SHIELDED FUME HOOD

The shielded fume hood is designed and evaluated according to EN 14175-3 and the ASHRAE 110-1995 standards for safely manipulating of radioactive materials in research and medical applications.

This unit has a moveable body shield, including a large lead glass window.

This hood has a front sash equipped with a counterweight for easy positioning. When the sash is raised above 457 mm, it will automatically and gently fall back to the safe level unless locked in place.

The hood is available in several widths and three different shielding thicknesses.

Variants	VG-SFH-1000	VG-SFH-1300	VG-SFH-1600
Outside dimensions (mm) (W*D*H)	1.375*1.200*2.650	1.680*1.200*2.650	1.985*1.200*2.650
Inside dimensions (mm) (W*D*H)	1.000*675*1.230	1.300*675*1.230	1.600*675*1.230
Weight @10 mm shielding (Kg)	1.540	1.695	1.850
Weight @35 mm shielding (Kg)	2.805	3.145	3.480
Weight @50 mm shielding (Kg)	3.665	4.105	4.545
Additional weight frontal barrier (Kg)	155	215	275
Exhaust @ 0,5 m/s face velocity and 457 mm sash (m3/hr)	900	1180	1450

Ergonomic design: sloped front

Large lead glass window

Frontal lead barrier

Operation in a standing position

STANDARD FEATURES

Radiation protection
- Lead shielding on table, side walls, and back wall up to 1.000 mm above table level.
- Moveable body shield: 400 mm (W) including lead glass window 250*300 mm (W*H).
- Lead glass window shielding is equivalent to lead wall.

Sample & product handling
- Internal liner: Phenolic resin (Trespa).
- Worktop Phenolic resin (Trespa).
- High load capacity on worktop: 250 kg (equally divided).

Air handling / distribution
- Exhaust connection is compatible with diameters ranging from 300 to 320 mm. The socket is constructed from PVC elastomer and secured with a tube clamp to ensure an airtight seal (fan not included).

Cleaning
- Interior finish is designed for effective decontamination.
- Removable front panel facilitates easy access to lighting and other electrical components mounted above the hood work chamber.
- Exterior finish is traffic white (RAL 9016) easy to clean.
- Typical light intensity on work surface is >850 lux.

System operation / control
- Working height: 900 mm (standing position).
- Front face velocity airflow alarm/monitoring device (Airflow Alarm).

Utilities
- The electrical cabinet is fully accessible from the front.
- Four single electrical outlets with splashproof cover in front of cabinet (outlet type according to local standards).

OPTIONAL FEATURES

- Basic gas connections.
- Frontal stationary barrier 250 mm in height; shielding is 50 mm of lead.
- Shielded waste compartment with 25 or 50 mm lead, opening in workbench with shielded lid (weight 790 Kg).
- Shielded ion chamber with 25 or 50 mm lead suitable for our commonly used Dose calibrators (weight 370 Kg).
- Ionization chamber lift system, foot pedal operated.
- Universal support (outlet, cable pass-through, arm for laptop or ion chamber control unit / Laptop).
- Lead glass XL, 400 mm in height.
- Connectivity panel (USB, Ethernet).
- Extended cover panels to a specific height for optimum clean room integration.
- Automatic sash positioning system (operator detection).
- Automatic flow control with actuated damper.