

INDUSTRIAL EQUIPMENT OVERVIEW

BioAir Industrial Team

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 complex equipment, ranging from **dispensing/sampling Downflow Booths** and **Clean Rooms**, to **R.A.B.S.** and **Isolators** for highly active powder processing.

BioAir Industrial Product Range

- Modular LAF Systems
- Sampling and Dispensing Systems
- Powder Containment Systems
- Sterile Isolators
- R.A.B.S (Restricted Access Barrier Systems)
- Pass-Through hatches
- Decon Box Modular LAF Systems



MODULAR LAF SYSTEMS

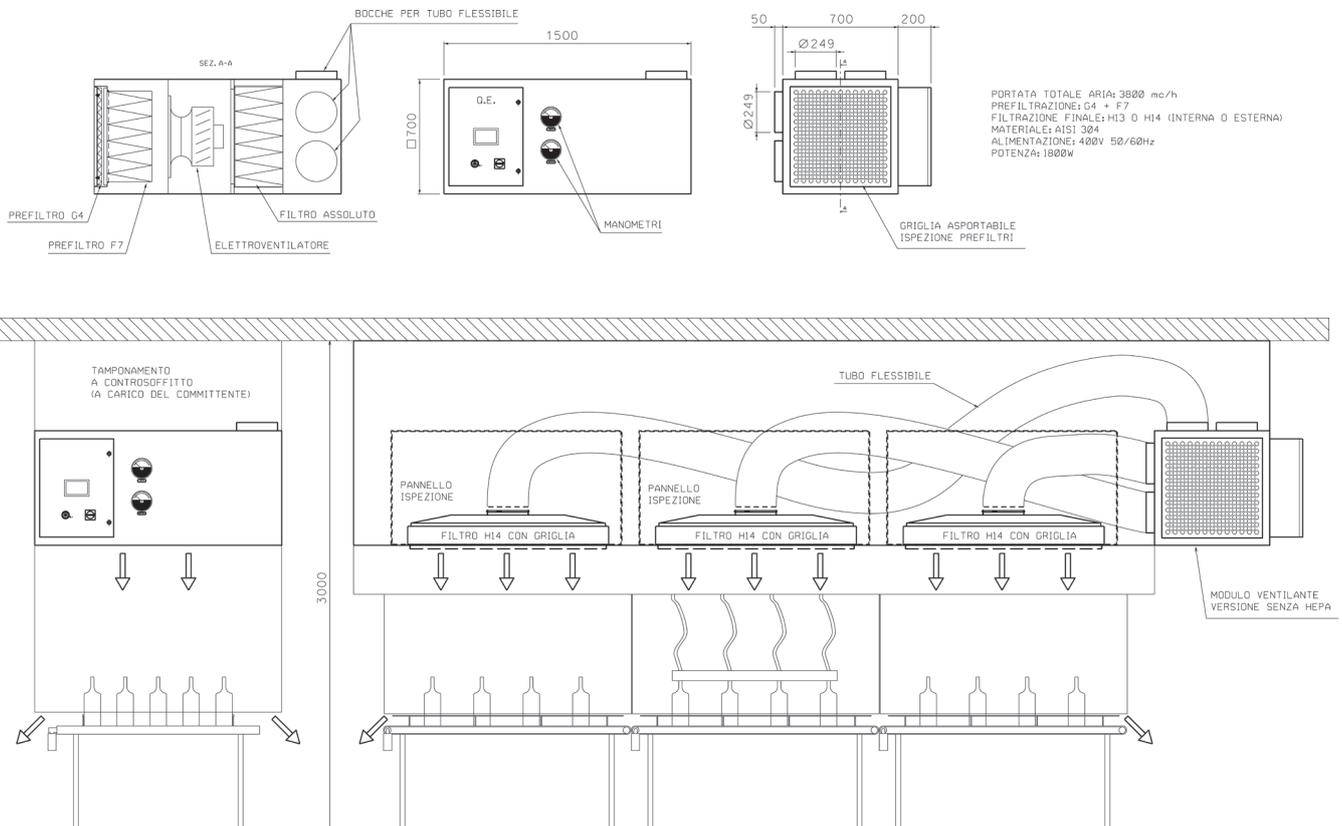
MODUL@IR

- The **Modul@ir** can be assembled according to the needs of the clean area configuration, to build small to room size clean work areas.
- The basic module is a self-contained unit including HEPA filter and fan for delivering class 100 air quality, according to ISO 14644 class ISO 5.
- The units bolted together form a modular and customisable structure.
- IQ / OQ documentation available on request.



