tcps
Lab equipment and more

Euro Elone

# s@fe mate EZ

## Microbiological Safety Cabinet




Euro Elone
serving science through innovation

## Stay safe the EZ way

Including premium features in an entry level priced cabinet, the new SafeMate EZ series allow everybody to stay safe in an easy way.

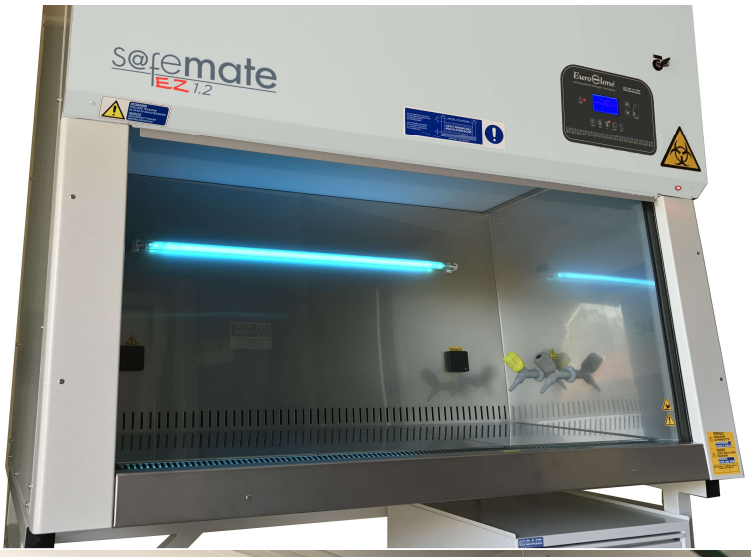
The "V"-shaped antiobstruction grill allows working without worrying about armrests, while the self positioning electrically operated front sash makes sure that the front aperture is always at the right size for comfort and safety.

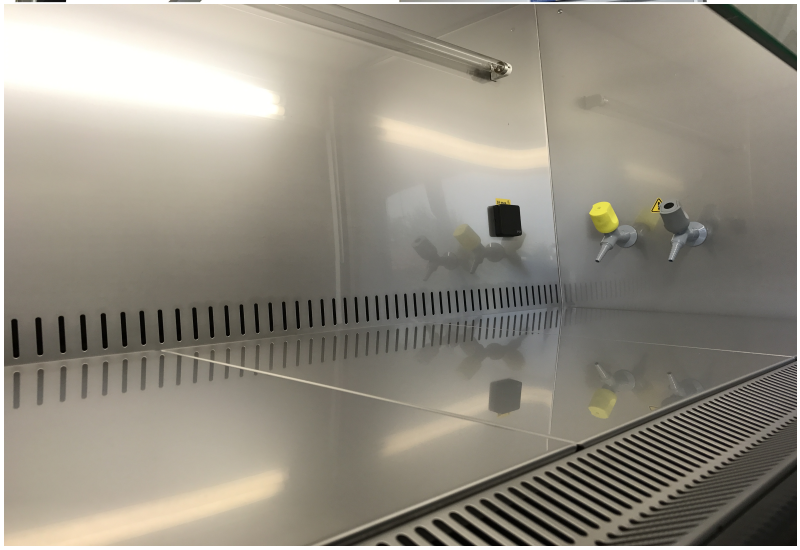
## Your Safety is our Commitment

No compromise for Operator, Product and Environment.

Protection guaranteed as required by EN12469:2000 standard.








## Feature rich!

**Electrical front sash:** the front glass is operated using the switches on the main control panel allowing effortless opening and closing of the working area.

**V-shaped front grill:** forget about armrests limiting your working position: SafeMate's V-shaped front grill ensures the front barrier is always at its best.

**Customizable utilities**: want more space in the working area? Do not take the optional taps if. Changed your mind and want the taps? Just buy the option and they will be installed in your cabinet even after sales!

**Fully VHP compliant**: with the optional VHP connector kit you can easily use any Hydrogen Peroxide vapour generation system to fully sterilize your cabinet.

