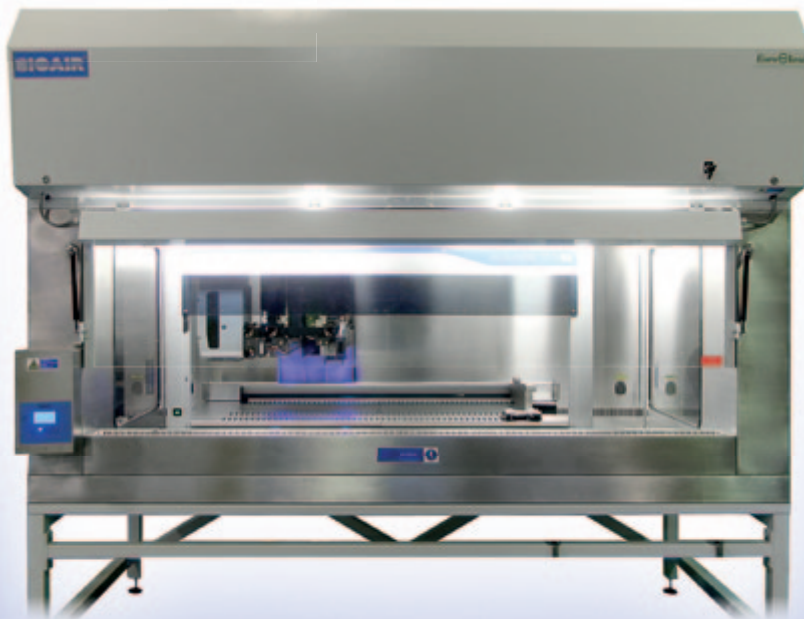


Euro  *lone*[®]

Industrial Equipment



Euro  *lone*[®]
serving science through innovation

Air Filtration Modules

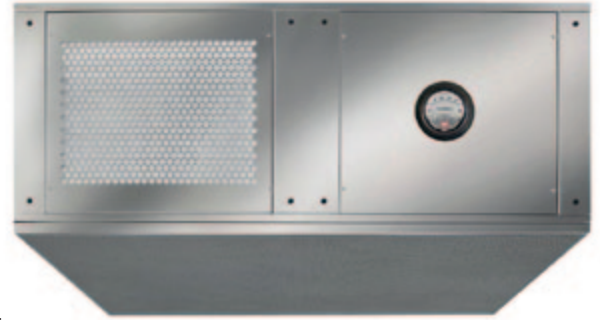
Modul@ir

Developed to satisfy the most various needs of every customer, the **Modul@ir 1400** system allows customized configuration of contamination free areas by properly connecting the modular units.

Each module is an autonomous laminar flow generator that guarantees an ISO 5 air classification as indicated in ISO EN 14644-1.

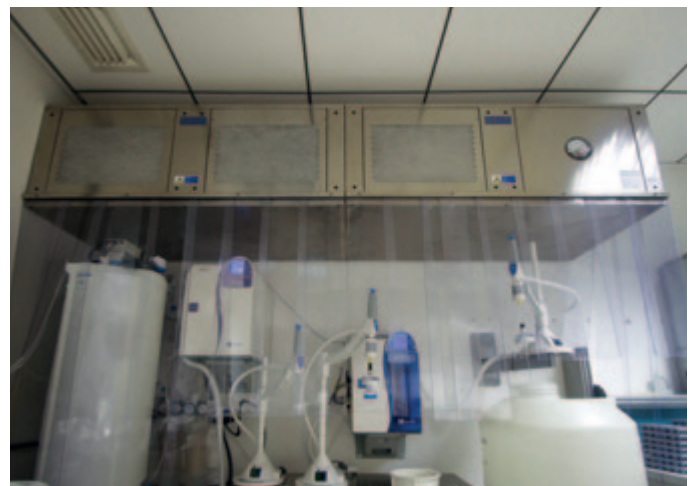
The **Modul@ir** units are composed of a base module that can be completed with a series of accessories and components that allow to create a customized configuration.

