

Selected

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Isolators & RABS

Decontamination equipment

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Aseptic Filling Isolator

Carnamedica | Poland | 2026

Laminar flow isolator for **aseptic filling of products and transfer of sterile bags, designed for handling non-toxic materials.**

Semi-automatic aseptic filling using a bag holding and sealing device with an integrated dosing system.

The purpose of the isolator is to protect the product from contamination.

The unit operates in **positive pressure** mode under a standard atmosphere.

Three-chamber design supplemented with a **laminar flow box (C4)** for the removal of filled bags.

Leakage class 2 in accordance with ISO 10648-2.



Sterility Test Isolator

VelaLabs | Austria | 2025

The IZV11132 **laminar flow isolator** is designed for **sterility testing of materials, media, and laboratory utensils**.

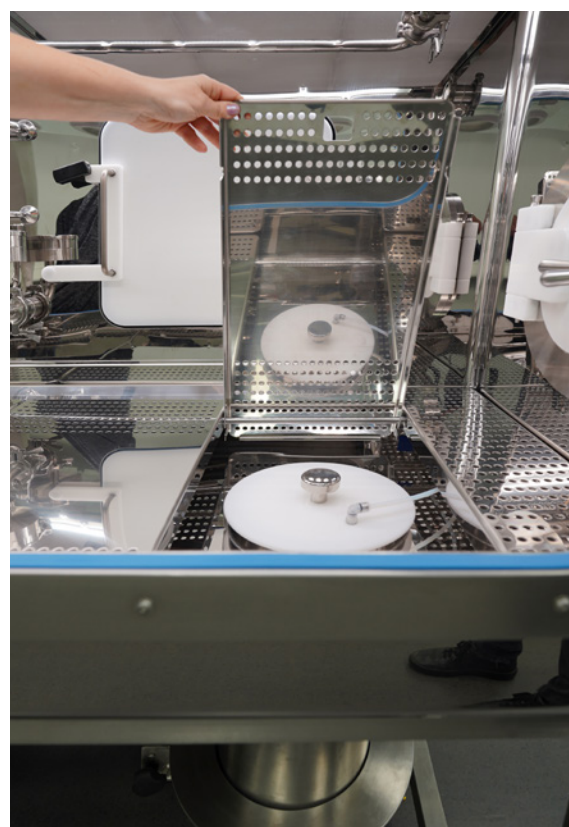
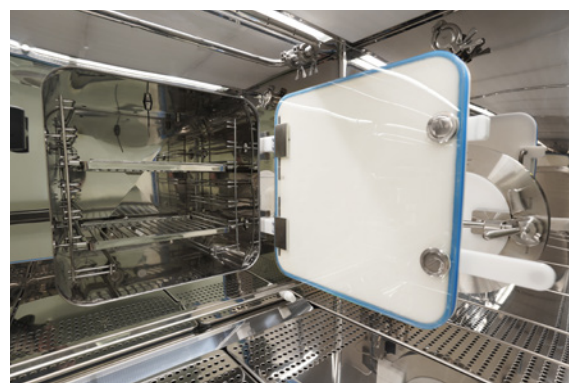
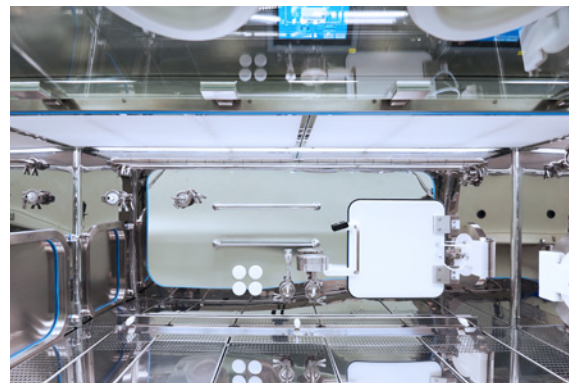
It protects the operator when handling hazardous materials while ensuring a high level of product protection under aseptic conditions.

An **integrated H2O2 vapor generator** enables microbiological decontamination with a 6-log reduction.

The two-chamber isolator operates under **positive pressure** and complies with **Leakage Class 3 according to ISO 10648-2**.

The system features electronic pressure control, H2O2, temperature and humidity sensors, and an HMI control panel.

