resin. Lower frame.	
Worktop	White, 20 mm thick worktop, with a ridged edge for retaining liquids. Interior of the cabinet welded without joints.	
Interior of the cabinet	10 mm thick polypropylene. Resistant to chemical account. Interior of the cabinet welded without joints.	
Optional: Interior of the cabinet made of PVDF	Worktop and interior of the cabinet fully welded without joints made of 5 mm thick PVDF.	
Sash	10 mm methacrylate sash.	
No. of sashes	1	
No. of Horizontal Rails	2	
Trap for concentrated acids (BACF)	Prevents condensate that may be produced during extraction from returning to the fume cupboard.	
Extraction trap Gas scaffold (BACFL)	Adapted for the installation of a gas scrubber in the fume cupboard.	
Services (**)		
LED lighting (20W)	2	2
230V/16A IP55 power sockets	4	
Magneto-thermal protection	1 x 16A	
Optional services (**)		
Sink	Made of PP, integrated into the worktop.	
Water tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body and EPDM seal. Maximum working pressure of 10 bar.	
Combustible gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Taps with safety lock. Brass body, ceramic seal with a nitrile gasket. Maximum working pressure of 07 bar.	
Instrumental gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating.	
Pressure reducers for instrumental gasses	Compact design, brass body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.	

Pressure reducers for corrosive gases	Compact design, stainless steel body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.
Power sockets (***)	Socket voltage 230V - 16A.
	Socket voltage 230V - 13A.
	Computer socket.
	Telephone socket.
Thermal-magnetic cut-outs	Voice and data socket.
	16A single-phase thermal magnetic circuit breaker.
	16A three-phase thermal magnetic circuit breaker.
	20A single-phase thermal magnetic circuit breaker.
Socket power (**)	20A three-phase thermal magnetic circuit breaker.
	Single-phase power socket (3 poles) 230V - 16A.
	Single-phase power socket (3 poles) 230 - 32A.
	Three-phase power socket (5 poles) 400V - 16A.
Start / stop for accessories in fume cupboard	Three-phase power socket (5 poles) 400V - 32A.
	Start / stop switch.
	Emergency stop button.

(**) The services will be located on the side and front panels, the configuration will be carried out according to the needs of each customer. Models will be adjusted to the regulations in each country.
(***) Optionally, electrical outlets will be installed inside the fume cupboard with an externally-operated safety keypad.

Technical Installations

Models	BACF/ BACFL 1500	BACF/ BACFL 1800
Height of the extraction outlet from the ground (mm) BACF/BACFL	2.470/ 2.850	
Diameter of the extraction outlet (mm) (*)	1 x Ø250	1 x Ø250
Fume Cupboard Control	EO 25 (For details, see the chapter on accessories).	
Test flow rate (**)	467m ³ /hx mln.	
Maximum pressure in the duct	600Pa.	
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a fume cupboard or group of fume cupboards	
Installation for condensate trap	Water flow solenoid valve.	
	Input water flow regulator.	
	Ø 32 mm propylene extraction pipe.	

(*) The diameters of the outlet may vary depending on the installation.

(**) The flow rate data provided refers to that obtained in the tests in accordance with EN14175 part 7, taking the limit values set by the German conglomerate BG Chemie and the French research institute INRS as a reference for containment. It must not be used to calculate the dimensions of ducts or the HVAC system. Check nominal flow rates.

BECOME Perchloric Acid fume cupboards



Application

The BECOME Perchloric Acid fume cupboard is designed and tested in accordance with the EN 14175 standard. Recommended for the evacuation of perchloric acid fumes. Not recommended for use with compounds emitting ionising radiation, concentrated mineral acids or pathogens.

Safe Product

Range manufactured under European standard EN 14175 parts 2 and 7. The design of the BECOME Perchloric Acid fume cupboard makes it possible to ensure safety and operating objectives when handling perchloric acid, and avoid dangerous concentrations and deposits in the work area. Interior cabinet made of a single stainless steel sheet, sash made of 3 + 3 mm bi-laminate glass. It has a shower and longitudinal sink to avoid the formation of explosive crystals in the work area.

Models



1. BECOME Perchloric

Materials

- Resistant to Chemical Stress: Smooth materials that are easy to clean. Suitable against chemical erosion due to perchloric acid. Cabinet interior made of a single stainless steel (AISI 316) sheet.
- Resistant to Mechanical Stress.

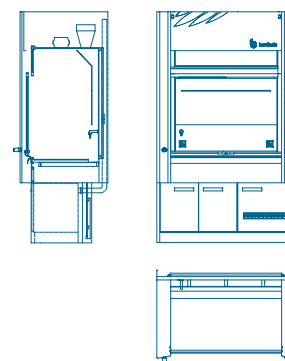
Optional accessories

- Waste collection.
- Storage under the fume cupboard.

**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

BECOME Perchloric



Technical data

External dimensions

Width (mm)	1.500 1.800
Depth (mm)	950
Height (mm) (*)	2.500

(*) Minimum recommended laboratory height for Perchloric Acid: 3.000 mm See lower heights.

Interior dimensions

Width (mm)	1.225 1.525
Depth (mm)	740/620
Height (mm)	1.215

All dimensional data Tol: +/- 5mm

Technical data

Work dimensions

Work height (mm)	900
Maximum operational height (mm) (*)	500
Recommended distance from sash (area directly behind the sash) (mm)	150
Recommended free space between bulky equipment and the interior walls of the fume cupboard (mm)	100
Recommended elevation of large equipment over the surface of the worktop (mm)	25 to 50

(*) When working, keep the sash as low as possible or closed, for th greater protection of the user and lower energy consumption. In the case of installing bulky equipment inside fume cupboards, it is recommended that in situ tests are carried out to ensure containment in these circumstances.

Technical Characteristics

Models	B Perchloric Acid 1500	B Perchloric Acid1800
Frame	Side frames made of steel pipe, with sheet metal lids, coated with polyester resin. Lower frame.	
Worktop	Worktop made of a 20 mm thick stainless steel (AISI 316) sheet on a support board. Interior of the cabinet welded without joints.	
Interior of the cabinet	AISI 316 stainless steel sheet made in a single piece with rounded joints. Resistant to chemical account. Interior of the cabinet welded without joints.	
Shower	Shower at the top of the deflector to prevent the formation of explosive crystals. At the back of the work area there is a hole running lengthwise to evacuate the water from the shower.	
Sash	Sash made of 3 + 3 mm bi-laminate glass.	
No. of sashes	1	
No. of Horizontal Rails	2	
Services (**)		
LED lighting (20W)	2	2
230V/16A IP55 power sockets	4	
Magneto-thermal protection	1 x 16A	
Optional services (**)		
Water tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body and EPDM seal. Maximum working pressure of 10 bar.	
Combustible gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Taps with safety lock. Brass body, ceramic seal with a nitrile gasket. Maximum working pressure of 07 bar.	
Instrumental gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating.	
Pressure reducers for instrumental gasses	Compact design, brass body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.	

Pressure reducers for corrosive gases	Compact design, stainless steel body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.
Power sockets (***)	Socket voltage 230V - 16A.
	Socket voltage 230V - 13A.
	Computer socket.
	Telephone socket.
Thermal-magnetic cut-outs	Voice and data socket.
	16A single-phase thermal magnetic circuit breaker.
	16A three-phase thermal magnetic circuit breaker.
	20A single-phase thermal magnetic circuit breaker.
Socket power (**)	20A three-phase thermal magnetic circuit breaker.
	Single-phase power socket (3 poles) 230V - 16A.
	Single-phase power socket (3 poles) 230 - 32A.
	Three-phase power socket (5 poles) 400V - 16A.
Start / stop for accessories in fume cupboard	Three-phase power socket (5 poles) 400V - 32A.
	Start / stop switch.
	Emergency stop button.

(**) The services will be located on the side and front panels, the configuration will be carried out according to the needs of each customer. Models will be adjusted to the regulations in each country
(***) Optionally, electrical outlets will be installed inside the fume cupboard with an externally-operated safety keypad.

Technical Installations

Models	B Perchloric Acid 1500	B Perchloric Acid1800
Height of the extraction outlet from the ground (mm) BP	2.470	
Diameter of the extraction outlet (mm) (*)	1 x Ø250	1 x Ø250
Fume Cupboard Control	EO 25 (For details, see the chapter on accessories).	
Test flow rate (**)	467 m ³ /hx mln.	
Maximum pressure in the duct	600Pa.	
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a fume cupboard or group of fume cupboards.	

(*) The diameters of the outlet may vary depending on the installation

(**) The flow rate data provided refers to that obtained in the tests in accordance with EN14175 part 7, taking the limit values set by the German conglomerate BG Chemie and the French research institute INRS as a reference for containment. It must not be used to calculate the dimensions of ducts or the HVAC system. Check nominal flow rates.

BECOME D fume cupboards



Aplicación

The BECOME D fume cupboard is designed and tested in accordance with the EN 14175 standard. Recommended for evacuating fumes from flammable solvents from the work area to avoid contaminating the laboratory atmosphere. Not recommended for use with compounds emitting ionising radiation, concentrated mineral acids or pathogens.

Producto Seguro

Range certified under European standard EN 14175 parts 2 and 7. The design of the BECOME D fume cupboard makes it possible to ensure safety and operating objectives when handling solvents, and avoid dangerous concentrations and deposits in the work area. Interior cabinet made of a single stainless steel sheet, sash made of 3 + 3 mm bi-laminate glass.

Models



1. BECOME D

Materials

- Resistant to Chemical Stress: Smooth materials that are easy to clean. Suitable against chemical erosion due to solvents. Cabinet interior made of a single stainless steel (AISI 316) sheet.
- Resistant to Mechanical Stress.

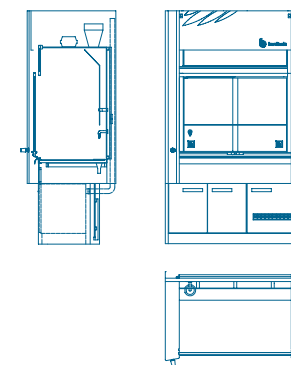
Optional accessories

- Filtration Equipment.
- Motorised sash.
- VAV control with a valve for a group of fume cupboards.
- Waste Collection.
- Storage under the fume cupboard.

**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

BECOME D



Technical data

External dimensions

Width (mm)	1.500 1.800
Depth (mm)	950
Height (mm) (*)	2.500

(*) Minimum recommended laboratory height for BD: 3,000 mm See lower heights.

Interior dimensions

Width (mm)	1.225 1.525
Depth (mm)	740/620
Height (mm)	1.215

All dimensional data Tol: +/- 5mm.

Technical data

Work dimensions	
Work height (mm)	900
Maximum operational height (mm) (*)	500
Recommended distance from sash (area directly behind the sash) (mm)	150
Recommended free space between bulky equipment and the interior walls of the fume cupboard (mm)	100
Recommended elevation of large equipment over the surface of the worktop (mm)	25 a 50

(*) When working, keep the sash as low as possible or closed, for th greater protection of the user and lower energy consumption.
In the case of installing bulky equipment inside fume cupboards, it is recommended that in situ tests are carried out to ensure containment in these circumstances.

Technical Characteristics

Models	BD 1500	BD 1800
Frame	Side frames made of steel pipe, with sheet metal lids, coated with polyester resin. Lower frame.	
Worktop	Worktop made of a 20 mm thick stainless steel (AISI 316) sheet on a support board. Interior of the cabinet welded without joints.	
Interior of the cabinet	AISI 316 stainless steel sheet made in a single piece with rounded joints. Resistant to chemical account. Interior of the cabinet welded without joints.	
Sash	Sash made of 3 + 3 mm bi-laminate glass	
No. of sashes	1	
No. of Horizontal Rails	2	
Services (**)		
LED lighting (20W)	2	2
230V/16A IP55 power sockets	4	
Magneto-thermal protection	1 x 16A	
Optional services (**)		
Water tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body and EPDM seal. Maximum working pressure of 10 bar.	
Combustible gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Taps with safety lock. Brass body, ceramic seal with a nitrile gasket. Maximum working pressure of 07 bar.	
Instrumental gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating.	
Pressure reducers for instrumental gasess	Compact design, brass body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.	

Pressure reducers for corrosive gases	Compact design, stainless steel body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.
Power sockets (***)	Socket voltage 230V - 16A.
	Socket voltage 230V - 13A.
	Computer socket.
	Telephone socket.
Thermal-magnetic cut-outs	16A single-phase thermal magnetic circuit breaker.
	16A three-phase thermal magnetic circuit breaker.
	20A single-phase thermal magnetic circuit breaker.
	20A three-phase thermal magnetic circuit breaker.
Socket power (**)	Single-phase power socket (3 poles) 230V - 16A.
	Single-phase power socket (3 poles) 230 - 32A.
	Three-phase power socket (5 poles) 400V - 16A.
	Three-phase power socket (5 poles) 400V - 32A.
Start / stop for accessories in fume cupboard	Start / stop switch.
	Emergency stop button.

(**) The services will be located on the side and front panels, the configuration will be carried out according to the needs of each customer. Models will be adjusted to the regulations in each country
(***) Optionally, electrical outlets will be installed inside the fume cupboard with an externally-operated safety keypad.

Technical Installations

Models	BD 1500	BD1800
Height of the extraction outlet from the ground (mm) BD	2.470	
Diameter of the extraction outlet (mm) (*)	1 x Ø250	1 x Ø250
Fume Cupboard Control	EO 25 (For details, see the chapter on accessories).	
Test flow rate (**)	467 m ³ /hx mlin.	
Maximum pressure in the duct	600Pa.	
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a fume cupboard or group of fume cupboards.	

(*) The diameters of the outlet may vary depending on the installation.

(**) The flow rate data provided refers to that obtained in the tests in accordance with EN14175 part 7, taking the limit values set by the German conglomerate BG Chemie and the French research institute INRS as a reference for containment. It must not be used to calculate the dimensions of ducts or the HVAC system. Check nominal flow rates.

BECOME RB fume cupboards



Fume cupboard for handling radionuclides emitting beta type ionising particles. Meets the requirements for handling high-energy radionuclides. The RB fume cupboard is recommended for low radiotoxicity. Cabinet interior made of fibreglass and polyester, with rounded corners to facilitate possible decontamination. Front shield (mobile window) in 10 mm polycarbonate, overlapping the work area to ensure safety. It has peepholes which allow the user access, without the need for an opening. Not recommended for concentrated mineral acids, solvents or pathogens. It has a triple filter set which combines an impregnated carbon filter with absolute filters, with an efficiency of 99.99%. Equipped as standard with a fixed flow system and frequency converter.

Note: the fume cupboards for handling radium isotopes are outside the scope of the normal fume cupboard standard.

Models



1. BECOME RB

Materials

- Made of smooth materials that are easy to clean. Suitable for facilitating possible decontamination.
- Interior cabinet made of a single piece of fibreglass and polyester.
- Resistant to Mechanical Stress.

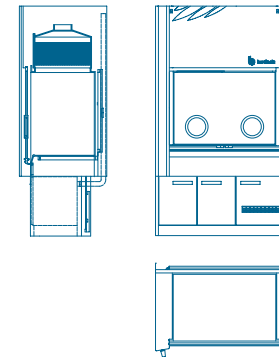
Accesorios opcionales

- Filtration Equipment.
- Storage under the fume cupboard.

** For more details, see the chapter on "Accessories for fume cupboards".*

Planos

BECOME RB



Technical data

External dimensions

Width (mm)	1.500
Depth (mm)	950
Height (mm) (*)	2.500

(*) Minimum recommended laboratory height for B RB: 3,000 mm See lower heights.

Interior dimensions

Width (mm)	1.115
Depth (mm)	700
Height (mm)	900

All dimensional data Tol: +/- 5mm.

Technical data

Work dimensions

Work height (mm)	900
Maximum operational height (mm) (*)	0
Recommended distance from sash (area directly behind the sash) (mm)	150
Recommended free space between bulky equipment and the interior walls of the fume cupboard (mm)	100
Recommended elevation of large equipment over the surface of the worktop (mm)	25 to 50

(*) When working, keep the sash closed. Only use the vertical sash to insert or remove objects from the fume cupboard.

Technical Characteristics

Models	BRB 1500
Frame	Side frames made of steel pipe, with sheet metal lids, coated with polyester resin. Lower frame.
Interior of the cabinet	The interior cabinet is made of a seamless mould, reinforced with fibreglass and finished with white Gelcoat.
Sash	Polycarbonate sash.
No. of sashes	1
No. of Horizontal Rails	0. There are two openings incorporated for the arms.
Services (**)	
230 V / 16 A IP55 power sockets (**)	4
Magneto-thermal Protection	1 x 16A
Optional services (**)	
Combustible gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Taps with safety lock. Brass body, ceramic seal with a nitrile gasket. Maximum working pressure of 07 bar.
Instrumental gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating.
Pressure reducers for instrumental gases	Compact design, brass body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.
Pressure reducers for corrosive gases	Compact design, stainless steel body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.
Power sockets (***)	Socket voltage 230V - 16A.
	Socket voltage 230V - 13A.
	Computer socket.
	Telephone socket.
	Voice and data socket.

Thermal-magnetic cut-outs	16A single-phase thermal magnetic circuit breaker.
	16A three-phase thermal magnetic circuit breaker.
	20A single-phase thermal magnetic circuit breaker.
	20A three-phase thermal magnetic circuit breaker.
Socket power (**)	Single-phase power socket (3 poles) 230V - 16A.
	Single-phase power socket (3 poles) 230 - 32A.
	Three-phase power socket (5 poles) 400V - 16A.
	Three-phase power socket (5 poles) 400V - 32A.
Start / stop for accessories in fume cupboard	Start / stop switch.
	Emergency stop button.

(**) The services will be located on the side and front panels, the configuration will be carried out according to the needs of each customer. Models will be adjusted to the regulations in each country.
(***) Optionally, electrical outlets will be installed inside the fume cupboard with an externally-operated safety keypad.

Technical Installations

Models	BRB 1500
Height of the extraction outlet from the ground (mm) BRB	2.490
Diameter of the extraction outlet (mm) (*)	1 x Ø200
Fume Cupboard Control	EO25 (Consultar detalle en capítulo accesorios).
Maximum pressure in the duct	600Pa.
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a fume cupboard or group of fume cupboards.

BECOME RG fume cupboards



Fume cupboard for use with radionuclides generating gamma type ionising emissions, for medium and high radiotoxicity. Interior cabinet made of fibreglass and finished in polyester, with rounded corners to facilitate possible decontamination. The radiation shield is reinforced against ionising radiation by the addition of a 2.5 mm thick layer of lead. Front shield (mobile window) in 10 mm leaded glass, overlapping the work area to ensure safety. It has peepholes which allow the user access, without the need for a vertically opening sash window. Not recommended for concentrated mineral acids, solvents or pathogens. Triple filter set which combines an carbon filter with absolute filters, with an efficiency of 99.99%. Equipped as standard with a fixed flow system and frequency converter.

Note: The fume cupboards for handling radium isotopes are outside the scope of the normal fume cupboard standard.

Models



1. BECOME RG

Materials

- Made of smooth materials that are easy to clean. Suitable for facilitating possible decontamination.
- Interior cabinet made of a single piece of fibreglass and polyester.
- Sash made of 10 mm leaded glass.
- Resistant to Mechanical Stress.

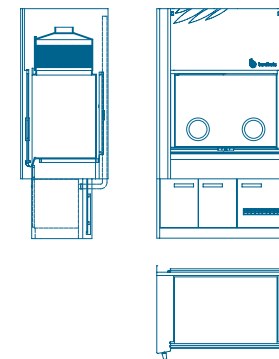
Optional accessories

- Filtration equipment.
- Storage under the fume cupboard.

**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

BECOME RG



Technical data

External dimensions

Width (mm)	1.500
Depth (mm)	950
Height (mm) (*)	2.500

(*) Minimum recommended laboratory height for B RG: 3,000 mm See lower heights.

Dimensiones internas

Width (mm)	1.115
Depth (mm)	700
Height (mm)	900

All dimensional data Tol: +/- 5mm.

Technical data

Work dimensions

Work height (mm)	900
Maximum operational height (mm) (*)	0
Recommended distance from sash (area directly behind the sash) (mm)	150
Recommended free space between bulky equipment and the interior walls of the fume cupboard (mm)	100
Recommended elevation of large equipment over the surface of the worktop (mm)	25 to 50

* When working, keep the sash closed. Only use the vertical sash to insert or remove objects from the fume cupboard

Technical Characteristics

Models	BRG 1500
Frame	Side frames made of steel pipe, with sheet metal lids, coated with polyester resin. Lower frame.
Interior of the cabinet	The interior cabinet is made of a seamless mould, reinforced with fibreglass and finished with white Gelcoat. Reinforced against ionizing
Sash	Leaded glass sash with an equivalence of 1.5 mm in lead.
No. of sashes	1
No. of Horizontal Rails	0. There are two openings incorporated for the arms.
Services (**)	
230 V / 16 A IP55 power sockets (**)	4
Magneto-thermal Protection	1 x 16A
Optional services (**)	
Combustible gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Taps with safety lock. Brass body, ceramic seal with a nitrile gasket. Maximum working pressure of 07 bar.
Instrumental gas tap with remote control	Acid-resistant handle with identification code in accordance with EN 13792. Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating.
Pressure reducers for instrumental gases	Compact design, brass body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.
Pressure reducers for corrosive gases	Compact design, stainless steel body, with shut-off and control valve and pressure display. Maximum input pressure of 20 bar, output pressure of 1.0 bar to 8.0 bar. Optional tap for fine tuning.

Power sockets (***)	Socket voltage 230V - 16A.
	Socket voltage 230V - 13A.
	Computer socket.
	Telephone socket.
Thermal-magnetic cut-outs	Voice and data socket.
	16A single-phase thermal magnetic circuit breaker.
	16A three-phase thermal magnetic circuit breaker.
	20A single-phase thermal magnetic circuit breaker.
Socket power (**)	20A three-phase thermal magnetic circuit breaker.
	Single-phase power socket (3 poles) 230V - 16A.
	Single-phase power socket (3 poles) 230 - 32A.
	Three-phase power socket (5 poles) 400V - 16A.
Start / stop for accessories in fume cupboard	Three-phase power socket (5 poles) 400V - 32A.
	Start / stop switch.
	Emergency stop button.

(**) The services will be located on the side and front panels, the configuration will be carried out according to the needs of each customer. Models will be adjusted to the regulations in each country.
(***)Optionally, electrical outlets will be installed inside the fume cupboard with an externally-operated safety keypad.

Technical Installations

Models	BRG 1500
Height of the extraction outlet from the ground(mm) BRG	2.490
Diameter of the extraction outlet (mm) (*)	1 x Ø200
Fume Cupboard Control	EO 25 (For details, see the chapter on accessories).
Maximum pressure in the duct	600Pa.
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a fume cupboard or group of fume cupboards.

IKASI fume cupboards



Fume cupboard for teaching designed for use in educational establishments. It makes it possible to teach practical classes in the cabinet and allows students to follow instructions safely and with high visibility. Designed and tested in accordance with the UNE EN 14175 and NFX 15-211 reference guidelines.

It incorporates filtration technology and, therefore, does not require extraction to the outside. It is an energy-efficient unit and does not consume outside air. It is intended as a plug-in unit that only requires an electrical socket to operate. It is equipped with wheels and its height can be adjusted, which allows this fume cupboard to be moved from one room to another. The height adjustment feature also makes it possible to adjust the height of the working position according to the needs of each user. Ikasi fume cupboards have a stop / go control and the possibility to incorporate electrical and fluid services into the interior with external controls.

Models



1. IKASI fume cupboard

Materials

- Made of smooth materials that are easy to clean.
- Work surface in high pressure laminate with chemical resistance.
- The side and front walls of the cabinet are made of curved safety glass.

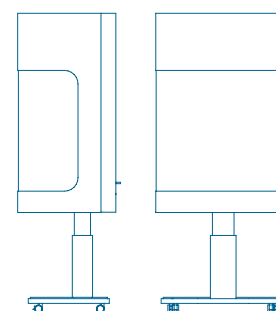
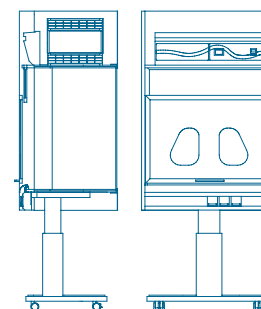
Optional accessories

- Filtration equipment.
- Chamber.

**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

IKASI fume cupboard



Technical data

External dimensions

Width (mm)	1.000
Depth (mm)	730
Adjustable height (mm)	1.940 / 2.240

Interior dimensions

Width (mm)	950
Depth (mm)	645
Height (mm)	900

All dimensional data Tol: +/- 5mm.

Work dimensions

Work height (mm)	Adjustable
Maximum operational height (mm) (*)	0
Recommended distance from sash (area directly behind the sash) (mm)	150
Recommended free space between bulky equipment and the interior walls of the fume cupboard (mm)	100
Recommended elevation of large equipment over the surface of the worktop (mm)	25 a 50

(*) When working, keep the sash closed. Only use the vertical sash to insert or remove objects from the fume cupboard

Accessories for fume cupboards

- Motorised sash P.116**
- IOTLAB accessories P.118**
- VAV Easy control P.120**
- Haka control P.121**
- E025 P.122**
- Waste: SCAT P.124**
- Solvent Dispensing P.126**
- Pass boxes / Cable glands P.128**
- Filters P.130**
- Scrubber / Neutraliser P.132**
- Electrical and fluid services P.136**
- Storage under fume cupboards P.138**



Sash Motorisation



Application

The motorised automatic closure system of the fume cupboard's sash is an automatic device that closes the sash after a certain period of time in the absence of a user in the work area. Detection through curtain by infrared beams. It provides detection even when a user remains motionless in front of the sash, unlike other systems on the market.

Burdinola has integrated components (motor, clutch, control and curtain detector) from top manufacturers, developing a control application that allows these elements to work together, in accordance with point 7.3.4 of the EN 14175-2 standard, making up the new sash motorisation. The configuration of the dragging system allows minimum stress on the supporting cable, so as not to reduce its useful life. The version with manual control may include push buttons or a joystick type lever to operate the raising and lowering operation of the front sash. The motorised closure system combined with the VAV flow rate control system can achieve significant energy savings.

Technical characteristics

Control	
Control unit	Based on a logic module with the possibility of controlling analogue and digital variables, either inputs and/or outputs, it makes it possible to control up to 8 functional variables.
Power source	The module is powered at 24 V DC with a current output of 75 W and is protected by fuses.
Digital inputs	The module has 8 digital inputs.
Digital outputs	The module has 4 relay outputs with galvanic isolation and each relay supports a constant current of 10 A and is capable of disconnecting a maximum of 30 A.

BIRBL infrared curtain	
Power supply	24 Vdc.
Beam source	Infrared IR (940 mm).
Number of channels	7,14,21,28 (depending on configuration).
Active height (mm)	240, 480, 720
Spacing of each channel (mm)	28
Power indicator	White LED.
Connection	8 pin IDC flat cable connector
Cable	3M 8-way flat ribbon cable, width 10.16 mm.

Details of the environment	
Immunity to light at 20° incidence (lux)	> 10.000
Operational temperature	-20 to +55°C.
Storage temperature	-40 to +80°C.
Degree of protection of the module	IP 22
Compliance	CE.

Sash motorisation

Detection range	5m.
Parallel beams	16 to 64
Distance between beams	28 or 56mm.
Cable	Flexible..
Connection	From the plug to the controller.
Indicator	Power indicator.
Application	Static and dynamic.

Details / Accessories



Sash motorisation

Accessories. IOTLAB



Characteristics	
<p>ENERGY SAVING</p>	Saving a lot of energy by detecting incorrect forms of use in a laboratory.
<p>AIR MONITORING</p>	Knowledge of unsafe uses of fume cupboards, ventilation and associated equipment in order to take action on them
<p>ALERT USE</p>	Monitor how the equipment works.



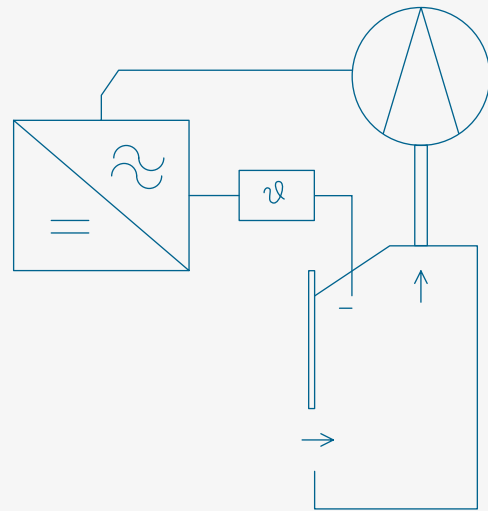
The system has a difference of less than one minute in displaying data, but the system is independent of the building's computer network, allows multi-user access in a decentralised manner and the cost of expanding new equipment is much lower than that of a SCADA.

IOTLAB allows us to know the state of the laboratory in terms of efficiency, safety and operational status anywhere in the world and be able to act on it. It can be viewed from any device (smartphone, tablet, computer, etc.) and is configurable depending on the requirements of each customer.

It is a simple, efficient and safe application, independent of the company's general systems. The standard units in the BECOME range are ready to be connected to the system without the addition of peripherals.

It makes it possible to monitor the operating parameters of the fume cupboard and other ventilated elements, air quality (VOC, CO2), room conditions (P, T^a), the presence of hazardous gases and waste levels, among others.

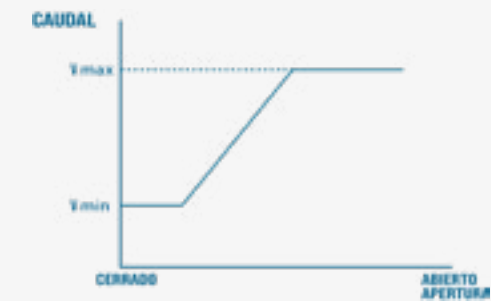
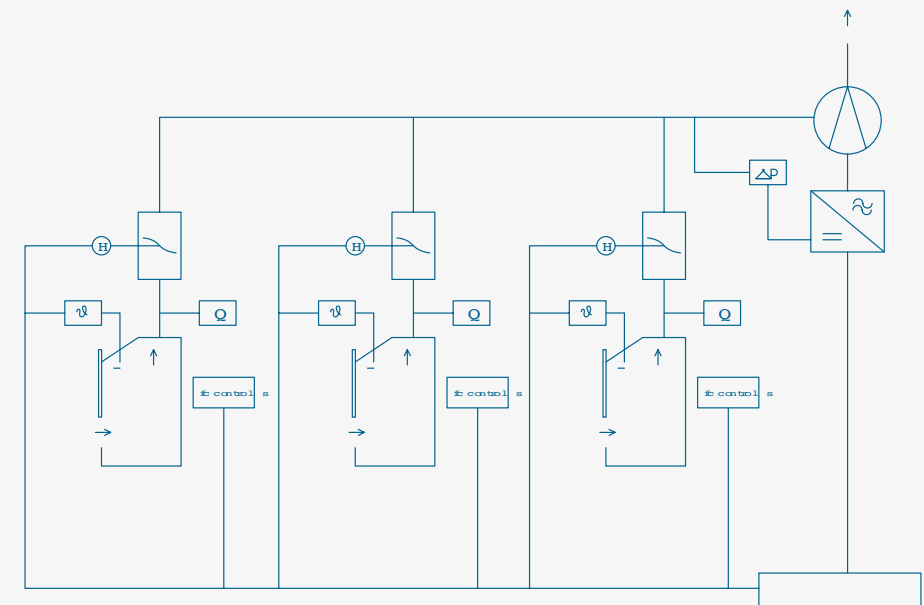
VAV Easy Control



Application

The EASY variable flow control depending on the sash opening is based on a control system by means of a frequency variator, which controls the speed of the motor while keeping the air speed at the front of the work area within the set values. This type of control is applicable to fume cupboards with individual ventilation installations. The application developed by Burdinola makes it possible to control the fan that extracts the air, depending on the measurements made by the BSVa velocity sensor, instantly and precisely adjusting the flow rate that the fume cupboard requires based on the opening of the sash. This system can communicate with room compensation controllers, as it has an analogue output that can give an output signal proportional to the power delivered to the fan. For this technique, the signal from the air velocity sensor is put into an inverter, which has an internal PID controller, so that it increases or decreases the fan speed and, therefore, the flow depending on the set point. The minimum operating flow is set in the inverter itself.

HAKA Control



Application

The flow control systems for associated fume cupboards require a number of successive automatic adjustments. Every fume cupboard must have a control system; at the same time, the set of associated fume cupboards needs a control for the pressure in the common duct; this control can take many forms: In turn, every individual fume cupboard has a proportional valve and a controller. This is the system that we call HAKA. The on-screen speed sensor measures in real time and sends the value to the controller, which will command the valve actuator to open or close based on the reference value. In this way, a constant speed is maintained in the work area, always within maximum and minimum margins.

The VAV system combined with the motorised sash can achieve energy savings of up to 75%.

EO25



EO25 monitor

Fume cupboards are equipped as standard with a monitoring system in accordance with the specifications of EN14175-part 2. The monitor tells the user whether the airflow or speed is adequate and whether there is an alarm. In the event of an alarm, both a visual and an audible indicator will be activated.

Alarms

The monitor is equipped with different alarms that alert the user to different conditions, such as: insufficient flow alarm, insufficient on-screen speed, extraction motor failure, maximum temperature exceeded alarm, etc. The EO-25 electronic system located on the right side of the fume cupboard based on a micro-controller provides a complete, easy, safe tactile control of the electrical services in the fume cupboard, operating at 5V.

Communications

The EO25 has MODBUS-RTU 2-wire digital communication that allows you to create a network of up to 240 devices. Every fume cupboard has 42 accessible registers that make it possible to see the operating parameters. This facilitates communication with BMS and IoT systems.

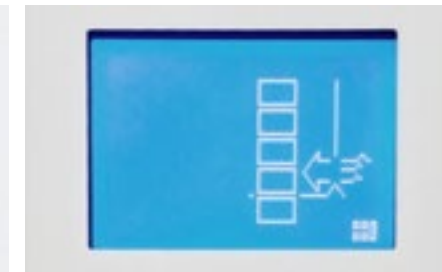
EO25 Control

	Operating correctly, the number of segments lit up in green indicates the suction level. In these conditions the horizontal bar will light up green.
	Insufficient suction velocity. This message should not appear with sash openings lower than the operating height (40 cm), except on power-up. In these conditions the horizontal bar will light up red.
	The temperature sensor has detected a duct temperature of over 70°C. In this case the control will automatically switch off, stopping extraction. In these conditions the horizontal bar will light up red.
	The variator has detected a fault and is locked. Once reset, if it trips again, check the message displayed on the variator. In these conditions the horizontal bar will light up red.
	The sash has been opened above the operating height (50 cm) In these conditions the horizontal bar will light up red.
	The protection system of the auxiliary has tripped. Once reset, if it trips again, check the installation. In these conditions the horizontal bar will light up red.

