

Industry-leading dose uniformity

RS® 3400 Blood Irradiator



The **#1** X-Ray Blood Irradiator in the World

- Direct replacement for gamma
- QUASTAR® x-ray platform delivers superior dose uniformity
- Highest throughput - 6L in less than 5 minutes
- The only irradiator that can mix syringes, platelets, and whole blood bags
- US FDA 510(k) cleared, CE marked, CB Scheme Certified
- Unmatched service support: National coverage, weekend support, and more



RS® 3400 with QUASTAR® X-ray Technology

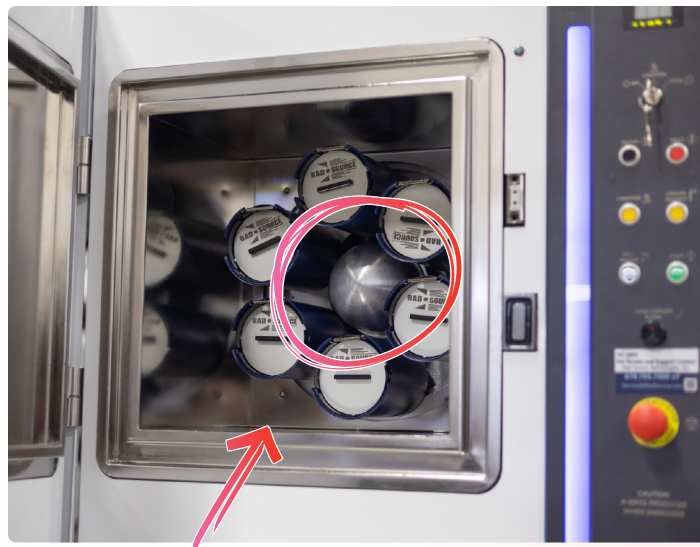
- Unmatched Power QUASTAR® delivers the most advanced x-ray technology available today
- Larger, stronger, and higher-energy field for superior performance
- Exceptional dose uniformity ensures consistent results and faster processing
- Revolutionizes blood irradiation to prevent TA-GVHD with confidence

Features and Benefits

- Six-canister carousel rotates around x-ray source without tumbling contents
- Superior power efficiency vs traditional x-ray systems
- Repairable x-ray emitter source
- Smallest irradiator footprint – 34" x 36" (86.36 cm x 91.44 cm)
- Onboard cooling system: no chiller, no water hook-up required

Certification

- US FDA 510(k) cleared for TA-GVHD, CE marked, and CB Scheme certified



QUASTAR® Emitter Consistent Results, Faster Processing

Leading Innovation

While all others x-ray systems lag behind, QUASTAR® breaks away from outdated 1895-era x-ray systems to achieve an industry-leading dose uniformity.

Protecting Patients Starts with Safe Transfusions

A Simple Step That Can Save a Life

Blood transfusions are one of the most powerful tools in modern medicine. They help people recover from surgery, fight cancer, survive trauma, and manage chronic conditions. But even something so life-giving can carry hidden risks.

One of the most serious is Transfusion-Associated Graft-Versus-Host Disease (TA-GVHD), a rare complication where immune cells from donated blood attack the recipient's body. It's devastating, often fatal, and tragically, there's no cure once it begins.

The good news is that TA-GVHD is preventable. By irradiating blood before transfusion, we can stop those donor immune cells from causing harm. It's a small step in the process, but it makes a world of difference. It's the kind of protection that doesn't just meet a standard. It saves lives.

Whether you're working in a hospital, a lab, or supporting patients behind the scenes, blood irradiation is one of the most important safeguards we have. And it's why we've dedicated ourselves to making that process as reliable, efficient, and easy as possible.

ADD-ONS



Shop Now

CARBON FIBER CANISTER

(RS# 1402055) Qty = 1

Blood Bags & Platelet Bags

- 6 x 600 ml bags
- 6 x 500 ml bags
- 12 x 250 ml bags

Drawn Syringes

- (3) 30 ml or 60 ml drawn syringes per canister
- Up to 18 total syringes per cycle

SYRINGE HOLDER

(RS# 3400-09401) Qty = 1

- Holds fully drawn syringes
- Syringe holders are available to purchase separately
- Syringes must have Leur Lock Caps.
- Syringe holders do not work with a sterile dock system



DOSE MAPPING PHANTOM

(RS# Phantom)

- A Dose Mapping Phantom is a cylindrical device placed into one of the canister holders to simulate a canister full of blood.
- Thermoluminescent dosimeters (TLDs) are placed in the phantom to measure the dose.
- A Phantom is required to perform commissioning and routine dosimetry.

** International Availability Only **

ACCUTAG™

Qty = 200 per box

- Central blue dot indicates a minimum of 15Gy has been applied at 25Gy target dose
- Manufactured to ISO 9001:2015 standards
- Compliant with FDA standards and your facility's protocols

Visual Indicators for Blood Irradiation



TECHNICAL SPECIFICATIONS

PHYSICAL DIMENSIONS

EQUIPMENT DIMENSIONS

34" x 33" x 67.75" | 86 cm x 84.6 cm x 173.35 cm

CRATED DIMENSIONS

38" x 37" x 75" | 96.52 cm x 101.60 cm x 190.50 cm

EQUIPMENT WEIGHT

1750 lbs. | 794 kg

ELECTRICAL REQUIREMENTS

POWER

208/240VAC, Single phase, 50/60Hz, 30 Amp, grounded

INSTRUMENT WIRING

10 AWG L1, L2/N

SAFETY & QUALITY

All Rad Source irradiators receive a quality inspection, dose map, and radiation survey prior to shipment and again at installation.

All Rad Source irradiators are manufactured as cabinet x-ray devices and conform to the radiation safety guidelines in US CFR 1020.40

IRRADIATION GUIDELINE

USA (FDA)

15 Gy min/25 Gy central/50 Gy max

EUROPE (EDQM) & UK (BCSH)

25 Gy min/50 Gy max dose rate: 5.5 - 6.5 Gy/min



Learn more at
radsource.com

PROCESSING

PROCESSING VOLUME / CYCLE

Blood Bags - Up to (6) 600 ml bags

Platelet Bags - Up to (6) 500 ml bags

Drawn Syringes - Up to (18) 60 ml syringes

WARRANTY

DOSE MAPPING

The RS® 3400 is dose mapped prior to shipment and at the time of installation.

12 MONTH FULL FACTORY WARRANTY

Includes Installation, Training, Initial Dose Map, Radiation Survey, 2nd Dose Map and all parts, labor and travel.

OPTIONAL SERVICE AGREEMENT

An all-inclusive price available for purchase anytime within 12 months from date of installation.

Don't settle for slow service.

Our geographically distributed team delivers responsive support without the long wait times.

Discover the Rad Source difference.



"The performance of the RS 3400 has been great. The staff has not had any issues using the irradiator. Very simple to operate and user-friendly. I would purchase another RS 3400 and would recommend this product. Great company to work with."

-Greg Early, Children's Hospital of Alabama



The Only FDA 510(k) Cleared
X-Ray Blood Irradiator
Made in the USA

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