F@N FILTRATION UNIT (FFU)

The **FFU** is an alternative compact solution to the Modul@ir series and allows to create clean areas (controlled contamination) through the pressurisation and the ventilation of confined volumes within ISO 7 "at rest". The ISO 5 class is reachable replacing the diffusers with HEPA filters.

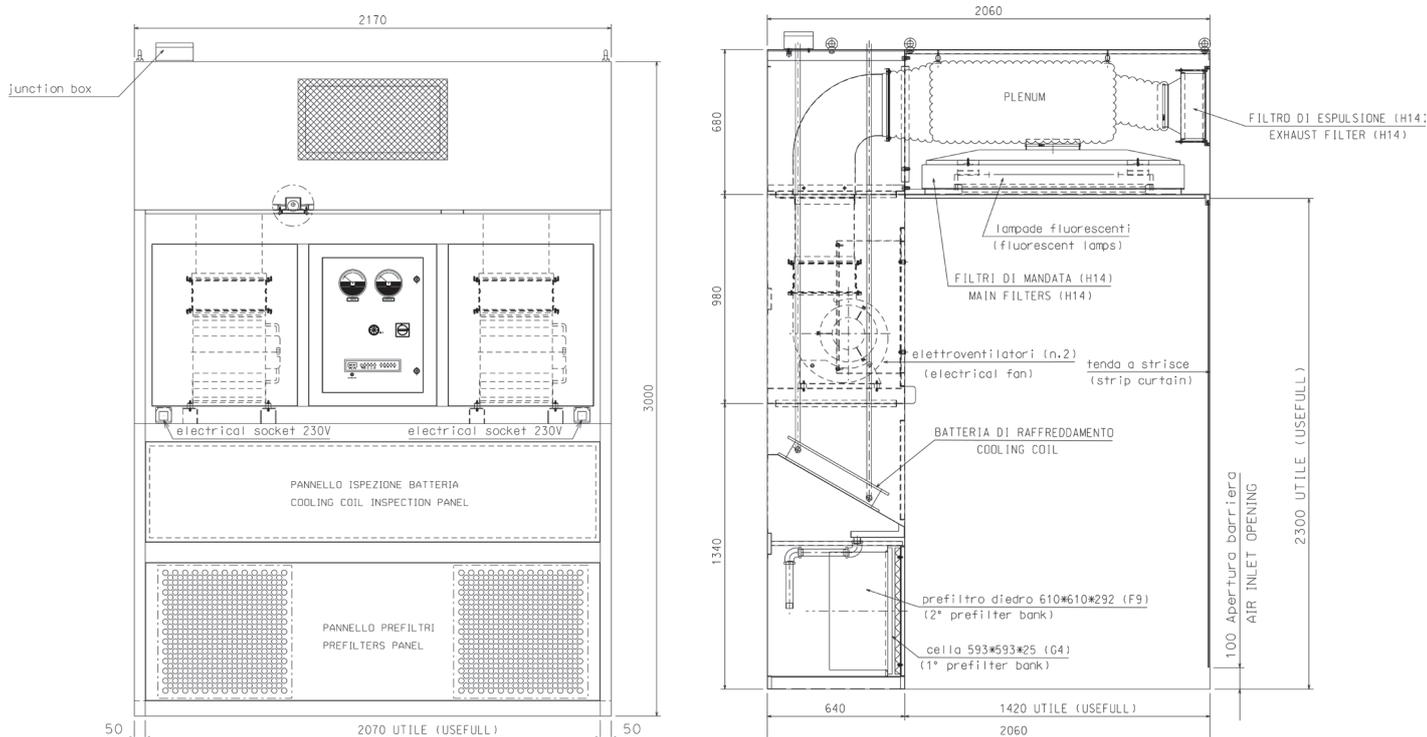


SAMPLING AND DISPENSING SYSTEMS

S@FE BOOTH

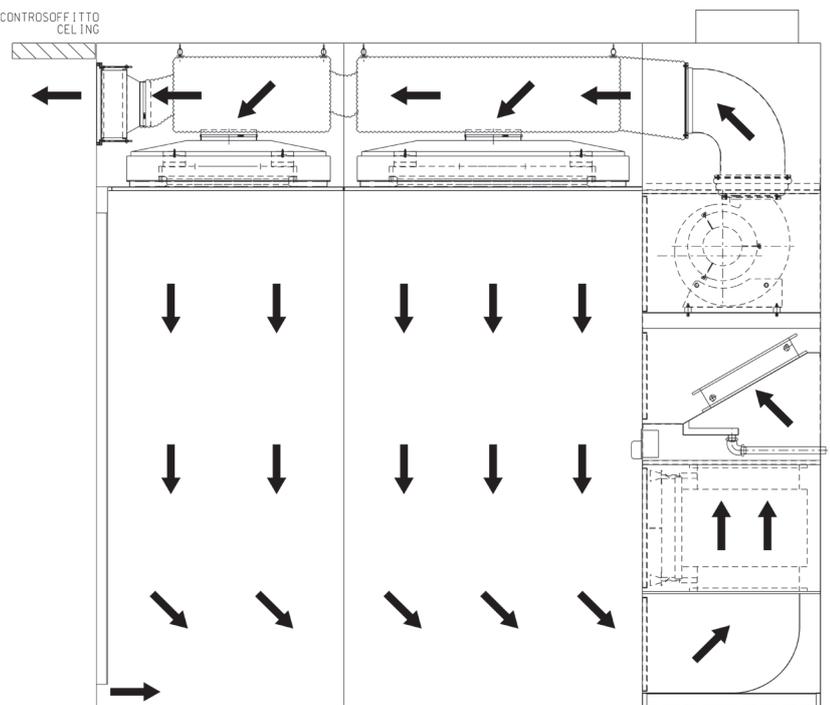
S@fe Booth are designed for handling non-active chemical powders in pharmaceutical processes.