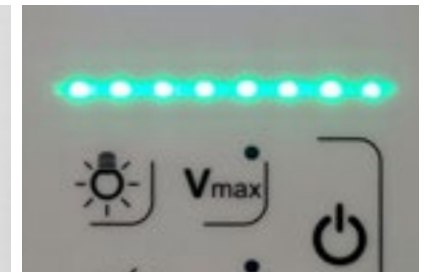
Details



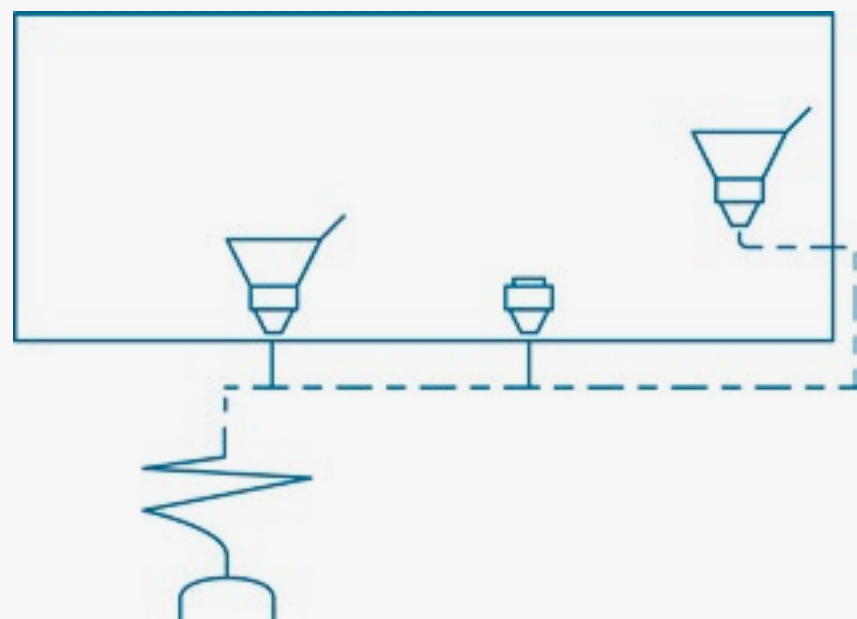
Keyboard



Monitor



Indicator light



Application

All chemical waste produced in the laboratories will either be recovered or disposed of by specialist companies expressly authorized by the competent authority for this activity. Prior to sending the waste, it must be suitably disposed of in containers suitable for hazardous materials. These containers for accumulating and transporting waste must be made of the material and size most appropriate to the characteristics of the waste to be transported. They must have a secure locking system, be easily identifiable from each other and be clearly labelled with the type of substance they contain. Burdinola provides a range of solutions for the collection of liquid waste, incorporating different accessories from manufacturers specialising in this sector to cover all the current needs of a laboratory, including systems for waste collection for capillary HPLCs.

Models



1. SCAT service system model

2. SCAT fume cupboard model

Technical characteristics

Funnel with a lid	For direct mounting on worktop		It is made of electro-conductive PE-HD. This funnel has an earth connector by means of a cable and clamp, a hinged lid to lock the system if not in use and a removable sieve to trap dirt particles or magnetic stirrers that pour through it. There is also the option of replacing it with an HPLC capillary plug.
	For mounting in fume cupboards		It is made of electro-conductive PE-HD. It is mounted onto the vertical part of fume cupboards and panels. This funnel has an earth connector by means of a cable and clamp. A hinged lid locks the system when not in use. It also has a removable sieve to trap dirt particles or magnetic stirrers that may be poured through it. Depending on the application, the funnel can be replaced with an HPLC capillary cap.
Collector cap	For direct mounting on benchtops		This electro-conductive PE-HD pipe has a direct benchtop mounting for HPLC with a Ø 32 mm pipe outlet. It can have a Ø2.3 mm and Ø 3.2 mm capillary connection or a Ø 6.4 - 9 mm adjustable angled connector as accessories.
Filling alarm	Capacitive sensor		For applications where acidic liquid residue is stored, there is a capacitive sensor. The sensitivity of the disc sensor can be adjusted for different wall thicknesses. The signal box issues a warning when the fill level is reached, both visually and acoustically. The warning dial can be put either on a turret, conduit, service panel or the front of a fume cupboard. It is fixed by means of a strap adjustable to the drum. Suitable for all types of commercial non-conductive glass or plastic containers. Not suitable for electro-conductive stainless steel or plastic containers.
	Electro-conductive		The SafetyWasteCap with an ATEX-compatible electronic level control for operation in explosive areas is made of PEHC- ec. The drum has an S60/61 screw thread. Recommended for applications requiring drums made of an electro-conductive material.
	Warning dial		The filling warning dial can be integrated into furniture and it can be put on the front of the module, on the service panel, conduit or turret. It has a warning light and acoustic alarm when the drum reaches the critical fill level.
Containers	Electro-conductive		Electro-conductive drums have an earth connection that ensures that they operate properly and prevents possible sparking. It is also made of electro-conductive PE-HD. In order to avoid the accumulation of hazardous waste in the laboratory itself, using drums with a maximum capacity of 10 L, 185 x 265 x 290 mm (width x height x depth) and an S60-61 thread is recommended. They use the UN universal system for classifying, packaging, marking and labelling hazardous goods for safe transportation.
	Non-conductive		Drums are made of non-conductive PE-HD. The general dimensions of these drums are 260 x 390 x 289 mm (width x height x depth) which means they have a capacity of up to 20 litres. They have an S60-61 screw thread. They use the UN universal system for classification, packaging, marking and labelling of hazardous goods, thus making their transportation safe.
Accessories	HPLC capillaries		There are an infinite number of combinations for this type of plug depending on the number and diameter of the capillaries required. The choice of capillary plug will be made depending on the specific need of each application.
	Filter for evacuated air		The SafetyWasteCap filter for evacuated air has splash protection, a capacity of more than 20 litres and a service life of approximately 6 months. Together with the filter, the use of a 90° adapter made of PP material is compulsory for angular connection.
Connection	Discharge point installations		The systems have a 19.8 mm OD, PTFE-ec flexible pipe that connects the funnel to the waste container located under the bench or fume cupboard.
	Installations for centralising discharge points		In cases where there are multiple discharge points on the same bench, installing a system made of the material appropriate to the intended discharge is recommended so that the waste generated converges in a single storage drum. This minimises the

Waste will be managed in accordance with the following regulations.

- All hazardous waste shall have a place for temporary storage, which shall not exceed the provisions of the legislation in force.
- A log of these will be kept up to date.
- All hazardous waste shall be stored under satisfactory conditions and in a segregated manner, so that they do not come into contact with each other, applying the specifications laid out in the legislation in force.
- Containers shall be solid and safe in order to prevent loss and leaks.
- Transportation to the temporary storage area will be carried out in a safe manner, avoiding spillages.

Solvent dispensing



Application

Decentralised solution for dispensing solvents. Dispensing must always be carried out in a wellventilated environment, which ensures the containment of the pollutant generated and protects the user and which includes adequate safety measures in the event of incidents or spillages. It is recommended to put the dispensers in a fume cupboard for solvents, suitable for the intended use. The system consists of the following elements: ventilated safety cabinet for storing drums. System for pressurising drums using N₂. Drum emptying alarm system. System for two drums under fume cupboard (1+1).

The system is based on an automatic pressurised dispenser with a nitrogen line and on the supply of solvent from a central point (1+1) that switches between supply drums when they run out.

Solvent dispensing operation

Installation: the system will consist of 3 stainless steel tubes, two of which are for dispensing from each of the solvent drums to the dispensing guns located inside the fume cupboard, and the third to the inert gas pressurisation line.

Dispensing gun: the solvent dispensing gun is based on a valve that only opens when pressure is applied and the trigger of which is locked by an additional safety system that prevents it from accidentally opening.

The gun is made of stainless steel and the shut-off valve incorporates Kalrez elements to ensure optimum chemical compatibility with the most

common chemicals in the laboratory.

The flexible steel metal hose with a PTFE interior attached to the gun is 1.5 - 2 metres long (by default).

Flexible hoses with different lengths can be supplied upon request.

Stoppers for solvent barrels: Stoppers for solvent barrels are attached to the barrel by means of a 2" thread and include quick connect couplings for connecting the pressurisation line and for the solvent outlet.

These quick connect couplings incorporate self-

closing valves (in case of disconnection) made of KALREZ that prevent the depressurisation of the drum or the fume outlet when disconnected.

A manually operated valve is also included to depressurise the drum if necessary.

In addition, the hoses used for the connection between the stopper and the pipe system are made of flexible stainless steel mesh on the outside and PTFE inside.

Technical characteristics

	Description
Ventilated safety cabinet External measurements: 1102 x 574 x 600 mm	90-minute type in accordance with UNE EN 14 470-1
Pipeline	Made of stainless steel (AISI 316). The connection to the solvent drums is carried out using Swagelok connections.
It includes a proportional release valve to avoid overpressure accidents.	
Dispensing gun	Made of AISI 316 stainless steel and equipped with a safety valve that will only remain open while pressure is being exerted. It has an additional safety system that prevents it from opening accidentally.
Stopper for solvent drum	Attaches to the drum with a 2" thread. Includes quick connect couplings to connect the pressurisation line and for the solvent outlet. Also includes a manually operated valve to depressurise the drum if necessary.

Please ask for information about centralised solvent dispensing installations.

Details / Accessories



Drum + stopper



Dispensing gun



Guns + Support

Pass Box



Application

The fume cupboard can be fitted with an SAS (safety access system) on the side for exchanging materials with the outside. The SAS is made of PMMA (transparent methacrylate), which allows total visibility from outside and inside the fume cupboard. Exterior dimensions of 360 x 340 x 500 mm.

For side-mounting on fume cupboards with a 90° opening by means of two watertight hatches with safety seals. It is also possible to pass materials from one fume cupboard to another through a communication window located on its side.

It allows materials to be passed through from one work area to another without coming into contact with the general environment of the laboratory. Made of high-pressure laminate with resistance to chemical attack, and polyethylene guides.

Models

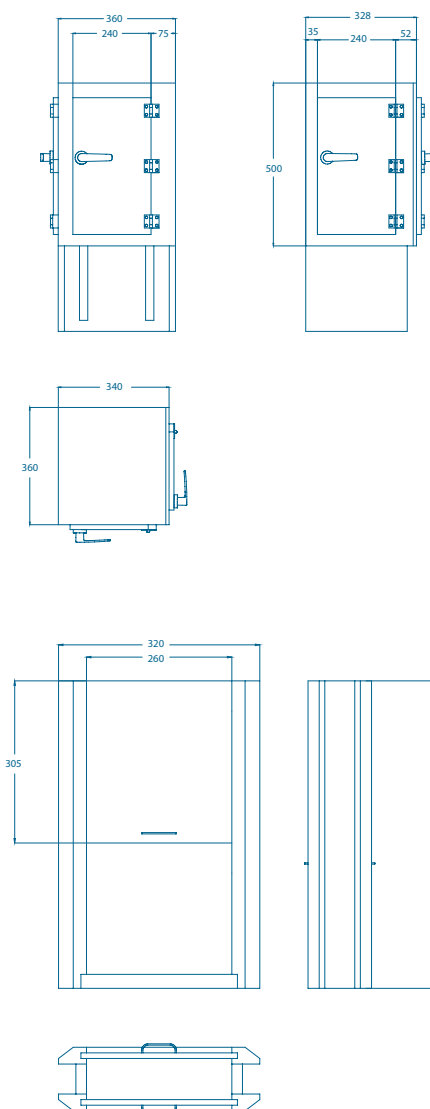


1. SAS pass box



2. Communication window

Drawings



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
AVG-SAS	SAS pass box	360	340	500
AVG-VC	Communication window	320	-	585

Filters



Application

Filtration unit to be incorporated in fume cupboards with external extraction. The filter may be located directly at the top of the fume cupboard or upstream before the fan. The filter should preferably be located in a place which allows it to capture the contaminant as close as possible to the point of emission. Recommended for applications where air purification is required prior to release into the atmosphere. The filter will be defined depending on the application to be carried out. Polypropylene housing with access from the front.

Not recommended for use in fume cupboards working with high concentrations, large quantities or high thermal loads. In the case of compounds emitting ionizing radiation, see the chapter on RB and RG model fume cupboards.

Models



1. Housing



2. ST with Housing

Materials

- Filters for particulates.
- Filters for gas/vapour molecules.
- Pre-filter.

Optional accessories

- Alarm for particulate filter.
- Hour meter.

Technical data

Applicable to general purpose fume cupboards provided there are no large amounts of contaminant, high concentrations or high thermal loads.

The appropriate filter for every application will be selected depending on the products to be handled:

- Particulate filters.
- Filters for organic solvents.
- Filters for acids.

In the case of molecular filters, the contaminant will be retained by an absorption mechanism with active carbon. Every application will have a specific active carbon depending on the products handled.

The saturation of the particle filters will be carried out by measuring the differential pressure increase. In the case of active carbon filters, methods will be applied periodically to evaluate filter efficiency.

Gas scrubber



Application

Decentralised solution for eliminating acid and base residues from emissions into the atmosphere from fume cupboards. Its compact design allows the scrubber to be incorporated into the top part of the fume cupboard, cleaning the effluent at the point of emission. Gases pass through the suction nozzles, to the absorption chamber where the diffuser pump is located, which draws wash water from the bottom of the integrated tank and through injectors, causing a dense fog in the absorption chamber. In this way, an optimum mixture of harmful gases with wash water is obtained and, as a consequence, very efficient absorption. The wash water level is regulated by means of floats. The wash water is replaced automatically by the equipment itself.

Models



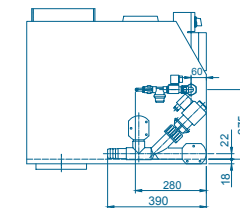
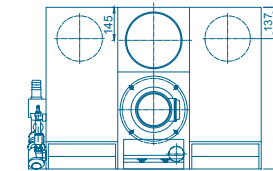
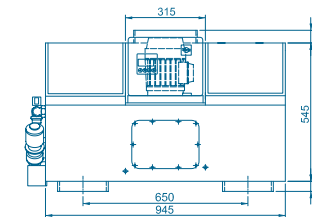
1. C54 and C90



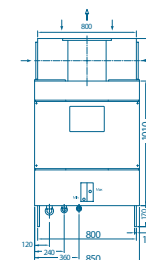
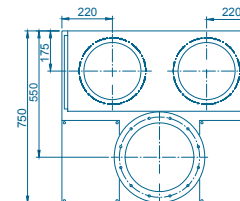
2. C180

Drawings

C54 and C90



C180



Technical characteristics

	C54 gas scrubber	C90 gas scrubber	C180 gas scrubber
Layout	Installation in the top part of the fume cupboard.		Beside the fume cupboard or
Materials used (parts in contact with effluent)	Housing and spray wheel: Polypropylene; Accessories: PVC-U; Joints: EPDM / PTFE.		
Ventilation			
Flow rate (m ³ /h)	480-900	600-1.400	600-1.800
Pressure loss (Pa)	200-530	260-1.140	160-1.020
Air intake	2 DN 200 tubes (lower part)	2 DN 200 tubes (lower part)	DN 250 flange
Air outlet	1 DN 250 tube	1 DN 250 tube	1 DN 315 flange
Dimensions and weights			
Width (mm)	950	1220	850
Depth (mm)	710	710	750
Height (mm)	550	550	1535
Volume of water (l)	45	60	70
Weight (empty)	90	110	120
Total weight (kg)	135	170	190
Water connections			
Power supply	DN 10	DN 10	DN 10
Outlet	DN 32	DN 32	DN 20
Overflow	DN32	DN 32	DN 32
Inspection			
Inspection cover	2	2	2
Front inspection window	Yes	Yes	No
Electrical control			
Control unit	Plastic housing with programmable logic controller (PLC), switching unit for the spray wheel motor, operating mode selector switch, repair switch, plug-in connector for accessory operating module with membrane keypad.		
Power supply	Three-phase 400/230 Volt, 50 Hz, 3L/NE/PE, 0.55 kW. Connection by means of quick connect couplings.		
Level control	2 level switches for minimum and maximum fill level.		
Sanitary equipment	1 solenoid valve with dirt collector and manual ball valve, 1 outlet solenoid valve.		
Change of flushing fluid	Time-dependent control, times can be set within a wide range, optionally by means of a conductivity measurement.		
Optional accessories	Probe with integrated measuring amplifier for measuring electrical conductivity, preheating unit for flushing liquids. Additional accessories in the corresponding chapter.		
Protection type	IP 54 motor, IP40 back rear control unit, IP54 front with closed hood.		

Neutraliser



Application

Neutraliser specially designed for incorporation under a fume cupboard. It can also be used as a stand-alone unit for automatically neutralising acid and alkaline wastewater. Complies with current European regulations. Acid or alkaline discharges are collected in the mixing chamber of the neutralising equipment. When the maximum level is reached, the neutralisation process begins:

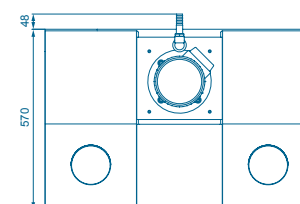
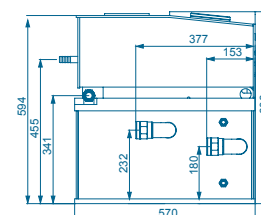
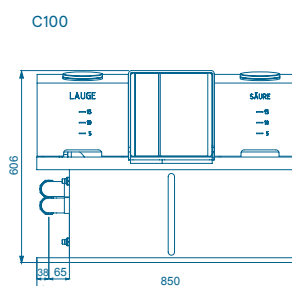
- Waste water is mixed intensely.
- The pH value is measured.
- Alkaline or acid solution is injected from integrated tanks until a neutral pH value is reached.
- Neutralised discharges are pumped outside. Complies with the most current European standards in force with an electronic control system.
- The equipment is compact, easy to maintain and extremely robust.

Models



1. C100

Drawings



Technical characteristics

	C100 neutralisation unit
Layout	For installation in fume cupboards, in the lower part of the cupboard or standalone.
Materials used (parts in contact with effluent)	Polypropylene, Polyvinyl Chloride (PVC) Polytetrafluoroethylene (PTFE) and ethylene polypropylene rubber (EPDM).
Neutralisation performance	Maximum 200 l/h (depending on the level of contamination of the wastewater).
Capacity	
Mixing tank (l)	Approx. 90
Acid tank (l)	Approx. 25
Alkali tank (l)	Approx. 25
Dimensions and weights	
Width (mm)	850
Depth (mm)	570
Height (mm)	620/ 640
Empty weight (kg)	55
Connections	
Intake (")	G 1 1/2
Outlet	DN 15
Overflow (")	G1 1/2
Control	
Electrical connection	Three-phase 400/230 Volt, 50 Hz, 3L/NE/PE, 0.55 kW. Connection using quick connect coupling.
pH measurement	High resistance voltage measurement, pH measuring range 0-14, floating. 0.1 pH resolution.
Alarm	Voltage free contact, max. 250 V AC. 2 A max. 50 V DC 2 A.
Operational Unit	Keyboard with 128 x 64 pixels backlit graphic screen and 43 operation keys.
Interface	Optional: analogue interface 0-20 mA, RS-232.
Temperature range	Ambient/average temperature: +5- +35°C.

Electrical and fluid services



Application

BECOME fume cupboards offer great capacity and flexibility for the provision of electrical and fluid services. This makes it possible to locate services on the sides or the front under the worktop indistinctly. The image shows a BECOME 1800 fume cupboard with a total of 22 service connections

- 12 electrical sockets and 10 fluid connections. General use fume cupboards also allow the installation of IP55 electrical sockets inside with an external switch. This configuration will not be possible for fume cupboards with specific uses, given the risk associated with these by high temperatures and the presence of solvents or concentrated acids.

Models



1. BECOME Elite, BECOME Elite Low, BECOME ST, BECOME ST Low

Electricity

Electric sockets

Socket voltage, BUR	Socket voltage 230 V - 16 A.
	Socket voltage 230 V - 13 A.
	Computer socket.
	Telephone socket.
MK socket	Voice and data socket.
	13 A MK socket with switch
Magneto	16 A single-phase thermal magnetic circuit breaker.
	16 A three-phase thermal magnetic circuit breaker.
	20 A single-phase thermal magnetic circuit breaker.
	20 A three-phase thermal magnetic circuit breaker.
Socket power	Single-phase power socket (3 poles) 230 V - 16 A.
	Single-phase power socket (3 poles) 230 V - 32 A.
	Three-phase power socket (5 poles) 400 V - 16 A.
	Three-phase power socket (5 poles) 400 V - 32 A.
Start/stop	Start / stop switch.
Berker	16 A, 250 V Berker socket
Displays and control	Fluid control sensor.
	Emergency stop button.

Taps



Storage under fume cupboards



Application

The range of BECOME modules is designed, manufactured and certified in accordance with EN 14727, UNE-EN 16121 and UNE-EN 16122. It meets all their requirements, making it an ergonomic, safe product. Socket made of moisture-resistant material. It has a height-levelling system.

Models



1. VG54/60 (PI, PD)



2. VG84 (P)

Finishes

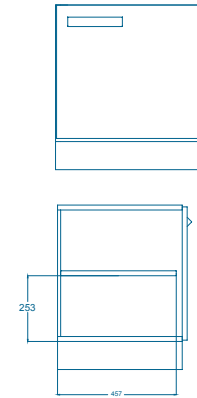
- Melamine.
- Fire resistant melamine.
- Water resistant melamine.
- Compact fronts.

Colours

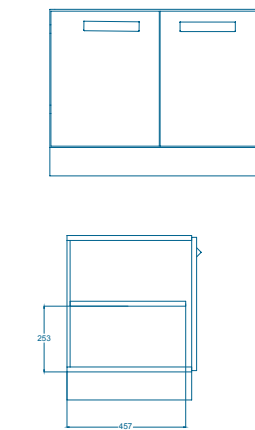
- White.
- Grey.

Drawings

VG54/60



VG84



Technical Characteristics

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
VG54-PI	Left door	540	500	635
VG54-PD	Right door			
VG60-PI	Left door	600		
VG60-PD	Right door			
VG60-C3A	3 drawers			
VG84-P	Doors	840		

Storage for acids under fume cupboards



Application

The range of BECOME modules is designed, manufactured and certified in accordance with EN-14727, UNE-EN 16121 and UNE-EN 16122. It meets all their requirements, making it an ergonomic, safe product. Cabinets for acid under fume cupboards have a removable shelf with polypropylene trays for a maximum load of 15 kg. The installation of a forced ventilation system by means of a polypropylene anti-corrosive extraction system is recommended.

Modelos



1. A27 VG54/60 (PI, PD)



2. A26 VG84 (P)

Finishes

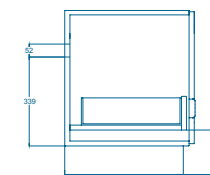
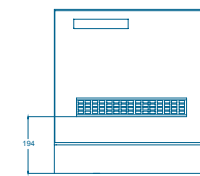
- Melamine.
- Fire resistant melamine.
- Water resistant melamine.
- Compact fronts.

Colours

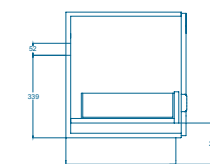
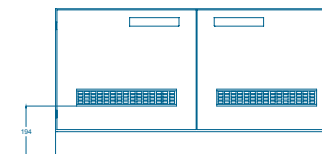
- White.
- Grey.

Drawings

A27 VG



A26 VG



Technical characteristics

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
A27 VG54-PI	Left door	540	500	635
A27 VG54-PD	Right door			
A27 VG60-PI	Left door	600		
A27 VG60-PD	Right door			
A26 VG84-P	Doors	840		

Extraction diameter of 50 mm.

Storage for acids in PP under fume cupboards



The range of BECOME modules is designed, manufactured and certified in accordance with EN 14727 standard. It meets all their requirements, making it an ergonomic, safe product. Made of solid panels and polypropylene components.. Removable storage shelf with polypropylene trays with a maximum load of 30 kg. Capacity to retain fluids in the event of spillages. 5 litres. The installation of a forced ventilation system by means of a polypropylene anti-corrosive extraction system is recommended.

Models



1. A27 PP VG54/60 (PI, PD)



2. A27 PP VG84 (P)

Finishes

- Polypropylene.

Colours

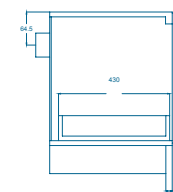
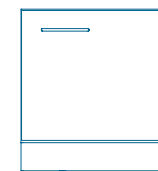
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Accessories

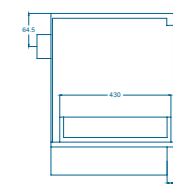
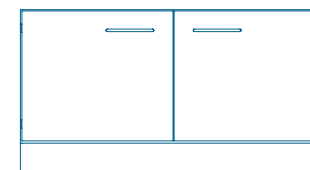
- Extraction equipment.
- Filtration - ventilation box.

Drawings

A27 VG PP



A26 VG PP



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
PP A27 VG54-PI	Left door	540	500	635
PP A27 VG54-PD	Right door			
PP A27 VG60-PI	Left door	600		
PP A27 VG60-PD	Right door			
PP A26 VG84-P	Doors	840		

Extraction diameter of 75 mm.

Storage for solvents under fume cupboards



Application

The range of safety cabinets is designed, manufactured and certified in accordance with EN-14727.

It meets all their requirements, making it an ergonomic, safe product. Type 90 classification in accordance with EN 14470- 1. Metal body made of steel plate with a plastic paint powder coating. Insulating filler composed of several layers of mineral materials Intumescent gaskets for sealing all of the gaps and spaces between the door and the body, which expand in the event of fire and prevent the entry of heat into the cabinet. Series earth connection on the rear wall of the cabinet.

Models



1. S 30A pull-out drawer



2. S 31/33A with two



3. S 32A with three

Finishes

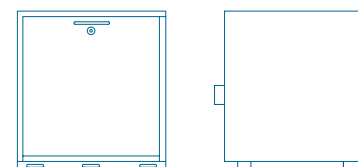
– Metal.

Colours

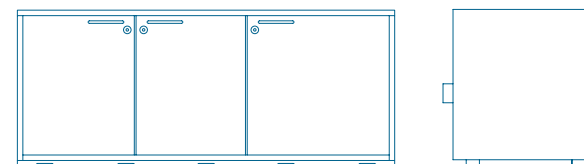
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Drawings

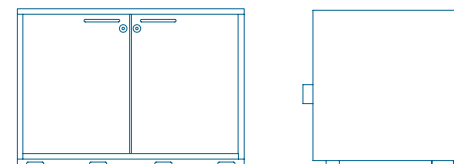
S 30



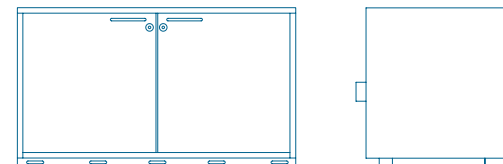
S 32



S 33



S-31



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
S 30	Pull-out drawer	600	595	635
S 31	2 doors	1.100		
S 32	3 doors	1.400		
S 33	2 doors	888		

Storage for waste under fume cupboards



Application

Storage module designed and certified in accordance with EN-14727, UNE-EN 16121 and UNE-EN 16122, for safe, ergonomic storage of waste. This model has a hinged door to access the waste container inside. It is recommended to incorporate a filling warning control system.

Models



1. MRA 60VG with a hinged door (PI, PD)

Finishes

- Melamine.
- Fire resistant melamine
- Water resistant melamine.
- Metal.
- Compact fronts.

Colours

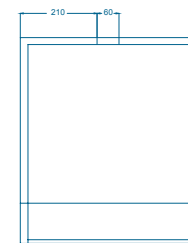
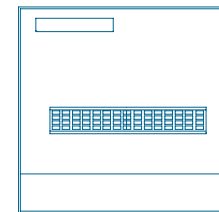
- White.
- Grey.

Access-

- 10 l / 25 l container.
- Funnel for 10 l PP 4505 container
- Electronic filling control.

Drawings

HRE 60BV with a hinged door



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
MRA VG54-PI	Left door	535	500	635
MRA VG54-PD	Right door			
MRA VG60-PI	Left door	600	500	635
MRA VG60-PD	Right door			

Waste collection system

Waste module	Bottom module adapted for the safe, ergonomic storage of waste. It has a polypropylene (PP) tray, with a rim to contain liquids with dimensions of 445 x 345 x 90 mm.
Drum/container	10 l drum/container made of electro-conductive / non-electro-conductive PE-HD. With UN-Y approval for the transportation of hazardous goods.
Capillary collector cap	Safety cap for waste. To connect capillaries, air filter and indicator level. There are several models depending on needs.
Filter	Air evacuation filter, recommended in the event that the module is not ventilated.
Filling Alarm	Filling alarm control with dial located on the front of the module. Light and acoustic warning.
Connection	Flexible pipes, couplings and shut-off valves made of conductive material (PE-EL) or PTFE.

Storage under fume cupboards for vacuum pump



Application

The range of BECOME modules is designed, manufactured and certified in accordance with EN-14727, UNEEN 16121 and UNE-EN 16122. It meets all their requirements, making it an ergonomic, safe product. Interior lined with polyurethane ether acoustic insulation foam. This foam panel is 50 mm thick, which allows an average sound absorption coefficient of 65%. It has a thermostat which, when the temperature reaches 35 °C inside the module, activates the fan to avoid overheating. It has ventilation grilles in the doors to encourage good air circulation.

Models



1. MBV VG54/60 (PI, PD)

2. MBV VG84 (P)

Finishes

- Melamine.
- Fire resistant melamine.
- Water resistant melamine.
- Metal.
- Compact fronts.

Colours

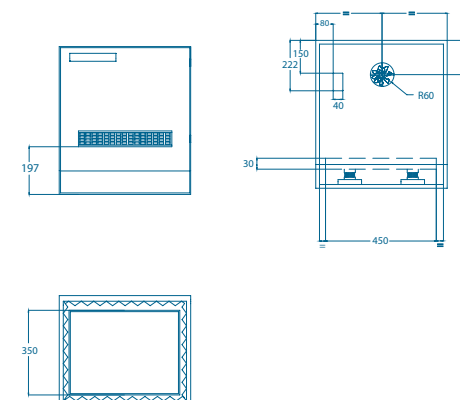
- White.
- Grey.

Accessories

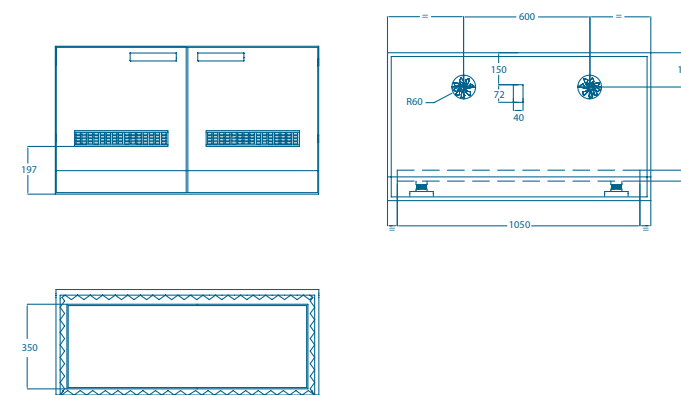
- Interior tray made of PP with metal spring insulators suitable for isolating all types of dynamic equipment from 2 to 25 kg.

Drawings

MBV VG54/60



MBVVG 84



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
MBV VG54-PI	Left door	540	500	635
MBV VG54-PD	Right door			
MBV VG60-PI	Left door	600	500	635
MBV VG60-PD	Right door			
MBV VG84-P	Doors	835		

Other extraction elements

Enclosures P.152

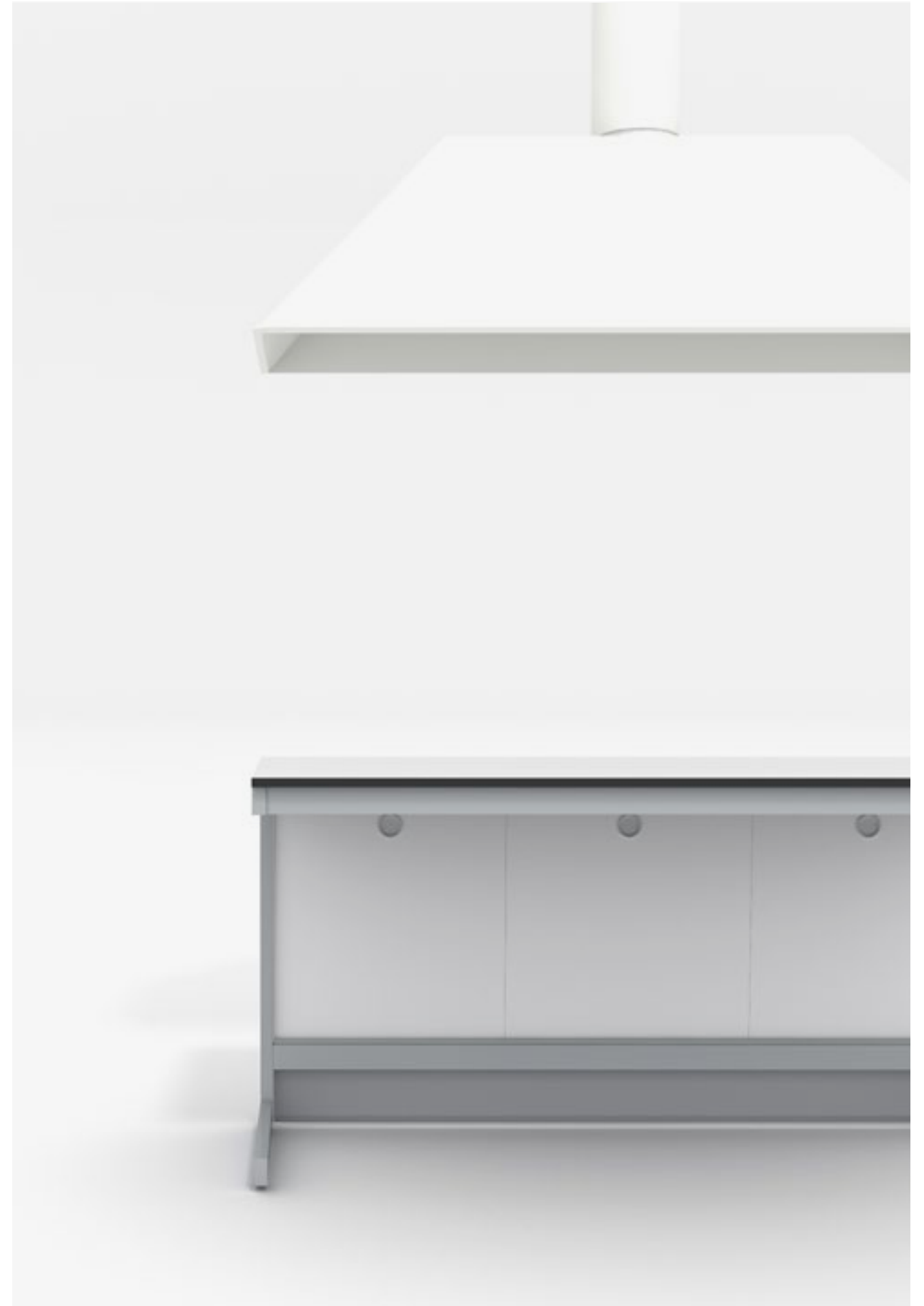
Hoods P.156

Articulated arms P.160

Laminar flow cabinets P.162

Biological safety cabinets P.164

Fans P.166



Enclosure



Application

They apply for the same uses as fume hoods, additionally providing a physical barrier for noise reduction. They make it possible to confine extensive work areas, avoiding cross-contamination between different analytical techniques. Recommended for evacuating non-toxic fumes and heat from the work area to avoid dispersion to the laboratory atmosphere. Not recommended for use with toxic compounds emitting ionising radiation, concentrated acids with a high thermal load or pathogens.