Supply and exhaust air are **HEPA-filtered**, with exhaust air discharged to a dedicated HVAC exhaust system.



Cell Culture Isolator with Integrated Incubator

Masaryk University Brno | Czech Rep.
2025

Grade A (ISO 5) working area with unidirectional **laminar airflow**.

Dual-chamber isolator operating under **negative pressure**.

Integrated VHP decontamination system using hydrogen peroxide (H_2O_2) vapour.

6-log (10^{-6}) biological decontamination for effective surface sterilization.

Electronic control of pressure differentials and air exchange via HMI.

Leak tightness Class 2 according to ISO 10648-2 / ISO 14644-7.



Isolators for Aseptic Preparation of Cytotoxic Drugs and Monoclonal Antibodies - 3 Units

Wido Lab AB | Sweden | 2025

The **three laminar flow isolators** are designed for the aseptic preparation of cytotoxic drugs and monoclonal antibodies, ensuring both operator protection and product sterility.

Each isolator consists of two airlocks and one main chamber. It **normally operates under positive pressure and automatically switches to negative pressure in case of a spill.**

The system supports H_2O_2 decontamination, complies with **ISO 10648-2 leakage class 3**, and uses HEPA-filtered supply and double HEPA-filtered exhaust air.

Pressure and air exchange are electronically controlled. All components are vibration- and sound-isolated and designed according to cleanroom standards.





VHP Decontamination Lock

Bioveta | Czech Republic | 2024

The decontamination pass-through chamber is designed for the transfer of materials between areas with different cleanliness classifications and for their **surface decontamination using vaporized H₂O₂**. The equipment prevents cross-contamination while maintaining biological safety.

The equipment is fitted with **H₂O₂ concentration, temperature, and humidity sensors**. The maximum permissible leakage rate complies with Leakage **Class 3 in accordance with ČSN EN ISO 14644-7 (ISO 10648-2)**. The equipment operates under **positive pressure** conditions.

The chamber is connected via a dedicated piping system to an external hydrogen peroxide vapor generator integrated into the IZV11127 isolator. The generator vaporizes the H₂O₂ solution and delivers the vapor at the required concentration to the chamber using compressed air. The process achieves a **6-log (10⁻⁶) reduction in biological contamination**.



Dispensing Isolator

Merck & Cie | Switzerland | 2024

The isolator is used for the preparation of solution and handling of high potency API substances of category OEB4 (OEL 1-10 $\mu\text{g}/\text{m}^3$).

The purpose of this isolator is to ensure the safety of the operator when handling hazardous materials and also to protect the materials being handled from air moisture, oxygen and organic solvents.

Turbulent flow.

The device operates in **negative pressure mode**.

Tightness class 3 according to ČSN EN ISO 14 644-7 (ISO 10648-2).

Cleanliness class "C" inside the chambers according to EU GMP.





Isolator with Integrated Vacuum Dryer

Merck & Cie | Switzerland | 2024

The isolator is used for the preparation of solution and handling of high potency API substances of category OEB4 (OEL 1-10 µg/m³).

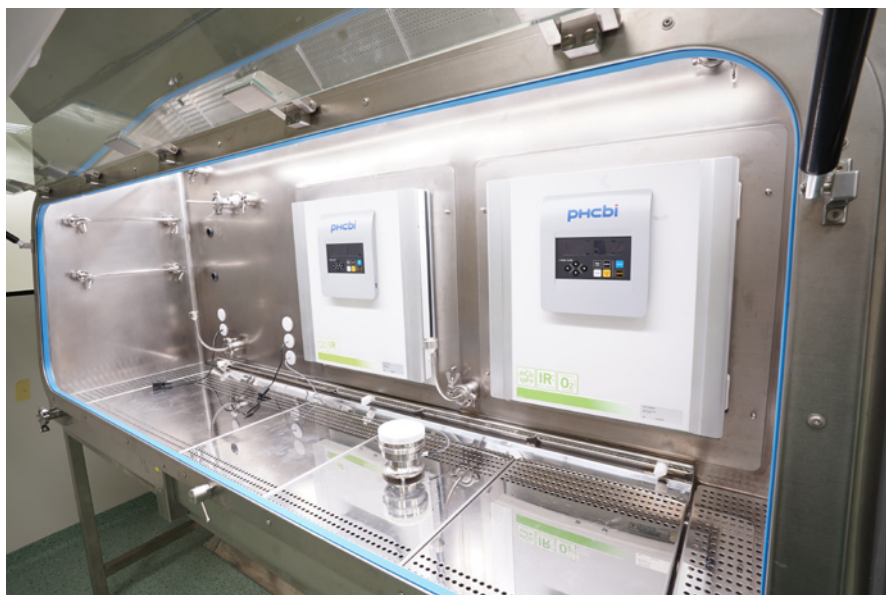
The purpose of this isolator is to ensure the safety of the operator when handling hazardous materials and also to protect the materials being handled from air moisture, oxygen and organic solvents.

