

Gammacell[®] 40 Exactor Low Dose-Rate Research Irradiator

Unrivalled Precision and Versatility

The Gammacell[®] 40 Exactor Low Dose-Rate Research Irradiator is used in labs throughout the world to explore elements of cell biology and advance the scientific study of various areas of cancer and stem cell research.

Shipping

The Gammacell[®] 40 Exactor is shipped in three parts:

- Two radioactive materials (RAM) packages contain the radiation shield assembly and the Caesium-137 sources which meet international transportation and safety regulations.
- The third package contains the cabinet, control system and related parts.

Certification and Documentation

Each Caesium-137 source meets the IAEA requirements for Special Form Radioactive material and is certified to be leak tight. A complete documentation package, including a unit specific dose map, and a measurement certificate of activity and central dose rate accompanies every Gammacell[®] 40.

Customer Requirements

Customers need to obtain a radioactive materials possession license (or equivalent) before the Gammacell[®] 40 Exactor can be shipped. Best[®] Theratronics helps prepare license submission documents required for radioactive materials possession. When applying for a license, customers should quote 4000 curies.

Quality and Safety Standards

All units are manufactured to comply with the American National Standards Institute, ANSI N433.1 Requirements for Safe Design and Use of Self-Contained Dry Source Gamma Irradiators. Best[®] Theratronics is ISO 9001 and ISO 13485 certified.

Control System Features

- Multiple control systems for monitoring timing, beaker rotation and position of product
- 4 line vacuum fluorescent display with step-by-step user instructions
- Modular design of control system for easy maintenance and upgrades
- Bypass mode – allows operation of unit without main control system
- AC power backup – completion of current cycle, plus approximately 20 additional cycles in case of power failure
- Ethernet (web browser) access for electronic record keeping

Irradiator Details

Installed Weight	2994 kg (6,600 lbs.)
Height	1496 mm (58.9 in.)
Width	924 mm (36.4 in.)
Length	1229 mm (48.4 in.)
Floor Loading Area	1.13 m ² (12.2 sq. ft.)
Floor Loading	2715 kg/m ² (540 lbs./sq. ft.)
Power	100, 115, or 230 Hz VAC; 50/60 Hz; 0.3 kVA, with Ground connection VAC 50/60 Hz with ground
Dose Uniformity (typical)	±7% over a 260 mm (10.14 in.) diameter and a 100 mm (3.9 in.) height

Sample Container

Height (internal)	105 mm (4.1 in.)
Diameter (internal)	312 mm (12.3 in.)
Volume	8.0 L (486 cu. in.)



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