

PET Centers

Nuclear
Medicine

Radiotherapy

Diagnostic
Radiology

Environmental
Monitoring

Laboratory
Applications

Industrial
Applications



SAFEFLOW

Class II Biohazard Safety Cabinet

SAFEFLOW is a Class II biohazard safety cabinet with a GMP grade A laminar flow and different shielding configurations; it is designed for the manual preparation of Nuclear Medicine radiopharmaceutical injectable doses.

It is composed by:

- ▣ The main working area
- ▣ The ventilation area above the main working area
- ▣ The service compartment with the shielded lifting system for 99-Tc or 68-Ga generators, the dose calibrator area and the waste bins under the main working area (**Image 1**)

Radioprotection is granted by high purity lead sheets and HEPA filter. The lead sheets, which are all around the working area, are overlapped in the contact sides in order to ensure the radioprotection continuity: in this way any possible radiation leakage through the shielding structure is avoided. The entire working area is internally lined with AISI 316 stainless steel and all the external surfaces are painted in decontaminable epoxy painting.

Sterility is achieved by the Laminar Air Flow and the use of the optional U.V. antibacterial lamp over the complete working area. The high purity level of the air, GMP grade A, guarantees the product sterility.

Safety has been considered as the primary factor in the design of this cabinet. Consistent with this, an alarm condition will be indicated in any potentially dangerous situation. All alarm/warning events will be displayed on the LCD as text messages.

Ergonomics grants the complete access to the working area and the possibility to work in sitting position (stool). Easy operations for cleanliness and maintenance.

SAFEFLOW has been designed and built according to EN:12469:2000 Biotechnology – Performance criteria for microbiological safety cabinets.

ISO 9001 CERTIFIED COMPANY



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Dimensions and Shielding

N. 2 versions are available: SAFEFLOW with standard size and SAFEFLOW L with larger size.

SAFEFLOW 5, 10, 30 - Dimensions

Model	Ext. Dimensions, mm	Int. Dimensions, mm	Weight, Kg
5	1.460(w) x 1.020(d) x 2.580(h)	1.190(w) x 580(d) x 740(h)	1.450
10	1.460(w) x 1.020(d) x 2.580(h)	1.190(w) x 580(d) x 740(h)	1.600
30	1.460(w) x 1.020(d) x 2.580(h)	1.190(w) x 580(d) x 740(h)	2.100

SAFEFLOW L 5, L 10, L 30 - Dimensions

Model	Ext. Dimensions, mm	Int. Dimensions, mm	Weight, Kg
L 5	2.070(w) x 1.020(d) x 2.580(h)	1.800(w) x 580(d) x 740(h)	1.700
L 10	2.070(w) x 1.020(d) x 2.580(h)	1.800(w) x 580(d) x 740(h)	1.900
L 30	2.070(w) x 1.020(d) x 2.580(h)	1.800(w) x 580(d) x 740(h)	2.650

Shielding

Model	Sliding Glass	Generators, Dose Calibrator	Work Surface, Sides, Back, Waste Area	Waste and Generator Caps
5 / L 5	5	30	5	10
10 / L 10	10	30	10	10
30 / L 30	30	30	30	10

Please note: the generators compartment can be shielded up to 50 mm Pb (optional)

Internal view

- N. 1 automatic vertically sliding tempered glass window (for the whole working area)
- N. 1 horizontally sliding L-block lead glass window 340(w) x 340(h) mm (**Image 2**)
- N. 2 neon white-lights

Active safeties

- Different shielding configurations (see chart above)
- N. 1 U. V. antibacterial lamp (optional)
- Visual / acoustic alarm if:
 - the air / flow rate is out of the selected range
 - the front glass window is not properly positioned (open /closed)
 - replacement of the main filter is required

Ventilation

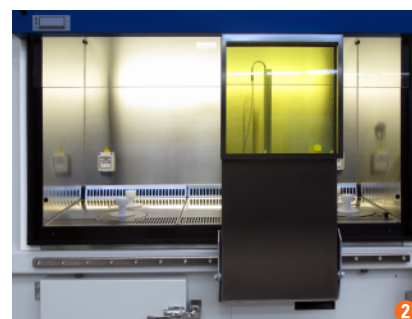
- Laminar Air Flow on working area / Air quality: GMP Grade A
- Main filter: HEPA H14 / Outlet filter: HEPA H14

Equipment

- N. 1 chamber for generator lifting system. The system houses n. 2 round-shaped or n. 2 square shaped generators (**Image 3A and 4**)
- Dose calibrator shielded area (**Image 3B**)
- N. 2 removable waste bins
- N. 2 power sockets
- N. 1 technical gas tap (**Image 5**)
- N. 1 automatic lift for dose calibrator
- Push button control panel and LCD display
- Working area in AISI 316L stainless steel, Scotch Brite finished, with raised edges. Surface with removable internal floor panels and lower raised edge floor, for liquid spillage containment
- OPTION:** µDDS-A automatic dispenser

External finishing

- All of the external surfaces are made in epoxy painted steel.



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