# Italian Design & Technology

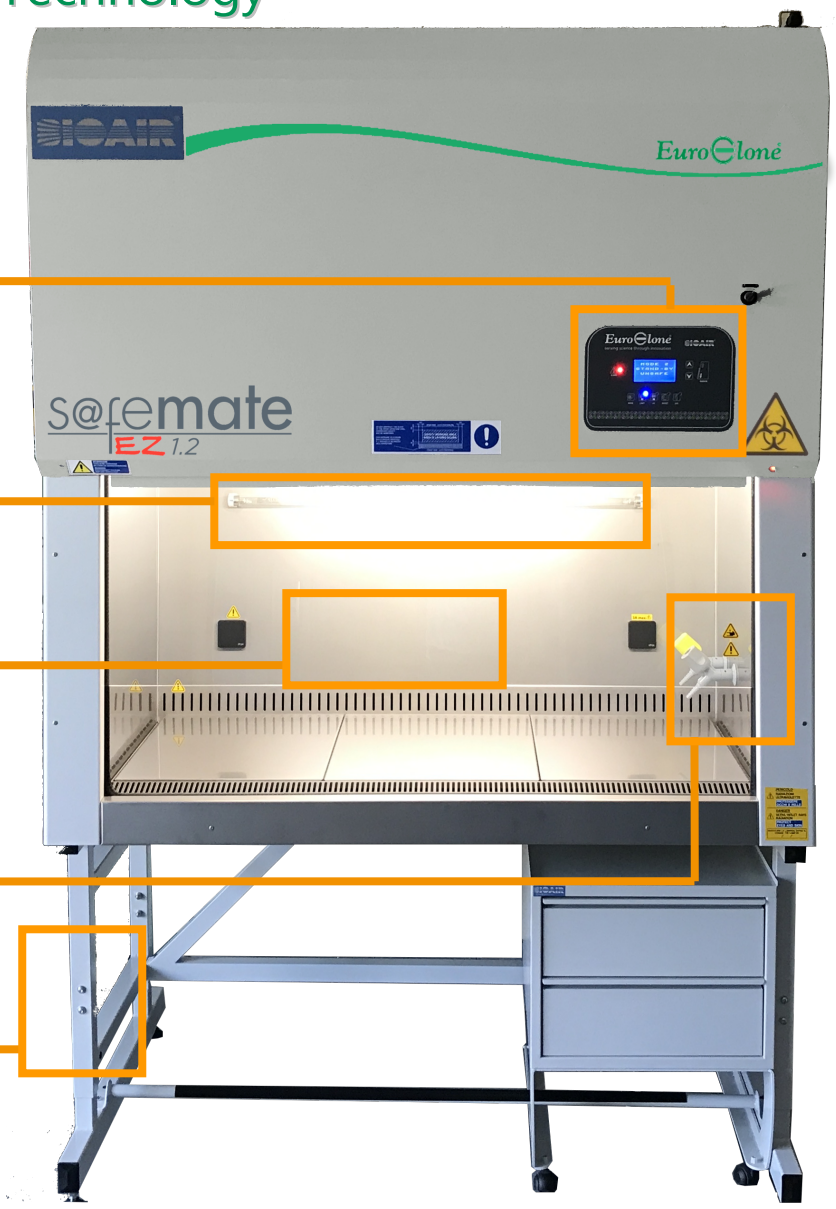
Real Time visualization of airflows speeds

UV Lamp on back wall (standard)

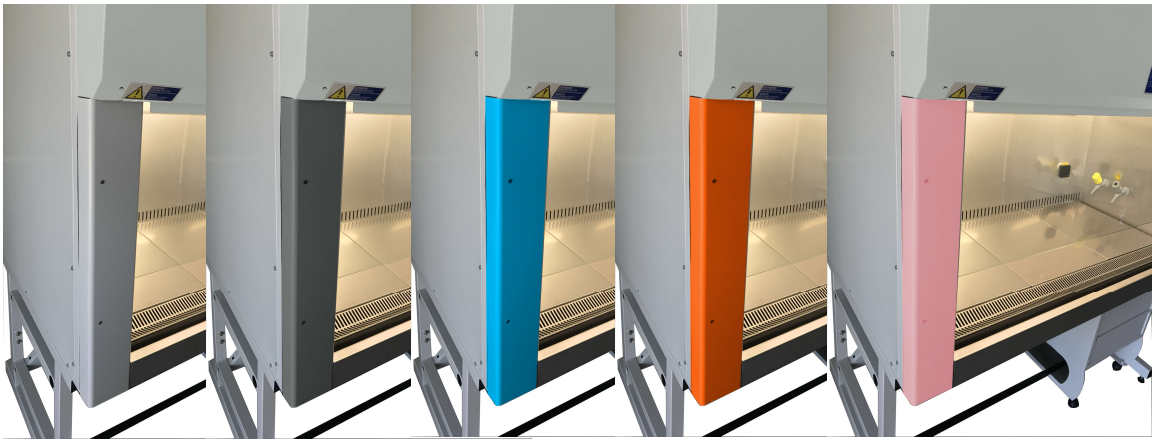
Electrically operated front sash

Gas & Vacuum taps (optional, retrofittable)

Height adjustable support stand




## Choose your color!



made in ITALY

Our cabinet are completely made in Italy using components of italian or european origins. We use only the best for our cabinets.

# Main Specifications

State of the art AC motorblower enhances energy efficiency, reducing operating costs.

