

# ELIZA SERIES

SHIELDED ISOLATOR WITH CLASS A LAMINAR FLOW



ERGONOMICS



VERSATILITY



OPERATOR SAFETY

## ELIZA SERIES

### 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



- Sliding door** —●
- Hand insertion doors** —●
- Material passage airlock** —●
- Waste compartment** —●
- Material outlet airlock**  
*(Upon the customer's request)* —●
- Generator 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*

The machine is available in different equipment lines, to fulfil the requirements of any production centre:

Main equipment	Models	
	ELIZA One Airlock	ELIZA Double Airlock
Waste compartment	S	S
Material inlet airlock	-	S
Material outlet airlock	S	S
Generator compartment	S	S
Dose calibrator	S	S
Smart Geiger (internal environmental monitoring system)	O	O
LED bulb lighting	S	S
Notebook support	S	S
Light column signalling machine status	S	S
Steel coverings reaching the laboratory ceiling	O	O
UVC germicide lamp	O	O
AVC Light (including set-up for VPHP with manual valve on the VPHP line and leak test functionality) for main chamber	R	R
Cell lifting platform	O	O
CFR21 licence PART 11	O	O
Particle-counter	R	R
Dose calibrator model		
VDC-606 dose calibrator up to 2 Ci	R	R
VDC-606 dose calibrator up to 20 Ci	R	R
Dispenser set-up		
TIMO2 dispensing system set-up	O	O
FEBO dispensing system set-up	O	O
Shielded holder		
Shielded container for vials mod. CF18	S	S
Shielded container for vials mod. CF18-T	O	O
Shielded container for cartridge Letho mod.	O	O

S= Standard; O= Optional; R= Configurable ONLY when placing the order

## 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)

## Main technical features

- Spacious work chamber for the maximum ergonomics
- An inflatable gasket system guarantees chamber tightness
- 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
- Air outlet filtration system made with active carbon filtering cartridge
- Touch screen operator panel
- Technical gas supply lines with shut-off valves, which can be controlled from the outside
- Cable inlet via multi-diameter seal system
- Protected power supply sockets controlled from the operator panel
- Particle-counter probe connection
- 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\*

\* On the customer's request



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