

YOUR SAFETY IS OUR COMMITMENT.

BIOAIR

Distributed by
BLOCK Technology CZ&SK

www.blocktechnology.eu





INDEX

More than 40 years of experience	4
Product protection	6
Cross protection	10
CO ₂ Incubator	16

OVER 40 YEARS OF EXPERIENCE

BioAir has been manufacturing Biohazard and Laminar Air Flow cabinets since the early '70s, when the Gelaire® brand became the “gold standard” for airborne contamination control in laboratories all over the world.

A family of Recirculating Fume Hoods, based on the adsorption of toxic vapors by charcoal filters, was successfully introduced a few years later, thus positioning the Company as the only one seriously focused on the protection of its operators, in line with its inspiring motto “Your safety is our commitment”.

This unique know-how and insistence on quality were continually developed, and 25 years on, under the name of BioAir®, the entire range was completely re-designed to meet the changing requirements of laboratory staff and increasingly stringent regulations.

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

Today, in a facility occupying over 2,800 square meters, BioAir manufactures a full range of microbiological safety cabinets, laminar flow cabinets and fume cupboards, with over 15 models, many of which available in different sizes. Customized models and cabinets designed for specific applications can be produced by our team of skilled engineers and operators.

Decades of experience in sales and support for cell biologists have enabled BioAir to give the market an extremely innovative CO₂ Incubator, the Safegrow® PRO, the fruit of deep knowledge of the optimum conditions required for critical tissue culture methods and input from scientists engaged 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 in pharmaceutical and healthcare production facilities.

PLUS BIOAIR

MADE IN ITALY

Our products are designed and produced in Italy, drawing on the long tradition and internationally recognized high quality of Italian manufacturing, to bring you the best equipment for your safety.

TRADITION AND EXPERIENCE

All our Microbiological Safety Cabinets were designed with your safety in mind and that's a task where even the smallest details count. Our team stems directly from the company that launched the market for MSCs in Europe, so we put a lot of history and experience into all our products, as well as care over those often-overlooked details that improve your safety.

WE CARE FOR YOU

Thanks to our network of highly trained dealers and distributors, our complete portfolio and long experience in the field, we will always be able to help you find the right product for your needs, no matter how unique they are. And our commitment doesn't stop there: our Service network will make sure your equipment always performs at its best.



PRODUCT PROTECTION



**EXTREME CLEANLINESS
(ISO3)**

LAMINAR FLOW CABINETS

AURA HZ

HORIZONTAL LAMINAR FLOW CABINET

A COMPLETE AND USER FRIENDLY TOOL FOR THE PROTECTION OF HIGHLY SENSITIVE PRODUCTS

The internal design, the air flow aerodynamics and monitoring, the special H14 filter with Micromesh downstream equalising plenum, guarantees the highest performances at the most stringent safety levels and operator comfort.

- ✓ High efficiency washable polyurethane prefilters
- ✓ H14 class HEPA filter
- ✓ Electronic control air speed
- ✓ Working surface in stainless-steel (AISI304)
- ✓ Side panels in tempered glass
- ✓ Micromesh membrane on HEPA filter downstream surface for perfect airspeed distribution
- ✓ Up to four plugs installable near the light on the ceiling of the cabinet to leave working surface free
- ✓ Sizes: 1.2, 1.8



⊕ Lateral Flow Concept side walls

AURA MINI

VERTICAL LAMINAR FLOW CABINET

WHEN SPACE MATTERS

This compact benchtop laminar flow cabinets provide all you need to keep your products clean and protected without taking away your lab space.

- ✓ Centrifugal Motorblower with digital inverter for optimal performance
- ✓ Elapsed time-meter
- ✓ Exhaust filter
- ✓ Removable perforated work surface and back wall of the work chamber made of AISI 304 stainless steel
- ✓ Cabinet outer surfaces made of cold rolled steel with paint finish
- ✓ Front and side panels in 5mm thick tempered glass
- ✓ H14 class HEPA (EN1822-1)
- ✓ Exhaust filter (or pre-filter) type Filtrete® with a gravimetric efficiency higher than 99% on 3 µm particles
- ✓ Optional cover with UV light (includes safety switch to turn off UV if cover is removed from the cabinet)



⊕ Dual operation system

INWARD air barrier. In this configuration an air barrier flows through the front opening and is recirculated with the downflow air by a motor blower. 70% of the air is returned to the work area through the main HEPA filter and 30% is exhausted into the environment through a Filtrete® exhaust filter with gravimetric efficiency of 99% on 3 µm particles. In this configuration an excellent product protection is ensured, as well as an outstanding containment.