- Fully compliant with the EN 12469 safety standard
- Air and aerosol tight electrical sliding sash
- UV light on back wall
- 5° Sloping front aperture to maximise comfort.
- V-Shaped anti-obstruction front grill
- Optional utilities for gas and vacuum, installable in-field
- Real Time reporting of air speeds (inflow & downflow)
- Fully stainless steel working chamber and surface




# Standard utilities

| STANDARD ELECTRICAL EQUIPMENT | |
|---|---|
| Automatic electronic airflow velocity control PCB | ✓ |
| Motorblower (fan) | ✓ |
| Inverter | ✓ |
| Fluorescent lamps | ✓ |
| Sliding window electric motor | ✓ |
| Combustible gas solenoid valve. | ✓ |

| STANDARD UTILITIES | |
|---|---|
| Tap for combustible gas line | optional |
| Tap for inert fluids/vacuum line | optional |
| Auxiliary electrical service socket | ✓ |
| 2nd auxiliary electrical service socket | ✓ |
| UVC lamp socket | ✓ |
| Voltage-free contact (VFC) outlet | ✓ |

# Options & Accessories

| PART No. | DESCRIPTION | NOTES | |
|---|---|---|---|
| AC10000 | CHEST DRAWER | 2 drawers – with castors | ✓ |
| AS1L410 | SUPPORT STAND 1.2 | Variable height | ✓ |
| AS1L610 | SUPPORT STAND 1.8 | Variable height | ✓ |
| AZ5K401 | Combustible gas tap | Includes solenoid safety valve. Max 1 per unit | ✓ |
| AZ5K412 | Vacuum/Air tap | Max 2 per unit (if no gas tap installed) | ✓ |
| AP6H100 | Additional socket | Standard Schuko/Europlug | ✓ |

# Technical Data

| DESCRIPTION | SIZE 1.2 | SIZE 1.8 |
|---|---|---|
| Part No. (solid work surface) | LDK4000 | LDK6000 |
| Part No. (perforated work surface) | LDK4001 | LDK6001 |
| **SPECIFICATIONS** | | |
| Reference Standards: | IEC 61010-1:2010 / EN 61010-1:2010<br>IEC 61326-1:2012 / EN 61236-1:2013<br>EN 12469:2000 | |
| Electrical insulating/protection class [IEC 61140]: | I | |
| Mains supply voltage: | 220-240 V~ 50/60 Hz | |
| Required power line (W):<br>*(700 W service socket included)* | 1200 | 1750 |
| Absorbed power (W): (*)<br>*(fan and light on only)* | 465 | 774 |
| Window glass UVC radiations retention (%): | 98 | |
| Combustible gas fixture max pressure (mbar): | 20 | |
| Inert fluids/vacuum fixture max pressure (bar): | 4 | |
| Electrical service socket max current (A): | 3 | |
| **WEIGHT AND SIZE** | | |
| Weight (kg): | 256 | 360 |
| Overall size L x D x H (mm):<br>*(without support stand)* | 1380 x 795 x 1450 | 1990 x 795 x 1450 |
| Front aperture size L x H (mm): | 1230 x 200 | 1840 x 200 |
| Working space size L x D x H (mm): | 1230 x 600 x 700 | 1840 x 600 x 700 |
| **MATERIALS** | | |
| Main structure: | cold rolled steel, stove enamel coated RAL 7035 + ABS plastics | |
| Working space surface: | stainless steel AISI 304 - 2B finishing | |
| Front window: | laminated safety glass | |
| **PERFORMANCES** | | |
| Laminar Air Flow mean velocity [EN 12469](m/s): | 0,33 ÷ 0,40 | |
| Inflow Air Barrier mean velocity [EN 12469](m/s): | 0,53 ±10% | |
| Exhaust Air flow rate (m3/h): | 480 ±10% | 600 ±10% |
| Exhaust Air flow ratio (%): | 30 ±10 | |
| Apf - Aperture Protection Factor [EN 12469]:<br>*(Retention efficiency at front aperture)* | ≥1,0 x $10^5$ | |
| Working space air cleanliness class [EN 14644-1]: | ISO 5 | |
| Illuminance [EN 12469] (lux): | >850 | |
| Sound level [EN ISO 3744] (dB[A]): (**) | <56 | <60 |
| Vibration [EN 12469] (mm RMS): | <0,005 | |
| Max increase inside cabinet in temperature from the ambient [EN 12469] (°C): | <5 | |
| **FILTERS** | | |
| Filters efficiency class [EN 1822-1]: | H14 (***) | |
| Filters global MPPS efficiency [EN 1822-1](%): | 99,995 | |
| MPPS diameter [EN1822-1](µm): | 0,1 ÷ 0,3 | |

* Motorblower on, lights on (flow 0.28m/s, LED lights)

** Measured in operating conditions. Actual values at customer site may be different due to room structure

*** Efficiency higher than ULPA (Class F) as per IESP-RP-CC001

# 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.

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 $CO_2$ Incubator*, the **S@fegrow 188**, 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 Regenerative Medicine and Advanced Cell Therapy.







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CELBIO SIGAR

Quality Management Systems certified according to ISO 9001 and ISO 13485 international standards