

X-ray Irradiator Comparison Chart - Blood
5/15/2018

| Make | Primary Use | Model | Energy | Typical Dose Rates Dose Rates | Key Features | Price Quote Base System | Shipping/ Training and Installation | Other Key Options | Initial Warranty Covered | Warranty 13-24 Mo. | Warranty 24-36 Mo. | Warranty 36-48 Mo. | External Radiation Field at max kVp and mA | Weight |
|--------------------------------|-------------|---------|--------------------------|---|---|-------------------------|---|--|--------------------------|--------------------|--------------------|--------------------|--|----------|
| RadSource ¹ | Blood | RS 3400 | 155 Kv / 11 mA / QUASTAR | holds up to 6 (1 liter) blood canisters that hold 1 300 ml blood bag each with a 25 Gy dose in <5 minutes | stand alone-self-contained cooling- plug an play, on wheels, - FDA approved. 1 x-ray tube QUASTAR in center and canisters rotate around it. | | shipping | barcode scanner \$4K; syringe holders \$55., extra canisters \$1.5k, phantoms | 1 yr | | | | <0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm | 2450 lbs |
| Best Theratronics ² | Blood | MK1 | 160 kV | delivers 25 Gy in 6 minutes to a 1.7L canister so it irradiates 3 red cell bags in 4 minutes. 6.3 Gy/min | stand alone- 1 x-ray tube; self-contained cooling system | | Install/Training included / Shipping included | optional bar code reader \$6.3K; | 1 yr | | | | <0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm | 1309 lbs |
| Best Theratronics ² | Blood | MK2 | 160 kV | lg canisters 2.0 l (holds 4 300 ml bags) or 3.5 l size (holds 6-8 300 ml bags) - delivers 25 Gy in 3.8-5.7 minutes depending on canister size; 5-9 Gy minute depending on the canister size | stand alone- has 2 x-ray tubes above and below the sample for uniform dose. | | Install/Training included / Shipping included | database management system \$10.6K; heat exchanger for had water \$16.1K; optional water chiller \$22.3K | 1 yr | | | | <0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm | 2200 lbs |

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