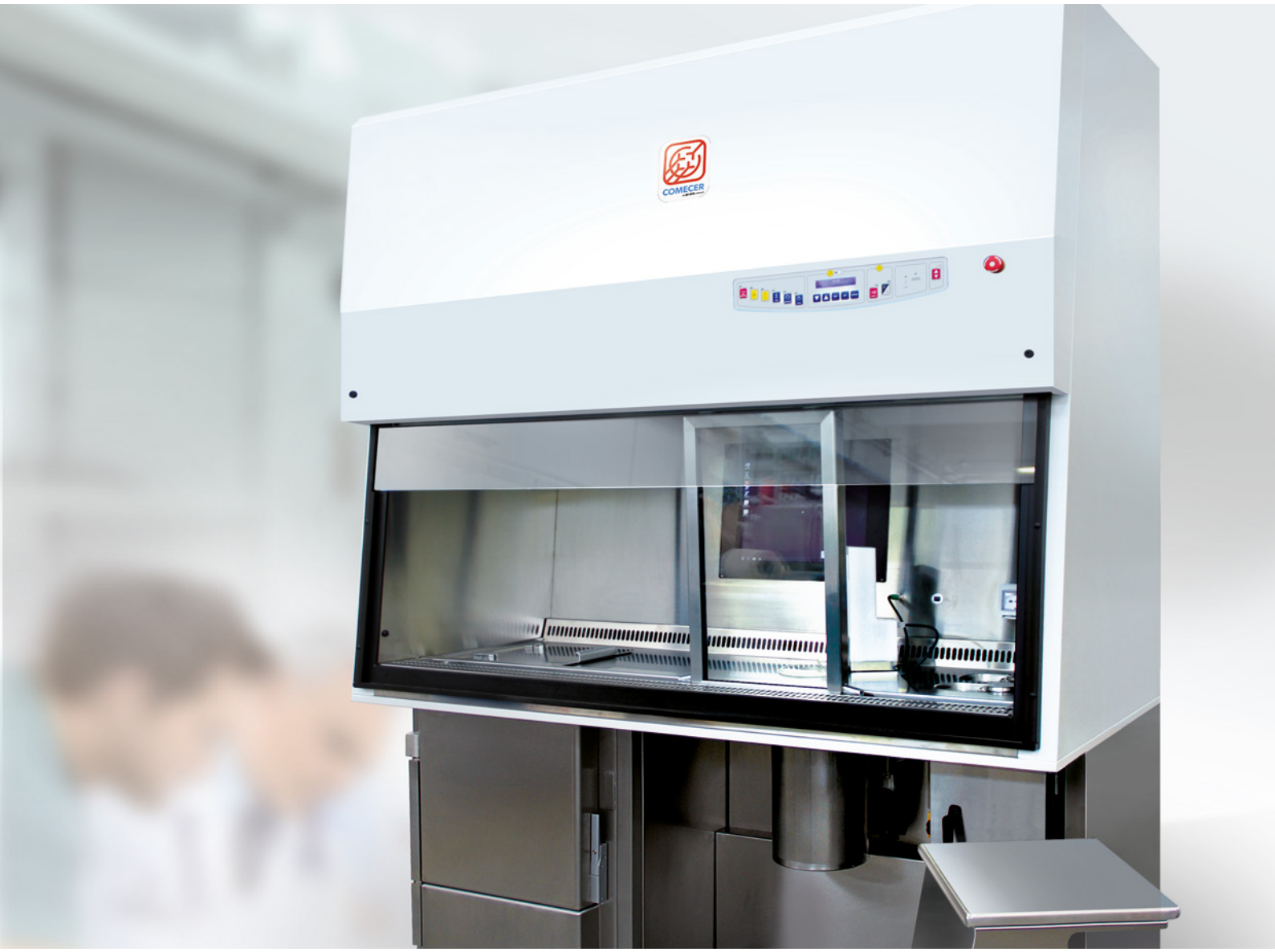
BH SERIES

BIOHAZARD CLASS A HOOD WITH LAMINAR FLOW



SAFETY BEYOND ALL LIMITS

RADIOPHARMA | COMECER

AN ATS COMPANY

BH SERIES

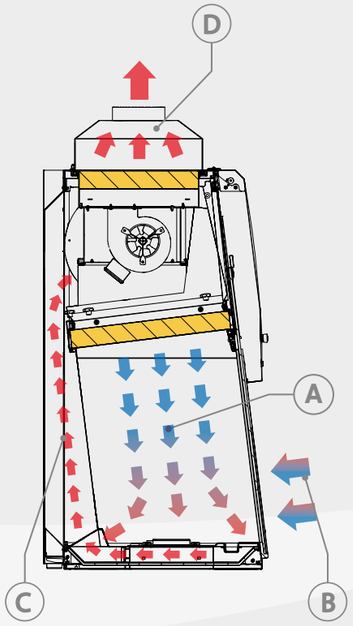
BIOHAZARD CLASS A HOOD WITH LAMINAR FLOW

The series of BH fume hoods is a family of workbenches with laminar flow (LAF), specifically designed to work with radiopharmaceuticals in sterile and safe conditions.

- Work area with air quality conforming to Class A “At rest” (EEC-cGMP)
- Designed specifically to work with radiopharmaceuticals
- Maximum safety for the user, the product and the environment
- Spacious work chamber for maximum ergonomics

Main technical features

- Available with Pb 5 or 10 or 30 or 50mm shielding in side panels and work surface
- Class A "At rest" (EEC-cGMP) working area with laminar flow on the entire area (downflow)
- Air inflow according to reference standards
- Filtration system to generate laminar flow in Class A area, made with HEPA H14 absolute filtering cartridge
- Air outflow filtration system made with HEPA H14 absolute filter
- Work area made of AISI 304 stainless steel
- Shielded glass window on the front side