The unit provides a sterile environment to protect the pharmaceutical powder from ambient contamination, cross-contamination between different products and also offers protection to the operators from possible breathing of harmful pharmaceutical compounds and cross contamination from inside-outside environment.



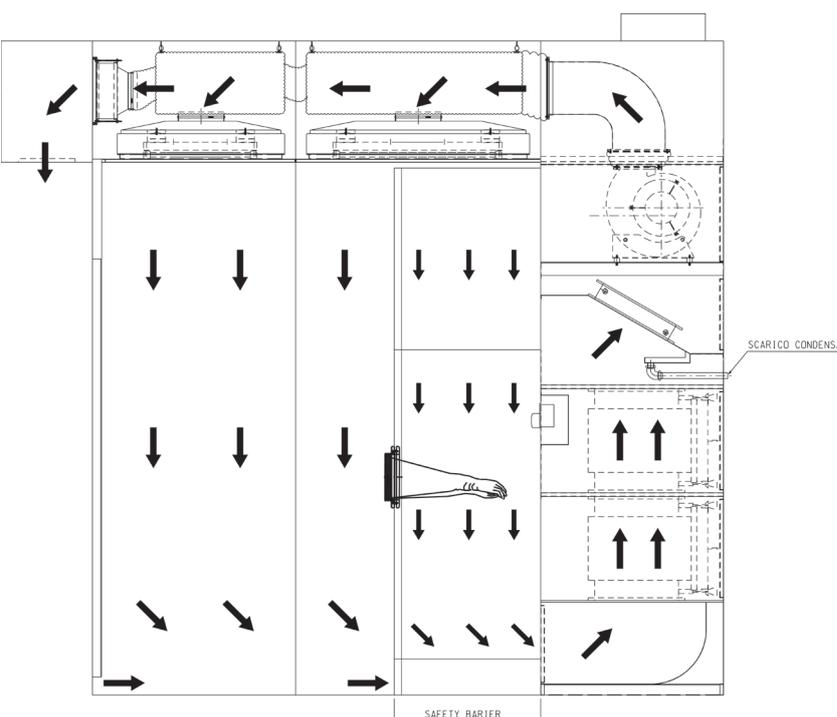
S@FE BOOTH WITH H.E.P.A. PREFILTRATION STAGE

- In this version the S@fe Booth is designed and manufactured to **allow the manipulation of low activity products.**
- Ordinary and extraordinary operations can be performed in total safety.