Safe Product

It is presented in standard modulations of 900-1500 mm, with three configuration options: Sash, hinged or sliding. It incorporates lighting and a start-stop control on the side. From an energy consumption point of view, we recommend the VAV version, which is available in variable flow and constant flow versions.

Models



1. E. Hinged



2. E. Sash



3. E. Sliding

Materials

- Made of 40 x 40 mm anodised aluminium structural profiles, panelled with bi-laminate glass and a high pressure laminated roof resistant to chemical agents.

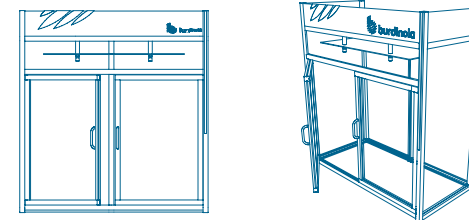
Optional accessories

- VAV easy control for individual installations.
- VAV control with a valve for groups of fume cupboards.
- Ceiling finish.
- Cable glands.
- Storage under benches.

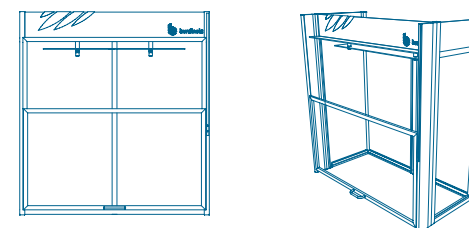
**For more details, see the chapter on "Accessories for fume cupboards".*

Drawings

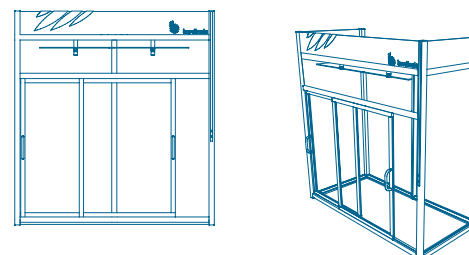
E. Hinged



E. Sash



E. Sliding



Technical data

External dimensions	
Width (mm)	900 1.200 1.500 1.800 (*)
Depth (mm)	740 890
Height (mm)	1.600
Interior height (mm)	1.390
Open measurements	
Hinged doors	900 1.200 1.500 1.800
Offset sash window	800 750
Sliding windows	1.050

All dimensional data Tolerance: +/- 5 mm.

()Hinged enclosure not available for 1800 mm modules.*

Details / Accessories



Image of finish to ceiling



Imagen of cowling on bench with underbench storage

Technical Characteristics

Models	C 900	C 1200	C 1500	C 1800
Frame	Frames made of 40 x 40 mm aluminium sections. It does not have a lower frame - this will correspond to the support bench.			
Interior of the cabinet	3 + 3 mm laminated glass for the sides. Rear and ceiling made of high pressure laminate (HPL).			
Hinged / sliding doors	Sash made of 3+3 mm bi-laminar safety glass.			
Sash Door	2 doors made of 2 + 2 mm bi-laminate safety glass.			
No. of sashes	1			
Services				
Lighting	20 W IP 65 LED			
Start / Stop	Capacitive actuation to start extraction.			
Optional services	Ceiling finish.			

Technical Installations

Models	C 900	C 1200	C 1500	C 1800
Height of the extraction outlet from the ground (mm) Considering enclosure on a bench 900 mm high	2.350			
Diameter of the extraction outlet (mm) (*)	1 x Ø250	1 x Ø250	1 x Ø250	1 x Ø250
Control	ECC01			
Recommended flow rate (**)	Minimum of 150 renovations/hour.			
Maximum pressure in the duct	600Pa.			
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a enclosure or group of enclosures.			

(*) The diameters of the outlet may vary depending on the installation.

(**) The flow rate data provided refers to the manufacturer's recommendation, based on experience in the use of this type of ventilated element. This data should not be used for HVAC design calculations without having previously made a calculation adjusted to the user's specific usage procedure.



Ventilated hood



Application

Recommended for capturing fumes and gases from hot oil or water baths, heating plates, muffles, stoves and chromatography, as well as any application that generates heat or non-toxic vapour. Not recommended for use with toxic compounds emitting ionising radiation, concentrated acids with a high thermal load or pathogens.
Wall- or ceiling-mounted.

Safe product

It comes in standard modules of 900-1500 mm, with two choices of material made of PP or stainless steel: Optionally they can be equipped with a side enclosure to optimise air consumption.

Models



1. Trapezoidal Hood



2. Hood with deflector

Materials

- PP Hood: Made of 10 mm thick PP, with top outlet into a PP pipe.
- Stainless Steel Hood: Made of 1 mm thick AISI 304 stainless steel.

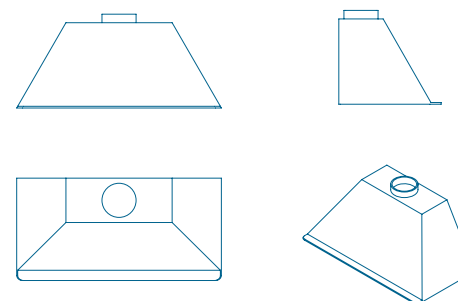
Optional accessories

- Side enclosure.

*For more details, see the chapter on "Accessories for fume cupboards".

Drawings

Trapezoidal hood



Technical data

External dimensions

Width (mm)	900 1.200 1.500
Depth (mm)	600
Height (mm)	350

All dimensional data Tol: +/- 5mm

Technical characteristics

Models	900	1200	1500
Material	PP Hood: Made of 10 mm thick PP, with top outlet into a PP pipe. Stainless Steel Hood: Made of 1 mm thick AISI 304 stainless steel.		
Services	Start / Stop: Capacitive actuation to start extraction.		
Optional services	Sides: Made of laminated glass with aluminium frames.		

Instalaciones Técnicas

Models	900	1200	1500
Diameter of the extraction outlet (mm) (*)	1 x Ø160	1 x Ø200	1 x Ø250
Recommended flow rate	The flow rate will be calculated according to the configuration and position of the hood.		
Maximum pressure in the duct	600Pa.		
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a hood or group of hoods.		

(*) The diameters of the outlet may vary depending on the installation.

Atomic absorption hood



Application

Specially designed to extract combustion fumes and flame vapours. Can also be used in graphite furnaces for atomic absorption instruments to prevent them from spreading to the general laboratory environment.

Designed for wall/ceiling installation. It consists of:

- A collection hood. It is the part of the system through which pollutants are captured.
- Telescopic duct that makes it possible to adjust the intake height so that the air velocity can be adjusted according to the requirements of the equipment.

Safe product

All of the components that could be in contact with the flames are made of AISI 304 stainless steel.

Models

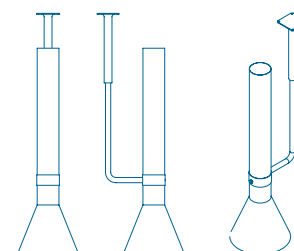


1. Ceiling-mounted atomic absorption hood

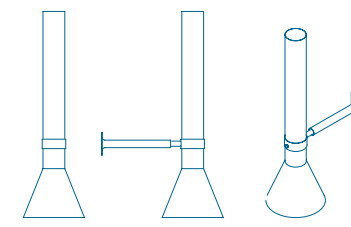


2. Wall-mounted atomic absorption hood

Drawings



Ceiling-mounted atomic absorption hood



Wall-mounted atomic absorption hood

Materials

- Made of 1 mm thick AISI 304 stainless steel.

Technical data

Dimensions	
Diameter of hood opening	350
Length of duct	350- 750
Diameter of the extraction outlet (mm) (*)	1 x Ø125
Recommended flow rate	400- 500m ³ /h
Maximum pressure in the duct	600Pa.
Electricity	The installation of shielded hoses and super-immunised protection is recommended for the feed to a hood or group of hoods.

(*) The diameters of the outlet may vary depending on the installation
All dimensional data Tol: +/- 5mm.

Technical characteristics

Material	Made of 1 mm thick AISI 304 stainless steel.
Services	
Start / Stop	To be integrated into a service system, turret or conduit.

Articulated arms



Aplicación

The installation of individual suction systems allows localised collection from the emitting source and prevents the dispersion of polluted air into the work area. There is a wide range of traps for the suction arm which makes it possible to choose a suitable model for every workplace and pollutant.

Producto Seguro

The suction arms are held in the position in which they are placed by an internal compensation system. The longest models are fitted with external gas dampers. This construction makes the arm very comfortable to operate and very easy to place on the contaminating source during the work process. SYSTEM 100 is suitable for a suction air flow between 140 and 400 m³/h. It covers a wide range of possibilities up to 2,630 mm. 75 mm SYSTEM is suitable for a suction air flow between 80 and 180 m³/h. The scope of the standard SYSTEM 75 range arms covers a wide range of possibilities up to 1,990 mm.

Models



1. Ceiling-mounted arm /



2. Bench-mounted arm.

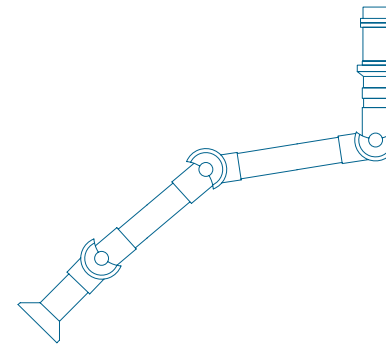
Materials

- Arm made of aluminium or PP: The hoods are made of transparent PETG and anodised aluminium or have an epoxy finish.

Optional accessories

- Trap in configurations according to needs.
- Arm made of conductive PP (on request).

Drawings



Technical data

Configuration	Ø75mm SYSTEM		Ø100mm SYSTEM	
	Extension mm	Max. air volume m ³ /h	Extension mm	Max. air volume m ³ /h
Wall-mounted. 3 connectors	550	180	650	400
	950		900	
	1.000		1.050	
	1.050		1.400	
	1.400		1.800	
Ceiling-mounted. 3 connectors	900	180	900	400
	1.000		1.050	
	1.050		1.400	
	1.400		1.800	
			2.500	

Accessories

Components	Material or colour	Ø75mm system	Ø100mm system
	Anodised aluminium	L 250mm	No
	Red	L 250mm	No
	White	L 250mm	No
	Red	Yes	No
	White	Yes	Yes
	ESD/Ex	No	Yes
	Red PC	L 420mm x B 320mm	No
	White PC	L 420mm x B 320mm	No
	Red PP	L 420mm x B 320mm	No
	White PP	L 420mm x B 320mm	No
	Red	Yes	No
	White	Yes	No
	Red PC	Yes	No
	White PC	Yes	No
	Red PP	Yes	No
	White PP	Yes	No
	Red PC	No	Yes
	White PC	No	Yes
	Aluminium	No	Yes
	Aluminium EEx	No	Yes

Laminar flow cabinets



Models



1. Horizontal Laminar Flow Cabinet



2. Vertical Laminar Flow Cabinet

Materials

- External body made of laminated steel, lacquered and oven dried.
- Work area in polished AISI-304 stainless steel. Removable side made of tempered glass resistant to U.V. rays.

Optional accessories

- Support bench.
- Taps (gas, vacuum, O₂, N₂, etc.)
- Fluidotherapy bar with (4 or 6) hooks.

Measurements

Models	CFLV 900	CFLV 1200	CFLV 1500	CFLV 1800
Exterior dimensions (with no support bench) (mm)	1.048x798x1.220	1.353x798x1.220	1.658x798x1.220	1.963x798x1.220
Interior dimensions (mm)	925x693x615	1.230x693x615	1.535x693x615	1.840x693x615

Models	CFLH 900	CFLH 1200	CFLH 1500	CFLH 1800
Exterior dimensions (with no support bench) (mm)	944x872x1.212	1.249x872x1.212	1.554x872x1.212	1.859x872x1.212
Interior dimensions (mm)	925x598x780	1.230x598x780	1.535x598x780	1.840x598x780

Application

Horizontal Laminar Flow systems provide a sterile, particle-free work space that is provided by its continuous sweeping of the area with a unidirectional airflow. These cabinets are especially designed for handling samples in hospital clinics, pharmacies, IVF, food control, in vitro culture in horticulture, electronics, optics, plastic, etc. The Aeolus range has been designed and manufactured to provide a working area in accordance with ISO 14644-1 (Class 5) GMP Annex 1 (Grade A). There is a wide range of accessories and options to adapt this cabinet to all applications.

Sterile Vertical Laminar Flow cabinets are particularly suitable for handling non-pathogenic biological samples, cell and tissue cultures, microbiological controls, preparation of pharmaceutical products, etc. and also for use in the areas of electronics and optics. The vertical laminar flow system allows working in conditions of sterility with an absence of particles by means of the principle of continuous sweeping, providing total protection for the product and basic protection for the operator.

Biosafety cabinets



Application

The biosafety cabinet is designed to work with level 1, 2 and 3 pathogens, providing protection to the product, the operator and the environment. These cabinets are independently tested and certified by TÜV Nord to ensure they comply with the EN 12469 standard for Class II biosafety cabinets. It meets the main requirements of NSF 49/ANSI 49 (Class II A2), JIS K3800, SFDA YY-0569 y AS2252.

- Front inclined 10° to improve the work position.
- Sealing gasket for the front glass.
- Sliding and tilting front glass driven by external pneumatic pistons that facilitate interior maintenance and cleaning and allow the insertion of bulky elements and accessories into the chamber.
- Microprocessor control with self-compensation for filter clogging.
- Control panel with international colour coding indicating the status of the cabinet.
- Main screen providing the laminar flow rate and status of filter clogging.
- Ecomode function.
- Timer and time programmer for U.V. and fans.

Models



1. Biosafety Cabinet

Materials

- 304L stainless steel chamber with rounded corners and tempered glass sides.
- Laminated, anti-reflective front glass with U.V. protection, with no visual obstructions on the lower edge.

Optional accessories

- Additional electrical connections.
- Gas and vacuum connections.
- U.V. germicide kit.
- VHP decontamination kit.
- Double HEPA filter (in accordance with BS 5726).

Measurements

Models	BIO II A 3	BIO II A 4	BIO II A 6
Exterior dimensions (with no support bench) (mm)	1.049x759x1.260	1.354x759x1.260	1.964x759x1.260
Interior dimensions (mm)	954x605x587	1.259x605x587	1.869x605x587

Characteristics

Models	BIO II A 3	BIO II A 4	BIO II A 6
Front opening height (mm)	200		
Laminar flow speed (m/s)	0,35		
Laminar flow rate (m ³ /h)	669	882	1.310
Front air intake speed (m/s)	0,5		
Extraction flow rate (m ³ /h)	295	402	620
Power (Kw)	1,2	1,3	1,8
Lighting (lux)	≥1.000		
Noise (dBA)	≤58		
Filters	H14 filters as per EN1822 efficiency of 99.995% MPPD and 99.999% (DOP).		
Air quality	ISO 4 as per ISO CD 14644-11 (353 part≥0,5µm/m ³ 10.000 part≥0,5µm/m ³).		

Fans



Centrifugal fans for corrosive extractions (CPV): Enclosed fan and turbine with polypropylene blades. It transports air at a maximum temperature of -20°C $+70^{\circ}\text{C}$. The standard motors are three-phase 230/400 V motors with a frequency of 50 Hz up to 5.5 HP and 400/690 V and 50 Hz for power greater than 5.5 HP. Class F insulation and IP 55 protection. If necessary, the motor can be supplied with category 3-ATEX certification.

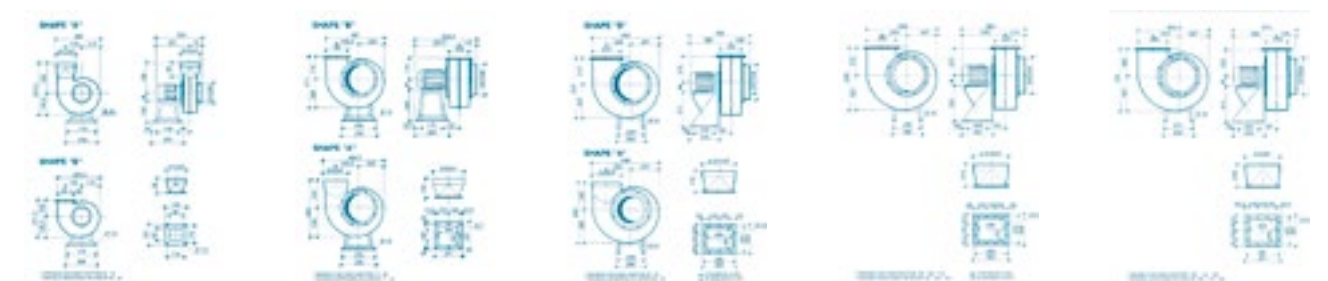
Low pressure fans (VSB): Fully injection moulded fans. U.V.-resistant polypropylene housing, can be directed in 8 positions. High performance polypropylene turbine with blades curved forward, statically and dynamically balanced, with reinforced hub. Anti-corrosive seal against risk of gas leakage. Available with three-phase, single-phase, adjustable, EEx-d or two-speed motor, IP55 protection.

Enclosed centrifugal fans with turbine in sheet steel (CMP): It transports air at a maximum temperature of -20°C $+120^{\circ}\text{C}$, at a maximum of $+100^{\circ}\text{C}$ for the CMP-38 model. The standard motors are three-phase 230/400 V motors with a frequency of 50 Hz up to 5.5 HP and 400/690 V and 50 Hz for power greater than 5.5 HP. Class F insulation and IP 55 protection, except for single-phase models with IP 54 protection, and CPM-38 models with IP 21 protection. If necessary, the motor can be supplied with category 2-ATEX certification for atmospheres.

Measurements

Models	Velocity	Maximum allowable intensity (A)			Installed power(kW)	Maximum flow rate (m ³ /h)	Sound pressure level dB(A)	Approx. weight (Kg)
	(RPM)	230V	400V	690V				
CPV-815-4T	1.350	1,52	0,88		0,25	450	58	14
CPV-1020-4T	1.350	1,52	0,88		0,25	1.250	65	19,5
CPV-1325-4T	1.370	2,02	1,17		0,37	2.300	69	27
CPV-1630-4T	1.430	5,96	3,44		1,5	4.500	75	34,5
CPV-2045-4T	1.455		14,2	8,2	7,5	10.400	78	102
CPV-2045-6T	960	12,7	7,3		3	7.000	72	88
CMP-512-2T	2.850	0,55	0,32		0,08	490	62	4
CMP-512-4T	1.440	0,55	0,32		0,05	255	55	3,5
CMP-514-2T	2.850	1,21	0,7		0,18	800	65	5
CMP-514-4T	1.440	0,55	0,32		0,08	565	58	4,5
CMP-616-2T	2.740	1,73	1		0,55	1.380	69	8
CMP-616-4T	1.400	0,65	0,37		0,1	850	61	7,5
CMP-620-2T	2.740	1,73	1		0,37	765	68	9,5
CMP-620-4T	1.375	0,96	0,4		0,1	810	61	7,5
CMP-718-2T	2.855	3	1,73		0,75	1.485	70	12,5
CMP-718-4T	1.410	1,32	1,76		0,25	1.280	63	9,5
CMP-820-2T	2.845	4,16	2,4		1,1	1.950	73	15
CMP-820-4T	1.350	1,32	0,76		0,25	1.670	66	10
VSB 14	2.900	1,05	0,65		0,18	450	67	4,5
VSB 23	1.450	2,84	1,68		0,55	2.000	66	15
VSB 30	1.450	4,64	2,68		1,1	4.000	65	29
VSB 35	1.450	11	6,93		3	6.000	70	42
VSB 42	1.450	15	8,66		7,5	10.000	79	102
VSB 24	2.900	2,84	1,68		2,2	2.200	71	26
VSB 25	2.900	2,84	1,68		2,2	2.200	72	26
VSB 20	2.900	1,27	0,78		1,1	1.600	70	13

Drawings



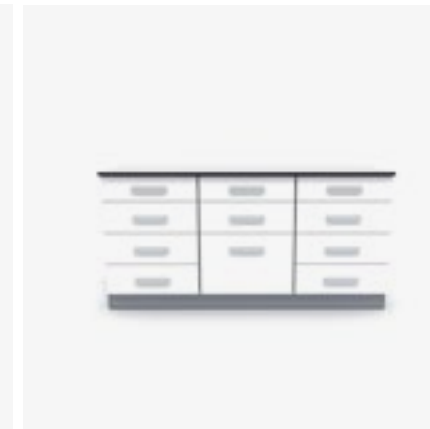
Benches

Our range of laboratory benches are developed to meet our requirements for quality, flexibility, modularity and ergonomics. With its range of benches, Burdinola offers a wide range of possibilities to cover the different needs of laboratories and their users. It has three types of support frame, in addition to an option on storage modules, two heights, five bench depths and lengths which, combined with the wide range of work surfaces and service systems, offer more than 3,000 possible combinations, allowing our customers to choose the most appropriate option depending on their needs and applications within the laboratory.

Range of benches



With frame
P.172



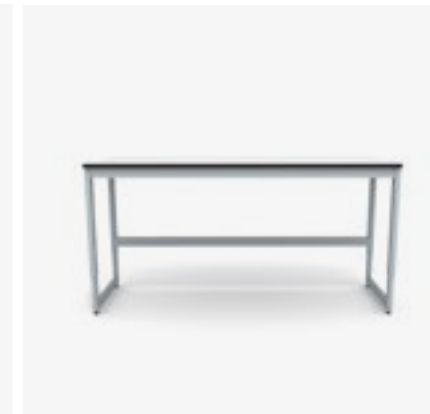
Without frame
P.174



Mobile benches
P.176



Adjustable height: Type A
P.178



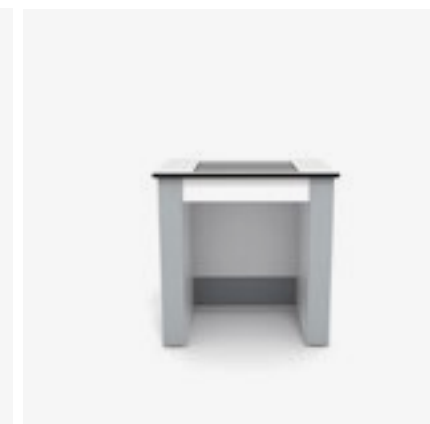
Adjustable height: Type B
P.180



Instrumentation
P.182



Sampling
P.184



Balance tables
P.186



Washing units
P.188

Characteristics

Asepsis.

Quality of finishes, thanks to the good execution of our assembly teams and a design that minimises joints.

Hygiene.

The number of joints has been minimised as far as possible. In addition, they have an antihumidity skirting board finished to the floor to facilitate cleaning and maintain aseptic conditions.

Robustness.

Very sturdy benches with selfsupporting frames made of tube sections of 60 x 30.

Adaptability.

The variety of types of bench pedestals makes it possible to install N, C or cantilever type pedestals, depending on the needs of the workplace.

Space.

C and cantilever (T) frames stand out for offering a more diaphanous space under the bench. (T) They make it possible to accommodate suspended and wheeled storage elements.

Accessibility.

The compartment for installations can be accessed independently from the lower part of the bench by means of easily removable covers.

Durability.

Heat-hardened powder coating, resistant to chemical attack, impact and abrasion. Assured levelling. The benches have a levelling system in contact with the floor and at the top for worktops that need it.

Suitability for use.

The wide range of work surfaces covers different laboratory requirements. We look for the suitability of work surfaces depending on your needs: vitrified stoneware, glass, compact laminate with HPL phenolic resin, stainless steel, polypropylene, epoxy or post-forming.

Services.

The services compartment has a protected and easily accessible space to manage the installations along the bottom of the bench. In addition to offering easy accessibility for maintenance and/or modification work, it allows the routing of hidden installations to all laboratory points while maintaining independent work areas and service installations.

Reconfigurability.

Because we know that plans change, that needs are not always the same, the reconfigurability of the post allows a centre bench to be converted into two wall benches with their respective service systems, thanks to the fact that each wall bench has its own self-supporting frame and independent service system, does not share the same column and that gives us total freedom.

Flexibility.

Thanks to the mobility of our underbench storage modules (suspended, on wheels) we can adapt the laboratory workspace at any time without the need for tools, or more help than moving it sideways gently. Our modules are mounted on a track that allows our laboratory to always be in the right configuration.

Worktop types.

	Application	Advantages	Limitations
High-pressure laminate with resistance to chemical attack (HPL)	Chemical laboratory.	Smooth surface with minimal joints.	Mechanical strength (abrasion).
	Microbiological laboratory	Humidity-resistant.	
	Humid premises.	High resistance to chemical attack.	
		Antibacterial.	
Technical stoneware	Chemical and mechanical laboratories.	High resistance to chemical agents.	Damaged by hydrofluoric acid.
		High mechanical stability.	Maximum thermal shock temperature of 70°C.
			Silicone joints.
Glass	Chemical and mechanical laboratories.	Smooth surface.	Damaged by hydrofluoric acid.
		High resistance to chemical attack.	Sensitive to knocks on corners.
			Silicone joints.
Stainless steel	Biological, radioactive laboratory.	High resistance to humidity and solvents.	Sensitive to acids, halogenated products and their derivatives.
	Washing areas and humid premises.	Seamless surface.	
		Ideal for laboratories that require decontamination.	
		Design possibilities: Perimeter barrier/rim.	
Polypropylene	Workstations where office work is carried out.	Seamless, smooth surface.	Scratching: soft surface.
	Washing area.	Avoids glass breakage by knocking.	Sensitive to high temperatures.
	Work with hydrofluoric acid.	Design possibilities: Perimeter barrier/rim.	
High-pressure laminate (HPL)	Chemical, physical or mechanical laboratory.	Humidity-resistant.	Concentrated acids > 10% damage it.
	Medium duty benches (control laboratories).	Smooth surface.	Mechanical strength (abrasion).
	Benches for analytical equipment.		
Post-formed	Workstations where office work is carried out.	Smooth surface.	Low chemical resistance.
			Edges sensitive to humidity.
Epoxy	Chemical, physical or mechanical laboratory.	Solid material.	Sensitive to scratching.
		High mechanical strength.	Sensitive to concentrated acids.
		Smooth surface with silicone joints.	

Assembly sequence.



Benches with a frame



The range of BECOME benches is designed, manufactured and certified in accordance with EN-13150 standard. It meets all of its dimensional, safety and test requirements, making it an ergonomic, safe product. Based on criteria of flexibility and future reconfigurations, the centre and wall bench modules are independent of each other. It has metal frames of great stability and robustness, with a coating that protects them from abrasions, impacts and chemical attacks.

Modelos



1. N wall bench frame



2. C wall bench frame



3. T wall bench frame



4. N centre bench frame



5. C centre bench frame



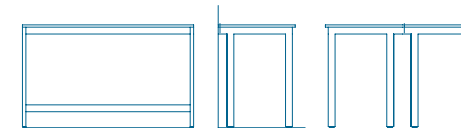
5. T centre bench frame

Worktop finishes

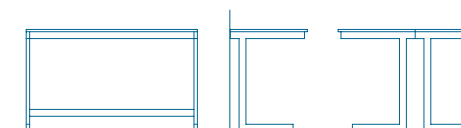
- High-pressure laminate with chemical resistance (HPL).
- High-pressure laminate (HPL).
- Post-formed.
- Stainless steel.
- Polypropylene.
- Technical stoneware.
- Glass.
- Epoxy.

Drawings

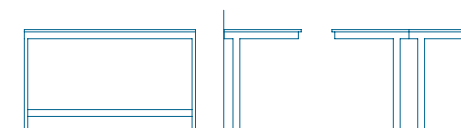
N frame



C frame



T frame



Technical characteristics

Module (mm)	600 900 1.200 1.500 1.800
Depth (mm)	600 675 750 825 900
Height (mm)	740 900 (for benches with an additional N stand) 500
Service compartment	Consult diagrams depending on the type of stand and depth.
Load capacity (kg) (*)	200 kg per module.
Frame	Self-supporting frames made of tube sections of 60 x 30 mm, with a heat-hardened powder coating.
Skirting board	Anti-humidity skirting board finished to the floor and resistant to cleaning water and abrasive products
Worktop	See table of qualities.
Rolling system	Makes it possible to put suspended modules in place that can be moved along the bench.
Certification	EN-13150
Service compartment: passage for pipes under benches (mm)	150 minimum (depending on depth).
Environmental certification	Cradle to Cradle EPD.

All dimensional data Tol: +/- 5mm.

(*) Benches that have T "cantilever" type stands must be fixed to the wall when they are wall benches or to the floor when they are centre benches.

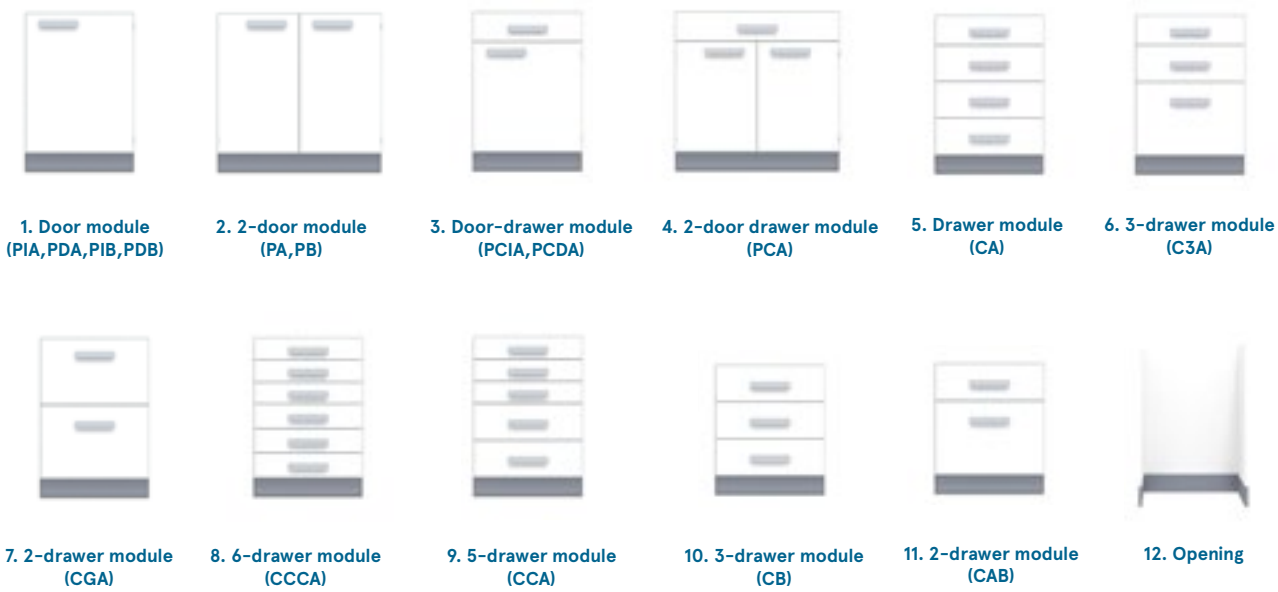
Benches without a frame



The range of BECOME benches is designed, manufactured and certified in accordance with EN-13150 standard. It meets all of its dimensional, safety and test requirements, making it an ergonomic, safe product.

Laboratory benches created from configurations of storage units with a skirting board. This solution offers great robustness and high storage capacity, with a great variety of storage units that optimise order in the laboratory.

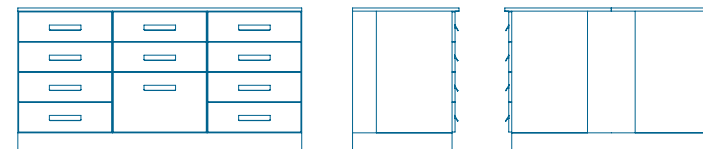
Modelos



Worktop finishes

- High-pressure laminate with chemical resistance (HPL).
- High-pressure laminate (HPL).
- Post-formed.
- Stainless steel.
- Polypropylene.
- Technical stoneware.
- Glass.
- Epoxy.

Drawings



Mobile benches



Made of a cold rolled steel tube frame and a 20 mm thick high pressure laminate worktop with chemical resistance (HPL). These models have 4 nylon wheels (two with brakes) of high strength. In the lower part, it can have a panel or shelf, gap, or gap combined with space for storage, with it being possible to incorporate a great range of available storage units (see chapter 4).

Models



1. Mobile bench with lower shelf



2. Mobile bench with gap



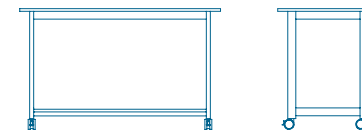
3. Mobile bench with gap and storage

Worktop finishes

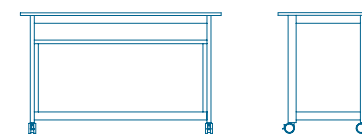
- High-pressure laminate with chemical resistance (HPL).
- High-pressure laminate (HPL).
- Glass.

