

ELIZA SERIES

SHIELDED ISOLATOR WITH CLASS A LAMINAR FLOW



ERGONOMICS



VERSATILITY



OPERATOR SAFETY



RADIOPHARMA



COMECER

an  company

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SHIELDED ISOLATOR WITH CLASS A LAMINAR FLOW

ELIZA is a shielded isolator with laminar flow for the manipulation and calibration of SPECT-emitting radiopharmaceuticals pursuant to cGMP guidelines.

ELIZA meets all calibration and manipulation fractionating requirements of Nuclear Medicine departments.

- **Sterility:** the laminar flow work area (Class A according to EEC-GMP) allows handling radiopharmaceuticals in totally safe conditions for the product.
- **Radioprotection:** the shielding is made to ensure full operator protection.
- **Ergonomics:** all the components required for the dose preparation are placed within the range of action of the operator's hands.
- **Safety:** the isolator is equipped with a main door lock system controlled by an internal double probe G.M. sensor.
- **Versatility:** the different shielding spacers, with which the cell is made, make it versatile and suitable for different uses. Designed for automatic synthesis modules or fractionators for syringes or vials to be installed therein.



Material passage airlock



Waste compartment



The large aseptic chamber and the presence of the generator compartment make it suitable for handling Tc99m compounds for micro-biologically critical processes, such as cellular labelling.

It is equipped with a laminar flow work chamber and ventilated pre-chambers for the transit of materials, to house generators and to confine waste.

The main chamber can be equipped with plastic supports to handle beta-emitting isotopes.



Dose calibrator

Generator compartment

GENERAL FEATURES

Main technical features

- Shielded chambers under constant negative pressure
- Front sliding door with window and hand passage doors for hot manipulation
- Class A work chamber equipped with laminar flow on the entire area
- Class B material passage chambers (airlock)
- Dose calibrator (available up to 2 Ci or 20 Ci)
- Waste compartment
- Generator compartment
- LAF filtration system made with an ULPA U15 type of absolute filtering cartridge
- Filtration system for Class B chambers with HEPA H14 absolute filtering cartridge
- Technical gas supply lines with shut-off valves, which can be controlled from the outside
- Cable inlet via multi-diameter seal system
- Connections for DOP test (filter sealing test) of absolute filters
- Geiger-Muller probe to detect radioactivity inside the cell and door interlock management*
- Connection to hydrogen peroxide solution generators (VPHP)*
- UVC germicide lamp*

Technical data

Frame support material	Carbon steel treated with epoxy paints	
External casing material		AISI 304 - Scotch-Brite™
Working chamber material		AISI 316L - Mirror-Bright
Lead purity	Title	Pb 98% + Sb 2%
Shielding (Pb)	mm	20
Waste container capacity	l	12
Weight	kg	3700
Shielded glass dimensions	mm	580 x 230 (w x h)
Material and preparation passage pre-chamber dimensions	mm	155 x 328 x 188 (w x d x h)
Working chamber internal dimensions	mm	1350 x 474 x 612 (w x d x h)
External dimensions	mm	1700 x 947 x 2400 (w x d x h)



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