

BLOCK[®]
Isolator Technology



**BLOCK[®] Isolator Technology,
RABS and Equipment for Clean Rooms**





Solutions That Protect



According to
cGMP & FDA

3D
Designing

Customized
Solutions

Own R&D Team

Experienced
Construction
Team

TÜV SÜD
Certification

Own
Production
Site

1991

Founded BLOCK®

Experience with
Isolator Technology
Since

2004

Made in the
Czech Republic

Standard
Product
Ranges

BLOCK Technology

We develop, produce and delivery Isolator Technology, RABS and Equipment for Clean Rooms. In this field we operate since 2004. We are based in the Czechia, where we have our own top-notch experts, know-how holders and our own production facility for isolator technology and technological equipmnet. We offer both standard ranges and customized solutions according to specific requirements, with the main specialization being the custom production of isolator technology. Our isolator solutions enable flexible and safe material handling and a user-friendly environment that makes work process easier and safer. During process, we always chooses the highest quality materials and pays attention to the precise solution of details.





Member of the BLOCK® Group

We are a member of the BLOCK® Group. The BLOCK® Group brings together companies focusing their complex services, projects and sophisticated deliveries mainly into the clean rooms field. These are especially complete deliveries of investment projects, deliveries of technological units and products to the pharmaceutical and healthcare sectors, and the development of SW for measurement and regulation. At the customer's request, all deliveries are then validated according to good manufacturing practice (GMP) by a group of our own validation engineers. Warranty and post-warranty support service provided by our own trained technicians then goes without saying for the BLOCK® Group. The other companies from the group gradually followed. Thanks to partnership and cordial relationships within the group, we are able to offer our customers a wide range of solutions and services.

BLOCK – Design Activities,
Service and Validation



BLOCK CRS – Implementation
of Capital Projects, Engineering
Services



BLOCK Technology – Isolator
Technology and Technological
Equipment



FOR Clean – Cleanroom Construction
Component Manufacture, Thin Sheets
Processing



A.R. Technik – Process
Automation Systems



- Headquarter BLOCK Technology
- Headquarter BLOCK, BLOCK CRS
- Headquarter FOR Clean
- Headquarter A.R. Technik

Customized Solutions of Isolator Technology and RABS – Restricted Access Barrier System

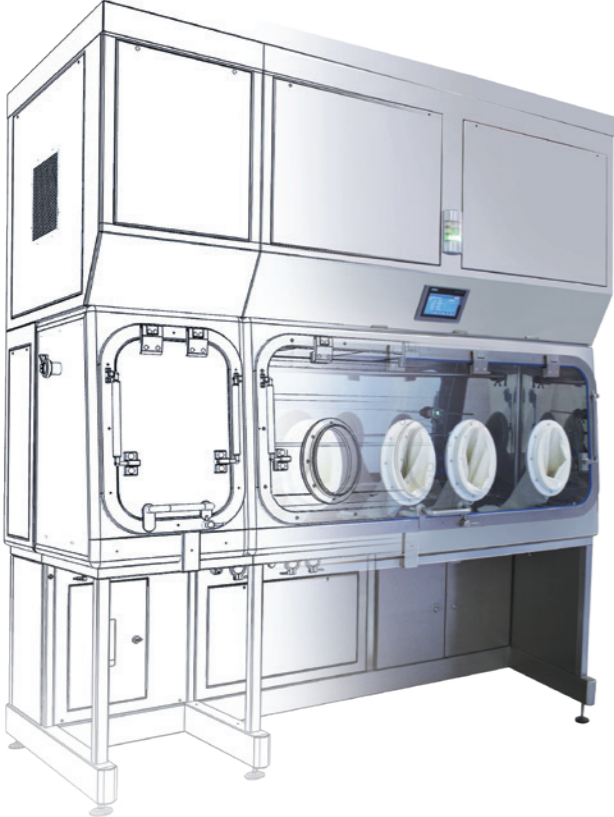
Our main specialization is the custom production of Isolator Technology and RABS – Restricted Access Barrier System. We approach each customer individually and thanks to our own design department and production we respond flexibly to our customer's specifications and requirements. We've made more than one hundred custom isolators and equipment for customers from many European and Asian countries and from Australia.



