

RS 2000

RAD SOURCE

Biological Irradiator Small Animal and Cell Irradiation

- Direct replacement for cesium and cobalt irradiators—no isotopes
- Patented chamber technology
- Irradiation in a filtered environment (no cross-contamination issues)
- Programmable techniques using touch panel screen
- Complete dose mapping
- Self-cooled and caster mounted for easy installation
- Unique shielding design far exceeds U.S. CDRH requirements
- No NRC licensing or reporting required
- Specialized irradiation equipment configurations available to suit unique applications
- Currently in use at some of the finest public and private research institutions in the world



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**REASONS WHY THE
RAD SOURCE RS 2000 X-RAY IRRADIATOR
IS THE SYSTEM OF CHOICE
FOR YOUR
RESEARCH AND BIOLOGICAL IRRADIATION REQUIREMENTS.**

The **RS 2000** is a research & biological irradiator that features the following advantages:

–The **RS 2000** is self contained and requires no external cooling system, **NO Nuclear Site license** or secure/shielded room.

–The **RS 2000** is ideal for small animal research when using our patented **RAD + reflective cage enclosure**. This unique feature provides for a dose rate within the cage of >1 Gy/min (100 rads/min.) and the dose distribution is better than 94% across the entire field. The **RAD+** is designed to hold one standard Allentown filtered rearing cage. (Three of which are supplied with the system.) This feature improves animal husbandry by allowing transport and irradiation of the animals inside a filtered environment mitigating cross-contamination issues. Because the animals are irradiated in their cage, multiple mice can be irradiated during one cycle.

–For small animal irradiation, the recognized standard (based upon Cesium) is ~110 rads/min. (1.1Gy/min dose rate). **IF it is important to have reproducible results that equate to the irradiation standard of Cesium - the only choice is the RS 2000** with .3mm of Copper filter irradiating at 160kV AT 25mA.

–Laser position tumor collimators are an option for target irradiation of specific areas of anatomy.

–For Cells and other research the **RS 2000** has dose rates of >5Gy/min (500rads/min.) that are selectable using our movable shelf and our user selectable programs.

–This is the only system available that allows for 160kV operation @ 25mA.

–“Plug and Play” installation: Installation, dose-mapping & in-service in one day. Mounted on wheels with a footprint of 33” X 42” (82.8 cm X 106.7 cm) and weighs 1250 lbs. (567 kg).

–Simple **touch screen operators’ panel** for ease of use and understanding.

The discussion on our website: www.radsource.com explains the **absolute replacement of gamma with x-ray irradiation** for low density (animal & cell) studies. **Rad Source is the recognized expert** in the field of x-ray irradiation. We developed the only US-FDA approved blood irradiator for replacing Cs irradiators. This product was licensed to MDS Nordion and is sold world wide under the name RAYCELL.

**The RS 2000 should be the choice for your next professional
quality biological and research irradiator**