Drawings

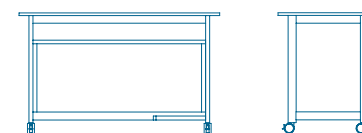
Mobile bench with lower shelf



Mobile bench with gap



Mobile bench with gap and storage



Technical characteristics

Models	Mobile bench with lower shelf	Mobile bench with gap
Module (mm)	600 900 1.200 1.500 1.800	900 1.200 1.500
Depth (mm)	600 750 900	750
Height (mm)	740 900	
Load capacity (kg)	150kg per module.	150kg per module.
Frame	Self-supporting frames made of tube sections of 60 x 30 mm, with a heat-hardened powder coating.	
Wheels	4 or 6 nylon wheels (without module). The front wheels have brakes.	
Worktop	See table of qualities.	
Optional: Retractable wheels	They have a retractable system that makes it possible to move the bench or immobilise it with Silentblock support.	
Optional: Storage	Allows modules to be placed on a lower shelf (see chapter on suspended modules)	
Optional: Bench connectors	Accessory for fixing benches together, to make connecting and releasing benches easy.	
Certification	EN-13150	
Environmental certification	Cradle to Cradle EPD.	

All dimensional data Tol: +/- 5mm.

Details / Accessories



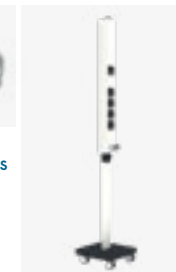
Accessory for fixing benches together



Wheels



Retractable wheels



Mobile service columns

Height-adjustable benches: Type A



The range of BECOME adjustable benches is designed and manufactured in accordance with EN-13150 standard. It meets its dimensional and safety requirements, making it an ergonomic, safe product. They are fully adjustable in height, the user can change the height of the bench during use, to adjust it to their needs: working seated, standing or interchangeably, it has the ability to memorise 4 adjustment positions to meet these needs.

Models



1. Functional unit



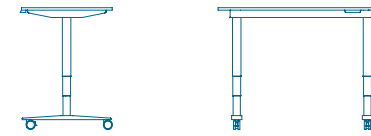
2. For equipment

Worktop finishes

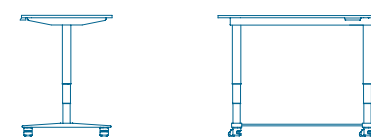
- Post-formed.
- High-pressure laminate with chemical resistance (HPL).
- High-pressure laminate (HPL).
- Tempered glass.

Drawings

Functional unit



For equipment



Technical characteristics

Module (mm)	1.200 1.500 1.800
Depth (mm)	750 900
Height (mm)	From 750 1250
Load capacity (kg)	80kg per module.
Frame	70 x 70 mm square telescopic column.
Functional unit version wheels	4 nylon wheels (without module). The front wheels have brakes.
Equipment version wheels	They have a retractable system that makes it possible to move the bench or immobilise it with Silentblock support. They have greater stability for working with equipment.
Worktop	See table of qualities.
Controller	Low power consumption in standby mode ≤ 0.3 W. Soft start and soft stop. Protection against overload. Dimensions: 264 x 103 x 37 mm. Input voltage: 230 V/50 Hz. Output voltage: 288 VA (2-leg) 24 V DC. Operation time: 10% at maximum (1 min./9 min.). Controls for EU and US voltages available.
Adjustment speed	32-35 mm/sec.
Optional: Storage	Allows modules to be placed on a wheels (see chapter on suspended modules)
Accessibility	Type A bench in accordance with EN 527-1 classification

All dimensional data Tol: +/- 5mm. Minimum height: in accordance with the ergonomic criteria stipulated by EN 13150.

Mobility

Mobility of benches



Detalles / Accesorios



Opcional columnas de servicios fijas o móviles

Switch manual para el control de altura

Dispositivo de fijación entre mesas

Height-adjustable benches: Type B



The range of BECOME adjustable benches is designed and manufactured in accordance with EN-13150 standard. It meets its dimensional and safety requirements, making it an ergonomic, safe product. These benches are height-adjustable during installation and adjustment. These are benches that are used to work seated or standing, with a different range of adjustments for the two cases.

Models



1. Adjustable bench with SSF



2. Adjustable bench with SSV



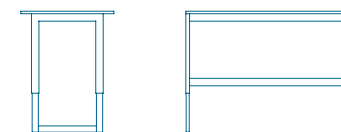
3. Adjustable bench with SSA

Worktop finishes

- High-pressure laminate with chemical resistance (HPL).
- Technical stoneware.
- Glass.
- Stainless steel.
- Polypropylene.
- High-pressure laminate (HPL).
- Post-formed.
- Epoxy.

Drawings

Adjustable



Mobility

Mobility of benches



Technical characteristics

Module (mm)	1.200 1.500 1.800
Depth (mm)	600 750 900
Height (mm)	Desde 740 900
Height (mm) Tiered	20
Load capacity (kg)	200kg per module.
Frame	Self-supporting frames made of tube sections of 60 x 30 mm, with a heathardened powder coating.
Levelling	They have a levelling system in contact with the ground (+/- 10 mm).
Worktop	See table of qualities.
Rolling system	Makes it possible to put suspended modules in place that can be moved along the bench.
Optional: Storage	Allows modules to be put in place, with wheels or a skirting board (see chapter on suspended modules).
Certification	EN-13150
Environmental certification	Cradle to Cradle EPD PFCE.
Accessibility	Type B bench in accordance with EN 527-1 classification

All dimensional data Tol: +/- 5mm. Minimum height: in accordance with the ergonomic criteria stipulated by EN 13150

Benches for instrumentation



Benches specially designed for instrumentation equipment. These benches are designed under the “plug-in unit” concept which gives flexibility to the unit, made up of the equipment and the bench, thus making both maintenance work and future modifications and/or extensions easy. They allow easy access to the back of the instrument, as well as making the most of the space available. In the version with wheels, their antivibration system ensures that the equipment works properly and also preserves its ergonomics and safety.

Models



1. Mobile bench for instrumentation

Worktop finishes

- High-pressure laminate with chemical resistance (HPL).
- High-pressure laminate (HPL).

Drawings

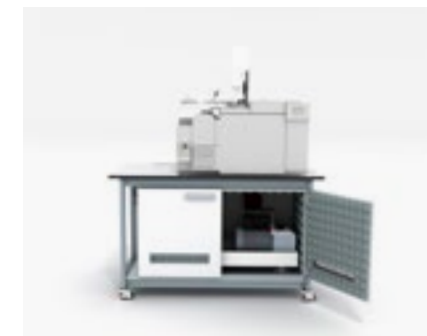
Technical characteristics

Module (mm)	900 1.200 1.500 1.800
Depth (mm)	750 825
Height (mm)	540 740 900
Load capacity (kg)	200kg per module.
Frame	Self-supporting frames made of carbon steel tubes, with different sections available depending on their application, with a heat-hardened powder coating.
Retractable wheels	They have a retractable system that makes it possible to move the bench or immobilise it with Silentblock support.
Worktop	See table of qualities.
Optional: Wheels	4 or 6 nylon wheels (without module). The front wheels have brakes.
Optional: Storage	Allows modules to be placed on a lower shelf (see chapter on suspended modules)
Certification	EN 13150
Environmental certification (*)	Cradle to Cradle EPD PFCE.

All dimensional data Tol: +/- 5mm. (*) See models.

In cases where the instrumentation benches form groups of wall or centre benches, they shall have an open space on the side to make it possible to access the rear wheels.

Details / Accessories



The interior is lined with acoustic insulation foam, which allows an average sound absorption coefficient of 65% Anti-overheating safety system with activation of extraction on reaching 35 °C.



SCAT waste recovery system. See SCAT components document.

- Waste collection system.
- Waste module.
- Drum/container.
- Capillary collector cap.
- Filter.
- Filling alarm.
- Connection.
- Soundproof module.
- Conduits for services.
- Support for screen / keyboard.
- Column storage

Benches for sampling



Models



1. Sampling of solid foods



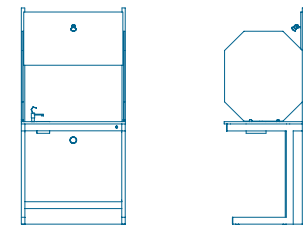
2. Sampling of liquid foods

Worktop finishes

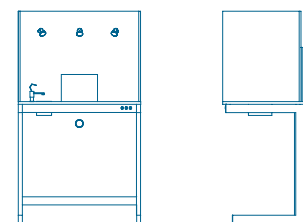
- High-pressure laminate with chemical resistance (HPL).

Drawings

Sampling of solid foods



Sampling of liquid foods



Technical characteristics

Module (mm)	900
Depth (mm)	900
Height (mm)	740
Service compartment	Consult diagrams depending on the type of stand and depth.
Frame	Self-supporting frames made of tube sections of 60 x 30 mm, with a heathardened powder coating.
Worktop	High-pressure laminate with chemical resistance (HPL).
Rolling system	Makes it possible to put suspended modules in place that can be moved along the bench.
Service compartment: passage for pipes under benches (mm)	150
Environmental certification (*)	Cradle to Cradle I EPD.

All dimensional data Tol: +/- 5mm.
(*) See models.

Benches specifically designed for sampling solids and liquids. They have a self-supporting metal frame fitted with stands and connection frames, made of cold rolled steel tube. This frame is protected by means of a heathardened powder coating based on epoxy resins (epoxy-polyester powder) resistant to acids, bases and alkalis, as well as to knocks and abrasion. They have a levelling system housed in their base, as well as a service compartment at the rear, where the different lines for feeding and discharging different fluids are fixed.

Details / Accessories



Button Pad



Lights



Taps



Sink



Hatch

Bench for scales



The range of BECOME benches for scales is designed and manufactured in accordance with the EN-13150 standard. Vibration damping benches to ensure stable weighing conditions. The weighing surface is isolated from the rest of the bench to prevent the transmission of vibrations. The ventilated version is recommended for weighing powder.

Models



1. Balance table



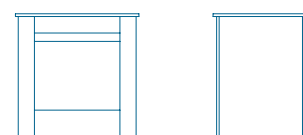
2. Ventilated balance table

Worktop finishes

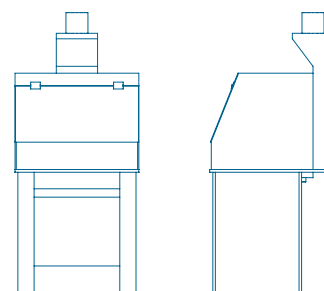
- High-pressure laminate with chemical resistance (HPL).
- Glass support plate for scales.

Drawings

Balance table



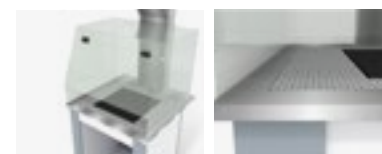
Ventilated balance table



Technical characteristics

Models	Balance table	Ventilated balance table	
Module (mm)	900 (1.500 upon request)		
Depth (mm)	750 900		
Height (mm)	740 900		
Weighing Surface	Weighing area: 450 x 500 mm. 10 mm thick glass support plate for scales. Vibration absorbing plate made of 30 mm thick steel sheet, supported by anti-vibration systems.	Weighing area: 450 x 500 mm. 20 mm thick granite support plate for scales. Vibration absorbing plate made of 30 mm thick steel sheet, supported by anti-vibration systems.	
Worktop	See table for finishes.	Made of 316 perforated stainless steel, with a removable lid and venting for cleaning.	
Frame	Self-supporting internal frames made of tube sections of 40 x 40 mm, with a heat-hardened powder coating.		
Furniture	Independent of the frame, made of particle board covered with decorative paper treated with melamine resins.		
Recommendations	The accuracy and reproducibility of weighing results are closely linked to the position of the scales. Follow the points below so that your scales can operate at its best: - The room temperature must be constant. Do not put the balance table close to radiators or windows. The relative air humidity must be between 45 and 60%. - Avoid the incidence of natural light: Put the scales next to a wall without a window. - Avoid air flows: Do not put the scales in the air flow from air conditioning units or fans on computers or laboratory apparatus. Do not put the scales next to a door and avoid busy places.	Cabinet	Transparent cabinet with tilting front window.
		Extraction	Stainless steel rectangular pipe.
		Optional: Filter	The installation of a particle filter is recommended.
Certification	EN-13150		
Environmental certification (*)	Cradle to Cradle EPD PFCE.		

Details / Accessories



Cabinet

Perforated stainless steel worktop



Glass weighing area

Electrical turret

All dimensional data Tol: +/- 5mm. Minimum height: in accordance with the ergonomic criteria stipulated by EN 13150.
 (*) See models

Washing units



The range of BECOME washing units is designed and manufactured in accordance with the EN-14727, EN-16121 and EN-16122 standards. Burdinola offers a variety of washing units adapted for both wall and centre benches. The base of the frame is made of humidity-resistant material.

Models



1.F-FR 1500 PA



2. F-FR 1200 PA



3. F-FR 900 CGA



4. F-FR 600 PA



5. S-FR 600PA

Finishes

- Stainless steel.
- Polypropylene.

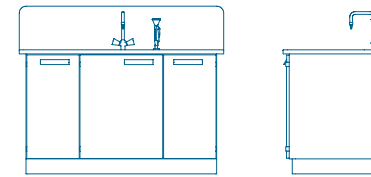
- Stoneware.
- High-pressure laminate with Chemical resistance (HPL).

Colours

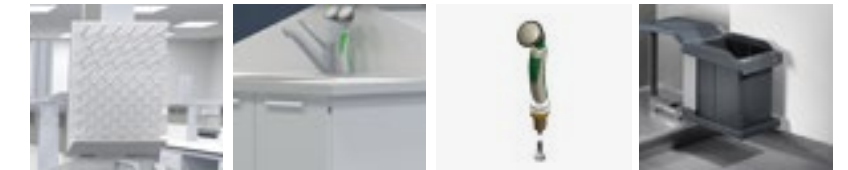
- White.
- Grey.

Drawings

Centre unit



Details / Accessories



Drying racks

Splash protection panel

Eye wash

Rubbish bin

Technical characteristics

Fitted sinks				
Sink material	Worktop material	Sink dimensions (mm)	No. of bowls	Bowl dimensions (mm)
Stainless steel	Acero inoxidable	465x440	1	370x340x250
		465x440	1	400x400x250
		465x440	1	500x400x250
		465x440	1	370x340x250
		800x510	2	370x340x250
Polypropylene	High-pressure laminate with chemical resistance (HPL)	460x460	1	405x405x250
		900x500	1	400x400x250
Stoneware	High-pressure laminate with chemical resistance (HPL)	490x490	1	380x350x250
		510x506	1	400x400x250
Earthenware	High-pressure laminate with chemical resistance (HPL)	490x490	1	380x350x250

Fitted sinks				
Sink material	Sink dimensions (mm)	No. of bowls	No. of drainers	Bowl dimensions (mm)
Stainless steel	600x750	1	0	400x400x250
	1.200x750	1	1	450x450x250
	1.500x750	1	2	400x400x250
Polypropylene	600x750	1	0	450x450x260
	1.200x750	1	1	500x400x250
	1.200x750	1	1	400x500x325
	900x750	1	1	500x400x325
	1.500x750	1	2	500x400x250
Stoneware	1.200x750	1	1	380x350x250
	1.500x750	1	2	400x400x250

Stainless steel sink units: 1 mm thick grade 18/8 polished stainless steel sink with a ridged edge mounted on 20 mm thick painted chipboard.

Polypropylene sink units: Manufactured with 10 mm thick sheets with a ridged edge. Mounted directly on the metal frame.

Stoneware sink units: Sink units and wells made of technical ceramic and resistant to all acids, soda and solvents in any concentration and at any temperature (the only exception is hydrofluoric acid). They are manufactured in accordance with DIN 28062. Acid resistance control in accordance with DIN 51102 sheet 2 Check on water absorption (porosity) in accordance with DIN 51056.

Service systems

We are creating laboratories today, thinking of the future. Our range of services is created from an overall view of work spaces in laboratories. Burdinola offers multi-purpose, reconfigurable and scalable systems that combine aesthetics with functionality, to adapt to any usage scenario both at the time of installation and in the future. Our new range of services (vertical, front, benchtop and ceiling-mounted) is more versatile than ever and makes it possible to customise every installation to achieve a comfortable, safe working environment, with maximum optimisation of space.

Range of service systems



Self-supporting.
P.198



Stand-alone.
P.102



Wall/ceiling-mounted
P.206

Accessories for service systems



Panels
P.210

Electrical services
P.212

Fluid services
P.214

Lighting
P.216

Storage
P.218

Characteristics

Asepsis.

Thanks to its design and the materials chosen, we achieve the best quality in finishes and minimisation of joints.

Self-supporting.

The BECOME system of services is self-supporting, fully independent of the bench. This is the key to our laboratories being reconfigurable and flexible.

Capacity.

The front service system offers a maximum capacity to house electrical and mechanical services (water, pure gases, vacuum, gas, etc.).

Adaptability.

The variety of solutions for service systems allows maximum adaptation to the needs of each workstation.

The ergonomic design of the service system makes it possible for consumption points to be easily accessible by locating services at the point required, thus avoiding hoses or cables laid out over the work area. Vertical service systems for workstations where visibility and communication are paramount, air service systems for workstations where flexibility is the critical factor.

Durability.

The service life of the service system is undoubtedly limited by that of its service panels. BECOME service system panels are made of ABS, which gives them great durability.

Safety.

The service system makes it possible to organise the workstation, key to ensuring the safety of the activity, through the storage possibilities it provides on shelves or in cabinets in the upper area of the bench.

Communication.

The vertical service system provides greater visibility to the laboratory and communication on both sides of the bench, as well as greater use of the worktop.

Flexibility.

The highest levels of flexibility are achieved through a combination of wall/ceiling-mounted service systems and mobile benches: a laboratory layout that can be adapted by users themselves when required.

Easy maintenance.

The service system creates a service compartment in the lower part to provide services along the lower part of the bench to all points in the laboratory. The routing of service installations is accessible to make changes or expansions, while being independent of work areas.



Assembly sequence of service panels

Service systems allow laboratories to be easily reconfigured, as they are self-supporting. They are supported by anodised aluminium profiles and have an internal frame that makes it possible

to put service panels in place and the superior locking system ensures the positioning of the panels. This makes maintenance tasks for changing or expanding services a lot easier. The different

services are installed in service panels, as shown in the image below:



1 Turn the hinge



2 Remove the buffer



3 Remove the buffer



4 Unscrew the panel



5 Remove the panel



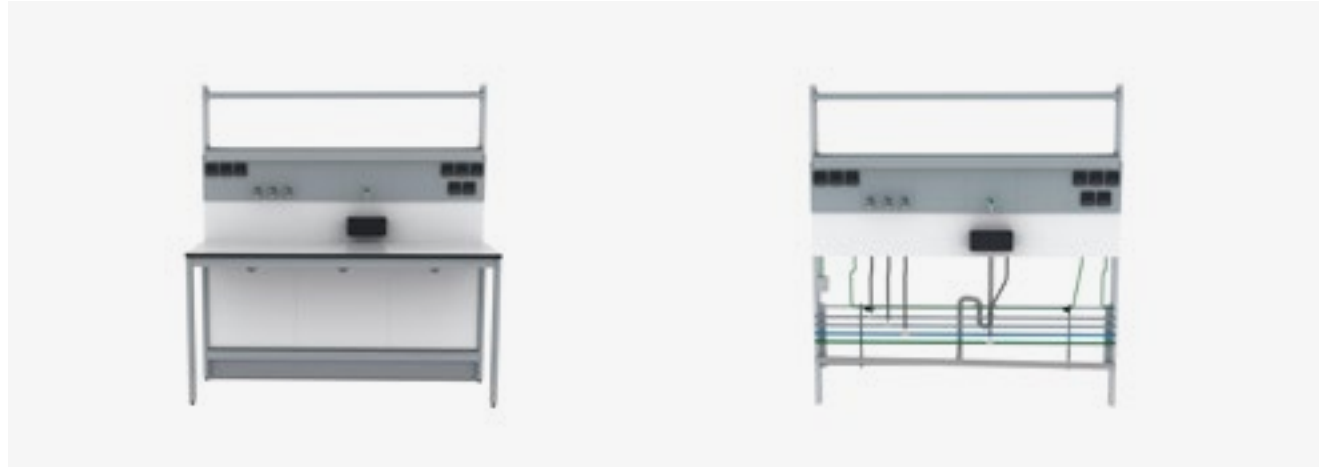
6 Panel removed

The BECOME service system allows the assembly of different storage elements, such as shelves and/or suspended cabinets. The slots on the side allow the height of the shelves and cabinets to be adjusted at any point and independently on each side of centre benches.

The shelves have a steel support with a heat-hardened powder coating and are adjustable in height and independent on each side of centre benches. We offer a choice of glass shelves or compact melamine fibreboard. Low power consumption LED lighting is integrated under shelving or

suspended cabinets. The electrical sockets on Burdinola benches and fume cupboards are fitted with an IP-55-protected cover. In this way, it is possible to prevent shunts due to splashes or spills.

Details of layout of bench installations



Installations run through benches hidden by the service compartment. The connection is usually made from the ceiling through service downpipes or from the floor.

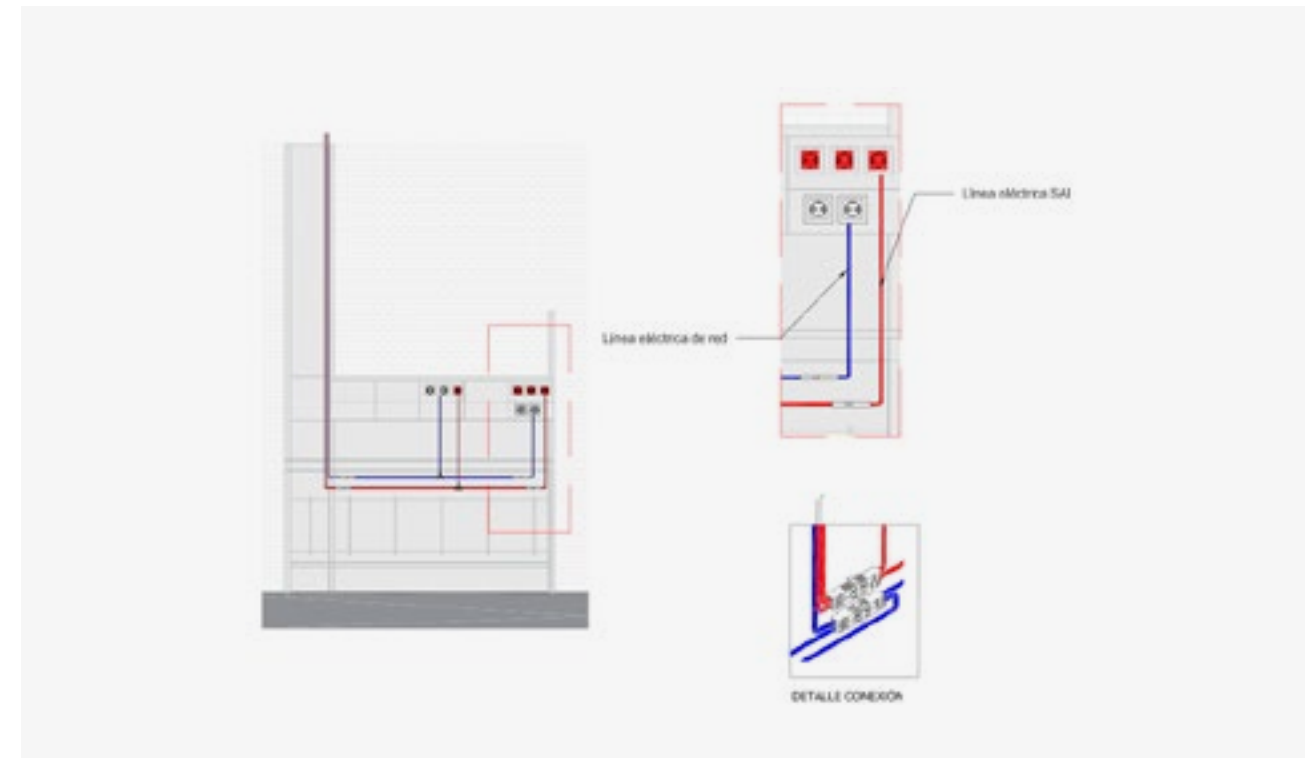
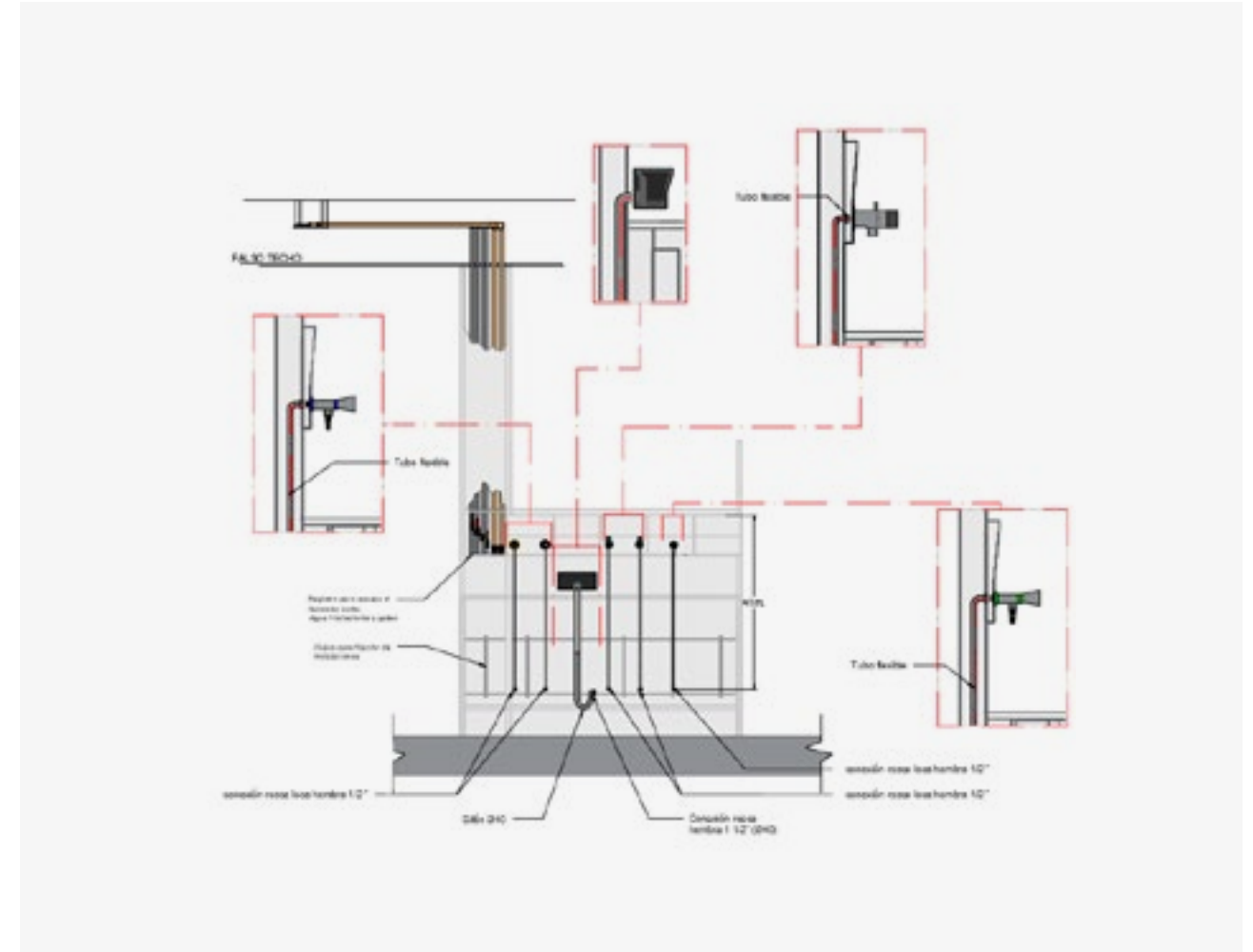


The 150 mm service compartment for a wall bench and 300 mm for a centre table allows for proper routing of all installations fixed to the guide provided for this purpose.



This accessible layout improves flexibility, as it makes the maintenance and/or modification of installations easier, depending on the changing needs of laboratories.

The pre-installation of our service compartments allows us to reduce assembly times in situ and ensure the consistent quality of all of our projects.



Range of service systems

Self-supporting P.198
Stand-alone P.202
Wall/ceiling-mounted P.206



Self-supporting



Application

The service systems, which are designed and certified in accordance with EN-13150, allow easy reconfiguration of laboratories, are self-supporting and independent of benches, provide a large capacity for hosting services and the possibility to expand and/or make simple modifications to their configuration. In their front and vertical layouts, they are fitted with anodised aluminium profiles. A galvanised steel sheet support frame allows service panels that can be easily replaced to be put in place, thanks to a locking system at the top. The service panels are made of recyclable thermoplastic, with approximate measurements of 300 x 300 mm, available in different colours. These panels allow the incorporation of elements for different services, such as water, electricity, gas, etc., and are easily expandable and replaceable.

Safe product

Range certified under the European EN 13150 standard. The service panels are made of recyclable thermoplastic with high impact resistance and V0 fire resistance. As it is a non-conductive plastic material, it avoids the risk of direct electrical contact.

Models



1. Wall-mounted benchtop service system



2. Wall-mounted vertical service system



3. Wall-mounted front service system



4. Centre benchtop service



5. Centre vertical service system



6. Centre front service system

Materials

- Self-supporting frame: anodised aluminium.
- Service panels: ABS.
- Finishes: argenta, black fine, fresh lime, alba.

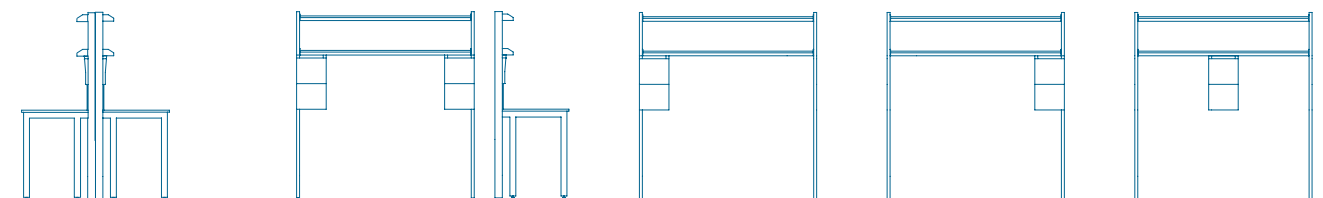
Optional accessories

- Panels
- Electrical and fluid services.
- Downpipe for services.
- Turret / conduit.
- Lighting.
- Storage: shelf / cabinet.

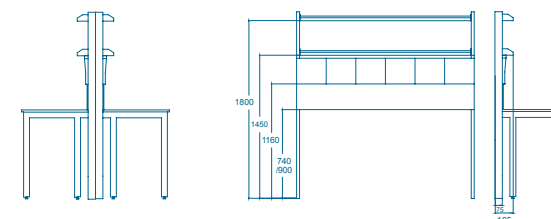
*For more details, see the chapter on "Accessories for service system".

Drawings

Vertical service system



Front service system



Technical characteristics

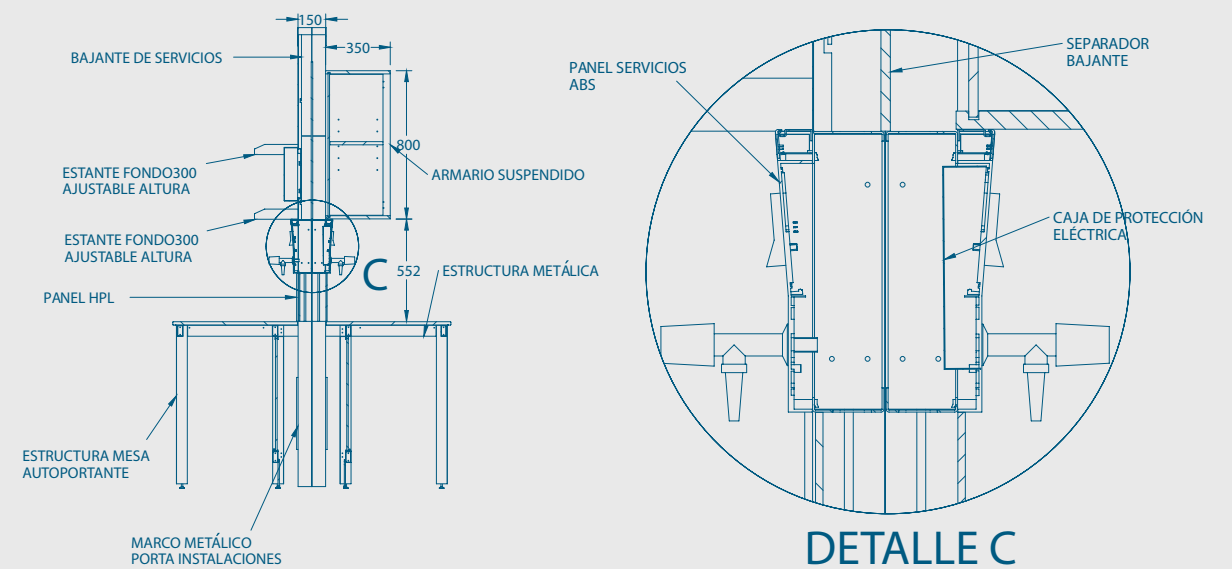
Models	600	900	1200	1500	1800
Self-supporting frame	75 x 30 mm anodised aluminium.				
Support frame for panels	Galvanised sheet steel.				
Service panels	Recyclable ABS 300 x 300 mm service panel. V0 resistance to fire (*).				
Panel seal	Compact white core high pressure laminate.				
Maximum no. of panels for front version	2	3	4	5	6
Height of services panel (mm)	1.160				
Load capacity					
Shelf (kg)	30				
Cabinet Panel (kg)	20				
Accessories					
Shelf	3+3 thick laminated safety glass or compact wood fibreboard, covered with decorative paper with 8 mm melamine resins. Depths: 150-225-300 mm.				
Cabinet	Versions with sliding glass, blind or open doors. Height: 800 mm and 650 mm (with height-adjustable panel) and 410 mm. Colours: white or grey.				
Height of first shelf/cabinet (mm)	1.450				
Height of second shelf (mm)	Adjustable along the entire length from 1600 to 1800 mm.				
Downpipe for services.	Integrated into all service system models and made of aluminium sections covered with steel plate. 300 x 75 or 300 x 150 (mm).				
Lighting	LED modular lighting.				
Electrical / fluid services	For details, see chapter 3.2				

(*) Self-extinguishing and fire retardant. In accordance with UL94 (vertical burning), V0 classification is equivalent to the fire being extinguished in 10 seconds without dripping.