S@FE BOOTH WITH HEPA PREFILTRATION STAGE AND S@FETY BARRIER

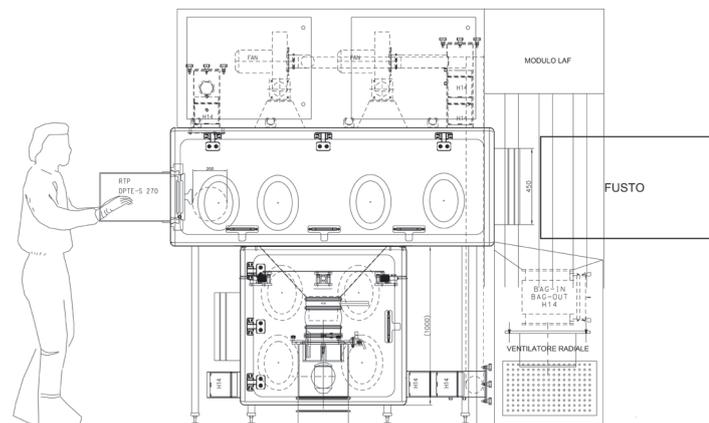
- In this version the S@fe Booth is designed and manufactured to allow the manipulation of **low activity products.**
- Ordinary and extraordinary operations can be performed in safety.
- In the "S@fety Barrier" zone it is possible to manipulate **products of middle activity** with a containment level higher than $10 \mu\text{g}/\text{m}^3$



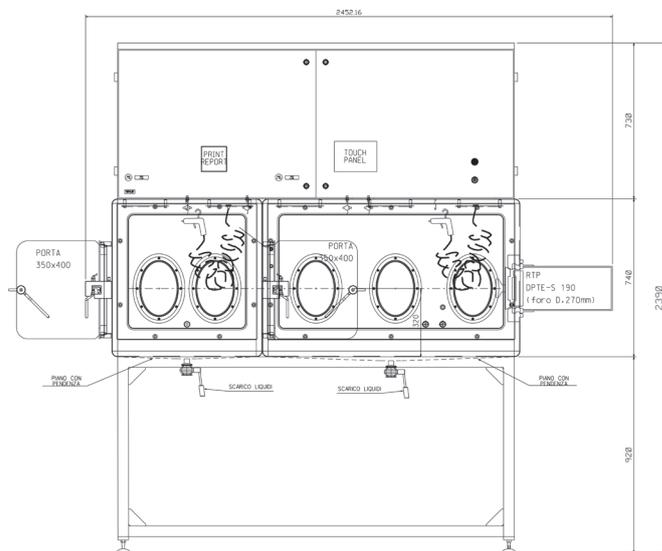
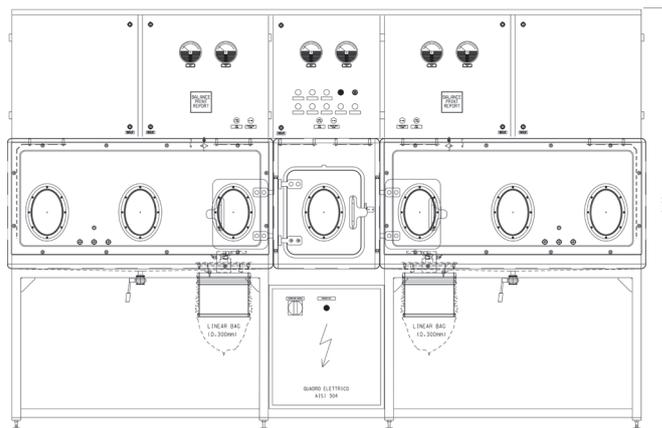
POWDER CONTAINMENT SYSTEMS

CUSTOM MADE ISOLATORS

The **EuroClone Industrial team** follows the customer needs from the URS (User Requirements Specifications) preparation, to the design, build-up and validation of custom made isolators.



