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
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 is needed
- The RS 2000 is ideal for small animal research when using our patented **RAD + reflective cage enclosure**. This unique and patented feature provides for a dose rate within the cage of 1.2 Gy/min (120 rads/min or the same as gamma irradiator) and the dose distribution is better than 94% across the entire field (much better than a gamma irradiator). 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. **IF it is important for you 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 160 kV AT 25 mA (NEW 225 kV available).

- The RS 2000 is ideal for targeted tumor irradiation using our spot beam collimator or custom animal shielding and offers variable dose rates to the target.

- For **Cells** and other research the RS 2000 has dose rates of >5 Gy/min (500 rads/min.) filtered and up to >17 Gy/min unfiltered.

- This is the only system available that allows for 160 kV operation @ 25 mA (not “AND or OR” but AT 25 mA)

- “Plug and Play” installation: Installation, dose-mapping & in-service in one day.

- Mounted on wheels

- Footprint 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 operation.

Please review the information on our website: **www.radsource.com**

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 and are the leaders in high dose, high volume irradiation systems worldwide

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