The base module has not only filtration and ventilation capability but also has a structural function that reduce the number of standing supports or suspension points of the final assembled system.



Main Specifications

- Construction in stainless steel AISI 304 L scotch-brite finishing
- Diffuser grid in AISI 304 L stainless steel
- Double inlet centrifugal fan with nominal airflow rate of 1200 m³/h and air velocity of 0.45 m/s measured 15 cm under diffuser grids
- HEPA filter with dynamic air tight that even in case of leakage guarantee that contaminated air is not supply into the clean room but is captured by the fan
- Diffuser plenum in special textile material that allow a good air velocity distribution and reduce the noise
- D.O.P. test point
- HEPA filter differential pressure test point
- Differential pressure switch for fan working status monitoring
- Air filtration by means of a HEPA filter with H14 efficiency (99.995% measured on MPPS as from EN1822.1) with 610 x 1220 x 69 mm dimensions



Technical Data

Model	MODUL@IR 1400 - 1401
Power Supply	230 V~ 50 Hz
Installed power	400 W
Electrical insulation class	I
Weight (without accessories)	75 kg
Overall dimensions (LxHxD)	1400 x 700 x 562 mm
Nominal flow air:	1200 m³/h
G4 prefilter dimensions (LxDxH)	335 x 500 x 12 mm
HEPA filter dimensions (LxDxH)	1220 x 610 x 69 mm

Models

Part No.	Description
MLM1401	Modul@ir 1400 - mm 700 x 1400 x 522 (L x d x h) with 15 Watt light
MLM1400	Modul@ir 1400 - mm 700 x 1400 x 522 (L x d x h)

Options & Accessories

Part No.	Description
MLA0001	Prefilter Kit type "G4" - 6 pieces
MLA0002	Stainless steel (AISI304) prefilter panel holder
MLA0003	Closing panel in s/s (AISI 304)
MLA0004	Closing in s/s (AISI304) with pressure gauge
MLA0005	Fluorescent lamp 15 watt
MLA0006	PVC Curtains h 2200 mm l1400mm
MLA0007	PVC strip curtains. (mm WxH: 1400 x 2000)
MLA0008	PVC strip curtains. (mm WxH: 700 x 2000)
MLA0009	Supporting leg in s/s (AISI 304)
MLA0011	Joining Kit for Modul@ir
MLA0010	Manual Electric variator + interference filter.
MLA0012	Remote switchboard with manual regulation for Modul@ir (stainless steel)
MLA0013	Remote switchboard with manual regulation for Modul@ir (plastic)



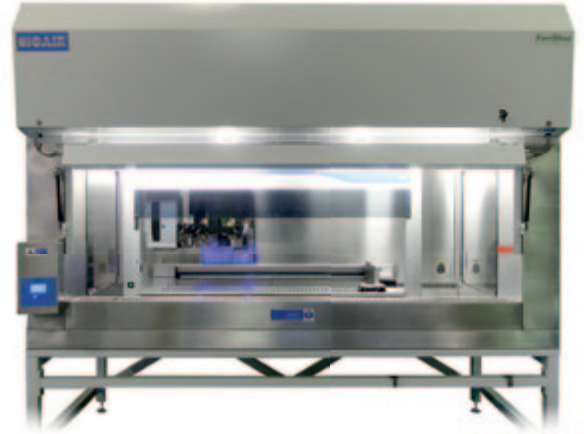
Cabinets for robots

S@fe SP

S@fe SP cabinets have been designed to provide a sterile environment for automation robots. The airflows have been designed according to EN12469 specifications in order to ensure protection for product, operator and environment.

The features of the **S@fe SP** series are designed to provide ample space to fit and work with the robots, while keeping external size to manageable values in order to fit inside every lab!

The cabinets are shipped disassembled in various components and are reassembled during installation!