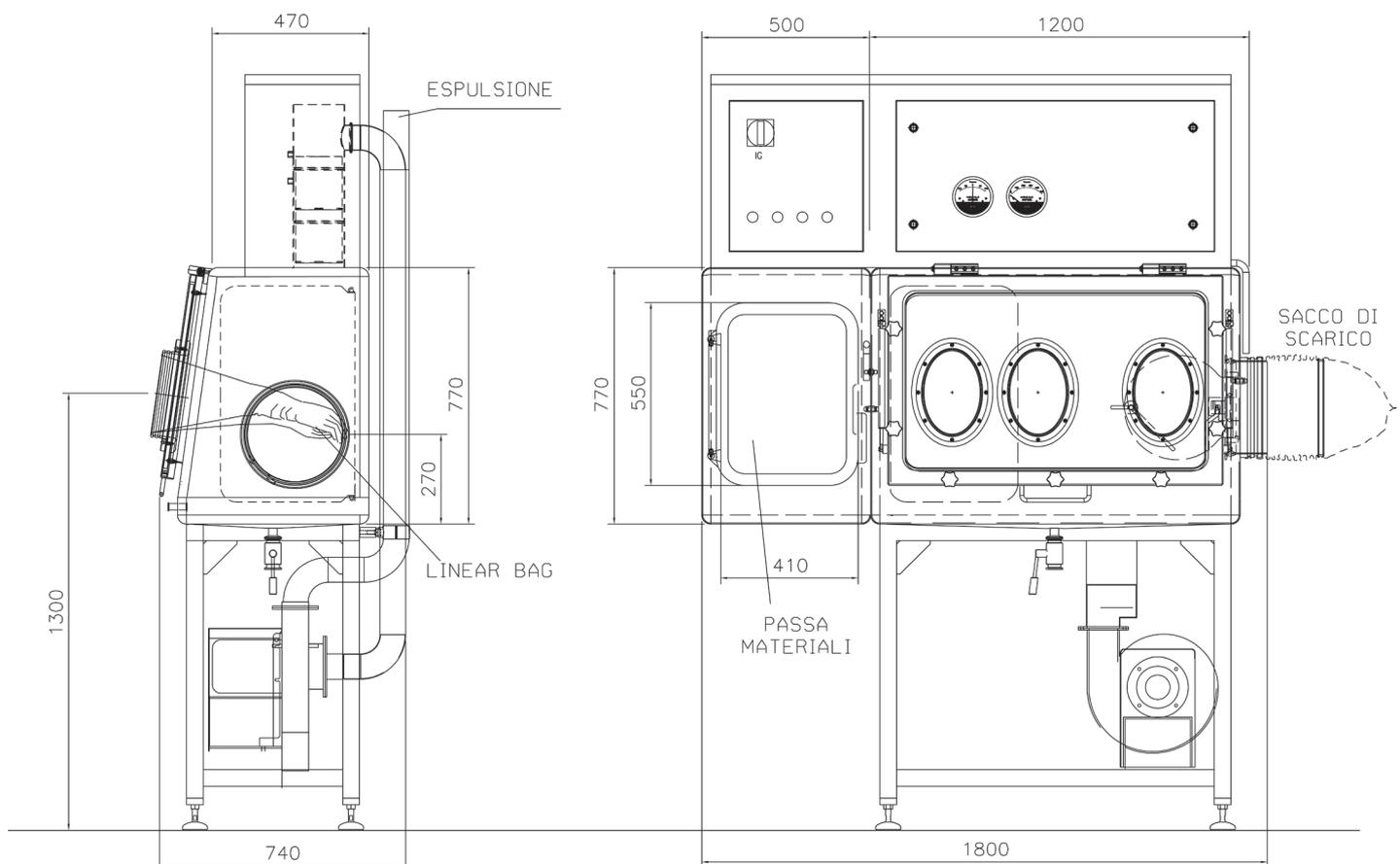
CHARGING & SEAVING SYSTEM



DISPENSING ISOLATOR

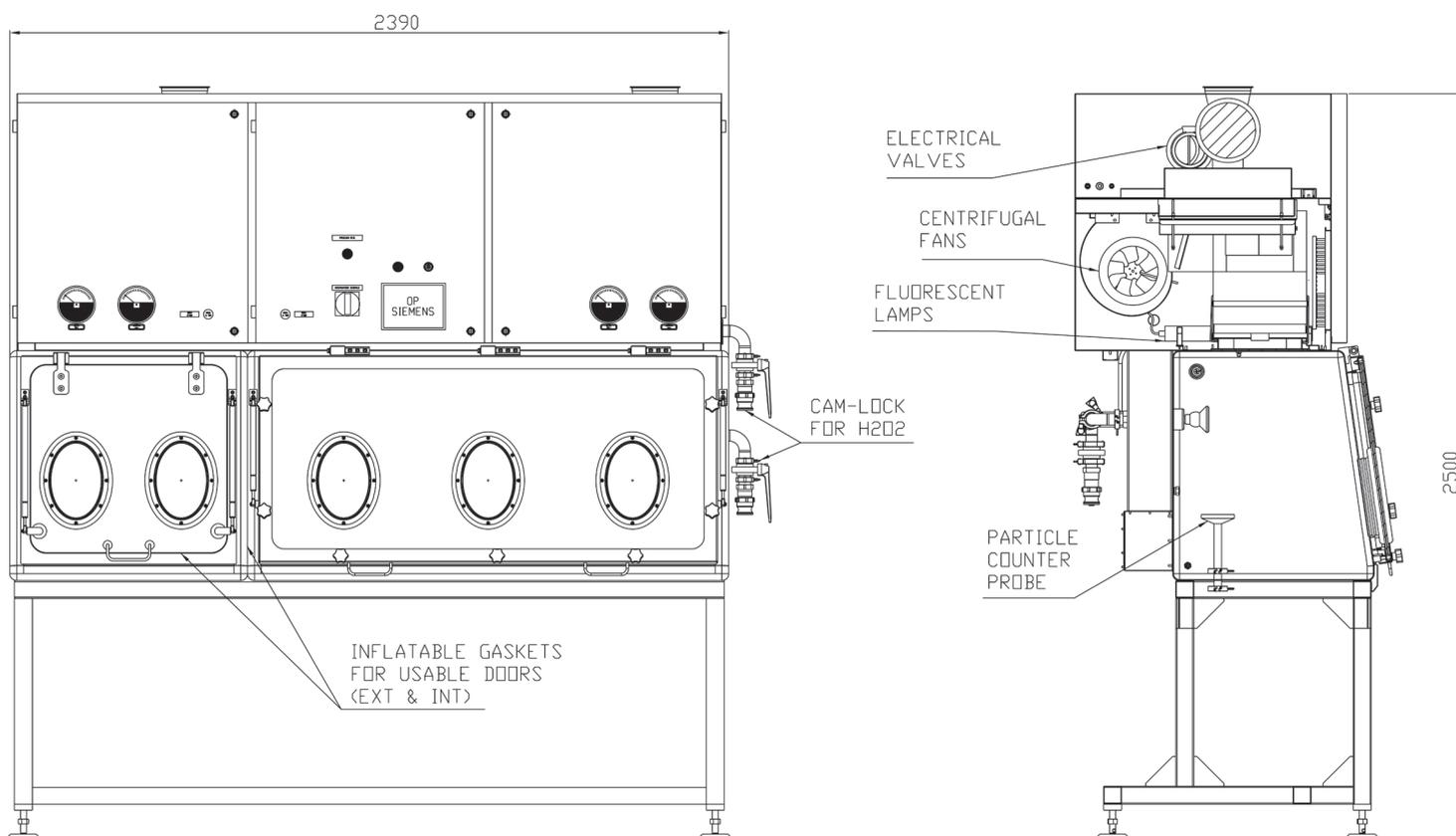
"STAND ALONE" ISOLATOR

- **Powder Containment Barrier Isolator**, a stainless steel glove box, delivers a powder containment, proved, tested and guaranteed. It is designed for dispensing, weighing, charging, offloading and a host of other applications where a totally contained environment is needed for high active products.
- The Barrier Isolator, glove box, gives operator, product and environmental protection.
- It is specifically designed for pharmaceutical industries.



STERILE ISOLATORS

A positive pressure isolator, class A in agreement with GMP/EU, available with Hydrogen Peroxide connections or complete of VHP generator. This isolator is usefull both for sterility tests and for pharmaceutical and laboratory processes that require a sterile environment.



