

Murphil-Tc is a shielded isolator with laminar flow suitable for the manipulation of the radiopharmaceuticals.

The special construction features makes it ergonomic and functional, ideal to simplify routine tasks performed in a Nuclear Medicine Department, in strict compliance with GMP regulations and Radioprotections rules.

The hot cell adopts a constructive standard *ELS® (Encapsulated Lead System)* that consists in encapsulating the lead shieldings inside of closed frames avoiding lead contamination of environments.



SHIELDINGS

- Front door Pb 30 mm
- Internal Methacrylate front door 20 mm
- Lead glass window 30 mm Pb Eq.
- Hand passage Pb 30 mm
- Side and back panels Pb 30 mm
- Worktop Pb 30 mm
- Generators Prechamber Pb 40 mm
- Inlet/Outlet pre-chamber Pb 20 mm
- Waste Prechamber Pb mm 20

FEATURES

- Class B ventilated pre-chamber
- Ergonomic hand passages with gloves
- Multifunction touch-screen operator panel
- Internal GM probe with high range and long life capabilities
- Password hierarchy
- UV lamp with digital programmable timing

WORKING AREA

Completely laminar flow box in AISI 316L stainless steel with mirror finish.
Full flat working surface with active drip recovery technology.
Airtight system with inflatable seal.
Oval shape hand passages allows the arms of the operator to move vertically.
Main chamber: EEC GMP CLASS "A".
Input prefilter: HEPA
Absolute filter: HEPA
Output filter: HEPA + active carbon



SEALED INTERNAL PANEL FOR "COLD" OPERATION

The methacrylate internal panel allows to perform all the operations of "cold" preparation, with the shielded door opened, ensuring airtight.
Latex or neoprene gloves
Interlocked electric sockets.
Lighting system with LED cold lights modules.



PRECHAMBER

Inlet/Outlet Prechamber
Waste Prechamber
Generators Prechamber for n. 4 technetium generators (cylindrical or parallelepiped)
All the prechambers respect EEC GMP Class "B" rules
Input filter: HEPA
Output filter: HEPA



TOUCH SCREEN OPERATOR PANEL AND DOSE CALIBRATOR

The hot cell is equipped with a touch-screen operator panel suitable to be handled with gloves. All the functions can be performed and stored on the operator panel in order to have full traceability of operations.
Traceability of operations and traceability of operators.
The dose calibrator is integrated in the touch screen operator panel and its control software has all the functions required by the GMP rules. (daily quality control, data saved permanently).
In addition to those in the database, unlimited isotopes can be stored with unlimited geometries. Printing of customizable labels.
Accuracy: $\pm 2\%$ on all the measure range. Range: 8 Ci



OPTIONALS

- Additional Inlet/Outlet prechamber with elevator
- Retractable platform
- Automatic Leak-test
- Automatic valve closure of the ventilation
- Continuous speed meter of the laminar flow and the particle count
- β - shielding Kit
- Cables wall passages with sealed system



DIMENSIONS AND WEIGHT

External Dimensions: (w x d x h) mm 1341 x 799 x 2400
Internal Dimensions: (w x d x h) mm 1095 x 544 x 724
Weight: Kg 3.500