Turbulent flow.

The device operates in **negative pressure mode**.

Tightness class 3 according to ČSN EN ISO 14 644-7 (ISO 10648-2).

Cleanliness class "C" inside the chambers according to EU GMP .



Aseptic Isolator with 2 Incubators

Vet Cell Tech | Poland | 2024

This isolator can be used for the **incubation of samples, observation under the microscope and centrifugation.**

The purpose of the isolator is to ensure the safety of the operating personnel (protection to $< 0,1 \mu\text{g}/\text{m}^3$) when handling hazardous materials and to protect the product from contamination during aseptic operations.

Laminar air flow in chambers C1 and C2, turbulent air flow in chamber C3.

The device is in over-pressure operating mode.

Tightness Class 3 according to ISO 10648-2.

Purity Class "A" in chamber C1, "B" in chamber C2, "C" in chamber C3 according to EU GMP.



Weighing/Containment Isolator

Oncomed manufacturing | Czech Rep.
2023

Isolator is used for preparation of solutions and manipulation of category **OEB6 API**.

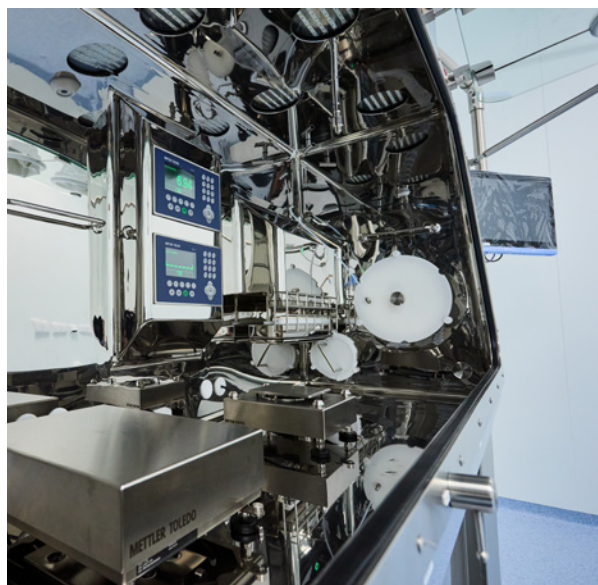
The purpose of the isolator is to ensure safety of the operator during handling of hazardous materials and also to protect the handled materials from air humidity, oxygen and organic solvents.

Turbulent flow.

The equipment is in **vacuum mode**.

Tightness class 3 according to ČSN EN ISO 14 644-7 (ISO 10648-2).

Cleanliness class "C" according to EU GMP.





Compounding Isolator

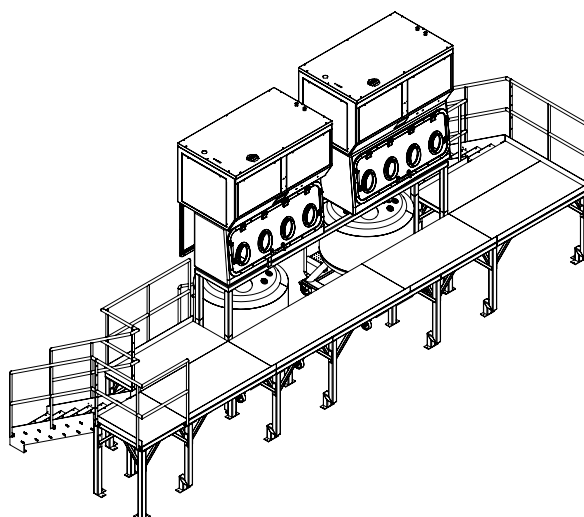
Oncomed manufacturing | Czech Rep.
2023

Isolator workplace with turbulent flow for the preparation of solutions and handling of high API category **OEB6 (OEL 0.01 µg/m³)**.