R.A.B.S.: RESTRICTED-ACCESS BARRIER SYSTEMS

When a new filling line is required in pharmaceutical production, we can work together with the equipment supplier to design a dedicated containment area



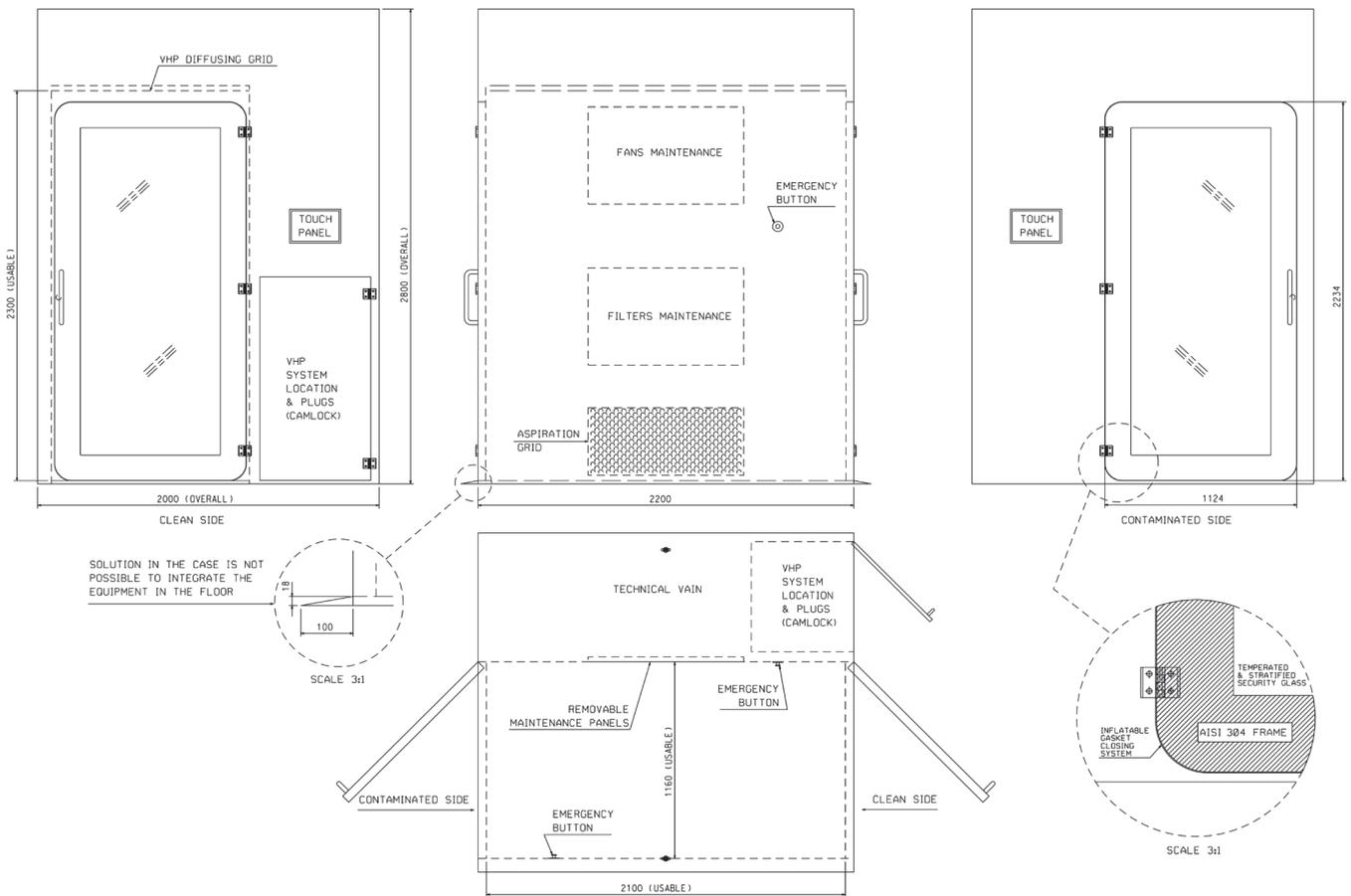
PASS-THROUGH HATCHES

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).