Our customer solution stands out for its well-thought-through design solution. Utilising the highest quality materials, BLOCK's isolators are built with precision. Constructed from robust stainless steel AISI 304 and AISI 316L, they ensure long-lasting performance across a wide range of demanding applications, including weighing, sampling, handling materials, sterility testing and others. Fully certified in accordance with current standards (cGMP, FDA, ISO, etc.), the isolator technology complies with the highest degree of pharmaceutical safety standards.

Standard Product Ranges

In addition to custom production, we also offer standard products that the customer can configure based on our offer and this way adapt the products to their own needs.



Isolator Technology

- Weighing Isolator / Containment Isolator
- Sterility Test Isolator / Aseptic Isolator
- Modular Laboratory Isolator
- Glove Tester

HPV Decontamination

- Mobile Hydrogen Peroxide Vapour Generator – Puriter
- Integrated VHP Generator (equipment integration into the isolator or the pass-through cabinet)
- Integrated System of Building Decontamination

Clean Room Equipment

- Microbiological Safety Cabinet SafeMate ECO+
- Weighing Booth with Laminar Air Flow
- Laminar Field from Circulation Units

Transfer Systems

- VHP Decontamination Lock
- Continuous Liner for a Partition



Standard Product Ranges

Isolator Technology



Weighing Isolator | Containment Isolator

Isolator suitable for work with API / HAPI and for protection of personnel. The main utilisations of the isolator are for weighing, sampling and handling material. This is a dual-chamber isolator. Working chamber with three gloves intended for work with hazardous materials. Airlock with one glove allowing for loading of material and instruments.



Sterility Test Isolator | Aseptic isolator

Isolator is suitable for sterility testing and product protection. This isolator provides a high degree of product protection being handled in aseptic conditions. The main task is performed in the working chamber where sterility testing of final products occurs.



Modular Laboratory Isolator

Isolator provides a high degree of protection for the personnel working with various hazardous materials. In the version with laminar airflow ("A" class cleanliness) product protection is also ensured. Isolator can be used in pharmacies or hospitals for preparation (dilution and dosing) of cytostatic as well as in laboratories for work with any dangerous or biological materials.



Glove Tester

The tester is used to test the leak tightness of gloves in oval flanges. This testing is specifically performed for isolators and microbiological boxes.

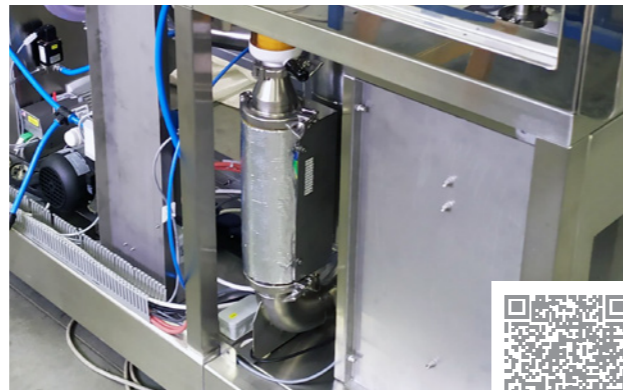
Standard Product Ranges

HPV Decontamination



Mobile Hydrogen Peroxide Vapour Generator – Puriter

Puriter is designed for the sterilization of interior surfaces utilising liquid hydrogen peroxide. The whole process is performed with patented BLOCK Technology. The device is mobile, which means that surfaces in various places may be decontaminated.