Diagram of the path of the installations.



Diagram of details and scalability



Stand-alone



Application

Stand-alone service systems, which are designed and certified in accordance with EN-13150, allow easy reconfiguration of laboratories, are self-supporting and independent of benches, provide a large capacity for hosting services and the possibility to expand and/or make simple modifications to their configuration. The ergonomic design of the service system makes it possible for consumption points to be easily accessible, including behind large equipment and the organisation of the workstation, by locating services at the point required, thus avoiding hoses or cables laid out over the work area.

Safe product

Range certified under the European EN 13150 standard. The service panels are made of recyclable thermoplastic with high impact resistance and V0 fire resistance. As it is a non-conductive plastic material, it avoids the risk of direct electrical contact.

Models



1. Stand-alone wall-mounted benchtop service system



2. Stand-alone wall-mounted vertical service system



3. Stand-alone wall-mounted front service system



4. Stand-alone centre benchtop service system



5. Stand-alone centre vertical service system



6. Stand-alone centre front service system

Materials

- Self-supporting frame: anodised aluminium.
- Service panels: ABS.
- Finishes: argenta, black fine, fresh lime, alba.

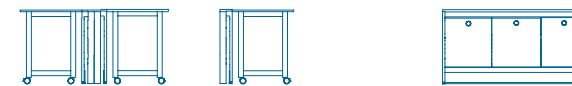
Optional accessories

- Electrical and fluid services.
- Downpipe for services.
- Turret / conduit.
- Lighting.
- Storage: Shelf / Cabinet.
- Benches (as per chapter 2).
- For details, see chapter 3.2.

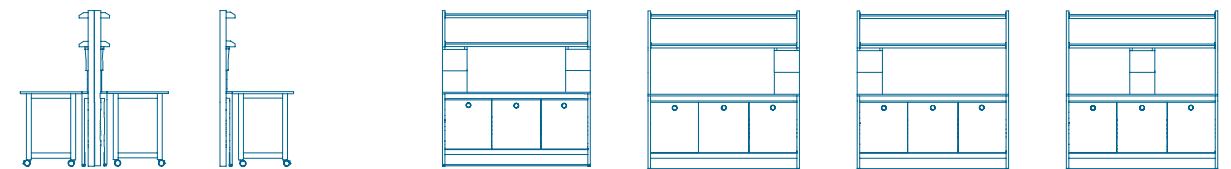
*For more details, see the chapter on "Accessories for service"

Drawings

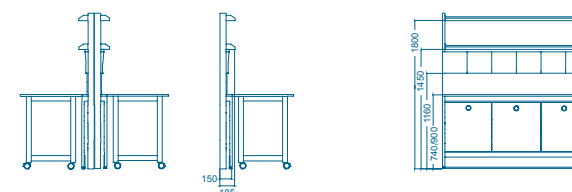
Stand-alone benchtop service system



Stand-alone vertical service system



Stand-alone front service



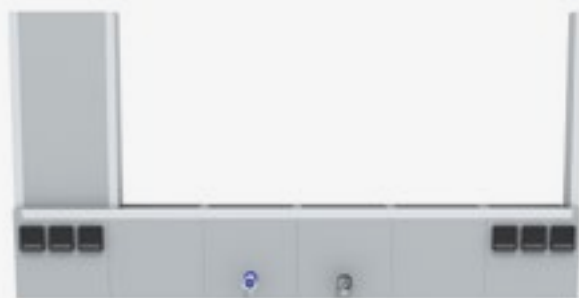
Technical characteristics

Modelo	600	900	1200	1500	1800
Self-supporting frame	75 x 30 mm anodised aluminium.				
Support frame for panels	Galvanised sheet steel.				
Service panels	Recyclable ABS 300 x 300 mm service panel. V0 resistance to fire (*).				
Panel seal	Compact white core high pressure laminate.				
Maximum no. of panels for front version	2	3	4	5	6
Height of services panel (mm)	1.160				
Load capacity					
Shelf (kg)	30				
Cabinet Panel (kg)	20				
Accessories					
Shelf	3+3 thick laminated safety glass or compact wood fibreboard, covered with decorative paper with 8 mm melamine resins. Depths: 150-225-300 mm.				
Cabinet	Height: 800 mm and 650 mm (with height-adjustable panel) and 410 mm. Colours: white or grey.				
Height of first shelf/cabinet (mm)	1.450				
Height of second shelf (mm)	Adjustable along the entire length from 1600 to 1800 mm.				
Downpipe for services	Integrated into all service system models and made of aluminium sections covered with steel plate. 300 x 75 or 300 x 150 (mm).				
Lighting	LED modular lighting.				
Electrical / fluid services	For details, see chapter 3.2				

(* Self-extinguishing and fire retardant. In accordance with UL94 (vertical burning), V0 classification is equivalent to the fire being extinguished in 10 seconds without dripping.



Wall/ceiling-mounted



Application

Wall/ceiling-mounted service systems, designed and certified in accordance with EN-13150, allow maximum flexibility and the reconfigurability of laboratories, suspended from the ceiling, in combination with mobile benches, provide a user-modifiable layout configuration depending on the changing needs of the laboratory. Large capacity for hosting services and the possibility of expansion and / or the simple modification of their configuration. In their wall/ceiling-mounted layout, they are fitted with anodised aluminium profiles. A galvanised steel sheet support frame allows service panels that can be easily replaced to be put in place, thanks to a locking system at the top. The service panels are made of recyclable thermoplastic, with approximate measurements of 300 x 300 mm, available in different colours. These panels allow the incorporation of elements for different services, such as water, electricity, gas, etc., and are easily expandable and replaceable.

Safe product

Range certified under the European EN 13150 standard. The service panels are made of recyclable thermoplastic with high impact resistance and V0 fire resistance. As it is a non-conductive plastic material, it avoids the risk of direct electrical contact.

Models



1. Wall/ceiling-mounted vertical service system - one column



2. Wall/ceiling-mounted vertical service system - two columns



3. Wall/ceiling-mounted front service system

Materials

- Self-supporting frame: anodised aluminium.
- Service panels: ABS.
- Finishes: argenta, black fine, fresh lime, alba.

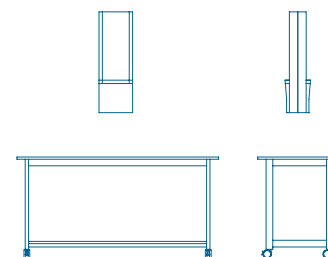
Accesorios opcionales

- Panels.
- Electrical and fluid services.
- Downpipe for services.
- Storage: shelf / cabinet.

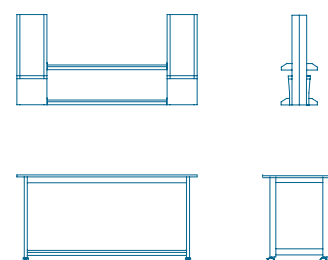
**For more details, see the chapter on "Accessories for service systems".*

Drawings

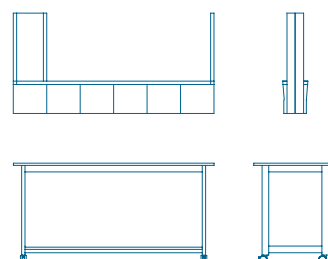
Wall/ceiling-mounted vertical - one



Wall/ceiling-mounted vertical - two



Wall/ceiling-mounted front



Technical Characteristics of Wall/Ceiling-Mounted Column

Models	300
Self-supporting frame	75 x 30 mm anodised aluminium.
Support frame for panels	Galvanised sheet steel.
Service panels	Recyclable ABS 300 x 300 mm service panel. V0 resistance to fire (*).
Maximum no. of panels for front version	1

Accessories

Electrical / fluid services. For details, see chapter 3.2

(* Self-extinguishing and fire retardant. In accordance with UL94 (vertical burning). V0 classification is equivalent to the fire being extinguished in 10 seconds without dripping.

Technical Characteristics of Wall/Ceiling-Mounted Front

Models	1200	1500	1800
Self-supporting frame	75 x 30 mm anodised aluminium.		
Support frame for panels	Galvanised sheet steel.		
Service panels	Recyclable ABS 300 x 300 mm service panel. V0 resistance to fire (*).		
Maximum no. of panels for front version	4	5	6
Height of services panel (mm)	1.160		

Load capacity

Shelf (kg)	30
Cabinet Panel (kg)	20

Accessories

Shelf	3+3 thick laminated safety glass or compact wood fibreboard, covered with decorative paper with 8 mm melamine resins. Funds: 150-225-300 mm.
Cabinet	Versions with sliding glass, blind or open doors. Height: 410 mm Colours: white or grey.
Height of first shelf/cabinet (mm)	1.450
Height of second shelf (mm)	Adjustable along the entire length from 1600 to 1800 mm.
Downpipe for services	Integrated into all service system models and made of aluminium sections covered with steel plate. 300 x 75 or 300 x 150 (mm).
Lighting	LED modular lighting.
Electrical / fluid services	For details, see chapter 3.2

(* Self-extinguishing and fire retardant. In accordance with UL94 (vertical burning). V0 classification is equivalent to the fire being extinguished in 10 seconds without dripping.

Accessories for service systems

Panels P.210

Electrical services P.212

Fluid services P.214

Lighting P.216

Storage P.218



Service panels



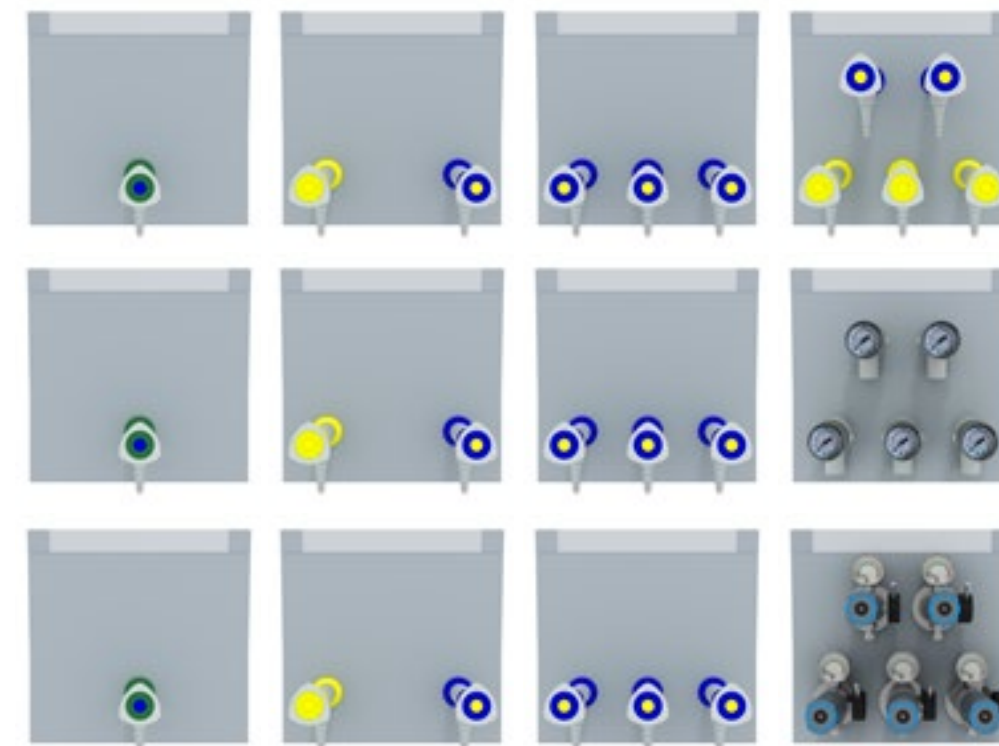
Application

The service panels are made of recyclable thermoplastic, with a high resistance to impact and approximate measurements of 300 x 300 mm, available in different colours and with a V0 resistance to fire. As it is a nonconductive plastic material, it avoids the risk of indirect electrical contact. These panels allow the incorporation of elements for different services, such as water, electricity, gas, etc., and are easily expandable and replaceable. The service system can also be configured according to the range of colours offered. Users can differentiate areas in laboratories (research areas, etc.) using panels of different colours in different areas. Available colours: RAL 9006; RAL7021; PANTONE 379C; PANTONE 434C.

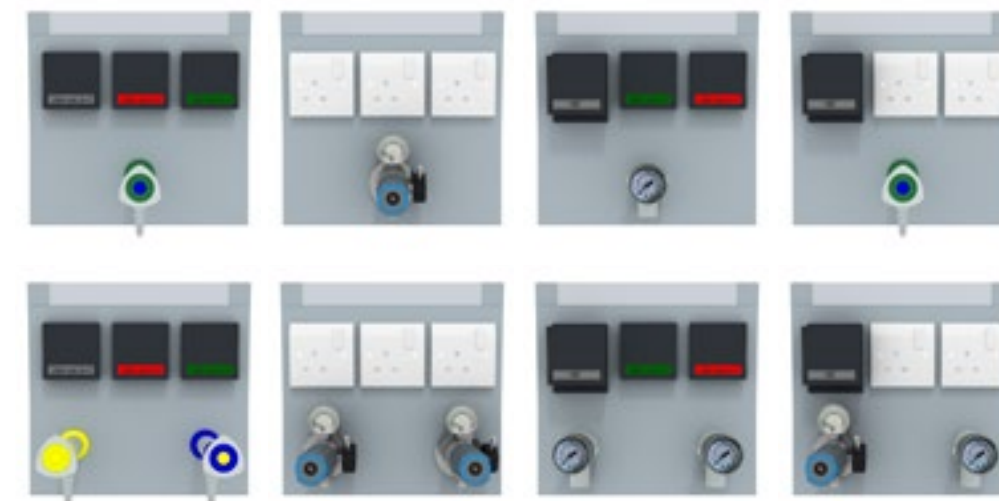
Models



1. Configuration of electrical panels.

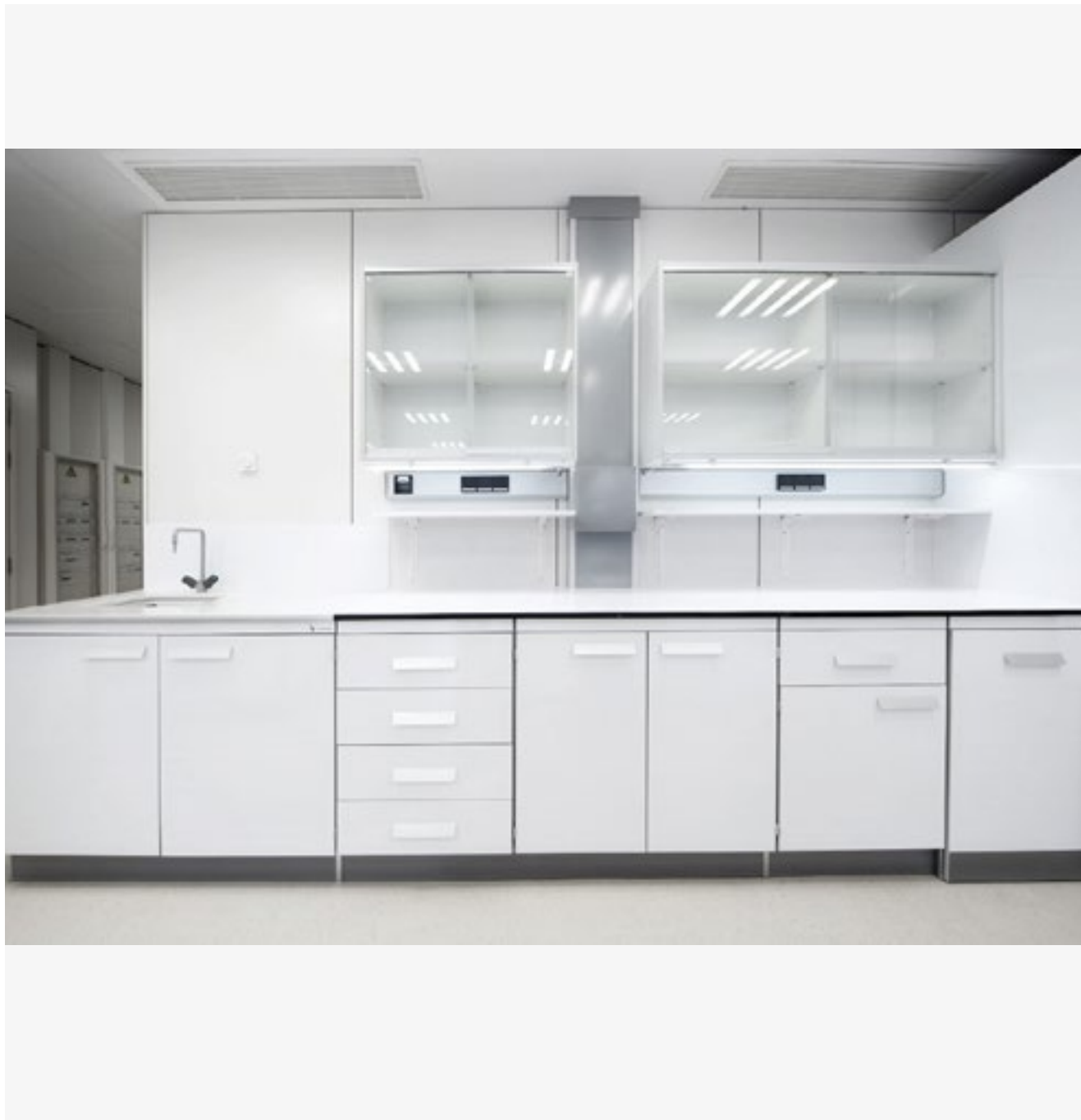


2. Configuration of fluid panels.



3. Possibility of combinations in the same panel.

Electrical services



Application

The BECOME range electrical services can be installed in both electrical conduits or turrets and panels, depending on their use and operation. **Conduit:** Made of an aluminium profile, with the possibility of incorporating 125 V, 220 V and 380 V electrical sockets, making it possible in each case to select unipolar, bipolar or tripolar alternating current, in addition to the possibility of configuring them to resolve the needs of incorporating direct current for computer lines, telecommunication lines, etc., with UNE 20-324-89, UNE 21- 316-74 and UNE 53-315-86. **Turret:** Made of ABS and designed to be fixed directly to the worktop by means of a support. Makes it possible to install up to two sockets per side. Reference Guidelines: UNE 20-324-89, UNE 21-316-74 and UNE 53-315-86.

Models



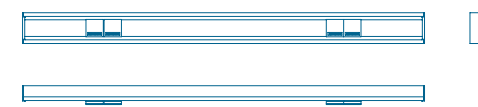
1. Conduit



2. Turret

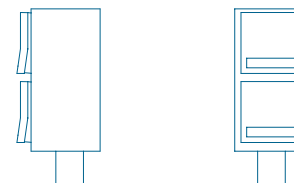
Drawings

Sizes of electrical conduits

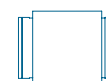
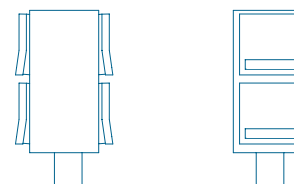


Sizes of SINGLE electrical turrets

SIMPLE



DOUBLE



Electric sockets

Socket voltage, BUR	Socket voltage 230 V - 16 A.
	Socket voltage 230 V - 13 A.
	Computer socket.
	Telephone socket.
MK socket	Voice and data socket.
	13 A MK socket with switch
Magneto	16 A single-phase thermal magnetic circuit breaker.
	16 A three-phase thermal magnetic circuit breaker.
	20 A single-phase thermal magnetic circuit breaker.
	20 A three-phase thermal magnetic circuit breaker.
Socket power	Single-phase power socket (3 poles) 230 V - 16 A.
	Single-phase power socket (3 poles) 230 V - 32 A.
	Three-phase power socket (5 poles) 400 V - 16 A.
	Three-phase power socket (5 poles) 400 V - 32 A.
Start/stop	Start / stop switch.
Berker	16 A, 250 V Berker socket
Displays and control	Fluid control sensor.
	Emergency stop button.

Fluid services



Taps for water

Taps for water with a brass body and EPDM seal that withstands a maximum pressure of 10 bar. Handle with identification code in accordance with EN 13792:2000, made of acid-resistant polypropylene. Acid-resistant epoxy powder coating. Nozzle with the possibility of disassembly in accordance with the DIN 12898 standard. Thread in accordance with the ISO 228/4 standard, class B tolerance in accordance with the DIN 12918 and DIN 12898 standards.

Taps for pure water

Designed so that the water is only in contact with the propylene, never with metals or contaminating materials. The sealing system, made of PP that can be rotated 90°, can operate up to 6 bar pressure. Handle with identification code in accordance with EN 13792:2000, made of acid-resistant polypropylene. Thread in accordance with the ISO 228/1 standard. The taps are manufactured in accordance with the DIN 12918 and DIN 12898 standards. Acid-resistant epoxy powder coating.

Taps for combustible gas

Taps for combustible gas with safety lock. Brass body, ceramic seal with a nitrile gasket. Acid-resistant epoxy powder coating. Maximum working pressure of 7 bar. Nozzle with the possibility of disassembly in accordance with the DIN 12898 standard. Handle with identification code in accordance with EN 13792:2000, made of acid-resistant polypropylene. Thread in accordance with the ISO 228/1 standard, class B tolerance, in accordance with the DIN 12918 standard and approved by DVGW.

Taps for technical gases

Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating. Handle with identification code in accordance with EN 13792:2000, made of acid-resistant polypropylene. Fixed nozzle in accordance with DIN 12898. Thread in accordance with the ISO 228/1 standard, class B tolerance. The taps are manufactured in accordance with the DIN 12918 and DIN 12898 standards. Oxygen and hydrogen taps are lubricated with specific, approved oil.

Taps for instrumental gases with handle

Brass body, fine adjustment valve, PTFE shut-off. Acid-resistant epoxy powder coating. Handle with identification code in accordance with EN 13792:2000, made of acid-resistant polypropylene. Fixed nozzle in accordance with DIN 12898. Thread in accordance with the ISO 228/1 standard, class B tolerance. The taps are manufactured in accordance with the DIN 12918 and DIN 12898 standards. Oxygen and hydrogen taps are lubricated with specific, approved oil.

Taps for technical gases with handle

BS Reducers with a chrome-plated brass body and EPDM seals are intended for distributing pure gases, except corrosive gases, for a second reduction in control and analysis laboratories, when very precise pressure regulation is required. The BS-A model is intended for acetylene.

Models

11012.2 MDS	Water tap on a vertical panel with a 90° outlet.	
11062.2 MDS	L-shaped benchtop water tap with a benchtop mounting.	
11080.2 MDS	Benchtop water tap with swivelling spout	
11081.0 MDS	Benchtop mixer water tap.	
11066.2 MDS	Benchtop mixer water tap with two controls.	
11086.0 MDS	Benchtop mixer water tap with one control.	
11090.0 MDS	Benchtop mixer water tap with one control and a shower option.	
11100.3 MDS	Benchtop mixer water tap with one control and a column.	

1. Taps for water.

11250.2 MDS PP	Pure water tap made of PP.	
11251.0 MDS PP	Pure water recirculation tap made of PP.	

2. Taps for pure water.

12012.0 MDS	Single benchtop combustible gas outlet.	
12011.2 MDS	Double 180° benchtop combustible gas outlet.	
12012.2 MDS	Double 90° benchtop combustible gas outlet.	
12053.2 MDS	Combustible gas outlet on a vertical panel with a 90° outlet.	

3. Taps for combustible gas.

13010.2 MDS	Single benchtop technical gas outlet.	
13011.2 MDS	Double 180° benchtop technical gas outlet.	
13053.2 MDS	Technical gas outlet on a vertical panel with a 90° outlet	

4. Taps for technical gases

Pressure reducer for vertical panel.	
Pressure reducer for vertical panel with fine tuning.	
Single benchtop pressure reducer.	
Single benchtop pressure reducer with fine tuning.	
Pressure reducer for wall.	
Pressure reducer for wall with fine tuning.	

5. Taps for instrumental gases with handle.

Pressure reducer with shut-off valve.	
PDG pressure reducer.	

5. Taps for technical gases with handle.

Lighting



The light fitting is inside an aluminium body with a polycarbonate diffuser. The light fitting has a colour rendering up to CRI94. It has 120 LEDs per metre.

Models



1. Lighting

Drawings

Lighting



Measurements

Table module (mm)	Length of light fitting (mm)
600	540
900	840
1.200	1.140
1.500	1.440
1.800	1.740

Technical characteristics

Electrical output potential	24V
Direct current	950mA/m
Power	15W/m
LED colour temperature	4000K
Copper thickness	30Z
Angle	120°
Static electricity	800V
Working temperature	-20°C - +40°C
IP protection	IP20 not water resistant and IP65 silicone
Number of LEDs/metre	120 LEDs
Regulations	EN 55015, EN 61457, EN 62776, EN 62471 and EN 62384, Directive 2004-108-EC, Directive 2006-95-EC, UL2108, UL8750 and LM 80IESNA (> 97.16%)

Storage in service systems



Application

The configuration of the bench with respect to the storage elements will allow the work area to be well organised, avoiding the presence of unnecessary material, misuses and distractions. The upper part of the bench can be configured with:

Shelves: Range of height-adjustable shelves for mounting on BECOME service system columns. Available in depths of 150-225-300 mm. Support frame in powder-coated steel tube based on polyester resins.

Suspended cabinets: For benchtop or wall mounting, available in configurations of one or two-door blind doors, sliding doors or open doors in white and grey.

Models



1. 2-shelf service system



2. Shelf and cabinet service system



3. Cabinet service system



4. Centre 2-shelf service system



5. Centre shelf and cabinet service system



6. Centre cabinet service system

Materials

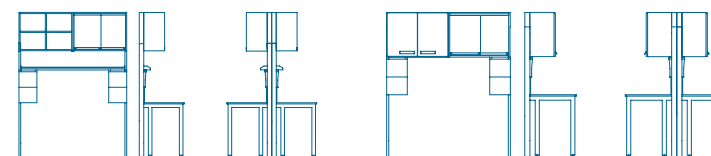
- Shelf: 3 + 3 mm laminated safety glass or 8 mm compact fibreboard.
- Cabinet: Made of particle board covered with decorative paper treated with melamine resins.

Optional accessories

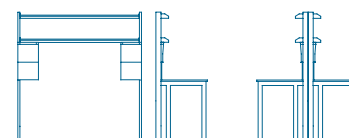
- Scaffold.

Drawings

Cabinets



Shelf



Suspended cabinets

	Dimensions
Width (mm)	600 900 1.200 1.500
Depth (mm)	350
Height (mm)	410 650 800

Shelf

	Dimensions
Width (mm)	600 900 1.200 1.500 1.800
Depth (mm)	150 225 300
Height	Adjustable.

Storage units

Good organisation leads to better working practices: storage modules for chemical products, cabinets designed for storing all types of materials and products.

Units manufactured in accordance with the most demanding standards and designed to combine aesthetics and functionality in managing spaces.

Under-bench storage units

General uses



Fixed modules
P.226



Suspended modules
P.228

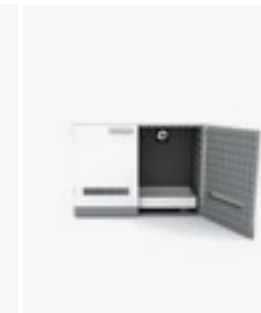


Wheeled modules
P.230

Specific uses



Modules for waste
P.230



Modules for vacuum pumps
P.232



Modules for water purification equipment
P.234



Modules for acids
P.236



Modules for solvents
P.240

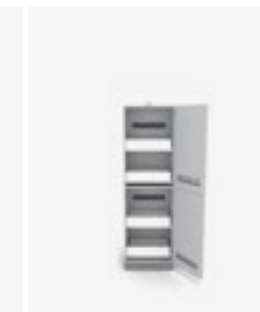
Stand-alone storage units. Cabinets



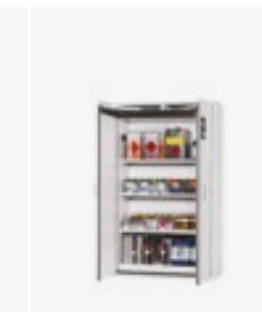
Cabinets for reagents
P.242



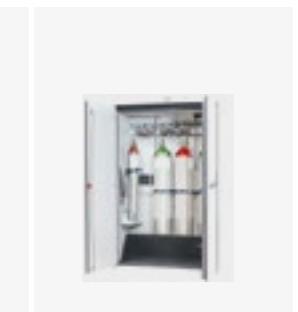
Telescopic cabinets
P.244



Cabinet for acids
P.246



Cabinet for solvents
P.250



Bottle cabinets
P.252

Characteristics

Suitability for use.

We offer a wide range of storage modules to meet laboratory needs, from general storage to safety modules for toxic and/or flammable products.

Advice.

How much, how and where to store each reagent, residue or sample in the laboratory is one of the critical design points for a safe laboratory.

Design.

The meticulous design of every component of storage cabinets and modules meets criteria of ergonomics and safety: Hinges that open 270 °, drawers that can be fully pulled out, intended to promote aseptic conditions and avoid accidents with gloves or lab coats.

Quality and durability.

Very robust handle made of anodised aluminium. Hinges with a metal body with epoxy-polyester paint coating. Drawers with cushioned closing. Detachable fronts for cleaning.

Safety.

Compliance with the applicable regulations for each type of storage guarantees their safety: EN 14727, EN 16121, EN 16122, EN 14470.

Flexibility.

Suspended modules allow longitudinal movement on the bench, while wheeled modules can move freely through the laboratory, reconfiguring the workstation according to your changing needs. Wheeled modules have four nylon wheels, two of which have brakes.

Specific uses.

Every application requires adequate storage. We recommend cabinets made of polypropylene for storing acids, cabinets with fire resistance of 90 min. for storing solvents, soundproofed cabinets for storing equipment with high noise levels, with air renewal by means of forced extraction in all cases in which toxic or flammable compounds are stored.

Range.

Fixed, suspended or wheeled modules that allow us to configure the laboratory according to the needs of each workstation. Wheels for areas where maximum flexibility is required and fixed modules covering the entire lower part of the bench to maximise storage.

General characteristics	Options
<ul style="list-style-type: none"> – Manufactured in 19 mm board with a melamine surface. – Very robust handle in anodised aluminium. – Hinges with 270 ° opening. Metal body with epoxy-polyester paint coating. – Fully removable drawers with metal guides and damped closure: – load capacity of 20 kg. – Maximum load per inner shelf of 20 kg. – Available colours: White and Grey. 	<ul style="list-style-type: none"> – Lock. – 10 mm compact high pressure laminate (HPL) fronts. – 19 mm fire resistant melamine-coated board. – 19 mm water resistant melamine-coated board. – Metal.

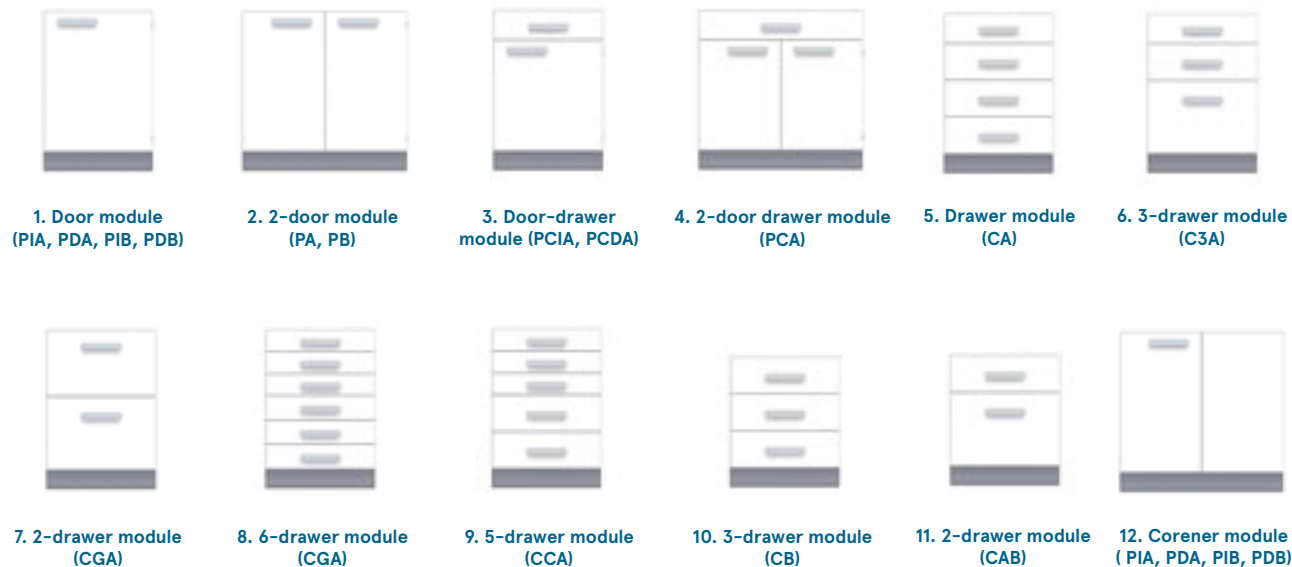


Fixed modules



The range of BECOME modules is designed, manufactured and certified in accordance with EN 14727, EN 16121 and EN 16122. It meets all their requirements, making it an ergonomic, safe product. Socket made of material which is resistant to moisture. It has a height-levelling system and removable rear to facilitate access to the rear.

Models



Finishes

- Melamine.
- Fire resistant melamine
- Water resistant melamine.
- Metal.
- Compact fronts.

Colours

- White.
- Grey.

Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
F-45-PIA	Left door	450	500	880
F-45-PDA	Right door			
F-45-PCIA	Left door - drawer			
F-45-PCDA	Right door - drawer			
F-45-CA	Drawers			
F-45-C3A	3 drawers			
F-45-CGA	2 drawers			720
F-45-PIB	Left door			
F-45-PDB	Right door			
F-45-CB	3 drawers			
F-45-CAB	2 drawers			
F-60-PIA	Left door	600	500	
F-60-PDA	Right door			
F-60-PCIA	Left door - drawer			
F-60-PCDA	Right door - drawer			
F-60-CA	Drawers			
F-60-C3A	3 drawers			
F-60-CGA	2 drawers			
F-60-CCCA	6 drawers			
F-60-CCA	5 drawers			720
F-60-PIB	Left door			

Reference	Model	Dimensions (mm)					
		Width	Depth	Height			
F-60-PDB	Right door	600	500	720			
F-60-CB	3 drawers						
F-60-CGB	2 drawers						
F-90-PA	Doors	900	500	880			
F-90-PCA	Doors - drawer						
F-90-CA	Drawers						
F-90-C3A	3 drawers						
F-90-CGA	2 drawers						
F-90-PB	Doors						
F-90-CB	Drawers			720			
F-90-CGB	2 drawers						
F-120-PA	Doors				1.200	500	880
F-120-CA	Drawers						
F-120-C3A	3 drawers						
F-120-CGA	2 drawers						
F-120-PB	Doors	720					
F-120-CB	Drawers						
F-120-CGB	2 drawers						

Suspended modules



The range of + modules is designed, manufactured and certified in accordance with EN 14727, EN 16121 and EN 16122. It meets all their requirements, making it an ergonomic, safe product. Suspended furniture allows benches to be moved longitudinally. Its construction system ensures not only smooth sliding but also great solidity.