OUTWARD air barrier. In this case the air is sucked through the Filtrete® prefilter, mixed with the incoming recirculating air and then filtered through the main HEPA filter into the work area: here 30% of the air is exhausted through the front opening and 70% is recirculated. This configuration ensures the highest product protection. In the OUTWARD configuration this unit can easily be used as an "active PCR" cabinet for DNA carry over blocking.

AURA SDV

VERTICAL LAMINAR FLOW CABINET

This full sized 1.2 m cabinet provides plenty of room to work with sensitive products in a clean environment.

- ✓ Electrically operated front glass
- ✓ Tight seal closure system
- ✓ White painted steel working area to increase lighting
- ✓ Stainless-steel working surface
- ✓ Sizes: 1.2



AURA PCR

DNA CROSS-CONTAMINATION CONTROL ENCLOSURE

These state-of-the-art PCR cabinets are specially designed for pre-amplification sample preparation in controlled environment in order to prevent DNA carry-over. Any aerosol generated during the handling of the post amplification samples cannot enter the cupboard; any molecule of DNA herein contained is subsequently neutralised with the help of UV radiations.

- ✓ Passive PCR enclosure (non ventilated)
- ✓ Fluorescent light turns on automatically when opening the front glass or when UV lights turn off (user selectable)
- ✓ Digital timer for UV lights with memory of the last setpoint
- ✓ 100% UV-safe
- ✓ Front glass divided in three hinged sectors
- ✓ Internal foldable shelf in glass
- ✓ Working surface in chemical resistant polyethylene



⊕ Working area walls in tempered glass 6 mm thick



CROSS PROTECTION



**ANTI-OBSTRUCTION
FRONT GRILL: HIGHER SAFETY
AND COMFORT**



**FULLY STAINLESS-STEEL
WORKING CHAMBER:
BETTER CLEANABILITY**



**TIGHT-SEAL CLOSING
SYSTEM: IMPROVE
YOUR SAFETY**

**MICROBIOLOGICAL SAFETY
CABINETS | BIOHAZARD**

SAFEMATE EZ

CLASS II MICROBIOLOGICAL SAFETY CABINET

STAY SAFE THE EZ WAY

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

- ✓ V-shaped anti obstruction front grill
- ✓ Electrically operated front glass
- ✓ Tight seal closure system
- ✓ Full stainless-steel working area
- ✓ Sizes: 1.2, 1.8



SAFEMATE EVO

CLASS II MICROBIOLOGICAL SAFETY CABINET

THE EVOLUTION OF MICROBIOLOGICAL SAFETY

The new Safemate EVO Series is the culmination of BioAir's more than 30 years of experience in designing and manufacturing microbiological safety cabinets.

Inheriting its predecessors' safety features and longstanding reliability and expanding them with new and improved functionalities, the Safemate EVO Series cabinets embodies once more our company motto.

- ✓ Power efficient EC Motorblower with digital inverter
- ✓ TUV Nord Certification & GS Quality Mark
- ✓ Double skin side walls to improve front barrier
- ✓ One-Knob control system
- ✓ V-shaped anti obstruction front grill
- ✓ Electrically operated front glass
- ✓ Tight seal closure system
- ✓ Full stainless-steel working area
- ✓ Side glasses
- ✓ Sizes: 1.2*, 1.5, 1.8*
(*also available in dual-blower configuration)



⊕ **Textile PlenumPlus technology to improve airflow uniformity and reduce noise**

⊕ **Advanced front glass cleaning system**

SAFEMATE ECO

CLASS II MICROBIOLOGICAL SAFETY CABINET

GREEN EVOLUTION

Safemate ECO Series evolves from our bestseller Safemate Series adding an eco-friendly approach: the new EC Motorblowers enhance significantly the efficiency of the Cabinet reducing operating costs and improving building energy balance thanks to the lower heat output.

- ✓ V-shaped anti obstruction front grill
- ✓ Electrically operated front glass
- ✓ Tight seal closure system
- ✓ Full stainless-steel working area
- ✓ Side glasses
- ✓ Available also in Class I configuration (Operator/Environment protection only)
- ✓ Sizes: 0.9, 1.2, 1.5, 1.8



⊕ **Power efficient EC Motorblower with digital inverter**

⊕ **TUV Nord Certification & GS Quality Mark**

SAFEMATE CYTO

CLASS II MICROBIOLOGICAL SAFETY CABINET FOR CYTOTOXICS MANIPULATION

BioAir cytotoxic drugs preparation Cabinet Safemate Cyto has been designed and built according to DIN12980 and EN12469:2000 standards and provides the laboratory technician with the maximum level of safety against inhalation of aerosols generated during the reconstitution protocols.