Main Specifications

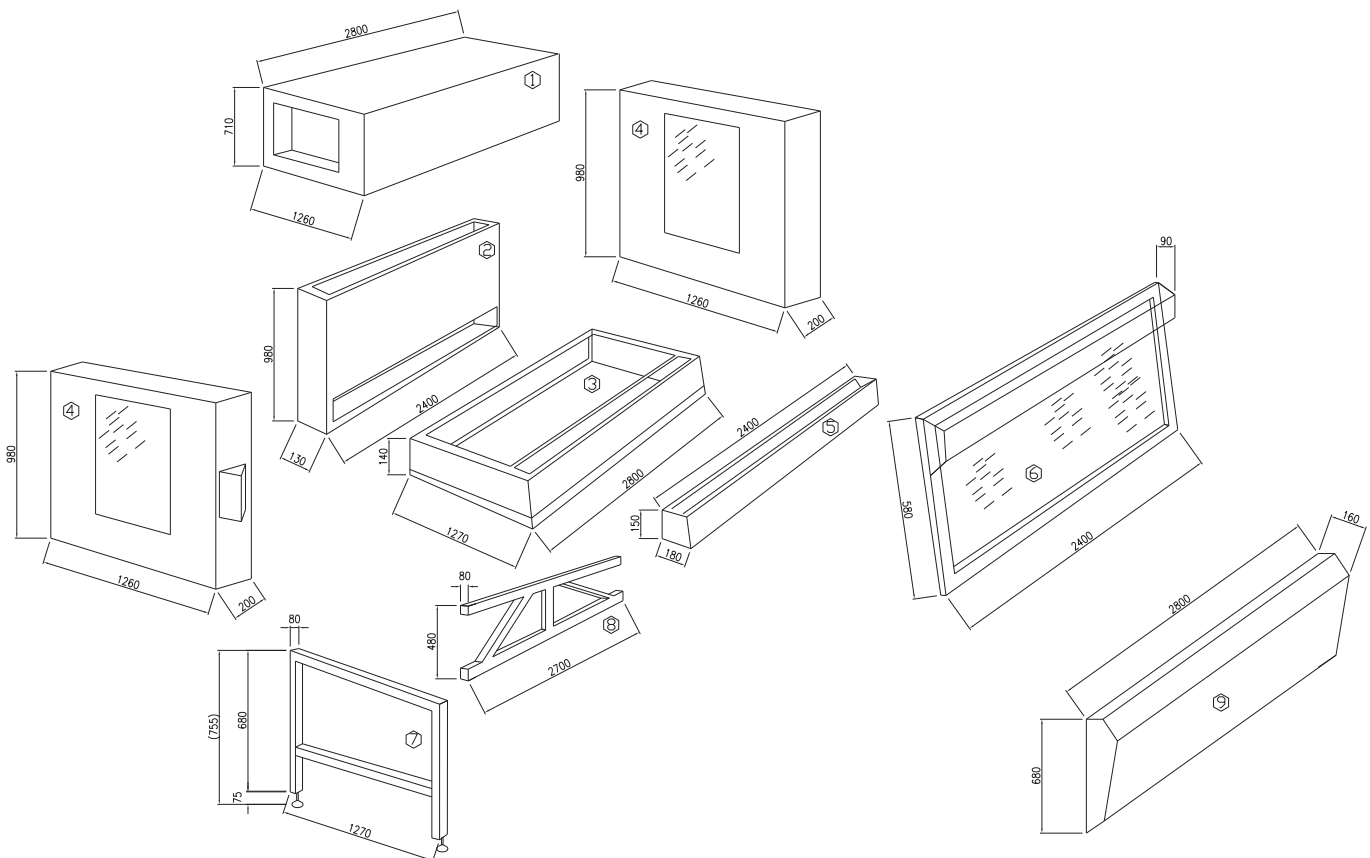
- Maximum height < 270 cm (including support stand);
- Lateral exhausts, allows installation even with minimal space between cabinet and ceiling;
- Lowered liquid retaining work surface: height from ground 848 mm
- Removable front barrier grid for easy robot installation and maintenance: height from ground 1000 mm
- Removable side windows for easy maintenance of the robot
- Front aperture in operation: 250 mm; with front glass fully opened and removed front barrier grid: 915 mm