- Dose calibrator compartment
- Shielded solid waste compartment with extraction door outside the class A area
- Shielded generator compartment to automatically lift 2 Mo99/Tc99m generators up to the work surface
- A 17" monitor in the rear side of the work area, to control the dose calibrator
- PC support and calibrator console on the front side



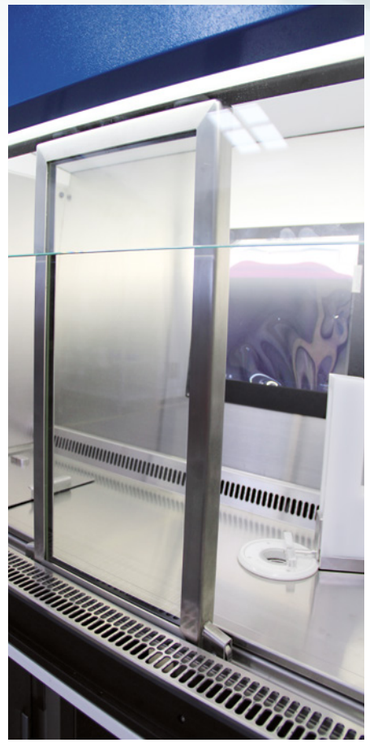
The BH Series is designed and built according to the international standards for microbiological safety cabinets as defined by EN12469 (Class II).

The pressurised air pushed by the fan passes through the absolute filter and falls, with laminar flow, into the work area **(A)**. Here, it is mixed with the outdoor air, which enters through the front opening **(B)**, to then be drawn through the perforated work surface, inside the recirculation channel, at the back of the work area **(C)**.

Part of this air is expelled through the dedicated HEPA filter **(D)**, allowing the air to enter from outside through the front barrier. This way, the operator and the surrounding environment are guaranteed to be protected from hazardous materials handled in the work area.