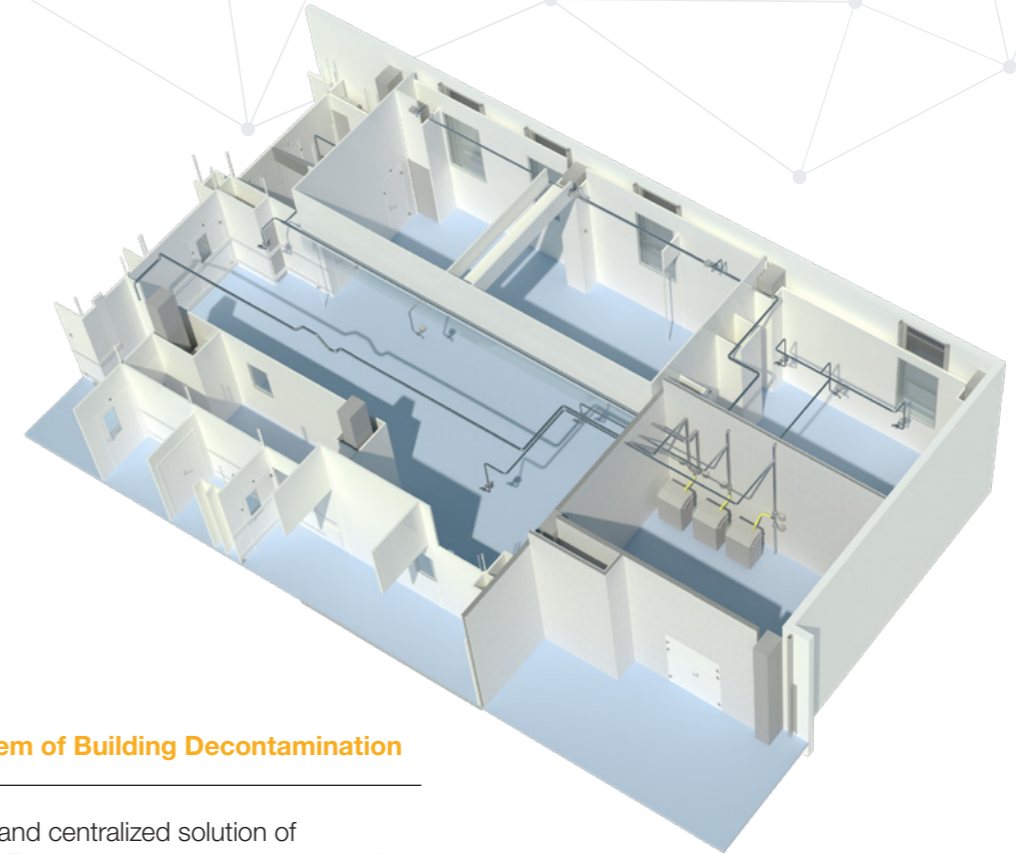
Integrated Hydrogen Peroxide Vapour Generator

Equipment integration into the isolator or the pass-through cabinet.



Integrated System of Building Decontamination

A fully integrated and centralized solution of decontamination. For this variant, we use our mobile HPV generator, which is connected to the pipes distributed to individual rooms.