Models



1. 1-door module
(PIA, PDA, PIB, PDB)



2. 2-door module
(PA, PB)



3. Door-drawer
module (PCIA, PCDA)



4. Doors - drawer
module (PCA)



5. 4-drawer module
(CA)



6. 3-drawer module
(C3A)



7. 2-drawer module
(CGA)



8. 6-drawer module
(CCCA)



9. 5-drawer module
(CCA)



10. 3-drawer module
(CB)



11. 2-drawer module
(CAB)

Finishes

- Melamine.
- Fire resistant melamine
- Water resistant melamine.
- Metal.
- Compact fronts.

Colours

- White.
- Grey.

Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
S-45-C3A	3 drawers	450	500	650
S-45-CA	Drawers			
S-45-CGA	2 drawers			
S-45-PCIA	Left door - drawer			
S-45-PCDA	Right door - drawer			
S-45-PIA	Left door			
S-45-PDA	Right door			
S-45-CAB	2 drawers			490
S-45-CB	3 drawers			
S-45-PIB	Left door			
S-45-PDB	Right door			
S-60-C3A	3 drawers	600	500	650
S-60-CA	Drawers			
S-60-CCA	5 drawers			
S-60-CCCA	6 drawers			
S-60-CGA	2 drawers			
S-60-PCIA	Left door - drawer			
S-60-PCDA	Right door - drawer			
S-60-PIA	Left door			
S-60-PDA	Right door			
S-60-CB	3 drawers			490
S-60-CGB	2 drawers			
S-60-PIB	Left door			
S-60-PDB	Right door			

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
S-90-C3A	3 drawers	900	500	650
S-90-CA	Drawers			
S-90-CGA	2 drawers			
S-90-PA	Doors			
S-90-PCA	Doors - drawer			490
S-90-CB	Drawers			
S-90-CGB	2 drawers			
S-90-PB	Doors			
S-120-C3A	3 drawers	1.200	500	650
S-120-CA	Drawers			
S-120-CGA	2 drawers			
S-120-PA	Doors			
S-120-CB	Drawers			490
S-120-CGB	2 drawers			
S-120-PB	Doors			

Wheeled modules



Models



1 1 door module (PIA, PDA, PIB, PDB)



2 2-door module (PA, PB)



3. Doors - drawer module (PCA)



4. Door-drawer module (PCIA, PCDA)



5. 4-drawer module (CA)



6. 3-drawer module (C3A)



7. 3-drawer module (CB)

Finishes

- Melamine
- Fire resistant melamine
- Water resistant melamine
- Metal
- Compact fronts

Colours

- White
- Grey

Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
R-45-C3A	3 drawers	450	500	750
R-45-CA	Drawers			
R-45-PCIA	Left door - drawer			
R-45-PCDA	Right door - drawer			
R-45-PIA	Left door			
R-45-PDA	Right door			
R-45-CB	3 drawers			590
R-45-PIB	Left door			
R-45-PDB	Right door			

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
R-60-C3A	3 drawers	600	500	750
R-60-CA	Drawers			
R-60-PCIA	Left door - drawer			
R-60-PCDA	Right door - drawer			
R-60-PIA	Left door			
R-60-PDA	Right door			
R-60-CB	3 drawers			590
R-60-PIB	Left door			
R-60-PDB	Right door			
R-90-PA	Doors	900	500	880
R-90-PCA	Doors - drawer			
R-120-PA	Doors	1.200	500	750

The range of BECOME modules is designed, manufactured and certified in accordance with the EN 14727, EN 16121 and EN 16122 standards. It meets all their requirements, making it an ergonomic, safe product. Mobile furniture has nylon wheels with steel support, the front two of which have brakes.

Modules for waste



Storage module designed and certified in accordance with EN 14727, EN 16121 and EN 16122, for safe, ergonomic storage of waste. Models with a hinged door or pull-out door and trolley on wheels to access to the waste container inside. Compact fronts. It is recommended to incorporate a filling warning control system.

Models



1. MR hinged door



2. MR pull-out

Finishes

- Melamine.
- Fire resistant melamine
- Water resistant melamine.
- Metal.
- Compact fronts.

Colours

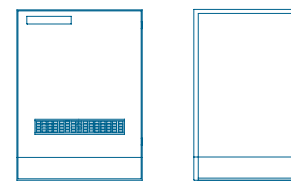
- White.
- Grey.

Accessories

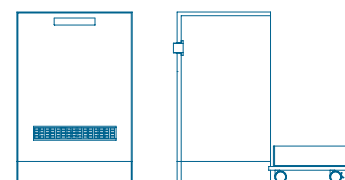
- 10 l / 20 l container.
- Funnel for 10 l PP 4505 container
- Electronic filling control.

Drawings

MR hinged door



MR pull-out



Waste collection system

Waste module	Bottom module adapted for the safe, ergonomic storage of waste. It has a polypropylene (PP) tray, with a rim to contain liquids with dimensions of 445 x 345 x 90 mm.
Drum/container	10 l drum/container made of electro-conductive / non-electro-conductive PE-HD. With UN-Y approval for the transportation of hazardous goods.
Capillary collector cap	Safety cap for waste. To connect capillaries, air filter and indicator level. There are several models depending on needs.
Filter	Air evacuation filter, recommended in the event that the module is not ventilated.
Filling Alarm	Filling alarm control with dial located on the front of the module. Light and acoustic warning.
Connection	Flexible pipes, couplings and shut-off valves made of conductive material (PE-EL) or PTFE.

Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
RE-60-E	Pull-out door	600	500	880
RE-60-E	Pull-out door			810
MRA-MSE-60-PI	Left door	600	500	880
MRA-MSE-60-PD	Right door			
MRA-MCE-54-PI	Left door	535	500	810
MRA-MCE-54-PD	Right door			
MRA-MCE-60-PI	Left door	600	500	810
MRA-MCE-60-PD	Right door			
MRA-MM-60-PI	Left door	600	500	650
MRA-MM-60-PD	Right door			

Modules for vacuum pumps



The range of BECOME modules is designed, manufactured and certified in accordance with EN 14727, EN 16121 and EN 16122. It meets all their requirements, making it an ergonomic, safe product. Interior lined with acoustic insulation foam. This foam panel is 50 mm thick, which allows an average sound absorption coefficient of 65%. It has a thermostat which, when the temperature reaches 35 °C inside the module, activates the fan to avoid overheating. It has ventilation grilles in the doors to encourage good air circulation.

Models



1. MBV PD/PI module



2. MVB P module

Finishes

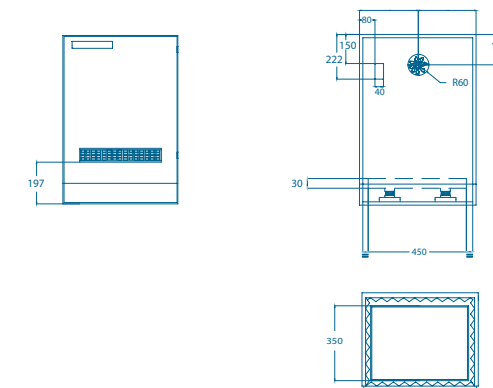
- Melamine.
- Fire resistant melamine.
- Water resistant melamine.
- Metal.
- Compact fronts.

Accessories

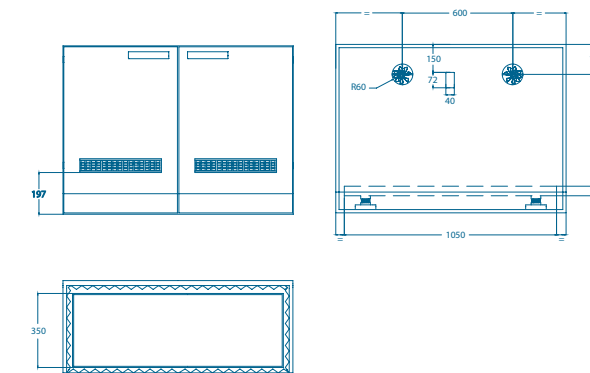
- Interior tray made of PP with metal spring insulators suitable for isolating all types of dynamic equipment from 2 to 25 kg.

Drawings

MBV PD/PI module



MVB P module



Technical data

Reference	Model	Dimensions (mm)				
		Width	Depth	Height		
MBV_MCE-54-PI	Left door	540	500	810		
MBV_MCE-54-PD	Right door					
MBV_MCE-60-PI	Left door					
MBV_MCE-60-PD	Right door					
MBV_MCE-84-P	Doors	835				
MBV_MSE-60-PI	Left door	600	500	880		
MBV_MSE-60-PD	Right door					
MBV_MSE-90-P	Doors	900				
MBV_MSE-120-P	Doors	1.200				
MBV_MM-60-PI	Left door	600	500	650		
MBV_MM-60-PD	Right door					
MBV_MM-90-P	Doors	900				
MBV_MM-120-P	Doors	1.200				

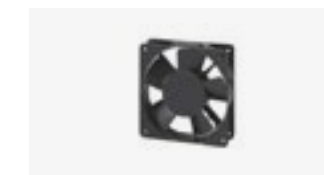
Details / Accessories



Lined



Thermostat



Fan



Damper

Modules for water purification equipment



The range of BECOME modules is designed, manufactured and certified in accordance with EN 14727, EN 16121 and EN 16122. It meets all their requirements, making it an ergonomic, safe product. Made up of 2 blind hinged doors, a polypropylene tray with wheels inside.

Models



1. MP- 117/120



2. MP-147/150 module

Finishes

- Melamine.
- Fire resistant melamine
- Water resistant melamine.
- Metal.
- Compact fronts.

Colours

- White.
- Grey.

Accessories

- Polypropylene tray with wheels.

Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
MP-MCE-117	Doors	1.170	500	820
MP-MCE-147	Doors	1.470		
MP-MSE-120	Doors	1.200	500	880
MP-MSE-150	Doors	1.500		

Modules for acids



The range of BECOME modules is designed, manufactured and certified in accordance with EN 14727, EN 16121 and EN 16122. It meets all their requirements, making it an ergonomic, safe product. Removable storage panel with polypropylene trays with a maximum load of 15 kg. The installation of a forced ventilation system by means of a polypropylene anti-corrosive extraction system is recommended.

Models



1. A27
(PI, PD)



2. A26
(P)

Finishes

- Melamine.
- Fire resistant melamine
- Water resistant melamine.
- Compact fronts.

Colours

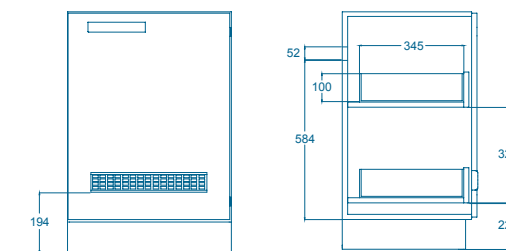
- White.
- Grey.

Accessories

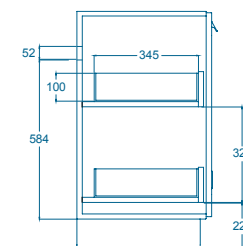
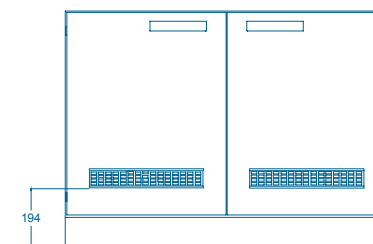
- Extraction equipment.
- Filtration - ventilation box.

Drawings

A27



A26



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
A27-MSE-60-PI	Left door	600	500	880
A27-MSE-60-PD	Right door			
A26-MSE-90-P	Doors	900	500	880
A26-MSE-120-P	Doors	1.200		
A27-MCE-54-PI	Left door	540	500	810
A27-MCE-54-PD	Right door			
A27-MCE-60-PI	Left door	600	500	810
A27-MCE-60-PD	Right door			
A26-MCE-84-P	Doors	840		

Extraction diameter of 50 mm.

Modules for acids made of PP



The range of BECOME modules is designed, manufactured and certified in accordance with EN 14727, EN 16121 and EN 16122. It meets all their requirements, making it an ergonomic, safe product. Made of solid panels and polypropylene components - removable storage panel, with polypropylene buckets with a maximum load of 30 kg. Capacity to retain fluids in the event of spillages. 5 litres. The installation of a forced ventilation system by means of a polypropylene anti-corrosive extraction system is recommended.

Models



1. A27 PP
(PI, PD)



2. A26 PP
(P)

Finishes

- Polypropylene..

Colours

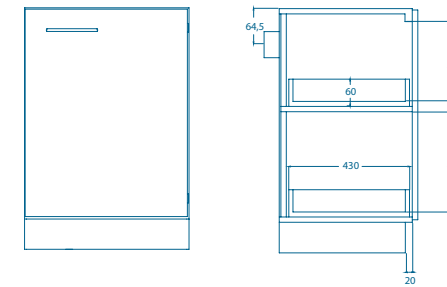
- Grey.

Accessories

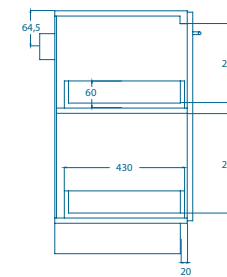
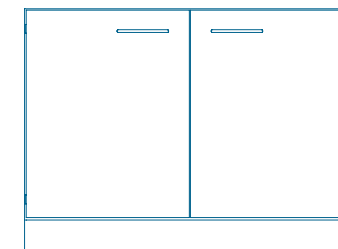
- Extraction equipment.
- Filtration - ventilation box.

Drawings

A27 PP



A26 PP



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
PP A27-MSE-60-PI	Left door	600	500	880
PP A27-MSE-60-PD	Right door			
PP A26-MSE-90-P	Doors	900	500	880
PP A26-MSE-120-P	Doors	1.200		
PP A27-MCE-54-PI	Left door	540	500	810
PP A27-MCE-54-PD	Right door			
PP A27-MCE-60-PI	Left door	600	500	810
PP A27-MCE-60-PD	Right door			
PP A26-MCE-84-P	Doors	840	500	810

Extraction diameter of 75 mm.

Modules for solvents



Models



1. S-30A pull-out drawer



2. S-31/33A with two



3. S-32A with three

Finishes

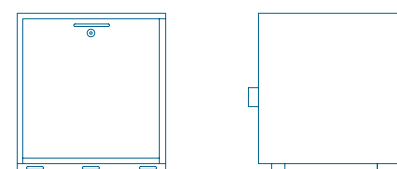
– Metal.

Colours

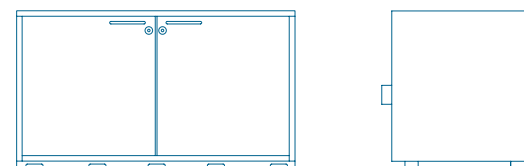
– Grey.

Drawings

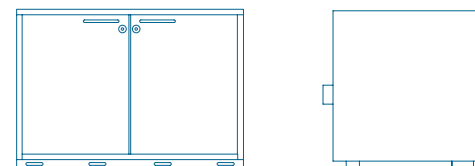
S30



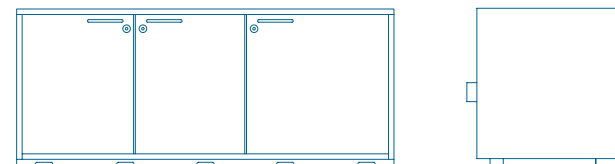
S31



S33



S32



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
S30	Pull-out drawer	600	595	635
S31	2 doors	1.100		
S32	3 doors	1.400		
S33	2 doors	888		

Extraction diameter of 50 mm.

The range of safety cabinets is designed, manufactured and certified in accordance with EN 14727. It meets all their requirements, making it an ergonomic, safe product. Type 90 classification in accordance with EN 14470-1: Fire resistance of 90 min. Metal body made of steel plate with a plastic paint powder coating. Insulating filler composed of several layers of mineral materials Intumescent gaskets for sealing all of the gaps and spaces between the door and the body, which expand in the event of fire and prevent the entry of heat into the cabinet. Series earth connection on the rear wall of the cabinet.

Cabinets for reagents



Models



1. Hinged blind doors



2. Sliding glass doors



3. Hinged glass doors



4. Hinged blind doors and drawers



5. Sliding glass doors and drawers

Finishes

- Melamine.
- Fire resistant melamine
- Water resistant melamine.
- Metal.
- Compact fronts.

Colours

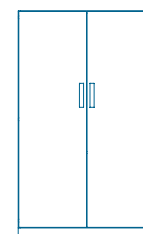
- White.
- Grey.

Optional

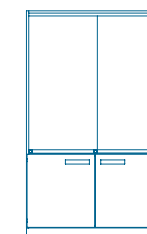
- Overhead cabinet with blind doors and a shelf.
- Ladder with steel rail

Drawings

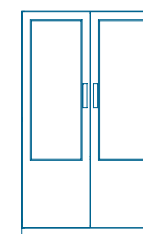
Hinged blind doors



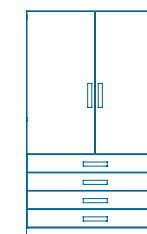
Sliding glass doors



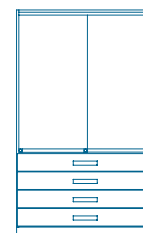
Hinged glass doors



Hinged blind doors and drawers



Sliding glass doors and drawers



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
A-90	Sliding glass doors	900	500	2.010
A-120		1.200		
A-91	Hinged glass doors	900		
A-121		1.200		
A-92	Hinged blind doors	900		
A-122		1.200		
A-93CA	Sliding glass doors and drawers	900		
A-93CGA	Sliding glass doors and 2 drawers			
A-93C3A	Sliding glass doors and 3 drawers			
A-123CA	Sliding glass doors and drawers	1.200		
A-123CGA	Sliding glass doors and 2 drawers			
A-123C3A	Sliding glass doors and 3 drawers			
A-94CA	Hinged blind doors and drawers	900		
A-94CGA	Hinged blind doors and 2 drawers			
A-94C3A	Hinged blind doors and 3 drawers			
A-124CA	Hinged blind doors and drawers	1.200		
A-124CGA	Hinged blind doors and 2 drawers			
A-124C3A	Hinged blind doors and 3 drawers			

The range of BECOME cabinets is designed, manufactured and certified in accordance with EN 14727, EN 16121 and EN 16122. It meets all their requirements, making it an ergonomic, safe product. On versions with glass doors, these are made of 3 + 3 mm b-laminate glass. Socket made of material which is resistant to moisture. Maximum load of 200 kg distributed uniformly. To ensure the safety of the user, the cabinet must be fixed to the structural wall. Load per inner shelf / panel of 20 kg.

Telescopic cabinets



The range of BECOME cabinets is designed, manufactured and certified in accordance with EN 14727, EN 16121 and EN 16122. It meets all their requirements, making it an ergonomic, safe product. Inside there are 2 steel frames that support both the 2 doors and the 5 trays. Fitted with a moisture-resistant baseboard and levellers. Maximum capacity: 150 kg. Maximum load per tray of 13 kg.

Models



1. A-20
Telescopic



2. S-50
RF-90 Telescopic



3. S-51
RF-90 Telescopic

Finishes

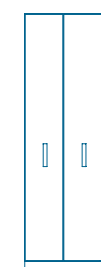
- Melamine.
- Fire resistant melamine
- Water resistant melamine.
- Metal.
- Compact fronts.

Colours

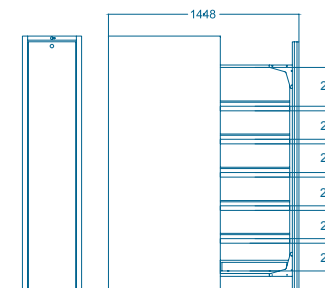
- White.
- Grey.

Drawings

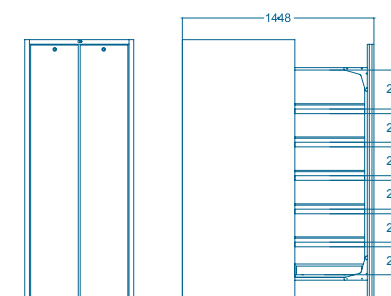
A-20 Telescopic



S-50 Telescopic 90 min.



S-51 Telescopic 90 min.



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
A-20	Telescopic cabinets	600	550	2.010
S-50	Telescopic safety cabinet with fire resistance of 90 minutes	449	860	1.966
S-51	Telescopic safety cabinet with fire resistance of 90 minutes	819		

Technical characteristics S50, S51

Frame: Stable, high quality, scratch-proof body that has been coated in epoxy.

Lock: Electronic by means of a button. Automatic lock after approx. 60 seconds. Acoustic and visual signal before locking.

Drawers: Vertical drawers that provide both ease of viewing and access to stored containers.

Use not authorised:

1. Lockable vertical drawers with cylinder lock.
2. Indicator showing status of locking (red/green).

Installation: Adjustable feet.

Ventilation: DN75 air ducts integrated in order to connect to a forced ventilation system.

Weight: Empty cupboard 500 kg.

Cabinet for acids



Models



1. A25

Finishes

- Melamine.
- Fire resistant melamine
- Water resistant melamine.
- Metal.
- Compact fronts.

Colours

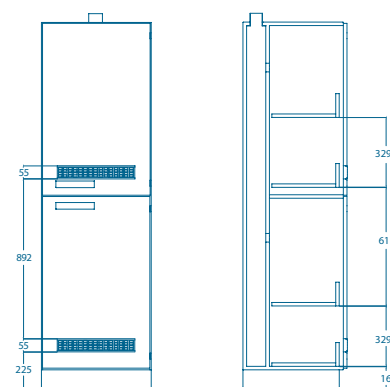
- White.
- Grey.

Accessories

- Extraction equipment.
- Filtration - ventilation box.

Drawings

A25



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
A25I	Doors	600	570	2.010
A25D	Doors			

The range of BECOME cabinets is designed, manufactured and certified in accordance with EN 14727, EN 16121 and EN 16122. It meets all their requirements, making it an ergonomic, safe product. Removable storage shelf with polypropylene trays with a maximum load of 15 kg. The installation of a forced ventilation system by means of a polypropylene anti-corrosive extraction system is recommended.

Cabinet for acids made of PP



Models



1. A25 PP

Finishes

- Polypropylene.

Colours

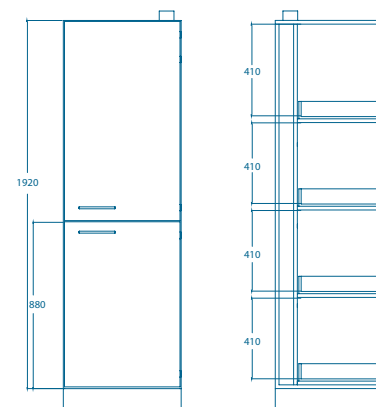
- Grey.

Accessories

- Extraction equipment.
- Filtration - ventilation box.

Drawings

A25



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
PP A25I	Doors	600	570	2.010
PP A25D	Doors			

The range of cabinet modules is designed, manufactured and certified in accordance with EN 14727.

It meets all their requirements, making it an ergonomic, safe product. Made of solid panels and polypropylene components - removable storage panel, with polypropylene buckets with a maximum load of 30 kg. Capacity to retain fluids in the event of spillages, 5 litres. The installation of a forced ventilation system by means of a polypropylene anti-corrosive extraction system is recommended.

Cabinet for solvents

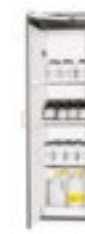


The range of safety cabinets is designed, manufactured and certified in accordance with EN 14470. It meets all their requirements, making it an ergonomic, safe product. Type 90 classification in accordance with EN 14470-1: Fire resistance of 90 min. Metal body made of steel plate with a plastic paint powder coating. Insulating filler composed of several layers of mineral materials. Intumescent gaskets for sealing all of the gaps and spaces between the door and the body, which expand in the event of fire and prevent the entry of heat into the cabinet. Series earth connection on the rear wall of the cabinet.

Models



1. S-40A/42A with two doors



2. S-41A with one door

Finishes

- Metal..

Colours

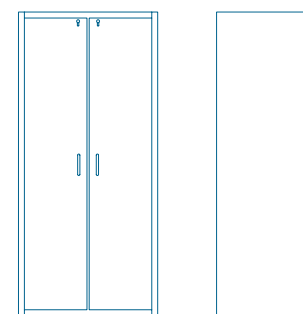
- Grey.

Accessories

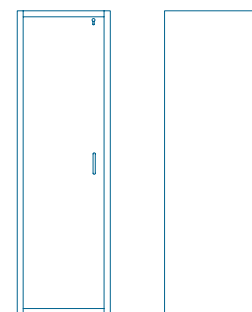
- Extraction equipment.
- Filtration - ventilation box.

Drawings

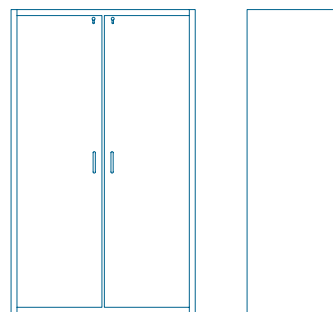
S-40A with two doors



S-41A with one door



S-42A with two doors



Technical data

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
S40	2 doors	895	595	2.080
S41	Door	595		
S42	2 doors	1195		

Extraction diameter of 75 mm.

Details / Accessories



Recirculation system with filter

Bottle cabinet



Models



1. S60 door



2. S70 door

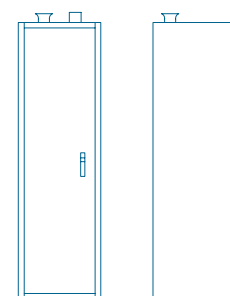
Finishes

– Metal..

Colours

– Grey.

Drawings



Technical data

Reference	Model	Dimensiones (mm)		
		Width	Depth	Height
S60	Door	598	615	2.050
S70	2 doors	1.198	615	2.050

References S-61 and S-71 have an extraction diameter of 75 mm.
 (*) Available models S61 and S71 with peephole and without fire resistance of 90 minutes.

Range of safety cabinets designed and manufactured in accordance with EN 14470 and APQ 5, with resistance to fire of 90 minutes. Safety cabinet with hinged doors for storing pressurised cylinders. Outer sides made of metal panels and coated with epoxy paint. Doors open up to 180 degrees. Doors with semiautomatic closing system by elastic force and a roll-in type flap. Clamping bracket for 1 bottle with a fastening strap included. Optional side bottle holder and/or tray for storing small bottles.

Other accessories

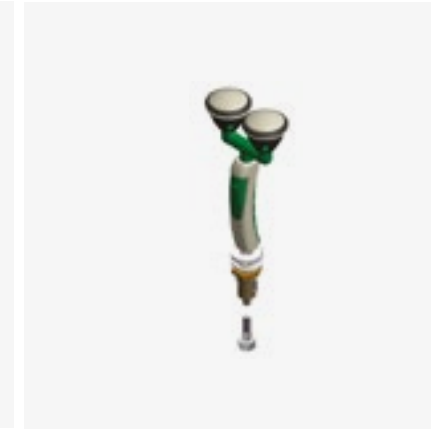
The incorporation of simple accessories on the workstation will make it easier for the user to carry out the activity.

This chapter includes a small sample of the accessories available. For further details, please contact us.

Range of accessories



Showers
P.256



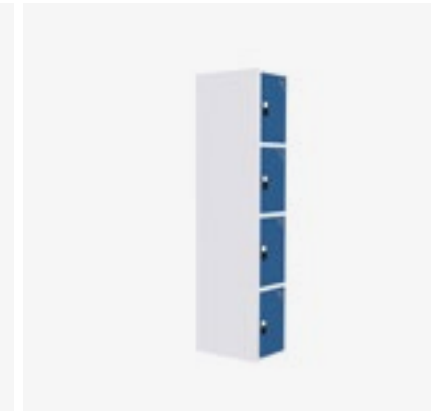
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Emergency showers and eye washes



Application

In areas where aggressive or flammable liquids are handled, there is always the risk of an accident. Showers and eye washes are the first emergency measure, being compulsory in many work areas in accordance with the Law on Occupational Risk Prevention and the Chemical Products Storage Regulation. It is important for showers and eye washes to be located in areas close to points of risk.

Safe product

Emergency showers and eye washes designed in accordance with UNI 9608, UNI 10271, DIN 12899 part 2, ANSI Z 358.1/2004 and EN 15154/1. The design and materials used ensure an appropriate flow rate and good water quality and facilitate the decontamination and cleaning of showers and eye washes.

Models



1. Wall-mounted shower



2. Floor-mounted



3. Floor-mounted shower and eye washes



4. Worktop eye wash



5. Double eye wash

Technical Characteristics

Models	Shower	Eye washes	Double eye wash
Material	Brass, ABS and steel.	Brass, ABS, steel and EPDM joint.	
Coating	Antacid epoxy powder and nickel.		
Pressure test	9 bar/air.		
Maximum working pressure.	10 bar.	5bar.	
Limited flow rate	50l/min.	7l/min.	14l/min.
Working temperature range	0-70°.		

Accessories for washing units



Application

The washing unit is an important area in the laboratory, as it is a decontamination post. There are many accessories that make this unit an efficient, tidy workstation that makes it easy to carry out the activity to be performed in it:

- **Splash protection divider:** Made of 5 mm compact or 6 mm glass, it prevents the contamination of adjacent areas while maintaining total visibility.
- **Drying racks:** Draining support rack made up of a 4 mm thick plate in a single piece and 72 holes in a blind bottom for inserting the corresponding pins to prevent any kind of leakage and eliminate the danger of biological contamination.
- Soap dispenser - Paper dispenser

Models



1. Drying racks



2. Divider panel



3. Tork paper dispenser



4. Tork soap dispenser

Technical characteristics of the drying racks

Dimensions (mm)	450x630x110
No. of pins	72
LxØ (mm)	95x15
Material	High impact polystyrene (PS).
Range of use	-10°C a +70 (80)°C.

Sterilisation

Raw material	Self-cleaning(*)	Gas (ethylene oxide)	Dry at +160 °C	Chemical (in Formalin)	Gamma radiation	Microwaves
High impact polystyrene (PS)	NO	YES	NO	YES	YES	NO

(*)Washing: Only use neutral cleaning products (pH7).

Characteristics of the divider panel

Properties	Dimensions
Width (mm)	900 1.800
Height (mm)	300
Colour	White
Material	6 mm compact. Bilaminate glass.

Characteristics of the paper dispenser

Properties	Dimensions
Width (mm)	174
Depth (mm)	165
Height (mm)	321
Colour	White
Material	Plastic

Characteristics of the paper dispenser

Properties	Dimensions
Width (mm)	112
Depth (mm)	114
Height (mm)	206
Colour	White
Material	Plastic

Lockers



Application

The lockers have sturdy doors made of top quality 7/10 thick cold rolled steel sheet, and their finish is achieved by the electrostatic application of a layer of epoxy-polyurethane powder. In order to improve their aesthetics, the hinges are hidden inside. Designed for activities in which it is necessary to use specific clothing which is likely to get dirty. It also has the option of a key lock and a label holder.

Models



1. 1-compartment locker



2. 2-compartment locker



3. 3-compartment locker



4. 4-compartment locker

Materials

- Cold-rolled sheet steel.
- Finish: epoxy-polyurethane.

Colours

- Door: RAL 5015 blue, RAL 7012 black, RAL 1023 yellow.
- Frame: RAL 7035 grey.

Characteristics of the lockers

- Cabinet body and door made of 0.8 mm thick DC01 top quality AP02 cold rolled sheet steel, in accordance with EN-10130-A1.
- The cabinets are MONOBLOCK, spot welded on an automatic machine, which confers great stability and structural strength that complies with the UNE 11016:1989 and UNE 11017:1989 standards.
- The final folds are flattened to prevent sharp edges that may provide a danger of getting cut.
- The doors open 120 ° with hidden hinges.
- The vents are in accordance with French standard NF D 65-760, which specifies that the area must be 60 cm² for proper ventilation.

Technical data

Properties	Dimensions
Width (mm)	300
Depth (mm)	500
Height (mm)	1.800

Shelving



Application

Metal modular shelving made up of shelves with a rear limit stop (adjustable every 25 mm in height), connected by four hooks to the pillars protected with plastic feet. Frame reinforced with a longitudinal and transversal bracing system.

- Modules: 800, 900, 1000, 1200, 1250 and 1350 mm.
- Depths: 300, 350, 400, 500 and 600 mm.
- Height: 1200, 1500, 1850, 2000, 2150 and 2450 mm.
- Finish: Epoxy-polyester.
- RAL 7035 grey (specify a RAL colour for other combinations).
- Reaction and resistance to fire: A2 – s1, d0 (NF EN 13501-1).

Models



1. Shelving

Finish

– Epoxy-polyurethane.

Colours

– RAL 7035 grey (specify a RAL colour for other combinations).

Technical data

Dimensions	
Modules	800 900 1.000 1.200 1.250 1.350
Depths (mm)	300 350 400 500 600
Height (mm)	1.200 1.500 1.850 2.000 2.150 2.450
Reaction and resistance to fire	A2 – s1, d0 (NF EN 13501-1)

Depth F	Dimensions									
	800 (797) L		900 (897) L		1.000 (967) L		1.200 (1.167) L 1.250 (1.217) L		1350 (1317) L	
	Sag (mm)	Kg	Sag (mm)	Kg	Sag (mm)	kg	Sag (mm)	kg	Sag (mm)	kg
290	4	110	4	100	5	90	6	80	6,5	75
355	4	110	4	100	5	90	6	80	6,5	75
390	4	110	4	100	5	90	6	80	6,5	75
500 (1 longitudinal reinforce-)	4	200	4	185	5	185	6	150	Consult the factory	
600 (1 longitudinal reinforce-)	4	200	4	185	5	185	6	150		

Chairs and stools



Application

Depending on the work space and the function to be carried out, there are different types of chairs and

Models



1. T02 4. T03 5. T04 8. T05 7. T06 3. T07 2. T09 6. T010

Stools

- Fixed / height-adjustable.
- With or without a backrest.
- Choice of materials and colours.

