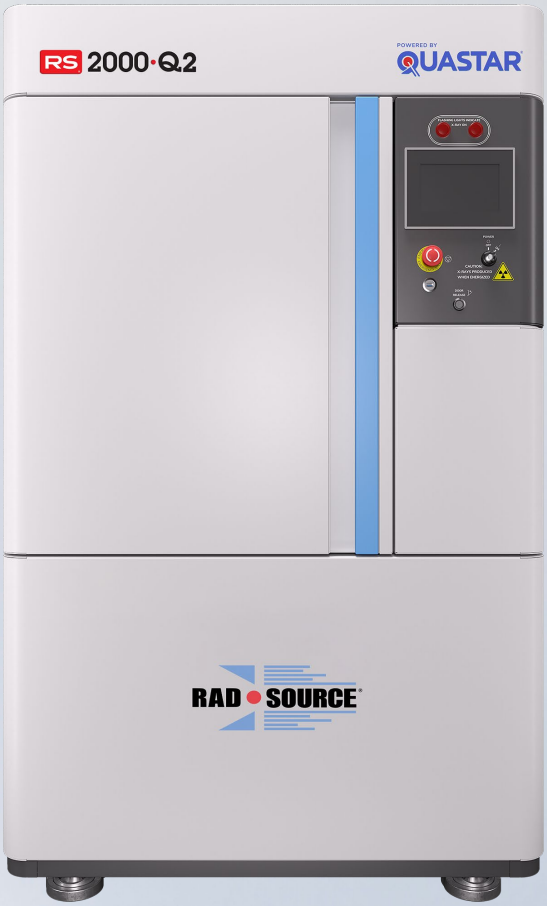
RS® 2000·Q2
Biological Irradiator



The New Industry Standard for Small Animal Irradiation

- For small animals, stem cells, tissue
- Cancer and immunology applications: myeloablation, cell arrestment
- Improved QUASTAR 2 X-ray Platform: third generation dynamic tube technology with enhanced performance and reliability
- Effective energy comparable to 320 kV point source
- Industry leading symmetry, flatness, penetration, and dose uniformity
- Plug and play – uses a 120V outlet, no external chiller required (standard unit)

RAD SOURCE | POWERED BY QUASTAR

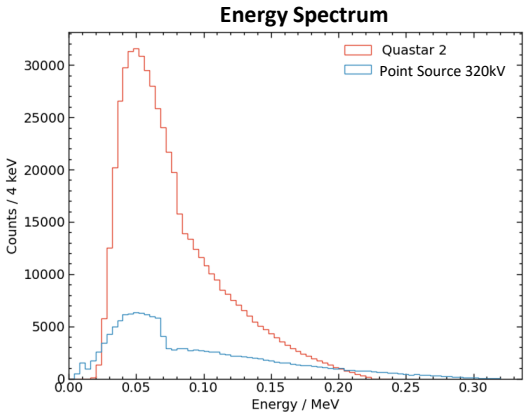
RS® 2000·Q2 Biological Irradiator

QUASTAR 2 X-ray Platform vs. Point Source 320 kV

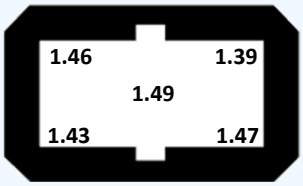
The proprietary QUASTAR 2, our third-generation dynamic X-ray tube, is engineered to outperform traditional point source tubes, which were originally designed for imaging, not biological irradiation.

QUASTAR 2 Delivers:

- Higher average energy for superior penetration
- 3× greater usable photons (area under the curve), enabling higher dose rates
- Industry leading dose uniformity (symmetry, flatness and penetration)



Aluminum Shelf	Aluminum Shelf Dose Rates by Level (Gy/min)	Distance to Source (in.)	Ring Size (dia. in.)
	RS 2000·Q2 (1kW) / RS 2000·Q2 (4kW) 9.9 — 3 — 39.6 4.9 — 2 — 19.6 2.9 — 1 — 11.7	6.25 7.75 10.25	5.27 7.17 9.37

RADPlus™ Accessory for Improved Dose Uniformity	RS 2000 · Q2 (1kW) Dose Rate (Gy/min)	RS 2000 · Q2 (4kW) Dose Rate (Gy/min)
 RADPlus Rectangle	 1.46 / 1.39 / 1.49 / 1.43 / 1.47 Symmetry: 1.00 Flatness: 0.98 DUR = 1.07	 5.84 / 5.56 / 5.96 / 5.72 / 5.89 Symmetry: 1.00 Flatness: 0.98 DUR = 1.07

Specifications	RS 2000·Q2 (1kW)	RS 2000·Q2 (4kW)
Generator Power	1,000 W	4,000 W
Cooling Requirements	No Chiller Required	External Chiller Required
Electrical Requirements	104-120 V, Single Phase, 20 A, 50-60 Hz	208-240 V, Single Phase, 30 A, 50-60 Hz
Equipment Weight	Approx. 2,750 lb (1,247 kg)	Approx. 2,750 lb (1,247 kg)
Equipment Dimensions	43” W x 75” H x 36” D (109.2 cm x 190.5 cm x 91.4 cm)	43” W x 75” H x 36” D (109.2 cm x 190.5 cm x 91.4 cm)
Internal Chamber Dimensions	17.5” W x 15.5” H x 16.75” D (44.5 cm x 39.4 cm x 42.5 cm)	17.5” W x 15.5” H x 16.75” D (44.5 cm x 39.4 cm x 42.5 cm)
Required Clearance Dimensions	48” W x 76” H x 40” D (121.9 cm x 193.0 cm x 101.6 cm)	48”W x 76” H x 40” D (121.9 cm x 193.0 cm x 101.6 cm)

Dosimetry instruments meet NIST standards

Rad Source is a global leader in developing X-ray solutions. Our equipment resides in major labs, healthcare institutions, and renowned universities around the world. Based in Buford, Georgia, USA
Visit www.radsource.com or call us at 678-765-7900 to learn more.

RAD SOURCE POWERED BY QUASTAR