Standard Product Ranges

Clean Room Equipment



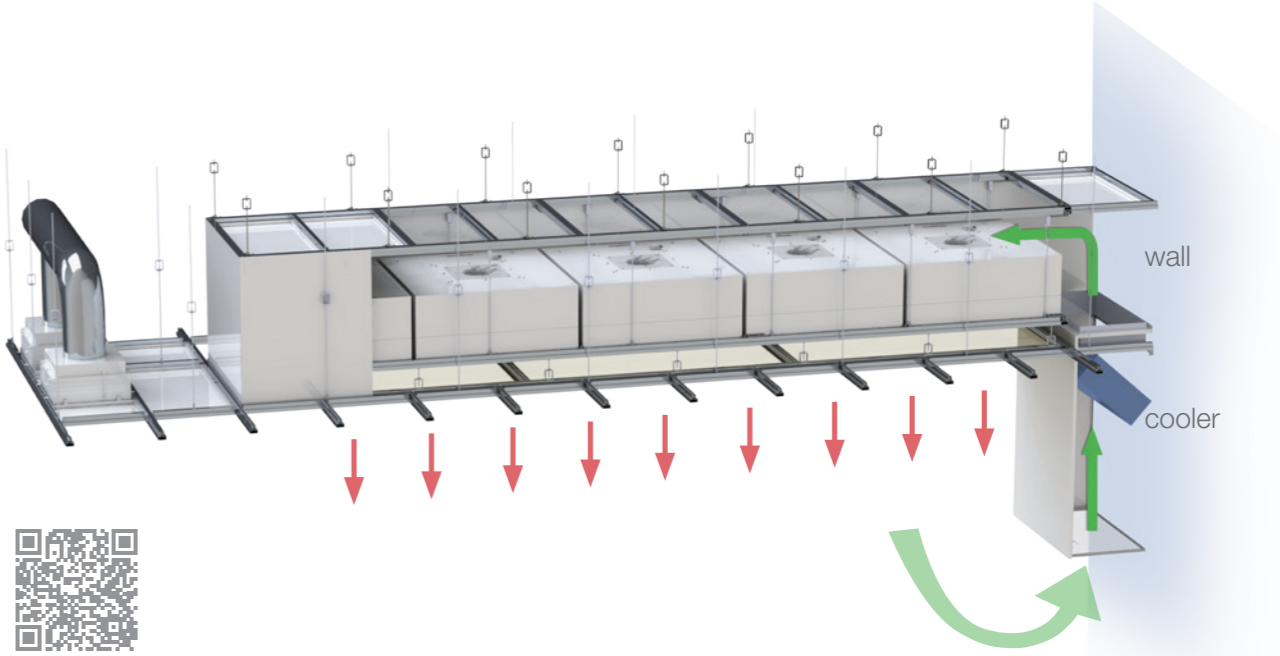
**Microbiological Safety Cabinet
SafeMate ECO+**

Microbiological Safety Cabinet Class II for product and personnel protection, is suitable for all types of laboratories. The SafeMate ECO+ series uses optimized airflow technology using only one fan instead of the usual two. This solution enables energy savings during operation and at the same time a higher level of safety due to better predictability of the cabinet behavior and a simpler setup.



Weighing Booth with Laminar Air Flow

The weighing booth with laminar air flow is designed for sampling and weighing of active materials for pharmaceutical production (API) up to OEB4 level. It consists of a work and service space. The work area is equipped with air conditioning for safe air extraction. A weighing system for manual weighing is usually installed in the interior of the box.



Laminar Field from Circulation Units

Laminar flow ensures a local increase of the purity class in a cleanroom. It is used for cleanrooms that require not only clean air but also intensive air exchange. These laminar ceilings with an air flow and built-in HEPA filters consist of FFU units (circulation units) and are designed to be installed in suspended ceilings. Integrated LED lights are a part of the ceilings.

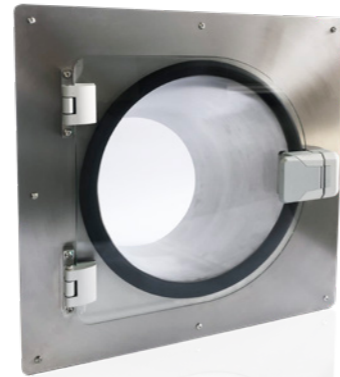
Standard Product Ranges

Transfer Systems



VHP Decontamination Lock

Decontamination locks are most frequently used as a pass-through to transfer material between rooms with different classes of cleanliness (typically B and C), whereas material must be decontaminated (by means of surface sterilization) before entry into the room. Loaded materials are decontaminated using hydrogen peroxide vapour.



Continuous Liner for a Partition

Continuous liner serves as an outlet material pass-through out of a cleanroom with the option of safely wrapping the contaminated content into a foil. A continuous liner is used to transfer material out of the chamber without contaminating the operator. Can be used between rooms with a partition thickness up to 52 mm or 60 mm.

Certification and Standards

TÜV SÜD certification

- ISO 9001:2015 – Quality Management System
- ISO 14001:2015 – Environmental Management System
- ISO 45001:2018 (SGA) – Occupational Health and Safety Management System



According to cGMP & FDA & ISO

Fully certified in accordance with current standards (cGMP, FDA, ISO, etc.), the isolator technology complies with the highest degree of pharmaceutical safety standards.