Negative pressure isolator is connected to other manufacturing formulation equipment.

The purpose of the isolator is to ensure the safety of the operator when handling hazardous materials and also to protect the handled materials from atmospheric moisture and oxygen.

A **formulation tank with a volume of 500 L** is connected under the isolator using a butterfly valve (Split Valve), which is used to mix products. The boiler is connected to the isolator using a flexible element. After the formulation is completed, the product is pumped into transport tank.





Isolator Workplace for API Production

Cayman Pharma | Czech Republic | 2022

The isolator workstation is used for API production .

The purpose of the isolator workstation is protection of the worker handling highly efficient substances as well as protection of the manipulated materials from air humidity and oxygen.

Due to the integration of the devices into the isolator and the need to operate them, the isolator is designed as double-sided.

The device is in a **negative pressure** mode.

Leak tightness class 3 according to ISO 10648-2.





Isolator with Connection to Filter Unit

Synthon | Czech Republic | 2021

Isolator workplace for weighing highly active ingredients and specific materials.

It protects personnel from hazardous substances and materials from humidity and oxygen. The device operates in vacuum mode and complies with **Class 3 leakage requirements according to ČSN EN ISO 14644-7 (ISO 10648-2)**.

The isolator interior meets EU GMP Grade C requirements.

Isolator Workplace - Processed Material API, Light Sensitive, Humidity Sensitive

Synthon | Czech Republic | 2021

Processed material API, light sensitive, humidity sensitive.

Negative pressure inside for protect of the personal.

Turbulent flow.

Class of cleanliness „C” respond ISO class 7.

Leak tightness class 3 according to ISO 10648-2.

Right main chamber is connected to a microbiological safety box.



Pass-Through VHP Sterilizer for Pharmaceutical Manufacturing

Biofaktor | Poland | 2019

For Biofaktor, we delivered a turnkey pass-through VHP sterilizer with a **2,230 L working chamber**, designed for the decontamination of materials and machine change parts using **30% hydrogen peroxide (H2O2)**.

The project included a **complete turnkey implementation**, from manufacturing and FAT/SAT testing through installation and commissioning to IQ/OQ qualification in compliance with GMP requirements.

The sterilizer complies with **FDA 21 CFR Part 11 requirements** and is equipped with a modern **Siemens SIMATIC control system**.



Isolator Technology for Working with Mammalian Cells and Tissues

Bioceltix | Poland | 2019

Isolator designed for working with mammalian cells and tissues (tissue preparation, tissue separation, cell incubation, etc.)

Laminar flow

Positive interior pressure inside for product protection

"A" Class cleanliness according to EU GMP

Leak tightness class 3 according to ISO 10648-2



Isolator Technology for Working with Hazardous Materials

CARBOGEN AMCIS AG | Switzerland | 2019

Isolator designed for working with hazardous materials which are sensitive to oxygen.

Negative interior pressure.

Turbulent flow.

Leakage class 3 according to ISO 10648-2.

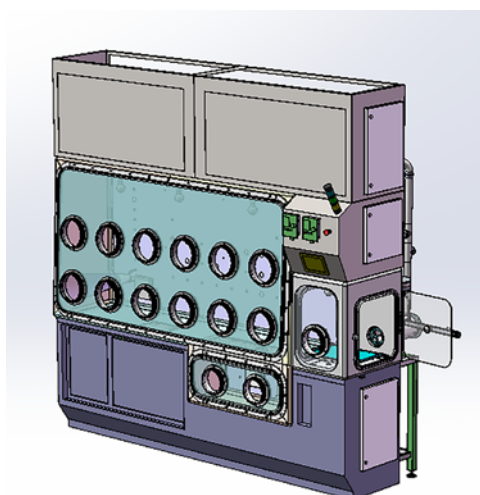
"C" Class cleanliness according to EU GMP.

Custom designed for the customer.



Isolator Workplace for Research into HPP Synthesis and Isolation of Semi-Finished Products or Their Purification

Teva Czech Industries | Czech Rep.
2014



TIMOTEC



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TIMOTEC processes with TÜV SÜD Certification:

ISO 9001:2016

ISO 14001:2016

ISO 45001:2018 (OHS)