

# SYNTHESIS HOT CELLS

The synthesis box model is designed to house most commercially available synthesis units meeting cGMP guidelines. It provides one shielded compartment with shielding of 75 mm lead in all directions. An internal stainless steel box with large radius corners for easy cleaning and an extractable tray for easy and ergonomical access to the module making it a user friendly synthesis box design. The air inlet is Hepa filtered, air is taken from the front side.

Front access is through 2 doors, the primary hinged lead shielded door and a secondary hinged acrylic door is equipped with special seals to maintain airtight integrity. The Synthesis box as a standard is equipped with: shielded target line (from floor level to compartment bottom), power connections and basic gas connections.

Several options like lead glass windows, charcoal filters on exhaust, different gas connections and a laptop support are available for the SB2.

 **Model VG-SB2**

## KEY FEATURES

- cGMP compliant (Class B air inside compartment)
- Space for several features, for example generator vault, HPLC compartment, solid / liquid waste vault, product retrieval vault
- Highly configurable options

**FULLY  
CUSTOMIZABLE**

**ELECTRICALLY SECURED  
FRONT DOOR LOCKS**

**FULLY  
EXTRACTABLE  
TRAY**

**STANDARD  
PARTICLE  
COUNTER  
CONNECTION**

**SHIELDED TARGET  
LINE FROM FLOOR  
LEVEL TO HOT CELL**



**YOUR GUARANTEE FOR QUALITY. FOR SURE.**



VON GAHLEN



### OPERATOR / PRODUCT SAFETY

- 75 mm lead shielding in all walls, roof and floor
- Interior finish complies with pharmaceutical regulations for cleaning and validation
- Internal stainless steel box 316L, optimal micro-surface treatment
- Steel structure built to support all components, lead is not used for any structural support

### TECHNICAL DATA

- Outside dimensions:  $\pm 1200*1030*2650$  mm [W\*D\*H]
- Inside dimensions:  $\pm 742*715*548$  mm [W\*D\*H]
- Hinged acrylic door with special seals to maintain airtight integrity
- Door opening:  $\pm 742*548$  mm [W\*H]
- Air inlet: DN40 with HEPA filter, including valve
- Air outlet: DN40, including valve
- Air exhaust: 6 m<sup>3</sup>/h for Grade B
- Particle counter connection
- Basic gas connections: three technical gasses and one compressed air
- HMI control panel for all controls

- Power connection in accordance with local requirements
- Exterior smooth finish: traffic white (RAL 9016), easy to decontaminate
- Total weight:  $\pm 5.500$  kg without extra options

### OPTIONS

- Lead glass window in front door:  $\pm 150*150$  mm [W\*H]
- Universal large diameter product transfer line system to other hot cells, 75 mm lead shielding
- Extended gas regulation
- Product retrieval vault
- Liquid waste vault
- HPLC Cabinet
- Digital pressure gauge instead of analog gauge
- Internal HEPA/Charcoal exhaust filter
- External shielded HEPA/Charcoal filter
- Universal support (outlet, cable pass through, arm for laptop or ion chamber control unit)
- Radiation detection system including front door safety interlock
- Extended cover plates to specified height

### FUNCTIONS

- Sliding stainless steel tray: 700\*510 mm [W\*D]
- Analog gauge for displaying the internal pressure
- LED internal light fixtures
- Triple electrical outlet inside hot cell, lower outlet switchable from HMI
- Compression block for custom entry of tubes and cables
- Fully shielded target lines from floor level to hot cell with 75 mm lead shielding: two gas target lines, one corrugated guiding tube for multiple liquid target lines and one waste line



MORE INFO?  
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