Best™ Theratronics

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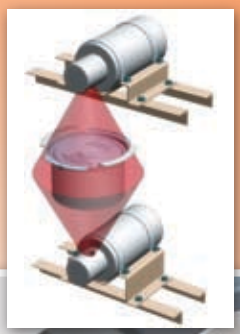
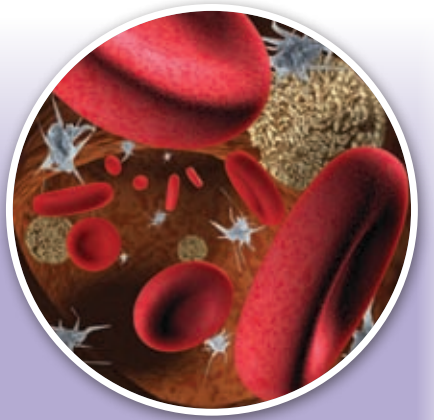
X-ray & Gamma Blood & Research Irradiators





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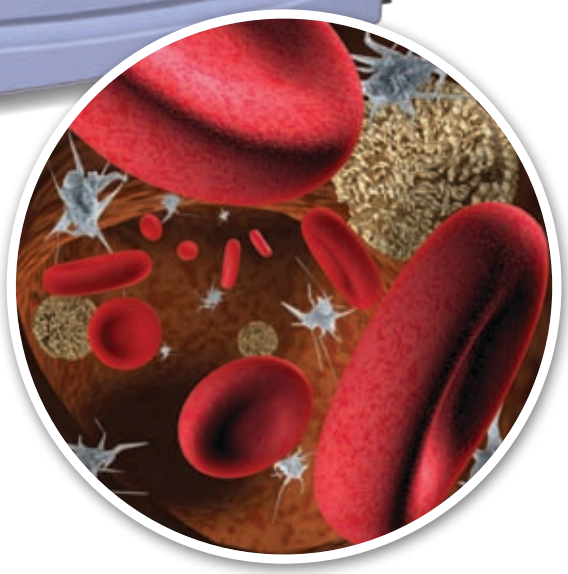
European Representative: Emergo Group, Prinsessegracht 20, 2514 AP, The Hague, Netherlands

BTL/MB GB/Xray Blood & Research Irradiators v.01.2022 TeamBest Global Companies © 2022

Raycell® Mk1 X-ray Blood Irradiator

Efficient, convenient and user friendly, the Raycell® Mk1 X-ray Blood Irradiator provides a safe and cost-effective choice for blood irradiation — backed by Best Theratronics' trusted expertise and commitment to quality.

- Self-contained cooling system, no external water required
- Canister volume 1.6 L
- Estimated number of bags per cycle — 3 bags, 300 ml each
- Time for 25 Gy central dose ~5.3 min
- Time for 25 Gy minimum dose ~6.3 min
- Dose uniformity ratio 1.55:1
- Barcode reader
- Syringe holder



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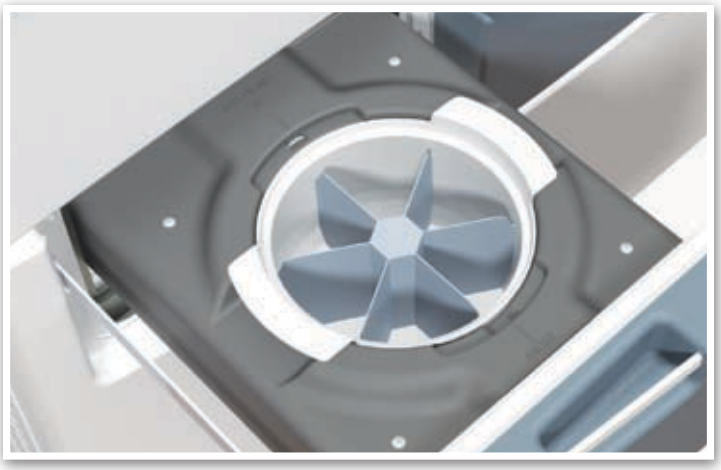
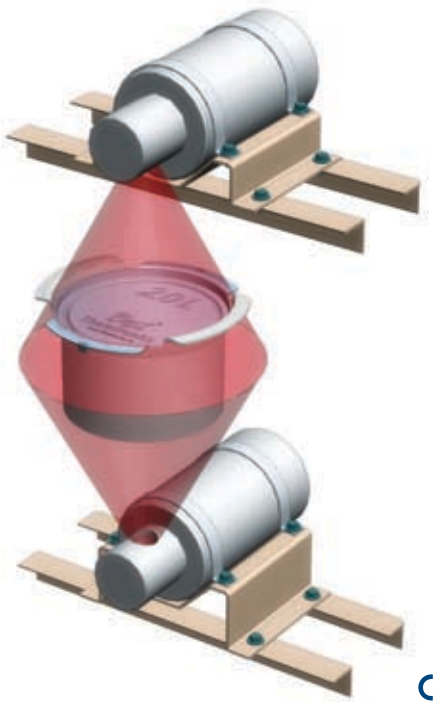
Raycell® Mk2 X-ray Blood Irradiators — 2.0 L or 4.8 L (6 Canister) Models

The Raycell Mk2 model features a larger chamber for irradiation of more blood bags — fits 2.0 L or 4.8 L (6 canister model) for those facilities with higher volume needs.