Chairs

- Fixed / height-adjustable.
- With or without armrests.
- Choice of materials and colours.

Technical characteristics

T02 fixed chair	5-legged stool with metal frame made of 22 x 1.5 mm rounded steel tube coated with epoxy paint. Height-adjustable. Footrest made of Ø 16 x 1.5 mm steel tube, chrome-plated to avoid abrasion and wear due to people supporting their feet on the hoop. Ø 30 cm round black injection-moulded polypropylene seat with a textured feel and round seat materials. - Minimum seat height of 63 cm. - Maximum seat height of 77 cm.	T0-6 stool with backrest	Ergonomic swivel stool with automatic height adjustment. Backrest adjustment system by means of permanent contact, with locking in any position and independent adjustment of the height and separation of the backrest from the seat. Seat and backrest made of injection-moulded plastic with anatomical shapes, covered with injection-moulded foam with a density of 40 kg. Both the seat and backrest are covered with an injection-moulded protective casings and plastic trim. Fastenings to the seat mechanism are made with M6 bolts on four-point metal nuts. This model is equipped with a chrome-plated double-spoke nylon footrest. - Minimum seat height of 55 cm. - Maximum seat height of 73 cm. - Minimum backrest height of 95 cm. - Maximum backrest height of 114 cm.
T03 fixed chair	4-legged fixed chair with a chassis with a diameter of 25 x 1.5 mm. Seat and backrest made of injection-moulded plastic with anatomical shapes, covered with foam with a density of 30 kg on the seat and 25 kg on the backrest. Both the seat and backrest are covered with an injection-moulded protective casing and plastic trim.	T07 polyurethane stool	Swivel stool with automatic height adjustment, and with high-density expanded polyurethane seat and backrest on rigid wood-based supports. Its non-upholstered finish allows comfortable, fast cleaning and maintenance. Backrest adjustment by means of an oscillating leaf spring with independent adjustment of the backrest height and its separation from the seat. This model is equipped with a chrome-plated double-spoke nylon footrest. - Minimum seat height of 51 cm. - Maximum seat height of 70 cm. - Minimum backrest height of 82 cm. - Maximum backrest height of 101 cm.
T04 gas chair	Swivel chair with automatic height adjustment. Backrest adjustment system by means of permanent contact, with locking in any position and independent adjustment of the height and separation of the backrest from the seat. Seat and backrest made of injection-moulded plastic with anatomical shapes, covered with injection-moulded foam with a density of 40 kg. Both the seat and backrest are covered with an injection-moulded protective casings and plastic trim. Fastenings to the seat mechanism are made with M6 bolts on four-point metal nuts. - Minimum seat height of 48 cm. - Maximum seat height of 61 cm. - Minimum backrest height of 90 cm. - Maximum backrest height of 102 cm.	T0-9 backless stool	Swivel stool with a black injection-moulded polyurethane seat and automatic height adjustment and footrest ring. They are particularly suitable for harsh conditions of use due to their resistance and easy maintenance. - Minimum seat height of 51 cm. - Maximum seat height of 70 cm.
T0-5 gas chair with armrests	Ergonomic swivel chair with nylon armrests and automatic height adjustment. Backrest adjustment system by means of permanent contact, with locking in any position and independent adjustment of the height and separation of the backrest from the seat. Seat and backrest made of injection-moulded plastic with anatomical shapes, covered with injection-moulded foam with a density of 40 kg. Both the seat and backrest are covered with an injection-moulded protective casings and plastic trim. Fastenings to both the seat mechanism and armrests are made with M6 bolts on four-point metal nuts. - Minimum seat height of 48 cm. - Maximum seat height of 61 cm. - Minimum backrest height of 90 cm. - Maximum backrest height of 102 cm.	T0-10 backless stool	Swivel stool with automatic height adjustment, round seat in 47 kg density sponge-coated chipboard. Equipped with a high gas content by means of a gas cartridge in accordance with DIN 4550 class 3 and a chrome-plated footrest ring with nylon and fibreglass spokes, it is height-adjustable and equipped with a quick lever fixing system. It has four 50 mm diameter injection-moulded nylon wheels with a white tread, requirements that meet the DIN EN 12529 standard. This model is equipped with a chrome-plated double-spoke nylon footrest. - Minimum seat height of 53 cm. - Maximum seat height of 72 cm.

Scaffold



Application

A scaffold is used in laboratories for many applications. On benches and fume cupboards, it allows customisable assembly and simple installation.

Scaffold for benches

The bar system for benches is made up of \varnothing 12 mm and \varnothing 13 mm stainless steel rods joined together by special DURAL chromium-coated alloy nuts to create a grid. Its dimensions depend on the bench model on which it is mounted.

Scaffold for fume cupboards

The bar system for fume cupboards is made up of \varnothing 12 mm polyester and fibreglass rods joined together by special DURAL chromium-coated alloy nuts to create a grid. The rods are made of a non-rusting material, which has a high resistance to chemical attack. Various types of bar systems are available depending on the type and module of the fume cupboard.

Maximum load: 5 kg maximum static load per support at a distance of 100 mm from the support.
Higher support loads on the worktop.

Sludge decanter



Application

The decanter is a circular tank where particles in suspension or sludge are separated from the water. They are concentrated and extracted from the bottom while the clarified water overflows via the upper periphery of the equipment for its subsequent reuse. Decanters and thickeners are specially designed to achieve high performance in the sedimentation process of suspended solids present in the circulating water flow.

The first step in the total recovery of water and the elimination of the sludge it contains is the concentration of the sludge. In order to separate suspended particles and sediments, this is the solution required to purify and recover the water used in the washing processes that generate

List of codes

Fume cupboards

Fume cupboards for general

Code	Description
ELITE fume cupboards	
VGELITE12	Elite fume cupboard - 1200 mm
VGELITE15	Elite fume cupboard - 1500 mm
VGELITE18	Elite fume cupboard - 1800 mm
VGELITE21	Elite fume cupboard - 2100 mm
VGELITE24	Elite fume cupboard - 2400 mm
ELITE Low fume cupboards	
VGELITELOW12	Elite Low fume cupboard - 1200 mm
VGELITELOW15	Elite Low fume cupboard - 1500 mm
VGELITELOW18	Elite Low fume cupboard - 1800 mm
VGELITELOW21	Elite Low fume cupboard - 2100 mm
VGELITELOW24	Elite Low fume cupboard - 2400 mm
ST fume cupboards	
VGBST12	ST fume cupboard - 1200 mm
VGBST15	ST fume cupboard - 1500 mm
VGBST18	ST fume cupboard - 1800 mm
VGBST21	ST fume cupboard - 2100 mm
VGBST24	ST fume cupboard - 2400 mm
ST Low fume cupboards	
VGBSTLOW12	ST Low fume cupboard - 1200 mm
VGBSTLOW15	ST Low fume cupboard - 1500 mm
VGBSTLOW18	ST Low fume cupboard - 1800 mm
VGBSTLOW21	ST Low fume cupboard - 2100 mm
VGBSTLOW24	ST Low fume cupboard - 2400 mm
Green Cycle fume cupboards	
VGBGC15	Green Cycle fume cupboard - 1500 mm
VGBGC18	Green Cycle fume cupboard - 1800 mm
VGBGC22	Green Cycle fume cupboard - 2200 mm

Code	Description
M fume cupboards	
VGBM12	M fume cupboard 1200 mm
VGBM15	M fume cupboard 1500 mm
VGBM18	M fume cupboard 1800 mm
VGBM21	M fume cupboard 2100 mm
VGBM24	M fume cupboard 2400 mm
W fume cupboards	
VGBW15	W fume cupboard 1500 mm
VGBW18	W fume cupboard 1800 mm
VGBW21	W fume cupboard 2100 mm
VGBW24	W fume cupboard 2400 mm
VGBW27	W fume cupboard 2700 mm

Fume cupboards for specific

Code	Description
AC / ACL fume cupboards	
VGBAC15	Fume Cupboard for Acids 1500 mm
VGBAC18	Fume Cupboard for Acids 1800 mm
VGBACL15	Fume Cupboard for Acids 1500 mm for scrubber
VGBACL18	Fume Cupboard for Acids 1800 mm for scrubber
ACF / ACFL fume cupboards	
VGBACF15	Fume Cupboard for Hydrofluoric Acid 1500 mm
VGBACF18	Fume Cupboard for Hydrofluoric Acid 1800 mm
VGBACFL15	Fume Cupboard for Hydrofluoric Acid 1500 mm for scrubber
VGBACFL18	Fume Cupboard for Hydrofluoric Acid 1800 mm for scrubber

B fume cupboards for perchloric acid

VGBPerclórico15	Fume Cupboard for Perchloric Acid 1500 mm
VGBPerclórico18	Fume Cupboard for Perchloric Acid 1800 mm
D fume cupboards	
VGBD15	Fume Cupboard for Solvents 1500 mm
VGBD18	Fume Cupboard for Solvents 1800 mm
RB fume cupboards	
VGBRB15	Fume Cupboard for Beta Radioisotopes 1500 mm
RG fume cupboards	
VGBRG15	Fume Cupboard for Gamma Radioisotopes 1500 mm
IKASI fume cupboards	
VG_IKASI	IKASI Fume Cupboard for teaching 1000 mm

Fume cupboards: accessories

Code	Description
Accessories	
AVG_MG	Sash Motorisation
AVG_Easy	VAV Easy Control
AVG_HAKA	VAV HAKA Control
AVG_EO25	EO25
AVG_RE	SCAT waste collection system.
AVG_DD	Solvent Dispensation System
AVG_SAS	SAS pass box
AVG_VC	Communication window
AVG_F	Filter
AVG_Lc54	Scrubber
AVG_Lc54	Scrubber
AVG_N	Neutraliser
Services	
GFVMD-BA	Instrumental gas tap with remote control for Breathable Air
GFVMD-CA	Instrumental gas tap with remote control for Compressed Air
GFVMD-G	Combustible gas tap with remote control for Natural Gas
GFVMD-N2	Instrumental gas tap with remote control for Nitrogen
GFVMD-O2	Instrumental gas tap with remote control for Oxygen
GFVMD-SA	Instrumental gas tap with remote control for Synthetic Air
GFVMD-WDI	Water tap with remote control for Distilled Water
GFVMD-WPC	Water tap with remote control for Cold Potable Water
MRMD-Ar	Pressure reducers for instrumental gases for Argon
MRMD-BA	Pressure reducers for instrumental gases for Breathable Air
MRMD-C2H2	Pressure reducers for corrosive gases for Acetylene
MRMD-C2H4	Pressure reducers for instrumental gases for Ethylene
MRMD-C3H6	Pressure reducers for instrumental gases for Propylene
MRMD-CA	Pressure reducers for instrumental gases for Compressed Air
MRMD-CH4	Pressure reducers for instrumental gases for Methane
MRMD-CO	Pressure reducers for instrumental gases for CO
MRMD-CO2	Pressure reducers for instrumental gases for CO2
MRMD-Disp	Pressure reducers for available instrumental gases
MRMD-G	Pressure reducers for instrumental gases for Natural Gas
MRMD-H2	Pressure reducers for corrosive gases for Hydrogen
MRMD-HE	Pressure reducers for instrumental gases for Helium
MRMD-LPG	Pressure reducers for instrumental gases for Propane / Butane

MRMD-N2	Pressure reducers for instrumental gases for Nitrogen
MRMD-N2O	Pressure reducers for instrumental gases for NO2
MRMD-NH3	Pressure reducers for instrumental gases for Ammonia
MRMD-NO	Pressure reducers for instrumental gases for NO
MRMD-O2	Pressure reducers for corrosive gases for Oxygen
MRMD-SA	Pressure reducers for instrumental gases for Synthetic Air
MRMD-V	Pressure reducers for instrumental gases for Vacuum
AVG_P	Sink
SH16A	230 V-16 A Socket - White
SH16SAI	230 V-16 A Socket - Red
SH16E	230 V-16 A Socket - Green
SH16A_BE	230 V-16 A Socket - White with external button pad
SH16SAI_BE	230 V-16 A Socket - Red with external button pad
SH16E_BE	230 V-16 A Socket - Green with external button pad
MG20AT	16 A single-phase thermal magnetic circuit breaker

Storage

VG54_PD	MV-540PD module - 535 x 500 x 635 mm - B
VG54_PI	MV-540PI module - 535 x 500 x 635 mm - B
VG60_PD	MV-600PD module - 600 x 500 x 635 mm - B
VG60_PI	MV-600PI module - 600 x 500 x 635 mm - B
VG60_C3A	MV-60C3A module - 600 x 500 x 635 mm - B
VG84_P	MV-840P module - 835 x 500 x 635 mm - B
VG-54-PI	Under-bench module, left door 540 x 500 x 635 mm
VG-54-PD	Under-bench module, right door 540 x 500 x 635 mm
VG-60-PI	Under-bench module, left door 600 x 500 x 635 mm
VG-60-PD	Under-bench module, right door 600 x 500 x 635 mm
VG-84-P	Under-bench module, doors 840 x 500 x 635 mm
A27-VG-54-PI	Module for acids, left door 540 x 500 x 635 mm
A27-VG-54-PD	Module for acids, right door 540 x 500 x 635 mm
A27-VG-60-PI	Module for acids, left door 600 x 500 x 635 mm
A27-VG-60-PD	Module for acids, right door 600 x 500 x 635 mm
A26-VG-84-P	Module for acids, doors 840 x 500 x 635 mm
PP A27-VG-54-PI	PP module for acids, left door 540 x 500 x 635 mm
PP A27-VG-54-PD	PP module for acids, right door 540 x 500 x 635 mm

PP A27-VG-60-PI	PP module for acids, left door 600 x 500 x 635 mm
PP A27-VG-60-PD	PP module for acids, right door 600 x 500 x 635 mm
PP A26-VG-84-P	PP module for acids, doors 840 x 500 x 635 mm
S-30	Safety cabinet with pull-out drawer of 600 x 595 x 635 mm
S-31	Safety cabinet with 2 doors of 1100 x 595 x 635 mm
S-32	Safety cabinet with 3 doors of 1400 x 595 x 635 mm
S-33	Safety cabinet with 2 doors of 888 x 595 x 635 mm
MRA-VG-54-PI	Module for waste, left door 535 x 500 x 635 mm
MRA-VG-54-PD	Module for waste, right door 535 x 500 x 635 mm
MRA-VG-60-PI	Module for waste, left door 600 x 500 x 635 mm
MRA-VG-60-PD	Module for waste, right door 600 x 500 x 635 mm
MBV_VG-54-PI	Module for vacuum pump, left door 540 x 500 x 635 mm
MBV_VG-54-PD	Module for vacuum pump, right door 540 x 500 x 635 mm
MBV_VG-60-PI	Module for vacuum pump, left door 600 x 500 x 635 mm
MBV_VG-60-PD	Module for vacuum pump, right door 600 x 500 x 635 mm
MBV_VG-84-P	Module for vacuum pump, doors 835 x 500 x 635 mm

Other ventilated items

Code	Description
Enclosures	
CPA-90x75	Hinged door closure 900 x 750 x 1600
CPA-120x75	Hinged door closure 1200 x 750 x 1600
CPA-150x75	Hinged door closure 1500 x 750 x 1600
CPA-90x90	Hinged door closure 900 x 900 x 1600
CPA-120x90	Hinged door closure 1200 x 900 x 1600
CPA-150x90	Hinged door closure 1500 x 900 x 1600
C0-90x75	Sliding door closure 900 x 750 x 1600
C0-120x75	Sliding door closure 1200 x 750 x 1600
C0-150x75	Sliding door closure 1500 x 750 x 1600
C0-90x90	Sliding door closure 900 x 900 x 1600
C0-120x90	Sliding door closure 1200 x 900 x 1600
C0-150x90	Sliding door closure 1500 x 900 x 1600
CG-90x75	Sash closure 900 x 750 x 1600
CG-120x75	Sash closure 1200 x 750 x 1600
CG-150x75	Sash closure 1500 x 750 x 1600
CG-90x90	Sash closure 900 x 900 x 1600
CG-120x90	Sash closure 1200 x 900 x 1600
CG-150x90	Sash closure 1500 x 900 x 1600

Ventilated hood

CE PP 900x600x500	PP trapezoidal extraction hood of 900 x 600 x 500 mm
CE PP 1200x600x500	PP trapezoidal extraction hood of 1200 x 600 x 500 mm
CE PP 1500x600x500	PP trapezoidal extraction hood of 1500 x 600 x 500 mm
CEL PP 900x600x500	PP slatted extraction hood of 900 x 600 x 500 mm CEL PP
CEL PP 1200x600x500	PP slatted extraction hood of 1200 x 600 x 500 mm CEL PP
CEL PP 1500x600x500	PP slatted extraction hood of 1500 x 600 x 500 mm
CE Inox 900x600x500	Stainless steel extraction hood of 900 x 600 x 500 mm
CE Inox 1200x600x500	Stainless steel extraction hood of 1200 x 600 x 500 mm CE Inox
CE Inox 1500x600x500	Stainless steel extraction hood of 1500 x 600 x 500 mm

Atomic absorption hood

CAA 350	350 mm atomic absorption hood
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Aluminium articulated arms for wall mounting

BA75T	Ø 75 mm ceiling mounted aluminium articulated arm with three joints
BA100T	Ø 100 mm ceiling mounted aluminium articulated arm with three joints

Laminar flow cabinets

CFLV_1048	Vertical laminar flow cabinet 1048 x 798 x 1220 mm
CFLV_1353	Vertical laminar flow cabinet 1353 x 798 x 1220 mm
CFLV_1658	Vertical laminar flow cabinet 1658 x 798 x 1220 mm
CFLV_1963	Vertical laminar flow cabinet 1963 x 798 x 1220 mm
CFLH_944	Horizontal laminar flow cabinet 944 x 872 x 1212 mm
CFLH_1249	Horizontal laminar flow cabinet 1249 x 872 x 1212 mm
CFLH_1554	Horizontal laminar flow cabinet 1554 x 872 x 1212 mm
CFLH_1859	Horizontal laminar flow cabinet 1859 x 872 x 1212 mm

Biosafety cabinets

BIOIIA3	Biosafety cabinet 1049 x 759 x 1260 mm
BIOIIA4	Biosafety cabinet 1554 x 759 x 1260 mm
BIOIIA6	Biosafety cabinet 1964 x 759 x 1260 mm

Fans

Code	Description
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Steel centrifugal extractors

CMP-512-2T	Steel centrifugal extractor
CMP-512-4T	Steel centrifugal extractor
CMP-616-2T	Steel centrifugal extractor
CMP-616-4T	Steel centrifugal extractor

CMP-620-2T	Steel centrifugal extractors
CMP-620-4T	Steel centrifugal extractor
CMP-718-2T	Steel centrifugal extractor
CMP-718-4T	Steel centrifugal extractor
CMP-820-2T	Steel centrifugal extractor
CMP-820-4T	Steel centrifugal extractor

Polypropylene centrifugal extractors

CPV-815-4T	Polypropylene centrifugal extractor
CPV-1020-4T	Polypropylene centrifugal extractor
CPV-1325-4T	Polypropylene centrifugal extractor
CPV-1630-4T	Polypropylene centrifugal extractor
CPV-2045-4T	Polypropylene centrifugal extractor
CPV-2045-6T	Polypropylene centrifugal extractor
VSF 14	Polypropylene centrifugal extractor
VSF 23	Polypropylene centrifugal extractor
VSF 30	Polypropylene centrifugal extractor
VSF 35	Polypropylene centrifugal extractor
VSF 42	Polypropylene centrifugal extractor
VSF 24	Polypropylene centrifugal extractor
VSF 25	Polypropylene centrifugal extractor
VSF 20	Polypropylene centrifugal extractor

Benches

Wall bench with frame

Code	Description
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Tall wall bench with frame

M-60A75A	600 x 750 x 900 acrylic wall bench with frame
M-90A75A	900 x 750 x 900 acrylic wall bench with frame
M-120A75A	1200 x 750 x 900 acrylic wall bench with frame
M-150A75A	1500 x 750 x 900 acrylic wall bench with frame
M-180A75A	1800 x 750 x 900 acrylic wall bench with frame
M-60C75A	600 x 750 x 900 compact wall bench with frame
M-90C75A	900 x 750 x 900 compact wall bench with frame
M-120C75A	1200 x 750 x 900 compact wall bench with frame
M-150C75A	1500 x 750 x 900 compact wall bench with frame
M-180C75A	1800 x 750 x 900 compact wall bench with frame

M-60P75A	600 x 750 x 900 post-formed wall bench with frame
M-90P75A	900 x 750 x 900 post-formed wall bench with frame
M-120P75A	1200 x 750 x 900 post-formed wall bench with frame
M-150P75A	1500 x 750 x 900 post-formed wall bench with frame
M-180P75A	1800 x 750 x 900 post-formed wall bench with frame
M-60G75A	600 x 750 x 900 stoneware wall bench with frame
M-90G75A	900 x 750 x 900 stoneware wall bench with frame
M-120G75A	1200 x 750 x 900 stoneware wall bench with frame
M-150G75A	1500 x 750 x 900 stoneware wall bench with frame
M-180G75A	1800 x 750 x 900 stoneware wall bench with frame
M-60V75A	600 x 750 x 900 glass wall bench with frame
M-90V75A	900 x 750 x 900 glass wall bench with frame
M-120V75A	1200 x 750 x 900 glass wall bench with frame
M-150V75A	1500 x 750 x 900 glass wall bench with frame
M-180V75A	1800 x 750 x 900 glass wall bench with frame

Low wall bench with frame

M-60A75B	600 x 750 x 740 acrylic wall bench with frame
M-90A75B	900 x 750 x 740 acrylic wall bench with frame
M-120A75B	1200 x 750 x 740 acrylic wall bench with frame
M-150A75B	1500 x 750 x 740 acrylic wall bench with frame
M-180A75B	1800 x 750 x 740 acrylic wall bench with frame
M-60C75B	600 x 750 x 740 compact wall bench with frame
M-90C75B	900 x 750 x 740 compact wall bench with frame
M-120C75B	1200 x 750 x 740 compact wall bench with frame
M-150C75B	1500 x 750 x 740 compact wall bench with frame
M-180C75B	1800 x 750 x 740 compact wall bench with frame
M-60P75B	600 x 750 x 740 post-formed wall bench with frame
M-90P75B	900 x 750 x 740 post-formed wall bench with frame
M-120P75B	1200 x 750 x 740 post-formed wall bench with frame
M-150P75B	1500 x 750 x 740 post-formed wall bench with frame
M-180P75B	1800 x 750 x 740 post-formed wall bench with frame
M-60G75B	600 x 750 x 740 stoneware wall bench with frame
M-90G75B	900 x 750 x 740 stoneware wall bench with frame
M-120G75B	1200 x 750 x 740 stoneware wall bench with frame

M-150G75B	1500 x 750 x 740 stoneware wall bench with frame
M-180G75B	1800 x 750 x 740 stoneware wall bench with frame
M-60V75B	600 x 750 x 740 glass wall bench with frame
M-90V75B	900 x 750 x 740 glass wall bench with frame
M-120V75B	1200 x 750 x 740 glass wall bench with frame
M-150V75B	1500 x 750 x 740 glass wall bench with frame
M-180V75B	1800 x 750 x 740 glass wall bench with frame

Centre bench with frame

Code	Description
Tall centre bench with frame	
C-60A150A	600 x 1500 x 900 mm acrylic centre bench with frame
C-90A150A	900 x 1500 x 900 mm acrylic centre bench with frame
C-120A150A	1200 x 1500 x 900 mm acrylic centre bench with frame
C-150A150A	1500 x 1500 x 900 mm acrylic centre bench with frame
C-180A150A	1800 x 1500 x 900 mm acrylic centre bench with frame
C-60C150A	600 x 1500 x 900 mm compact centre bench with frame
C-90C150A	900 x 1500 x 900 mm compact centre bench with frame
C-120C150A	1200 x 1500 x 900 mm compact centre bench with frame
C-150C150A	1500 x 1500 x 900 mm compact centre bench with frame
C-180C150A	1800 x 1500 x 900 mm compact centre bench with frame
C-60P150A	600 x 1500 x 900 mm post-formed centre bench with frame
C-90P150A	900 x 1500 x 900 mm post-formed centre bench with frame
C-120P150A	1200 x 1500 x 900 mm post-formed centre bench with frame
C-150P150A	1500 x 1500 x 900 mm post-formed centre bench with frame
C-180P150A	1800 x 1500 x 900 mm post-formed centre bench with frame
C-60G150A	600 x 1500 x 900 mm stoneware centre bench with frame
C-90G150A	900 x 1500 x 900 mm stoneware centre bench with frame
C-120G150A	1200 x 1500 x 900 mm stoneware centre bench with frame
C-150G150A	1500 x 1500 x 900 mm stoneware centre bench with frame
C-180G150A	1800 x 1500 x 900 mm stoneware centre bench with frame
C-60V150A	600 x 1500 x 900 mm glass centre bench with frame
C-90V150A	900 x 1500 x 900 mm glass centre bench with frame

C-120V150A	1200 x 1500 x 900 mm glass centre bench with frame
C-150V150A	1500 x 1500 x 900 mm glass centre bench with frame
C-180V150A	1800 x 1500 x 900 mm glass centre bench with frame

Low centre bench with frame

C-60A150B	600 x 1500 x 740 mm acrylic centre bench with frame
C-90A150B	900 x 1500 x 740 mm acrylic centre bench with frame
C-120A150B	1200 x 1500 x 740 mm centre bench with acrylic frame
C-150A150B	1500 x 1500 x 740 mm centre bench with acrylic frame
C-180A150B	1800 x 1500 x 740 mm centre bench with acrylic frame
C-60C150B	600 x 1500 x 740 mm centre bench with compact frame
C-90C150B	900 x 1500 x 740 mm centre bench with compact frame
C-120C150B	1200 x 1500 x 740 mm centre bench with compact frame
C-150C150B	1500 x 1500 x 740 mm centre bench with compact frame
C-180C150B	1800 x 1500 x 740 mm centre bench with compact frame
C-60P150B	600 x 1500 x 740 mm centre bench with post-formed frame
C-90P150B	900 x 1500 x 740 mm centre bench with post-formed frame
C-120P150B	1200 x 1500 x 740 mm centre bench with post-formed frame
C-150P150B	1500 x 1500 x 740 mm centre bench with post-formed frame
C-180P150B	1800 x 1500 x 740 mm centre bench with post-formed frame
C-60G150B	600 x 1500 x 740 mm centre bench with stoneware frame
C-90G150B	900 x 1500 x 740 mm centre bench with stoneware frame
C-120G150B	1200 x 1500 x 740 mm centre bench with stoneware frame
C-150G150B	1500 x 1500 x 740 mm centre bench with stoneware frame
C-180G150B	1800 x 1500 x 740 mm centre bench with stoneware frame
C-60V150B	600 x 1500 x 740 mm centre bench with glass frame
C-90V150B	900 x 1500 x 740 mm centre bench with glass frame
C-120V150B	1200 x 1500 x 740 mm centre bench with glass frame
C-150V150B	1500 x 1500 x 740 mm centre bench with glass frame
C-180V150B	1800 x 1500 x 740 mm centre bench with glass frame

Wall bench without frame (worktop + skirting board)

Code	Description
Tall wall bench without frame	
M-60A75A-SE	600 x 750 x 900 acrylic wall bench supported on modules
M-90A75A-SE	900 x 750 x 900 acrylic wall bench supported on modules
M-120A75A-SE	1200 x 750 x 900 acrylic wall bench supported on modules
M-150A75A-SE	1500 x 750 x 900 acrylic wall bench supported on modules
M-180A75A-SE	1800 x 750 x 900 acrylic wall bench supported on modules
Compact wall bench without frame	
M-60C75A-SE	600 x 750 x 900 compact wall bench supported on modules
M-90C75A-SE	900 x 750 x 900 compact wall bench supported on modules
M-120C75A-SE	1200 x 750 x 900 compact wall bench supported on modules
M-150C75A-SE	1500 x 750 x 900 compact wall bench supported on modules
M-180C75A-SE	1800 x 750 x 900 compact wall bench supported on modules
Post-formed wall bench without frame	
M-60P75A-SE	600 x 750 x 900 post-formed wall bench supported on modules
M-90P75A-SE	900 x 750 x 900 post-formed wall bench supported on modules
M-120P75A-SE	1200 x 750 x 900 post-formed wall bench supported on modules
M-150P75A-SE	1500 x 750 x 900 post-formed wall bench supported on modules
M-180P75A-SE	1800 x 750 x 900 post-formed wall bench supported on modules
Stoneware wall bench without frame	
M-60G75A-SE	598 x 750 x 900 stoneware wall bench supported on modules
M-90G75A-SE	898 x 750 x 900 stoneware wall bench supported on modules
M-120G75A-SE	1198 x 750 x 900 stoneware wall bench supported on modules
M-150G75A-SE	1498 x 750 x 900 stoneware wall bench supported on modules
M-180G75A-SE	1798 x 750 x 900 stoneware wall bench supported on modules
Glass wall bench without frame	
M-60V75A-SE	600 x 750 x 900 glass wall bench supported on modules
M-90V75A-SE	900 x 750 x 900 glass wall bench supported on modules
M-120V75A-SE	1200 x 750 x 900 glass wall bench supported on modules
M-150V75A-SE	1500 x 750 x 900 glass wall bench supported on modules
M-180V75A-SE	1800 x 750 x 900 glass wall bench supported on modules
Low wall bench without frame	
M-60A75B-SE	600 x 750 x 740 acrylic wall bench supported on modules
M-90A75B-SE	900 x 750 x 740 acrylic wall bench supported on modules
M-120A75B-SE	1200 x 750 x 740 acrylic wall bench supported on modules
M-150A75B-SE	1500 x 750 x 740 acrylic wall bench supported on modules
M-180A75B-SE	1800 x 750 x 740 acrylic wall bench supported on modules

M-60C75B-SE	600 x 750 x 740 compact wall bench supported on modules
M-90C75B-SE	900 x 750 x 740 compact wall bench supported on modules
M-120C75B-SE	1200 x 750 x 740 compact wall bench supported on modules
M-150C75B-SE	1500 x 750 x 740 compact wall bench supported on modules
M-180C75B-SE	1800 x 750 x 740 compact wall bench supported on modules
Post-formed wall bench without frame	
M-60P75B-SE	600 x 750 x 740 post-formed wall bench supported on modules
M-90P75B-SE	900 x 750 x 740 post-formed wall bench supported on modules
M-120P75B-SE	1200 x 750 x 740 post-formed wall bench supported on modules
M-150P75B-SE	1500 x 750 x 740 post-formed wall bench supported on modules
M-180P75B-SE	1800 x 750 x 740 post-formed wall bench supported on modules
Stoneware wall bench without frame	
M-60G75B-SE	598 x 750 x 740 stoneware wall bench supported on modules
M-90G75B-SE	898 x 750 x 740 stoneware wall bench supported on modules
M-120G75B-SE	1198 x 750 x 740 stoneware wall bench supported on modules
M-150G75B-SE	1498 x 750 x 740 stoneware wall bench supported on modules
M-180G75B-SE	1798 x 750 x 740 stoneware wall bench supported on modules
Glass wall bench without frame	
M-60V75B-SE	600 x 750 x 740 glass wall bench supported on modules
M-90V75B-SE	900 x 750 x 740 glass wall bench supported on modules
M-120V75B-SE	1200 x 750 x 740 glass wall bench supported on modules
M-150V75B-SE	1500 x 750 x 740 glass wall bench supported on modules
M-180V75B-SE	1800 x 750 x 740 glass wall bench supported on modules

Centre bench without frame (worktop + skirting)

Code	Description
Tall centre bench without frame	
C-60A150A-SE	600 x 1500 x 900 mm acrylic centre bench supported on modules
C-90A150A-SE	900 x 1500 x 900 mm acrylic centre bench supported on modules
C-120A150A-SE	1200 x 1500 x 900 mm acrylic centre bench supported on modules
C-150A150A-SE	1500 x 1500 x 900 mm acrylic centre bench supported on modules
C-180A150A-SE	1800 x 1500 x 900 mm acrylic centre bench supported on modules
Compact centre bench without frame	
C-60C150A-SE	600 x 1500 x 900 mm compact centre bench supported on modules
C-90C150A-SE	900 x 1500 x 900 mm compact centre bench supported on modules
C-120C150A-SE	1200 x 1500 x 900 mm compact centre bench supported on modules
C-150C150A-SE	1500 x 1500 x 900 mm compact centre bench supported on modules
C-180C150A-SE	1800 x 1500 x 900 mm compact centre bench supported on modules

C-60P150A-SE	600 x 1500 x 900 mm post-formed centre bench supported on modules
C-90P150A-SE	900 x 1500 x 900 mm post-formed centre bench supported on modules
C-120P150A-SE	1200 x 1500 x 900 mm post-formed centre bench supported on modules
C-150P150A-SE	1500 x 1500 x 900 mm post-formed centre bench supported on modules
C-180P150A-SE	1800 x 1500 x 900 mm post-formed centre bench supported on modules
C-60G150A-SE	600 x 1500 x 900 mm stoneware centre bench supported on modules
C-90G150A-SE	900 x 1500 x 900 mm stoneware centre bench supported on modules
C-120G150A-SE	1200 x 1500 x 900 mm stoneware centre bench supported on modules
C-150G150A-SE	1500 x 1500 x 900 mm stoneware centre bench supported on modules
C-180G150A-SE	1800 x 1500 x 900 mm stoneware centre bench supported on modules
C-60V150A-SE	600 x 1500 x 900 mm glass centre bench supported on modules
C-90V150A-SE	900 x 1500 x 900 mm glass centre bench supported on modules
C-120V150A-SE	1200 x 1500 x 900 mm glass centre bench supported on modules
C-150V150A-SE	1500 x 1500 x 900 mm glass centre bench supported on modules
C-180V150A-SE	1800 x 1500 x 900 mm glass centre bench supported on modules

Low centre bench without frame

C-60A150B-SE	600 x 1500 x 740 mm acrylic centre bench supported on modules
C-90A150B-SE	900 x 1500 x 740 mm acrylic centre bench supported on modules
C-120A150B-SE	1200 x 1500 x 740 mm acrylic centre bench supported on modules
C-150A150B-SE	1500 x 1500 x 740 mm acrylic centre bench supported on modules
C-180A150B-SE	1800 x 1500 x 740 mm acrylic centre bench supported on modules
C-60C150B-SE	600 x 1500 x 740 mm compact centre bench supported on modules
C-90C150B-SE	900 x 1500 x 740 mm compact centre bench supported on modules
C-120C150B-SE	1200 x 1500 x 740 mm compact centre bench supported on modules
C-150C150B-SE	1500 x 1500 x 740 mm compact centre bench supported on modules
C-180C150B-SE	1800 x 1500 x 740 mm compact centre bench supported on modules
C-60P150B-SE	600 x 1500 x 740 mm post-formed centre bench supported on modules
C-90P150B-SE	900 x 1500 x 740 mm post-formed centre bench supported on modules
C-120P150B-SE	1200 x 1500 x 740 mm post-formed centre bench supported on modules
C-150P150B-SE	1500 x 1500 x 740 mm post-formed centre bench supported on modules
C-180P150B-SE	1800 x 1500 x 740 mm post-formed centre bench supported on modules
C-60G150B-SE	600 x 1500 x 740 mm stoneware centre bench supported on modules
C-90G150B-SE	900 x 1500 x 740 mm stoneware centre bench supported on modules
C-120G150B-SE	1200 x 1500 x 740 mm stoneware centre bench supported on modules

C-150G150B-SE	1500 x 1500 x 740 mm stoneware centre bench supported on modules
C-180G150B-SE	1800 x 1500 x 740 mm stoneware centre bench supported on modules
C-60V150B-SE	600 x 1500 x 740 mm glass centre bench supported on modules
C-90V150B-SE	900 x 1500 x 740 mm glass centre bench supported on modules
C-120V150B-SE	1200 x 1500 x 740 mm glass centre bench supported on modules
C-150V150B-SE	1500 x 1500 x 740 mm glass centre bench supported on modules
C-180V150B-SE	1800 x 1500 x 740 mm glass centre bench supported on modules

Specific benches

Code	Description
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Mobile benches

MMo-60A-F75	Mobile desk with lower shelf 600 x 750 x 900
MMo-90A-F75	Mobile desk with lower shelf 900 x 750 x 900
MMo-120A-F75	Mobile desk with lower shelf 1200 x 750 x 900
MMo-150A-F75	Mobile desk with lower shelf 1500 x 750 x 900
MMo-180A-F75	Mobile desk with lower shelf 1800 x 750 x 900
MMo-60B-F75	Mobile desk with lower shelf 600 x 750 x 740
MMo-90B-F75	Mobile desk with lower shelf 900 x 750 x 740
MMo-120B-F75	Mobile desk with lower shelf 1200 x 750 x 740
MMo-150B-F75	Mobile desk with lower shelf 1500 x 750 x 740
MMo-180B-F75	Mobile desk with lower shelf 1500 x 750 x 740
MMoH-90A-F75	Mobile desk with gap 900 x 750 x 900
MMoH-120A-F75	Mobile desk with gap 1200 x 750 x 900
MMoH-150A-F75	Mobile desk with gap 1500 x 750 x 900
MMoH-90B-F75	Mobile desk with gap 900 x 750 x 740
MMoH-120B-F75	Mobile desk with gap 1200 x 750 x 740
MMoH-150B-F75	Mobile desk with gap 1500 x 750 x 740
MMoHM-90A-F75	Mobile desk with gap and storage space 900 x 750 x 900
MMoH-120A-F75	Mobile desk with gap and storage space 1200 x 750 x 900
MMoHM-150A-F75	Mobile desk with gap and storage space 1500 x 750 x 900
MMoHM-90B-F75	Mobile desk with gap and storage space 900 x 750 x 740
MMoHM-120B-F75	Mobile desk with gap and storage space 1200 x 750 x 740
MMoHM-150B-F75	Mobile desk with gap and storage space 1500 x 750 x 740

Height-adjustable benches

MMoRA-120A-F75	Type A height-adjustable mobile desk 1200 x 750 x (750-1250)
MMoRA-150A-F75	Type A height-adjustable mobile desk 1500 x 750 x (750-1250)
MMoRA-180A-F75	Type A height-adjustable mobile desk 1800 x 750 x (750-1250)

MMoRB-120A-F75	Type B height-adjustable mobile desk 1200 x 750 x (740-900)
MMoRB-150A-F75	Type B height-adjustable mobile desk 1500 x 750 x (740-900)
MMoRB-180A-F75	Type B height-adjustable mobile desk 1800 x 750 x (740-900)

Bench for HPLC

HPLCMo900x750x900	900 x 750 x 900 mobile desk for HPLC with acrylic worktop, "silentblock" type wheels, a lower shelf and duct in a service compartment, with access via cable glands to from the worktop and from the lower storage area.
HPLCMo1200x750x900	1200 x 750 x 900 mobile desk for HPLC with acrylic worktop, "silentblock" type wheels, a lower shelf and duct in a service compartment, with access via cable glands to from the worktop and from the lower storage area.
HPLCMo1500x750x900	1500 x 750 x 900 mobile desk for HPLC with acrylic worktop, "silentblock" type wheels, a lower shelf and duct in a service compartment, with access via cable glands to from the worktop and from the lower storage area.

