

# SHIELDED GLOVE BOX

The shielded glove box model is designed for aseptic handling of sterile radiopharmaceutical solutions under an integrated laminar down flow providing a GMP class A environment.

The main compartment is shielded with 50 mm lead on all sides and includes an internal stainless steel box with rounded corners for easy cleaning. The SGB is available in two widths and can be equipped with an airlock or with a preparation isolator on the left or right side. Either of these are connected to the main compartment with inner, airtight, lead shielded sliding doors.

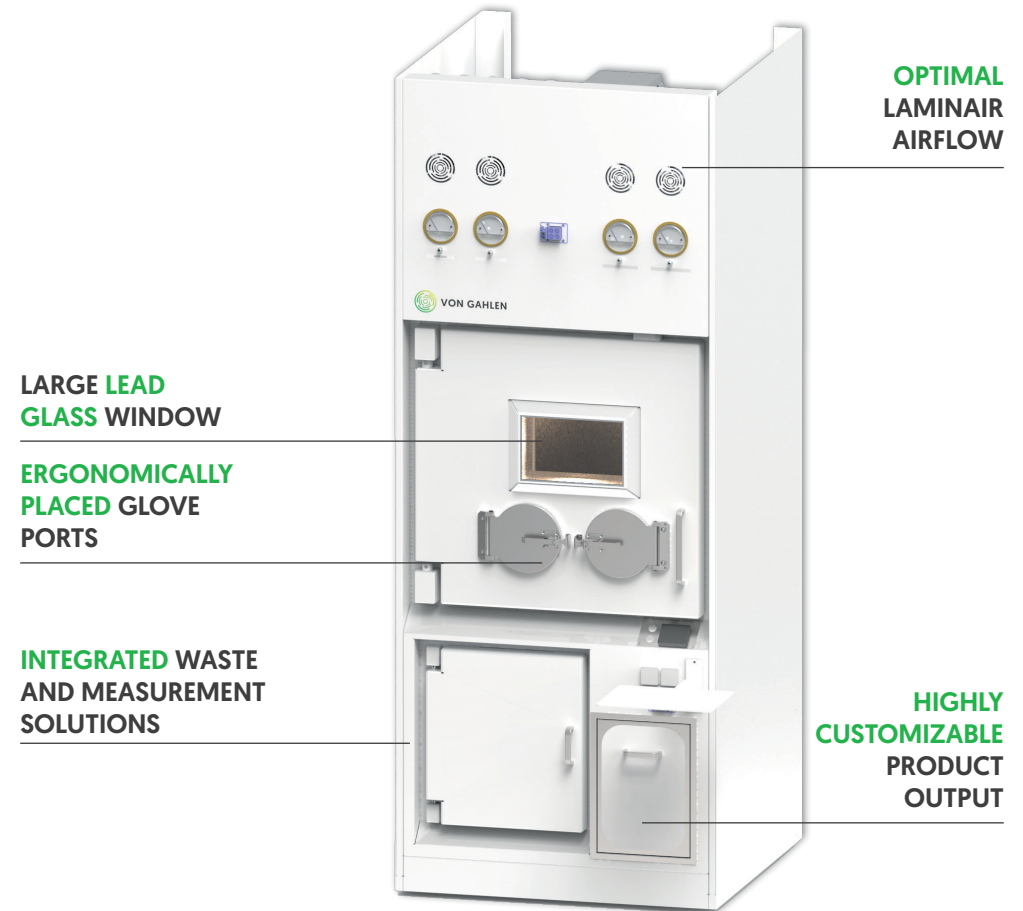
These compartments help you to design the required cascade of air quality values needed to dispense your radiopharmaceutical solutions according to current GMP requirements.

 **Model VG-SGB-LDF**

## KEY FEATURES

- Glove ports for ergonomic manual handling in the cell
- Product retrieval drawer
- Ion chamber shielding with ionization chamber lift
- Exterior smooth finish easy to decontaminate
- Steel structure built to support all components, lead is not used for any structural support
- Highly configurable options

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## OPERATOR / PRODUCT SAFETY

- 50 mm lead shielding in all walls, roof and floor
- Exterior smooth finish easy to decontaminate
- Internal stainless steel box 316L, optimal micro-surface treatment
- Interior finish complies with pharmaceutical regulations for cleaning and validation
- Air inlet: HEPA filter
- Air refreshes 200 times per hour
- Built-in laminar down flow with 99,995% efficient HEPA filter
- Low temperature Grade A with flow area  $\pm 709 / 1024*719$  mm [W\*D]
- Air velocity in work zone: 0,45 m/s
- Recirculation volume:  $\pm 550 / 800$  m<sup>3</sup>/h

## TECHNICAL DATA

- Outside dimensions:  $\pm 1115 / 1470*1072*2650$  mm [W\*D\*H]
- Inside dimensions:  $\pm 709 / 1024*719*790$  mm [W\*D\*H]
- Air inlet: DN65 with HEPA filter, including valve
- Air outlet: DN65, including valve

- Air exhaust: max 100 / 120 m<sup>3</sup>/h
- Power connection in accordance with local requirements
- Exterior smooth finish: traffic white (RAL 9016), easy to decontaminate
- Total weight:  $\pm 6.500 / 7.600$  kg

## OPTIONS

- Preparation box [PB-B]
- Preparation box [PB-AB-LDF]
- Shielded air lock [SA-B]
- Generator vault
- Solid waste vault
- Analog gauge for displaying the pressure drop over the down flow filter
- Open vial dose divider semi-automatic [OVDD-SA]
- Closed vial dose divider semi-automatic [CVDD-SA]
- Closed vials and syringe dose dispenser [ADD]
- Foot pedal control for ionization chamber lift
- Universal support [outlet, cable pass through, arm for laptop or ion chamber control unit]
- Digital pressure gauge instead of analog gauge

- Radiation detection system including safety interlock
- Extended cover plates to specified height
- VHP preparation
- Integrated autoclave

## FUNCTIONS

- Retrieval drawer for collection of product vial incl. Von Gahlen Type A transport container
- Front hinged shielded door, manually operated including two shielded glove ports
- Lead glass window:  $\pm 250*250$  mm /  $300*250$  mm [W\*H] in front door, 50 mm lead equivalent
- Hinged acrylic door with two glove ports and special seals to maintain airtight integrity
- Air velocity display
- Particle counter preparation, incl. isokinetic probe
- Ionization chamber shield for dose calibrator, 50 mm lead
- Ionization chamber lift
- Analog gauge for displaying the internal pressure in the dispensing compartment
- Analog gauge for displaying the internal pressure in the retrieval drawer
- LED internal light fixtures, switchable from control panel
- Duplex electrical outlet inside hot cell, switchable from control panel
- Touch screen HMI
- Compression block including back shielding for custom entry of tubes and cables
- Steel structure built to support all components, lead is not used for any structural support

**MORE INFO?**  
Please contact  
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Or visit  
[www.vongahlen.com](http://www.vongahlen.com)

