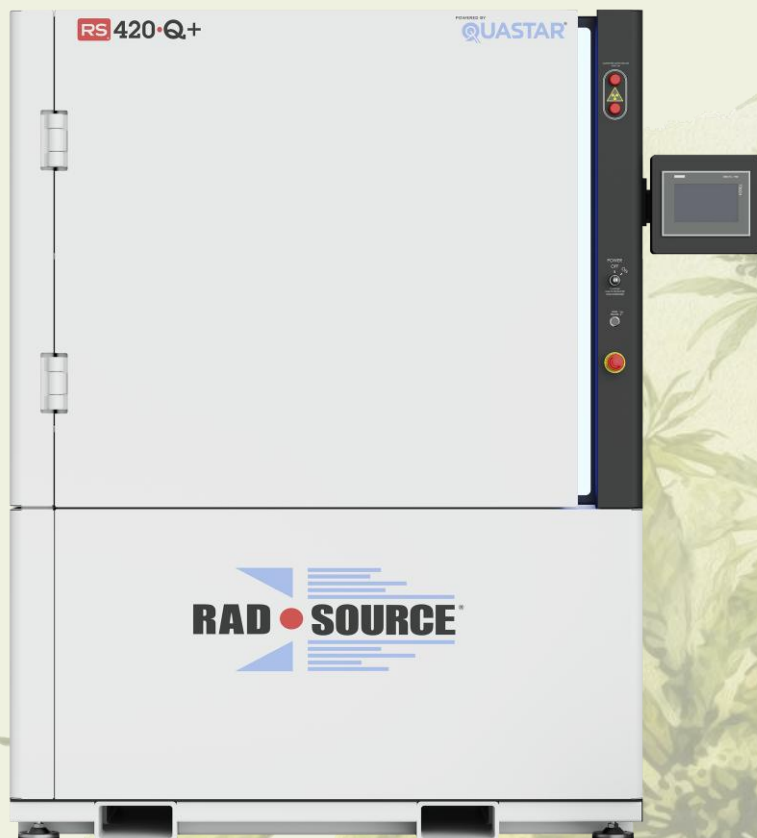
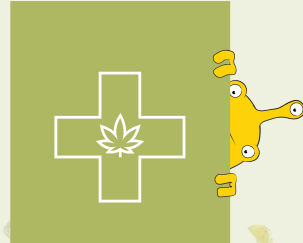


# RS 420•Q+ Cannabis Decontamination System



## Pass State Mandated Testing Levels With 99.9% Confidence

### Introducing the new QUASTAR-2®: The Next Evolution

- Minimal-to-no Effect on Cannabinoids, Terpenes, Moisture, Taste and Visual Quality of your Product
- Highest "Onsite" Flower Penetration Power
- Up to 25 lbs. / cycle | Two 6-hour cycles per day
- Proven Effective Against Aspergillus
- 35% more Photonic Storm than original Quastar
- Superior Flower Integrity
- 5 Years of Testing and Study Results



### Peace-of-Mind Microbial Decontamination™

#### Rest Assured, Test Assured™

The QUASTAR · 2 X-ray platform is a third-generation dynamic tube technology with enhanced performance and reliability. Our Photonic Decontamination™ provides a 99.9% confidence level in the microbial inactivation of Mold, Powdery Mildew, Aspergillus, BTGN, Yeast, Salmonella, E . coli, Coliform as well as other challenging microbes.

For over 5 years, many independent lab and customer generated test results show that Rad Source's Photonic Decontamination technology is the world leader in on-site cannabis decontamination.

#### Technology Choices Matter, Choose Wisely™

Rad Source combines (2) innovative proprietary technologies, the Dosing Carousel and the QUASTAR · 2 X-ray, for the industry's best microbial inactivation power, with unmatched penetration, strength and efficiency.

# RS<sup>®</sup> 420·Q+ Decontamination System

## Benefits

The NEW Rad Source RS 420·Q+ is powered by the QUASTAR·2 X-Ray Platform, the most powerful X-ray emitter available and totally different proprietary technology than the standard imaging X-ray used in biological irradiation. With QUASTAR·2 X-ray technology, the industry leading microbial decontamination technology is even better.

### Superior Flower Integrity

Photonic Decontamination will not heat the flower and will not cause premature decarboxylation of THCA. Competing remediation technologies - chemical, low wavelength energy and other - can cause undesired changes in the overall integrity of the flower. Rad Source's light-based solution will leave your cannabinoids, terpenes, moisture, taste and visual quality of your product intact and connoisseur preferred.

### The Dose Carousel - It's All About the Dose

Rad Source's unique and proprietary easy-loading Dosing Carousel technology, similar action to a Ferris wheel, stabilizes the loaded cannabis canisters around the QUASTAR·2 light source, providing unmatched dose uniformity, penetration and decontamination power without damaging trichomes or other physical characteristics of the product.

### Most High-Quality Photons – Highest Flower Penetration

The QUASTAR·2 produces efficient short light wavelengths that assure 99.9% decontamination efficiency rate and the power to penetrate a tightly-packed flower to inactivate challenging microbes at their DNA level preventing reproduction.

### Safety First Manufacturing

All Rad Source Photonic Decontamination systems are manufactured as cabinet systems and conform to the safety guidelines in 21 CFR1020.40.



\*Model is 6ft for size reference

### Processing Guidelines

Up to 25 lbs. / Cycle

- Standard: Two 6-hour cycles per day
- Boost: Two 5-hour cycles per day

(based on product density & 2000 Gy dose)

*\*results may vary based on the product bioburden load and strain*

### Equipment Dimensions (W x D x H)

63 x 44 x 80" (160.02 x 111.76 x 203.2 cm)

### Clearance Dimensions (W x D x H)

145 x 130 x 80" (368.3 x 330.2 x 203.2 cm)

### Canister Dimensions

12 x 13" (30.48 x 33.02 cm)

### Equipment Weight






















Approx. 5200 lbs. (2358.68 Kg)

### Power Requirements

220 VAC 3-phase 50/60Hz, 50 Amp, True Earth Ground

**\*External closed loop chiller required**

## Microbial Reduction Across Multiple Dose Exposures

	Microbes - CFU/g			% Moisture		
	Pre-test	1800 Gy	2000 Gy	Pre-test	1800 Gy	2000 Gy
Total Viable Aerobic Bacteria	 186,000	 494	 0	 12.20%	 12.38%	 12.34%
Total Yeast and Mold	 11,892	 22	 0	% THC		
Bile-Tolerant Gram Negative Bacteria	 17,381	 863	 0	Pre-test	1800 Gy	2000 Gy
Total Coliforms	 13,091	 553	 0	 21.16%	 23.04%	 22.00%
				% Terpenes		
				Pre-test	1800 Gy	2000 Gy
				 0.68%	 0.78%	 0.72%

Note: Details on this chart are kept in-house and are available upon request.



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.radsources.com](http://www.radsources.com) or call us at 678-765-7900 to learn more.



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