Benches for sampling

MCA 900x900x740	900 x 900 x 740 bench for sampling solid foodstuffs, with an acrylic worktop, side divider panels between workstations and a front divider panel with an access hatch, water tap, sink, 3 LED lights (red, green and white) with independent on / off switches.
MCL 900x900x740	900 x 900 x 740 bench for sampling liquid foodstuffs, with an acrylic worktop, side divider panels between MCL 900x900x740 workstations and a front divider panel with an access hatch, water tap, sink and 1 light with an on / off switch.

Bench for scales

MB-90A	Bench for Scales 900 x 750 x 900 mm.
MB-150A	Bench for Scales 1500 x 750 x 900 mm.
MB-90B	Bench for Scales 950 x 750 x 740 mm.
MB-150B	Bench for Scales 1550 x 750 x 740 mm.
MBV-90A	Ventilated Bench for Scales 900 x 750 x 900 mm.
MBV-150A	Ventilated Bench for Scales 1500 x 750 x 900 mm.
MBV-90B	Ventilated Bench for Scales 900 x 750 x 740 mm.
MBV-150B	Ventilated Bench for Scales 1550 x 750 x 740 mm.

Washing units

F-FR1500PA	Centre washing unit of 1500
F-FR1200PA	Wall washing unit of 1200
F-FR900CGA	2-drawer wall washing unit of 900
F-FR600PA	Wall washing unit of 600
S-FR600PA	Wall washing unit of 600

Service systems

SYSTEM OF SELF-SUPPORTING SERVICES

Wall-mounted benchtop service system

Code	Description
SSF high wall	
SSMS6090	600 mm wall-mounted benchtop service system.
SSMS9090	900 mm wall-mounted benchtop service system.
SSMS12090	1200 mm wall-mounted benchtop service system.
SSMS15090	1500 mm wall-mounted benchtop service system.
SSMS18090	1800 mm wall-mounted benchtop service system.

SSF low wall

SSMS6074	600 mm benchtop service system.
SSMS9074	900 mm benchtop service system.
SSMS12074	1200 mm benchtop service system.
SSMS15074	1500 mm benchtop service system.
SSMS18074	1800 mm benchtop service system.

Wall-mounted vertical service system

Code	Description
SSV high wall	
SSMV9090I	900 mm vertical service system.
SSMV12090ID	1200 mm vertical service system.
SSMV15090ID	1500 mm vertical service system.
SSMV18090ID	1800 mm vertical service system.

SSV low wall

SSMV9074I	900 mm vertical service system.
SSMV12074ID	1200 mm vertical service system.
SSMV15074ID	1500 mm vertical service system.
SSMV18074ID	1800 mm vertical service system.

Wall-mounted front service system

Code	Description
SSF high wall	
SSMF6090	600 mm wall-mounted front service system.
SSMF9090	900 mm wall-mounted front service system.
SSMF12090	1200 mm wall-mounted front service system.

SSMF15090	1500 mm wall-mounted front service system.
SSMF18090	1800 mm wall-mounted front service system.
SSF low wall	
SSMF6074	600 mm front service system.
SSMF9074	900 mm front service system.
SSMF12074	1200 mm front service system.
SSMF15074	1500 mm front service system.
SSMF18074	1800 mm front service system.

CENTRE SERVICE SYSTEMS

Centre benchtop service system

Code	Description
SSC high benchtop	
SSCS6090	600 mm centre front service system.
SSCS9090	900 mm centre front service system.
SSCS12090	1200 mm centre front service system.
SSCS15090	1500 mm centre front service system.
SSCS18090	1800 mm centre front service system.
SSC low benchtop	
SSCS6074	600 mm centre front service system.
SSCS9074	900 mm centre front service system.
SSCS12074	1200 mm centre front service system.
SSCS15074	1500 mm centre front service system.
SSCS18074	1800 mm centre front service system.

Centre vertical service system

Code	Description
SSVC SSVC high	
SSCV12090ID	1200 mm centre vertical service system.
SSCV15090ID	1500 mm centre vertical service system.
SSCV18090ID	1800 mm centre vertical service system.
SSVC low	
SSCV12074ID	1200 mm centre vertical service system.
SSCV15074ID	1500 mm centre vertical service system.
SSCV18074ID	1800 mm centre vertical service system.

Centre front service system

Code	Description
SSFC high panelled	
SSCF6090	600 mm centre front service system.
SSCF9090	900 mm centre front service system.
SSCF12090	1200 mm centre front service system.
SSCF15090	1500 mm centre front service system.
SSCF18090	1800 mm centre front service system.
SSFC low panelled	
SSCF6074	600 mm centre front service system.
SSCF9074	900 mm centre front service system.
SSCF12074	1200 mm centre front service system.
SSCF15074	1500 mm centre front service system.
SSCF18074	1800 mm centre front service system.

STAND-ALONE SERVICE SYSTEM

Stand-alone wall-mounted benchtop service system

Code	Description
Stand-alone benchtop service system	
SASM9074	Stand-alone wall-mounted benchtop service system - 900 x 150 x 740 mm -B
SASM9090	Stand-alone wall-mounted benchtop service system - 900 x 150 x 900 mm -B
SASM12074	Stand-alone wall-mounted benchtop service system - 1200 x 150 x 740 mm -B
SASM12090	Stand-alone wall-mounted benchtop service system - 1200 x 150 x 900 mm -B
SASM15074	Stand-alone wall-mounted benchtop service system - 1500 x 150 x 740 mm -B
SASM15090	Stand-alone wall-mounted benchtop service system - 1500 x 150 x 900 mm -B
SASM18074	Stand-alone wall-mounted benchtop service system - 1800 x 150 x 740 mm -B
SASM18090	Stand-alone wall-mounted benchtop service system - 1800 x 150 x 900 mm -B

Stand-alone wall-mounted vertical service system

Code	Description
Stand-alone vertical service system	
SAVM12074ID	Stand-alone wall-mounted vertical service system - 1200 x 150 x 740 mm -B
SAVM12090ID	Stand-alone wall-mounted vertical service system - 1200 x 150 x 900 mm -B
SAVM15074ID	Stand-alone wall-mounted vertical service system - 1500 x 150 x 740 mm -B

SAVM15090ID	Stand-alone wall-mounted vertical service system - 1500 x 150 x 900 mm -B
SAVM18074ID	Stand-alone wall-mounted vertical service system - 1800 x 150 x 740 mm -B
SAVM18090ID	Stand-alone wall-mounted vertical service system - 1800 x 150 x 900 mm -B

Stand-alone wall-mounted front service system

Code	Description
Stand-alone front service system	
SAFM9074	Stand-alone wall-mounted front service system - 900 x 150 x 740 mm -B
SAFM9090	Stand-alone wall-mounted front service system - 900 x 150 x 900 mm -B
SAFM12074	Stand-alone wall-mounted front service system - 1200 x 150 x 740 mm -B
SAFM12090	Stand-alone wall-mounted front service system - 1200 x 150 x 900 mm -B
SAFM15074	Stand-alone wall-mounted front service system - 1500 x 150 x 740 mm -B
SAFM15090	Stand-alone wall-mounted front service system - 1500 x 150 x 900 mm -B
SAFM18074	Stand-alone wall-mounted front service system - 1800 x 150 x 740 mm -B
SAFM18090	Stand-alone wall-mounted front service system - 1800 x 150 x 900 mm -B

Stand-alone centre benchtop service

Code	Description
Stand-alone benchtop service system	
SASC9074	Stand-alone centre benchtop service system - 900 x 300 x 740 mm -B
SASC9090	Stand-alone centre benchtop service system - 900 x 300 x 900 mm -B
SASC12074	Stand-alone centre benchtop service system - 1200 x 300 x 740 mm -B
SASC12090	Stand-alone centre benchtop service system - 1200 x 300 x 900 mm -B
SASC15074	Stand-alone centre benchtop service system - 1500 x 300 x 740 mm -B
SASC15090	Stand-alone centre benchtop service system - 1500 x 300 x 900 mm -B
SASC18074	Stand-alone centre benchtop service system - 1800 x 300 x 740 mm -B
SASC18090	Stand-alone centre benchtop service system - 1800 x 300 x 900 mm -B

Stand-alone centre vertical service

Code	Description
Stand-alone centre vertical service system	
SAVC12074ID	Stand-alone centre vertical service system - 1200 x 300 x 740 mm -B
SAVC12090ID	Stand-alone centre vertical service system - 1200 x 300 x 900 mm -B
SAVC15074ID	Stand-alone centre vertical service system - 1500 x 300 x 740 mm -B
SAVC15090ID	Stand-alone centre vertical service system - 1500 x 300 x 900 mm -B

SAVC18074ID	Stand-alone centre vertical service system - 1800 x 300 x 740 mm -B
SAVC18090ID	Stand-alone centre vertical service system - 1800 x 300 x 900 mm -B

Stand-alone centre front service system

Code	Description
Stand-alone centre front service system	
SAFC9074	Stand-alone centre front service system - 900 x 300 x 740 mm -B
SAFC9090	Stand-alone centre front service system - 900 x 300 x 900 mm -B
SAFC12074	Stand-alone centre front service system - 1200 x 300 x 740 mm -B
SAFC12090	Stand-alone centre front service system - 1200 x 300 x 900 mm -B
SAFC15074	Stand-alone centre front service system - 1500 x 300 x 740 mm -B
SAFC15090	Stand-alone centre front service system - 1500 x 300 x 900 mm -B
SAFC18074	Stand-alone centre front service system - 1800 x 300 x 740 mm -B
SAFC18090	Stand-alone centre front service system - 1800 x 300 x 900 mm -B

CEILING-MOUNTED SERVICE SYSTEMS

Ceiling-mounted column service system

Code	Description
Column service system	
SSAC30	300 mm ceiling-mounted column service system.

Ceiling-mounted front service

Code	Description
Ceiling-mounted front service system	
SSAF120	1200 mm ceiling-mounted front service system.
SSAF150	1500 mm ceiling-mounted front service system.
SSAF180	1800 mm ceiling-mounted front service system.

Electrical services

Code	Description
Electricity	
CEIe	1000 mm anodised aluminium duct for electrical services
SH16A	230 V-16 A Socket - White
TorretaConITapa	Electrical turret.

MG10AM	10 A single-phase thermal magnetic circuit breaker.
MG10AT	20 A three-phase thermal magnetic circuit breaker.
MG16AM	16 A single-phase thermal magnetic circuit breaker.
MG16AT	16 A three-phase thermal magnetic circuit breaker.
MG20AM	20 A single-phase thermal magnetic circuit breaker.
MG20AT	16 A single-phase thermal magnetic circuit breaker
SH16A	230 V-16 A Socket - White
SH16SAI	230 V-16 A Socket - Red
SH16E	230 V-16 A Socket - Green
SH16Ame	230 V-16 A American Socket - White
SH16AmeSAI	230 V-16 A American Socket - Red
SH16F	230 V-16 A French Socket - White
SH16FSAI	230 V-16 A French Socket - Red
SH16T	230 V-16 A French Socket - Green
SH16I	230 V-16 A Italian Socket - White
SH16ISAI	230 V-16 A Italian Socket - Bi-passo Red
SH13AI	230 V-13 A English Socket - White
SH13AISAI	230 V-13 A English Socket - Red
Tfn	Telephone socket
VD	Voice and data socket
PC	Computer socket
AdaptPC	Computer adapter
AdaptTFN	Telephone adapter
AdaptVD	Voice and data adapter

Fluid services

Code	Description
Taps	
FCC-WPC	Single tap for cold potable water on benchtop for sink
FCL-WPC	Single tap for cold potable water on benchtop for sink unit
FCPVDFL-WDC	Single tap for treated water on benchtop for loop
FCPVDF-WDC	Single tap for treated water on benchtop. End point
FCV-WPC	Double tap for cold potable water with benchtop output
FMG-WPC-WPH	Gerontological mixer tap for water
FMM-WPC-WPH	Mixer tap for water with one control
FMR-WPC-WPH	Mixer tap for water on benchtop
ME-WPC-WPH	Mixer tap for water with one control with extendable shower unit

FCG1V-BA	Single tap for breathable air on benchtop
FCG1V-CA	Single tap for compressed air on benchtop
FCG1V-G	Single tap for natural gas on benchtop
FCG1V-LPG	Single tap for propane/butane gas on benchtop
FCG1V-N2	Single tap for nitrogen on benchtop
FCG1V-V	Single tap for vacuum on benchtop
FCG180-BA	Double outlet 180 ° tap for breathable air on benchtop
FCG180-CA	Double outlet 180 ° tap for compressed air on benchtop
FCG180-G	Double outlet 180 ° tap for natural gas on benchtop
FCG180-LPG	Double outlet 180 ° tap for propane/butane gas on benchtop
FCG180-N2	Double outlet 180 ° tap for nitrogen on benchtop
FCG180-V	Double outlet 180 ° tap for vacuum on benchtop
FCG90-BA	Double outlet 90 ° tap for breathable air on benchtop
FCG90-CA	Double outlet 90 ° tap for compressed air on benchtop
FCG90-G	Double outlet 90 ° tap for natural gas on benchtop
FCG90-LPG	Double outlet 90 ° tap for propane/butane gas on benchtop
FCG90-N2	Double outlet 90 ° tap for nitrogen on benchtop
FCG90-V	Double outlet 90 ° tap for vacuum on benchtop
AirLiqMR-Ar	Benchtop pressure reducer for Argon
AirLiqMR-BA	Benchtop pressure reducer for Breathable Air
AirLiqMR-C2H2	Benchtop pressure reducer for Acetylene
AirLiqMR-CA	Benchtop pressure reducer for Compressed Air
AirLiqMR-CO	Benchtop pressure reducer for CO
AirLiqMR-CO2	Benchtop pressure reducer for CO2
AirLiqMR-Disp	Benchtop pressure reducer for Gases Available
AirLiqMR-G	Benchtop pressure reducer for Natural Gas
AirLiqMR-H2	Benchtop pressure reducer for Hydrogen
AirLiqMR-HE	Benchtop pressure reducer for Helium
AirLiqMR-N2	Benchtop pressure reducer for Nitrogen
AirLiqMR-N2O	Benchtop pressure reducer for N2O
AirLiqMR-O2	Benchtop pressure reducer for Oxygen
AirLiqMR-SA	Benchtop pressure reducer for Synthetic Air
GFF-WPC	Single tap for cold potable water on front
GFF-CA	Single tap for compressed air on front
GFF-G	Single tap for natural gas on front

GFF-LPG	Single tap for propane/butane gas on front
GFF-N2	Single tap for nitrogen on front
GFF-V	Single tap for vacuum on front
ALMR-Ar	Pressure reducer for liquid air - argon
ALMR-BA	Pressure reducer for liquid air - breathable air
ALMR-C2H2	Pressure reducer for liquid air - acetylene
ALMR-C2H4	Pressure reducer for liquid air - ethylene
ALMR-C3H6	Pressure reducer for liquid air - propylene
ALMR-CA	Pressure reducer for liquid air - compressed air
ALMR-CH4	Pressure reducer for liquid air - methane
ALMR-CO	Pressure reducer for liquid air - CO
ALMR-CO2	Pressure reducer for liquid air - CO2
ALMR-Disp	Pressure reducer for liquid air - available gases
ALMR-G	Pressure reducer for liquid air - natural gas
ALMR-H2	Pressure reducer for liquid air - hydrogen
ALMR-HE	Pressure reducer for liquid air - helium
ALMR-LPG	Pressure reducer for liquid air - propane/butane
ALMR-N2	Pressure reducer for liquid air - nitrogen
ALMR-N2O	Pressure reducer for liquid air - N2O
ALMR-NH3	Pressure reducer for liquid air - ammonia
ALMR-NO	Pressure reducer for liquid air - NO
ALMR-O2	Pressure reducer for liquid air - oxygen
ALMR-SA	Pressure reducer for liquid air - synthetic air
ALMR-V	Pressure reducer for liquid air - vacuum

Sinks and sink units

P-G-100	Ø 100 mm stoneware sink
P-G-295X140	295 x 140 mm stoneware sink
P-PP-100B	Ø 100 mm white PP sink
P-PP-300X150	300 x 150 mm PP sink
	Front/vertical system sink

Lighting

Led600	LED Modular Lighting for BECOME 550 mm shelf
Led900	LED Modular Lighting for BECOME 850 mm shelf
Led1200	LED Modular Lighting for BECOME 1150 mm shelf
Led1500	LED Modular Lighting for BECOME 1450 mm shelf
Led1800	LED Modular Lighting for BECOME 1750 mm shelf

Storage for service

Code	Description
Compact shelf	
ER-60F15-C	8 mm thick compact shelf with rim - total depth 540 x 150 mm
ER-90F15-C	8 mm thick compact shelf with rim - total depth 840 x 150 mm
ER-120F15-C	8 mm thick compact shelf with rim - total depth 1140 x 150 mm
ER-150F15-C	8 mm thick compact shelf with rim - total depth 1440 x 150 mm
ER-180F15-C	8 mm thick compact shelf with rim - total depth 1740 x 150 mm
ER-60F22-C	8 mm thick compact shelf with rim - total depth 540 x 225 mm
ER-90F22-C	8 mm thick compact shelf with rim - total depth 840 x 225 mm
ER-120F22-C	8 mm thick compact shelf with rim - total depth 1140 x 225 mm
ER-150F22-C	8 mm thick compact shelf with rim - total depth 1440 x 225 mm
ER-180F22-C	8 mm thick compact shelf with rim - total depth 1740 x 225 mm
ER-60F30-C	8 mm thick compact shelf with rim - total depth 540 x 300 mm
ER-90F30-C	8 mm thick compact shelf with rim - total depth 840 x 300 mm
ER-120F30-C	8 mm thick compact shelf with rim - total depth 1140 x 300 mm
ER-150F30-C	8 mm thick compact shelf with rim - total depth 1440 x 300 mm
ER-180F30-C	8 mm thick compact shelf with rim - total depth 1740 x 300 mm
Glass shelf	
ER-60F15-V	Glass shelf with rim - total depth 540 x 150 mm
ER-90F15-V	Glass shelf with rim - total depth 840 x 150 mm
ER-120F15-V	Glass shelf with rim - total depth 1140 x 150 mm
ER-150F15-V	Glass shelf with rim - total depth 1440 x 150 mm
ER-180F15-V	Glass shelf with rim - total depth 1740 x 150 mm
ER-60F22-V	Glass shelf with rim - total depth 540 x 225 mm
ER-90F22-V	Glass shelf with rim - total depth 840 x 225 mm
ER-120F22-V	Glass shelf with rim - total depth 1140 x 225 mm
ER-150F22-V	Glass shelf with rim - total depth 1440 x 225 mm
ER-180F22-V	Glass shelf with rim - total depth 1740 x 225 mm
ER-60F30-V	Glass shelf with rim - total depth 540 x 300 mm
ER-90F30-V	Glass shelf with rim - total depth 840 x 300 mm
ER-120F30-V	Glass shelf with rim - total depth 1140 x 300 mm
ER-150F30-V	Glass shelf with rim - total depth 1440 x 300 mm
ER-180F30-V	Glass shelf with rim - total depth 1740 x 300 mm

Downpi-	
Code	Description
Wall downpipe	
BAJ-M	BAJ-M Wall downpipe for services
Centre downpipe	
BAJ-C	Centre downpipe for services
Suspended cabinets	
AP-66AB	A-66 High suspended cabinet - 600 x 350 x 800 mm
AP-67DA	A-67D High suspended cabinet - 600 x 350 x 800 mm
AP-67IA	A-67I High suspended cabinet - 600 x 350 x 800 mm
AP-95A	A-95 High suspended cabinet - 900 x 350 x 800 mm
AP-96A	A-96 High suspended cabinet - 900 x 350 x 800 mm
AP-97A	A-97 High suspended cabinet - 900 x 350 x 800 mm
AP-125A	A-125 High suspended cabinet - 1200 x 350 x 800 mm
AP-126A	A-126 High suspended cabinet - 1200 x 350 x 800 mm
AP-127A	A-127 High suspended cabinet - 1200 x 350 x 800 mm
AP-155A	A-155 High suspended cabinet - 1500 x 350 x 800 mm
AP-156A	A-156 High suspended cabinet - 1500 x 350 x 800 mm
AP-66B	A-66 Low suspended cabinet - 600 x 350 x 410 mm
AP-95B	A-95 Low suspended cabinet - 900 x 350 x 410 mm
AP-96B	A-96 Low suspended cabinet - 900 x 350 x 410 mm
AP-125B	A-125 Low suspended cabinet - 1200 x 350 x 410 mm
AP-126B	A-126 Low suspended cabinet - 1200 x 350 x 410 mm
AP-155B	A-155 Low suspended cabinet - 1500 x 350 x 410 mm
AP-156B	A-156 Low suspended cabinet - 1500 x 350 x 410 mm

Under-bench storage

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
Fixed modules				
F-45-PIA	Left door	450	500	880
F-45-PDA	Right door			
F-45-PCIA	Left door - drawer			
F-45-PCDA	Right door - drawer			
F-45-CA	Drawers			

F-45-C3A	3 drawers	450	500	880
F-45-CGA	2 drawers			
F-45-PIB	Left door			
F-45-PDB	Right door			
F-45-CB	3 drawers	600	500	720
F-45-CAB	2 drawers			
F-60-PIA	Left door			
F-60-PDA	Right door			
F-60-PCIA	Left door - drawer			
F-60-PCDA	Right door - drawer			
F-60-CA	Drawers			880
F-60-C3A	3 drawers			
F-60-CGA	2 drawers			
F-60-CCCA	6 drawers			
F-60-CCA	5 drawers			
F-60-PIB	Left door			
F-60-PDB	Right door	720		
F-60-CB	3 drawers			
F-60-CGB	2 drawers			

Suspended modules

S-45-C3A	3 drawers	450	500	650
S-45-CA	Drawers			
S-45-CGA	2 drawers			
S-45-PCIA	Left door - drawer			
S-45-PCDA	Right door - drawer			
S-45-PIA	Left door			490
S-45-PDA	Right door			
S-45-CAB	2 drawers			
S-45-CB	3 drawers			
S-45-PIB	Left door			
S-45-PDB	Right door			
S-60-C3A	3 drawers	600	500	650
S-60-CA	Drawers			
S-60-CCA	5 drawers			
S-60-CCCA	6 drawers			
S-60-CGA	2 drawers			
S-60-PCIA	Left door - drawer			
S-60-PCDA	Right door - drawer			

S-60-PIA	Left door	600	500	650
S-60-PDA	Right door			
S-60-CB	3 drawers			490
S-60-CGB	2 drawers			
S-60-PIB	Left door			
S-60-PDB	Right door			
S-90-C3A	3 drawers	900	500	650
S-90-CA	Drawers			
S-90-CGA	2 drawers			
S-90-PA	Doors			
S-90-PCA	Doors - drawer			490
S-90-CB	Drawers			
S-90-CGB	2 drawers			
S-90-PB	Doors			
S-120-C3A	3 drawers	1200	500	650
S-120-CA	Drawers			
S-120-CGA	2 drawers			
S-120-PA	Doors			
S-120-CB	Drawers			490
S-120-CGB	2 drawers			
S-120-PB	Doors			

Wheeled modules

R-45-C3A	3 drawers	450	500	750
R-45-PDB	Drawers			
R-45-PCIA	Left door - drawer			
R-45-PCIA	Left door - drawer			
R-45-PIA	Left door			590
R-45-CB	3 drawers			
R-45-PIB	Left door			
R-45-PDB	Right door			
R-60-C3A	3 drawers	600	500	750
R-60-CA	Drawers			
R-60-PCIA	Left door - drawer			
R-60-PCDA	Right door - drawer			
R-60-PIA	Left door			
R-60-PDA	Right door			

R-60-CB	3 drawers	600	500	590
R-60-PIB	Left door			
R-60-PDB	Right door			
R-90-PA	Doors	900	500	750
R-90-PCA	Doors - drawer			
R-120-PA	Doors	1200	500	750

Modules for waste

RE-60-E	Pull-out drawer	600	500	880
RE-60-E	Pull-out drawer			810
MRA-MSE-60-PI	Left door	600	500	880
MRA-MSE-60-PD	Right door			
MRA-MCE-54-PI	Left door	535	500	810
MRA-MCE-54-PD	Right door			
MRA-MCE-60-PI	Left door	600		
MRA-MCE-60-PD	Right door			
MRA-MM-60-PI	Left door	600	500	650
MRA-MM-60-PD	Right door			

Modules for vacuum pumps

MBV_MCE-54-PI	Left door	540	500	810
MBV_MCE-54-PD	Right door			
MBV_MCE-60-PI	Left door	600		
MBV_MCE-60-PD	Right door			
MBV_MCE-84-P	Doors	835		
MRA-MSE-60-PI	Left door	600	500	880
MRA-MSE-60-PD	Right door			
MRA-MSE-60-PI	Left door	900		
MRA-MSE-60-PI	Right door	1200		
MBV_MM-60-PI	Left door	600	500	650
MBV_MM-60-PD	Right door			
MBV_MM-90-P	Doors	900		
MBV_MM-120-P	Doors	1200		

Modules for water purification equipment				
MP-MCE-117	Doors	1170	500	820
MP-MCE-147	Doors	1470		
MP-MSE-120	Doors	1200	500	880
MP-MSE-150	Doors	1500		
Modules for acids				
A27-MSE-60-PI	Left door	500	500	880
A27-MSE-60-PD	Right door			
A26-MSE-90-P	Doors	900	500	880
A26-MSE-120-P	Doors	1200		
A27-MCE-54-PI	Left door	540	500	810
A27-MCE-54-PD	Right door			
A27-MCE-60-PI	Left door	600	500	810
A27-MCE-60-PD	Right door			
A26-MCE-84-P	Doors	840	500	880
Modules for acids made of PP				
PP A27-MSE-60-PI	Left door	600	500	880
PP A27-MSE-60-PD	Right door			
PP A26-MSE-90-P	Doors	900	500	880
PP A26-MSE-120-P	Doors	1200		
PP A27-MCE-54-PI	Left door	540	500	810
PP A27-MCE-54-PD	Right door			
PP A27-MCE-60-PI	Left door	600	500	810
PP A27-MCE-60-PD	Right door			
PP A26-MCE-84-P	Doors	840	500	880
Modules for solvents				
S-30	Pull-out drawer	600	595	635
S-31	2 Doors	1100		
S-32	3 Doors	1400		
S-33	2 Doors	888		

Cabinets

Reference	Model	Dimensions (mm)		
		Width	Depth	Height
Armarios para reactivos				
A-90	Sliding glass doors	900	500	2010
A-120		1200		
A-91	Hinged glass doors	900		
A-121		1200		
A-92	Hinged blind doors	900		
A-122		1200		
A-93CA	Sliding glass doors and drawers	900		
A-93CGA	Sliding glass doors and 2 drawers			
A-93C3A	Sliding glass doors and 3 drawers			
A-123CA	Sliding glass doors and drawers	1200		
A-123CGA	Sliding glass doors and 2 drawers			
A-123C3A	Sliding glass doors and 3 drawers			
A-94CA	Hinged blind doors and drawers	900		
A-94CGA	Hinged blind doors and 2 drawers			
A-94C3A	Hinged blind doors and 3 drawers			
A-124CA	Hinged blind doors and drawers	1200		
A-124CGA	Hinged blind doors and 2 drawers			
A-124C3A	Hinged blind doors and 3 drawers			
Telescopic cabinets				
A-20	Telescopic Cabinet	600	550	2010
S-50	90-minute Telescopic Safety Cabinet	449	860	1966
S-51	90-minute Telescopic Safety Cabinet	819		
Cabinets for acids				
A-25I	Doors	600	570	2010
A-25D	Doors			
Cabinets for solvents				
S-40	2 Doors	895	595	2080
S-41	Door	595		
S-42	2 Doors	1.195		
Bottle cabinets				
S-60	Door	598	615	2050
S-70	2 Doors	1198	615	2050

Other accessories

Code	Description
Showers and eye washes	
DE	Emergency Shower
DLO	DLO Eye Wash Shower
LO	LO Tabletop Eye Wash
L2O	L2O Tabletop 2 Eye Wash
Drying racks	
ESCU_MC	450 x 630 mm drying racks
Dispensers	
DIS_P	Paper dispenser
DIS_J	Soap dispenser
Locker	
TQ_1	300 x 500 x 1900 mm locker with one compartment
TQ_2	300 x 500 x 1900 mm locker with two compartments
TQ_3	300 x 500 x 1900 mm locker with three compartments
TQ_4	300 x 500 x 1900 mm locker with four compartments
Shelving	
EM 800x400x1955	Metal shelf 800 x 400 x 1955 mm.
EM 900x400x1955	Metal shelf 900 x 400 x 1955 mm.
EM 1000x400x1955	Metal shelf 1000 x 400 x 1955 mm.
EM 1200x400x1955	Metal shelf 1200 x 400 x 1955 mm.
EM 800x500x1955	Metal shelf 800 x 500 x 1955 mm.
EM 900x500x1955	Metal shelf 900 x 500 x 1955 mm.
EM 1000x500x1955	Metal shelf 1000 x 500 x 1955 mm.
EM 1200x500x1955	Metal shelf 1200 x 500 x 1955 mm.
Chairs and stools	
T-03	Fixed Chair T-03
T-05	Swivel Chair with Arms T-05
T-04	Swivel Chair without Arms T-04
T-10	Backless Stool T-10
T-06	Rotating Stool with Backrest T-06
T-02	Rotating Stool T-02
T-09	Backless Stool Manual Height Adj. T-09
T-07	Stool with Backrest Gas Height Adj. T-07
Scaffold	
EBM	Scaffold for bench
EBV	Scaffold for fume cupboards
Sludge decanter	
DL	Sludge decanter

**Thanks for trusting in us.
Thanks, science.**

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Ctra. Lekeitio km. 53,5.
48289 Amoroto (Bizkaia)

T. +34 94 684 07 66
burdinola@burdinola.com
www.burdinola.com