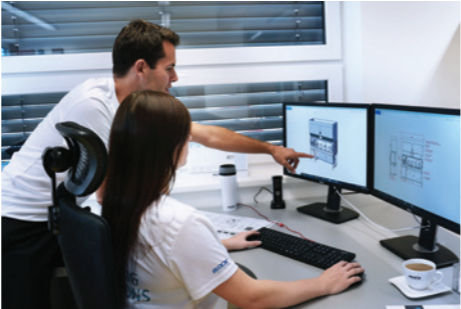
Services

– Complete delivery of isolators on a turnkey basis

Specification
Consultancy (URS)



Optimisation



Production



FAT Test



Maintenance



SAT Test, IQ, OQ,
PQ Validations



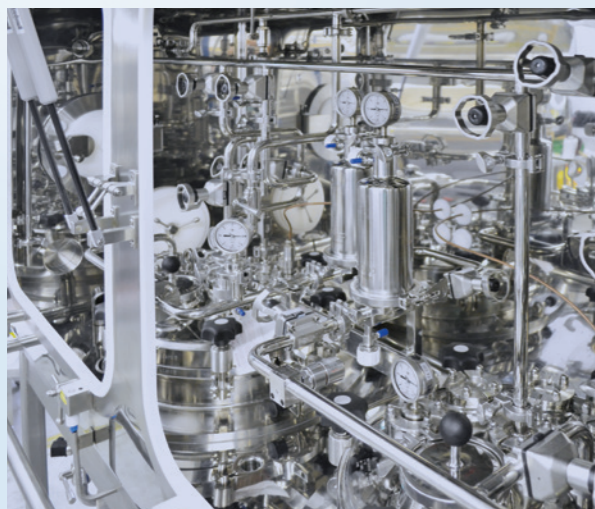
Installation



Logistics

Advantages

- Made in the Czech Republic.
- EU components.
- According to cGMP & FDA & ISO.
- TÜV SÜD certification.
- Remote access for operator support.
- Build from stainless steel – robust and durable.
- Own specialized production with ability of custom-made supplies in a relatively short time.
- Turnkey solutions of complex large capital projects with advanced technology and clean rooms: In BLOCK® Group we can complete your cleanrooms projects with turnkey implementation. We have our top-notch experts and know-how holders who are able to resolve problems across different sectors of cleanrooms and related products.



References



Manufacturing isolator with turbulent flow, Cayman Pharma s.r.o., Czechia



Isolator for product protection - for working with human tissues in a sterile environment, National Tissue Centre Inc., Czechia

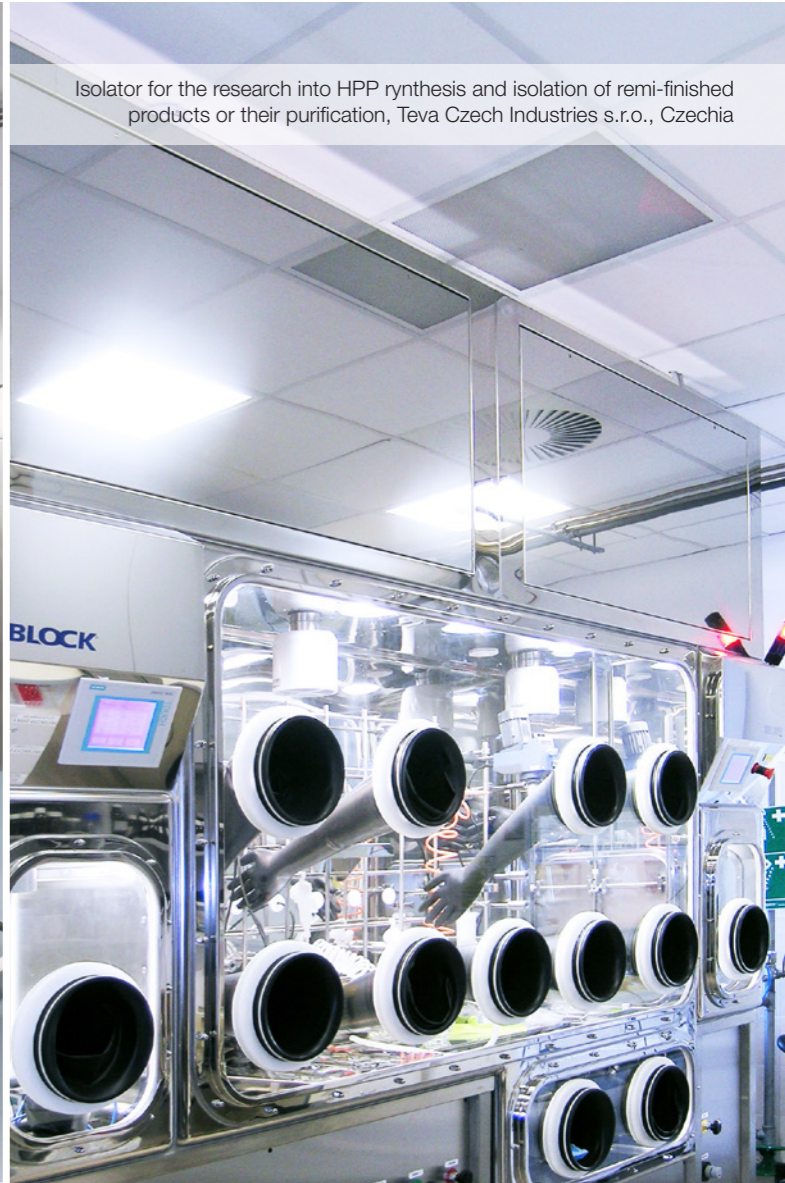
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Isolator for working with mammalian cells and tissues, Biocetix S.A., Poland