Technical Data

Model	S@FE SP 2.1	S@FE SP 2.4
Working Surface	Multi sector solid surface	
External Size (lxdxh) (mm)	2339 x 1420 x 1790	2800 x 1420 x 1790
Working area (lxdxh) (mm)	2005 x 894 x 978	2409 x 894 x 978
Height including stand (mm)	2600	2600
Front aperture (mm)	195	250
Weight (Kg)	700	750
HEPA filters efficiency	> 99,995% MPPS as per EN1822.1	
Exhausted air volume	1.050 m ³ /h	
Motorblowers	2 centrifugal blowers with speed self regulation based on filter's clogging level	
Power supply	230 V~ 50 Hz	
Heat emission (Kcal/h)	1.250	
Electrical sockets	1	
Flourescent lamp heat emission (Kcal/h)	130	
Lighting level (Lux)	≥750	
Sound pressure (dB(A))	<65	

Assembly diagram



PASS-THROUGH Hatches

PASS-THROUGH units protect critical environments while allowing transfer of materials to or from adjoining rooms.

Materials can be transferred in both directions through interlocked doors. **PASS-THROUGH** units can be passive or provided with one or more sanitization cycles (LAF; U.V.; vaporized H₂O₂; external VHP system).



Main Specifications

- Non vented type
- 1.2 mm gauge stainless steel AISI 304 with 2B finishing
- Carcass EN 12 298 tested for air tightness
- Chamber surfaces and shelves with radiussed corners all around
- Choice of shelves surfaces: perforated type, or liquid retaining solid tray
- ½" NPT inlet from the top of the unit
- ½" NPT drain at the bottom of the unit
- 1.2 mm gauge stainless steel AISI 304 - 2B finishing framed doors with multilayer safety glass 6 mm tick view screen
- Continuous piano hinges for both doors
- Closed cell Neoprene gasket door seal
- S.S. AISI 304 mounting angles with mitered corners for framing both sides of wall opening
- Wide selection of body dimension
- Wide selection of door type



More than 40 years of experience

The experience of **EuroClone**[®] in manufacturing **Biohazard** and **Laminar Air Flow** cabinets goes back to the early 70s', when the brand *Gelaire*[®] became the "gold standard" for airborne contamination control in many laboratories throughout the world.

A family of **Recirculating Fume Hoods**, based on the adsorption of toxic vapors by means of charcoal filters, was successfully introduced a few years later, thus characterizing the Company as the only one really focused on the protection of the operators and inspired by its motto:

Your Safety is our Commitment

This unique know-how was cherished and brought to an even higher level of quality twenty-five years later, when under the name of **BioAir**[®], the entire range was completely re-designed to meet the growing requirements of the laboratory staff and the most stringent regulations.

At the top of the range, particularly noteworthy are the **Biohazard** (or Microbiological Safety) **Cabinets**, representing the sum of the Company's know-how certified to European standards (EN12469:2000) and complying with the Australian regulations; in other words, they are designed to provide the technicians with the maximum level of safety, when they are used according to GLP/GMP in their respective environments.

Today, in a plant occupying more than 2.800 square meters, **EuroClone**[®] manufactures a *complete range of microbiological safety cabinets, laminar flow cabinets and fume cupboards*, encompassing more than 15 models, with many of them available in different sizes; customized models and/or designed for specific applications can be produced thanks to the competence of a team of skilled engineers and dedicated workers.

The experience deriving from decades of sales and support to Cell Biologists, allowed **EuroClone**[®] to bring into the market an *extremely innovative CO₂ Incubator*, the **S@fegrow**, which is the result of a deep knowledge of the best conditions required by the most critical tissue culture methods, supported by the suggestions received from the scientists involved in growing cells *in vitro*.

The core business of the recently established **BioAir**[®] **Industrial** Team is the design, manufacturing and validation of customized equipment for the protection of the operator and of the product within *pharmaceutical and healthcare production facilities*.

This dedicated team will take advantage of the long experience and the production capacity acquired through laboratory LAF applications, to offer dedicated and complex equipment, ranging from **dispensing/sampling Downflow Booths** and **Clean Rooms**, to **RABS** and **Isolators** for highly active powder processing.

EuroClone®
serving science through innovation



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