- ✓ Triple HEPA H14 filtration system
- ✓ V-shaped anti obstruction front grill
- ✓ Electrically operated front glass
- ✓ Tight seal closure system
- ✓ Full stainless-steel working area
- ✓ Sizes: 1.2, 1.8



- ⊕ Patented BagIn/BagOut system to replace first stage filters safely

SAFEMATE TOTAL

CLASS II TYPE B2 MICROBIOLOGICAL SAFETY CABINET

TOTAL EXHAUST, TOTAL PROTECTION

For all the processes involving the use of some chemicals while requiring the same level of cross protection provided by a Class II cabinets.

- ✓ V-shaped anti obstruction front grill
- ✓ Electrically operated front glass
- ✓ Tight seal closure system
- ✓ Full stainless-steel working area
- ✓ Sizes: 1.2



EMBRYOSAFE

SAFETY CABINET WITH OPERATOR PROTECTION FOR IVF AND STEMCELL MANIPULATION

THE NEW WAY OF WORKING WITH STEM CELLS

EmbryoSafe/StemSafe Series workstations are dedicated to IVF and stem cells manipulation. Temperature, humidity and CO₂ concentrations control together with an aseptic working conditions environment are key factors for a successful and reliable process. For the most demanding applications a biohazard environment is required.

EmbryoSafe/StemSafe is a high retention efficiency recirculating cabinet engineered to provide the same level of safety required by the EN12469:2000 European Standard for Microbiological Safety Cabinets, that offers Product, Operator and Environment Protection with the plus of a working environment dedicated to IVF procedures and stem cell culturing.

- ✓ Integrated light source compatible with Olympus SZX series stereoscopes
- ✓ Integrated glass heated work area with temperature control
- ✓ Front controls for temperature and microscope light intensity & contrast
- ✓ Optional backwall monitor for microscope camera connection
- ✓ Side glasses
- ✓ Stainless steel working area
- ✓ Sizes: 1.2, 1.8 (with dual microscope option)



- ⊕ High level protection (Apf >10⁵)

CO₂ INCUBATOR



EASY TO CLEAN



HIGH RELIABILITY



HIGH UNIFORMITY



Safegrow detail



SAFEGROW PRO

CO₂ INCUBATOR

DESIGNED FOR COMFORT

With their high performance and high quality, the Safegrow incubators provide the ideal environment for cell growth, whether you are using primary cell lines or stem cells.

Comfort for cells...

The Advanced Direct Heating system, with its 4 independently controlled elements and 7 thermal sensors, provides unparalleled temperature uniformity and the solid-state IR CO₂ sensor guarantees the most precise control on gas levels.

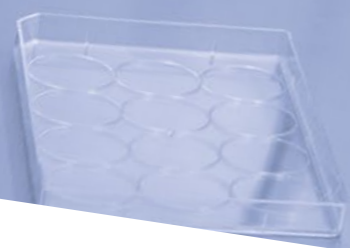
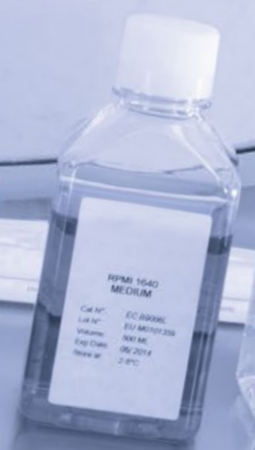
...and users!

The seamless internal chamber and the fully removable shelving system with 4 non-perforated shelves allow for extremely easy and effective cleaning! The integrated on-demand High Temperature Decontamination cycle completes the system allowing to keep contamination events under control!

- ✓ 4 solid surface stainless steel removable shelves
- ✓ State-of-the-art Direct Heating system
- ✓ IR CO₂ sensor
- ✓ High Temperature decontamination cycle
- ✓ No internal fans
- ✓ Fast and accurate recovery of uniformity
- ✓ 188.6L of internal volume



- ⊕ **Stainless steel seamless chamber**
- ⊕ **High Temperature decontamination cycle**



Paul Brumby



BioAir S.p.A.
Via Figino, 20/22 20016 Pero

Distributor for Czechia & Slovakia:
BLOCK Technology
Josefa Sousedíka 372, 755 01 Vsetín, Czechia
Phone: +420 736 104 139
E-Mail: info@blocktechnology.cz

www.blocktechnology.eu

BLOCK
Isolator Technology