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Isolator for work with cytostatics, PLIVA Lachema a.s., Czechia



BLOCK® Isolator for tissue research; 4Medical Innovations, Czechia



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Referenzen



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Mobile Hydrogen Peroxide Vapour Generator – Puriter, Praha Vaccines a.s. / NOVAVAX CZ a.s., Czechia



Isolator for product protection, Praha Vaccines a.s. / NOVAVAX CZ a.s., Czechia

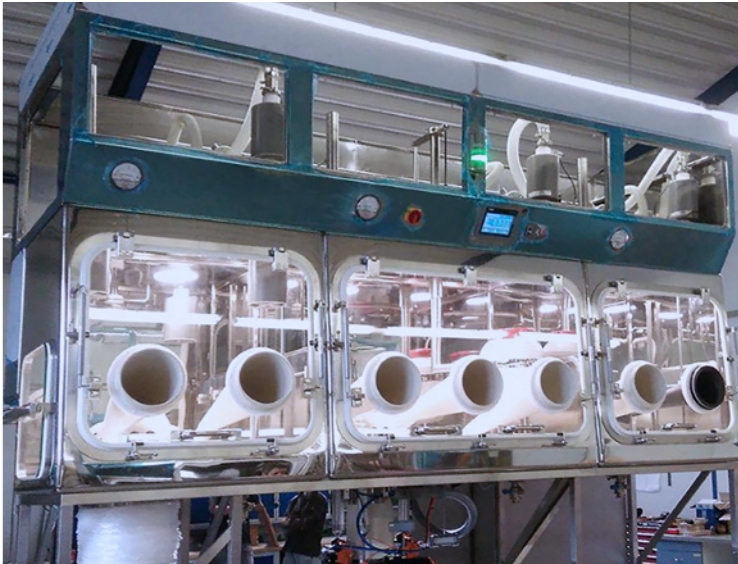
Referenzen



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Isolator for weighing API hormones; Veropharm - Abbott; Russia



Referenzen



Isolator for handling viruses and infectious substances, Biotechnological Hall (Bioveta Tech Hall), Bioveta a.s., Czechia



Laminar flow trolley, Object No. 3 for hormonal preparations, Bioveta a.s., Czechia



Isolator for the handling with vaccines and transfer to formulation boilers, Biotechnological Hall (Bioveta Tech Hall), Bioveta, a.s., Czechia

Referenzen



Negative pressure isolator for protect of the personal, processed material API, light sensitive, humidity sensitive, Synthon, s.r.o., Czechia



Negative pressure isolator for protect of the personal, processed material API, light sensitive, humidity sensitive Synthon, s.r.o., Czechia



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