The RS™ 3400-Q Blood Irradiator

- Highest Product Throughput and Flexibility
  Processes a variety of blood configurations of up to 6L capacity in 5 minutes - whole blood bags, platelet bags and loaded syringes in the same cycle

- Excellent Dose Uniformity
  A combination of the patented Quastar® x-ray emitter, rotating carousel and new canister with Support Inserts may achieve as low as ~1.35 DUR

- Direct Replacement for Gamma Irradiator
  U.S. Government recognized safe, direct alternative for radioactive isotope (gamma) source irradiators

*US-FDA CLEARED, CE MARKED, AND CB SCHEME CERTIFIED

The Premier X-Ray Blood Irradiator in the World
Providing Superior Dose Uniformity, Productivity and Industry Leading Reliability
We pioneered the first FDA-cleared blood x-ray irradiation medical device used to prevent the highly fatal transfusion-associated graft-versus-host disease (TA-GVHD) in blood transfusion recipients.

Blood transfusion is a lifesaving procedure for people who are bleeding and people who cannot make a sufficient amount of blood on their own.

A rare but almost always fatal complication from blood transfusion is called transfusion-associated graft-versus-host disease (TA-GVHD), where immune cells from the donor blood attack the recipient’s organs and cause a deadly infection that is nearly impossible to fight off.

Started over 20 years ago, we pioneered the first-ever FDA-cleared blood x-ray irradiation medical device used to prevent TA-GVHD, and today with over 250 worldwide installations, we have maintained our status as the industry leader and gold-standard in blood irradiation technology and instrumentation ever since.

Our patented x-ray irradiation technology effectively and routinely inactivates the immune cells in donor blood, which diminishes the risk of developing TA-GVHD for the transfusion recipient.

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“"The performance of the RS 3400 has been great. The staff have 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
Optional Items Available

**RS 3400 Canisters (2021)**
Dose Uniformity Optimized

PN # 1402055
- New and improved design for 2021.
- Holds any standard blood or platelet bag.
- Onboard Support Inserts provide an improved dose uniformity ratio (from 1.6 to ~1.35).
- Made of durable Polycarbonate ABS.
- Provides improved durability, security & ease-of-use.
- The cap features a built-in groove which assists in holding the canister in place.
- Canister dimensions: (4 x 5") 10.2 x 12.7 cm / 1 L PN

**RS 3400 Canisters (2021)**
Standard Version

PN # 1409383
- New and improved design for 2021.
- Holds any standard blood or platelet bag.
- Made of durable Polycarbonate ABS.
- Provides improved durability, security & ease-of-use.
- The cap features a built-in groove which assists in holding the canister in place.
- Canister dimensions: (4 x 5") 10.2 x 12.7 cm / 1 L PN

**RS 3400 Snap-In Syringe Holder**
2021 Version

PN # 1427100
The new and improved Rad Source Syringe Holder is 3D printed and designed to fit securely in the carousel system of the RS 3400, providing improved durability, security, ease of use and better fit for multiple syringes.
- Allows for syringes to be run simultaneously with whole blood and platelets in the same cycle.
- Holds up to (3) 20, 30 and 60 mL syringes / Syringe Holder.
- ~18 per cycle using (6) syringe holders
- The new Syringe Holder is made of Nylon material which provides more durability and increased lifespan than the predecessor foam syringe holder.

**Rad Scan Bar Code Reading System**

* available as an option
PN # 1402055
An error free Bar Code Scanning system that stores product data to replace a manual log. Data is stored in a .cvs file on a thumb drive.
SPECIFICATIONS

PHYSICAL DIMENSIONS

EQUIPMENT DIMENSIONS
33.3 x 33.9 x 66.2” | 84.6 x 86.0 x 168.24 cm

CRATED DIMENSIONS
38 x 40 x 75” | 96.52 x 101.60 x 190.50 cm

EQUIPMENT WEIGHT
1900 lbs. | 861.8 kg

IRRADIATION GUIDELINES

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

PROCESSING

DOSE UNIFORMITY RATIO (DUR)
Dose Uniformity of 1.6 to ~ 1.35

DOSE MAPPING
The RS 3400 is dose mapped prior to shipment and at the time of installation. Semi-Annual Dose Maps are provided by Rad Source during the Warranty and Extended Warranty periods.

12 MONTH FULL WARRANTY
Includes Installation, Training, Initial Dose Map, Radiation Survey, 2nd Dose Map and all parts, labor & travel.

EXTENDED WARRANTY PROGRAM
Available for purchase anytime within 12 months from date of installation. Includes ALL parts, labor, travel and one PM call and (2) dosimetry reports per annum.

ELECTRICAL REQUIREMENTS

POWER
208/240VAC, Single phase, 50/60Hz, 30 Amp, true earth ground

INSTRUMENT WIRING
10 AWG L1, L2/N

WARRANTY

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

Blood Bags
Up to (6) 600 mL bags

Platelet Bags
Up to (6) 500 mL bags

Syringes
Up to (18) 60 mL Syringes

Our mission is to become the world leader in creating x-ray technologies and solutions that enable our customers to improve the world through life science. For over 24 years we have been a trusted and reliable partner to approximately 900 hospitals, pharmaceutical, academic and research institutions worldwide. Quastar, our patented technology, produces high output x-ray irradiation safely, efficiently and reliably for a wide variety of applications in life sciences.

To learn more about our positive impact on our world, contact us today.

www.radsource.com/blood-irradiator-rs3400    678-765-7900