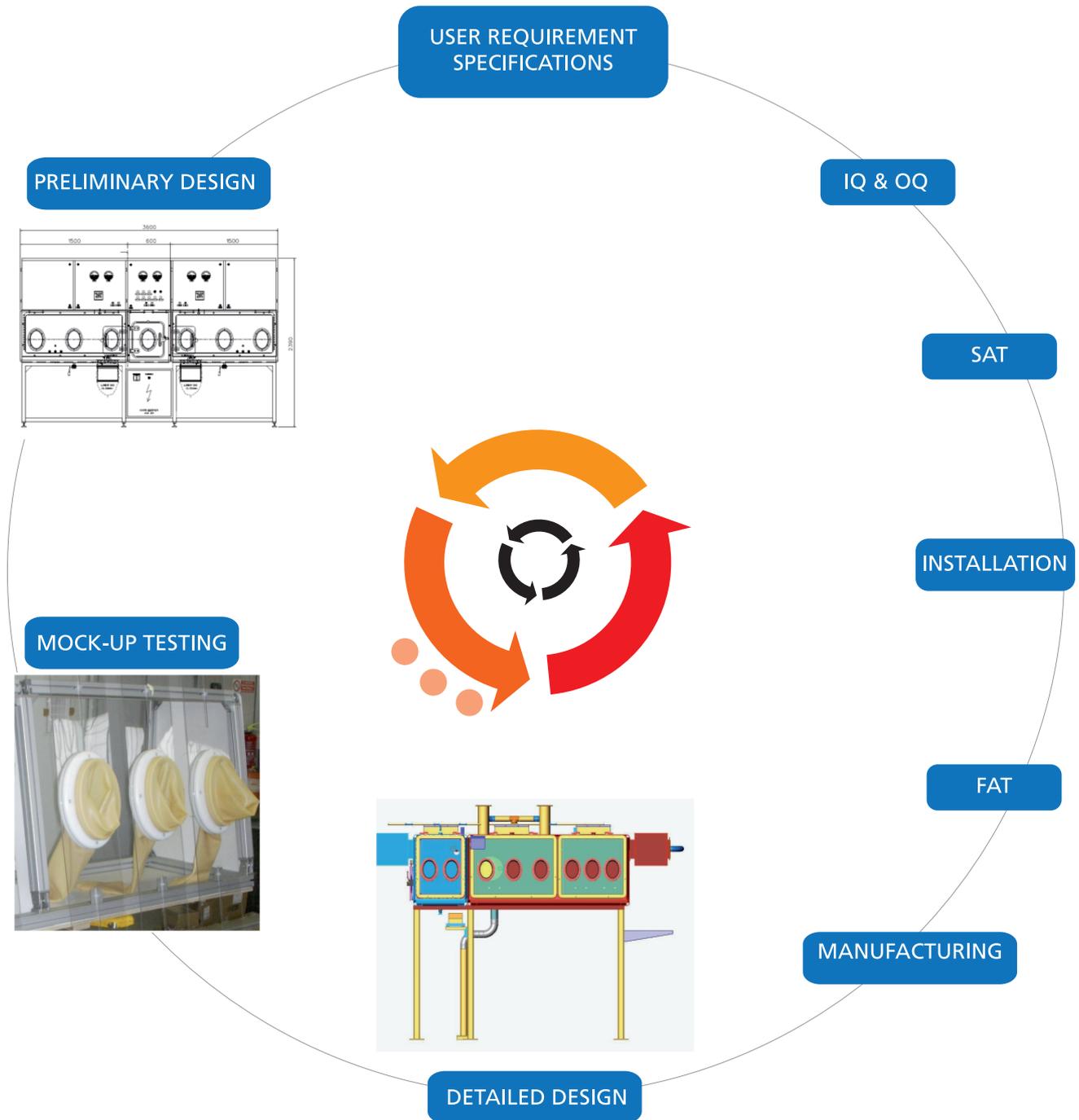


DECON BOX

Bioair “**decontamination box**” is designed to guarantee the sterilization of material exiting from a contaminated room or entering in a sterile room. The sterilization is obtained by use of a Hydrogen Peroxide generator (optional) that is equipped with the necessary controls to perform a complete decontamination cycle (pressure control, cycle time control, hydrogen peroxide concentration control, etc..).



DESIGN CYCLE



EuroClone S.p.A. reserves the right to change product specifications without prior notice

laftech

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EuroClone S.p.A. has a Quality System certified in compliance with UNI EN ISO 9001:2008 and NF EN ISO 13485:2004

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