- Two opposing x-ray tubes deliver excellent dose uniformity
- Central dose rate (+/– 5%)
  2.0 L model: 12.3 Gy/min
  4.8 L model: 5.8 Gy/min
- Irradiation time is controlled by two independent microprocessors
- Fast irradiation times for 25 Gy central dose
  2.0 L model: ~2.0 minutes
  4.8 L model: ~5.0 minutes
- Barcode reader





6 Canister Model (4.8 L Model)

- 6 sections for blood bags
- Irradiates 6 bags (300 ml each) in under 6 minutes for 25 Gy minimum dose

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Additional Options for Raycell® Mk2 X-ray Blood Irradiators

Syringe Holder (Optional)

- Accommodates a 60 ml syringe
- Same irradiation time as blood bags
- Special modified canister
- Custom dosimetry report

Self-Contained Cooling System (Optional)

- 35 L tank for distilled water
- No connection to external water needed
- System has its own power requirements (100–240 V single phase)

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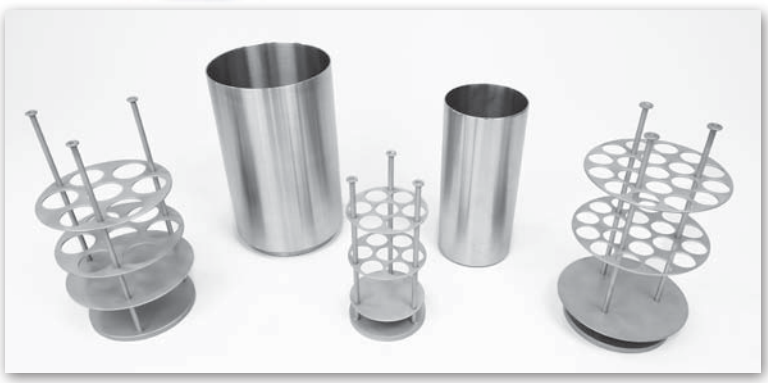
Gammacell® 1000 Elite/3000 Elan
Blood & Research Irradiator

The Gammacell 1000 Elite/3000 Elan have both been refined with the valuable input of clinicians over many years, and are considered the “gold standard” in blood irradiation.

- Multiple source options depending on throughput needs
- Reliable and long-lasting irradiator
- Ideal for low to medium to high throughput locations
- Every cycle is validated
- 4-line display screen
- Barcode reader



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Gammacell® 40 Exactor Research Irradiator

- Ideal for small animal or cell irradiation studies
- Large, well ventilated sample container (8.0 L in volume)
- Central dose rate of approximately 0.85 Gy/min
- Excellent dose uniformity
- Accessories include attenuators and collimator

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Raycell® X40 Research Irradiator

- X-ray version of the Gammacell® 40 Exactor
- Delivers a central dose of ~1.5 Gy/min
- 8.0 L sample container
- Excellent dose uniformity
- Self-contained cooling system — no external water required

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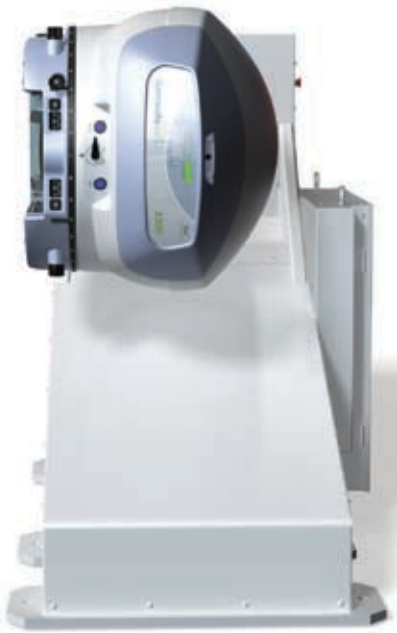
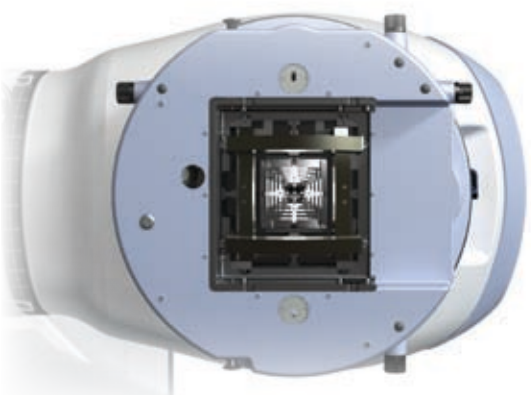
GammaBeam™ X200 Research Irradiator



The GammaBeam X200 is among the most versatile research irradiators available today. Suited to a broad spectrum of applications including secondary standards dosimetry, sterile insect programs, and medical or veterinary research, the unit provides your lab with a powerful tool. The GB X200 is from a long line of irradiators that researchers and clinicians have trusted and depended on for decades.



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