

SHIELDED LAMINAR HOOD

The shielded laminar hood is designed to provide an aseptic and safe environment for manipulations in High- and Low-energy gamma applications.

This shielded laminar hood can be equipped with a generator safe, which has been designed to safely store up to two generators. The hood provides an aseptic environment for the elution, preparation, and dispensing of compounds labelled with PET and SPECT isotopes.

This laminar hood is operated in a sitting position and has a moveable body shield, including a large lead glass window, which ensures an ergonomic solution.

Designed according to Class II EN1246 and available in several sizes and shielding thicknesses.

Variants	VG-SLH-1300	VG-SLH-1500	VG-SLH-1800
Outside dimensions [mm] (W*D*H)	1.510*870*2.650	1.810*870*2.650	2.110*870 *2.650
Inside dimensions [mm] (W*D*H)	1.260*620*640	1.560*620*640	1.860*620*640
Weight @10 mm shielding [Kg]	850	950	1.050
Weight @35 mm shielding [Kg]	2.090	2.370	2.640
Weight @50 mm shielding [Kg]	2.880	3.260	3.640
Exhaust @ 0,3 m/s face velocity and 457 mm sash (m3/hr)	540	550	650



The images shown are for illustrative purposes only. The actual product may vary in design, color, and specifications.



STANDARD FEATURES

Radiation protection

- Lead shielding on table, side walls, and back wall up to 1.000 mm above working table level.
- Moveable body shield inside the hood for optimal reach, including a large lead glass window.
- Lead glass window shielding capacity is lead wall equivalent.

Sample & product handling

- Microbiological safety cabinet, Class II, EN12469 certified.
- Stainless steel (AISI 304) working area with bottom sink and three cover plates.
- Weight capacity per cover plate: 60 kg.
- Multicolor LED illuminating the safety glass and the working area to indicate the current status and alarms related to the functioning of the cabinet.

Air handling / distribution

- Air velocity in work zone: 0,45 m/s, Grade A.
- Sound pressure level: 49-59 dB [A] [ISO11201].
- Built-in laminar downflow unit with 99,995% efficient H14 filter.



Cleaning

- Interior finish complies with pharmaceutical regulations for cleaning and validation.
- Exterior finish Coating traffic white (RAL 9016), easy to clean.

System operation / control

- Ergonomic design: sloped front and exceptional legroom underneath the cabinet.
- Touch display: Intuitive use and easy-to-use menu navigation in several languages with multiple secured user levels.
- All safety-related parameters are displayed as large graphical images.
- Electrical cabinet is fully serviceable from the front.
- Working height: 838 mm [sitting position].
- Optimally illuminated working area via dimmable non-glare LED (0-1.100 Lux).

Utilities

- Two pieces single power socket 230V inside the cabinet.
- Connectivity panel with one double USB connection and one double CAT6 connection.
- Filter test connection point.
- Electrically driven front sash for ease of operating and exact positioning.
- Front sash with multi-layer safety glass with UV – light absorbing interlayer.
- Electrical cabinet is fully serviceable from the front.
- Integrated 22" monitor in the back wall, format 16:9.
- Motion sensors register movements of people and the resulting disrupted airflow near the work opening and create a clear warning signal.

OPTIONAL FEATURES

- Shielded waste compartment with 50 mm lead, opening in workbench with shielded lid (weight 790 Kg).
- Shielded ion chamber with 50 mm lead suitable for our commonly used Dose calibrators (weight 370 Kg).
- Ionization chamber lift system, foot pedal operated (instead of manual dipper).
- Universal support (outlet, cable pass-through, arm for laptop or ion chamber control unit / Laptop).
- Particle monitoring in the back wall.
- UV-C sterilization system with timer function via touchscreen.
- Clean room integration incl. required cover panels.
- The generator vault is shielded 50 mm and equipped with two elevators for two technetium generators. Integrated beneath the working table on the left side, the weight of the vault is ca. 1.100 Kg.