Work chamber - Spacious work chamber made of AISI 304 stainless steel for maximum ergonomics, equipped with a motorised safety 8 mm thick glass window. A 17" monitor integrated in the rear side of the work area, used to control the dose calibrator*.

Solid waste compartment* - The waste is stored in the compartment through an opening on the work surface. The waste is then removed through the shielded front door. This process follows the GMP guidelines, according to which, the waste must not be removed directly from the sterile work area.



Sliding Lead glass window* to protect the operator from radiation.

Generator compartment* - The generator compartment is separated from the work surface by a hinged door.

Each generator is handled from its own "ascent" button. The generator compartment is also equipped with a motorised shielded damper that makes sure the unused generator is perfectly shielded.

Dose calibrator* - The ionisation chamber compartment is at the centre of the machine work surface. The sample holder lifter automates the lifting action of the vials/ syringes from the ionisation chamber to the work surface and vice-versa.

** On the customer's request*

Equipment lines

The machine is offered in different lines of equipment so as to meet every requirement.

Main equipment / Models	BH4 Standard	BH4 Reinforced	BH5 Standard	BH5 Reinforced	BH6 Standard	BH6 Reinforced
Machine Width	1350 mm	1480 mm	1655 mm	1785 mm	1960 mm	2090 mm
Protective window	S	S	S	S	S	S
Liquids collection tray and pre-filter	S	S	S	S	S	S
Work area shielding (mm of Pb)*						
5 mm of Pb	O	-	O	-	O	-
10 mm of Pb	O	-	O	-	O	-
30 mm of Pb	-	S	-	S	-	S
50 mm of Pb	-	O	-	O	-	O
Solid waste compartment						
10 mm of Pb shielding	O	O	O	O	O	O
30 mm of Pb shielding	O	O	O	O	O	O
Dose calibrator compartment						
20 mm of Pb shielding	O	O	O	O	O	O
50 mm of Pb shielding	O	O	O	O	O	O
Generator compartment						
40 mm of Pb shielding (Light)	O	O	O	O	O	O
50 mm of Pb shielding (Ga68)	O	O	O	O	O	O
50 mm of Pb shielding (Tc99)	O	O	O	O	O	O
80 mm of Pb shielding (Tc99)	O	O	O	O	O	O
Lead shielded sliding glass window						
5 mm of Pb (equivalent) shielding	O	-	O	-	O	-
10 mm of Pb (equivalent) shielding	O	-	O	-	O	-
30 mm of Pb (equivalent) shielding	-	S	-	S	-	S
50 mm of Pb (equivalent) shielding	-	O	-	O	-	O
Dose calibrator						
VDC-606 dose calibrator up to 2 Ci	O	O	O	O	O	O
VDC-606 dose calibrator up to 20 Ci	O	O	O	O	O	O
IBC Dose Calibrator up to 2 Ci	O	O	O	O	O	O
IBC Dose Calibrator up to 20 Ci	O	O	O	O	O	O

S= Standard; O= Optional;

Technical data

Structure material			AISI 304 - Scotch-Brite™
Working chamber material			AISI 304 - Scotch-Brite™
Hood covering material			Carbon steel treated with epoxy paints
Lead purity	Title		Pb 98% + Sb 2%
Weight (without shieldings)	kg	BH4 BH5 BH6	310 365 415
Internal dimensions	mm	BH4 BH5 BH6	1190 x 580 x 740 (w x d x h) 1495 x 580 x 740 (w x d x h) 1800 x 580 x 740 (w x d x h)
External dimensions (standard version)	mm	BH4 BH5 BH6	1350 x 860 x 2535 (w x d x h) 1655 x 860 x 2535 (w x d x h) 1960 x 860 x 2535 (w x d x h)
External dimensions (reinforced version)	mm	BH4 BH5 BH6	1480 x 927 x 2575 (w x d x h) 1785 x 927 x 2575 (w x d x h) 2090 x 927 x 2575 (w x d x h)

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