

RS™ 420 Series Cannabis Decontamination Systems



Pass State Mandated Testing Levels With 99.9% Confidence

“Rad Source gives me
Peace-of-Mind that no change
in operating procedures or any other
piece of Technology has given me.”

-Mid-Size Grower

Peace-of-Mind Microbial Decontamination™

- **Rest Assured, Test Assured**
Quastar® Photonic Decontamination™ technology provides a 99.9% confidence level in remediation of Mold, Powdery Mildew, Aspergillus, BTGN, Yeast, Salmonella, E. coli, Coliform and other challenging microbes.
- **Flower Integrity Maintained**
Photonic Decontamination is a room temperature process which results in nominal to zero effect on cannabinoids, terpenes, potency and moisture.
- **Premium Decontamination, Earned Trust**
Quastar is the cannabis industry's premium onsite microbe inactivation technology platform and Rad Source has over 24 years experience, covering multiple markets and over 800 installations. We offer the best overall value in cannabis decontamination.

cannabis

POWERED BY

QUASTAR™

FEATURES & BENEFITS

Patented Quastar Photonic Decontamination

Superior High Quality Photons – Highest Flower Penetration

Produces efficient short light wavelengths that assure 99.9% remediation efficiency rate and the power to penetrate a tightly-packed flower to inactivate challenging microbes at their DNA level preventing reproduction.

Protects Public Health

Uses the same technology the FDA has approved for food to reduce dangerous microbes in a biomass. Proven technology in use in Canada and the Netherlands for cannabis.

Repairable Light Source Design - Manageable Cost of Ownership

The Quastar light is engineered to be repairable and last up to 7 years. Only Quastar can achieve superior dose uniformity resulting in lower run times.

Designed for Life Science, Natural Fit for Cannabis

While Quastar is designed for use in medical and life science industries, it performs extremely well in the Cannabis market for microbe remediation.

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.

Chemical and Residual Free Technology

Photonic Decontamination penetrates the flower with light and will not saturate the surface layers of a flower with disinfectants or other potentially toxic chemicals, nor will Photonic Decontamination (light) leave any potential residuals.

Helps Prevent the Risk of Secret Shopper

Microbials can continue to grow inside the flower and below the surface even after other remediation technologies have completed their processes. Photonic Decontamination is the only remediation technology to consistently achieve non-detectable limits of microbes after the inactivation process.

Hassle-free, Cost Efficient Onsite Processing

Rad Source's 420 series of cannabis decontamination systems can be plugged into your current onsite workflow providing added efficiency and cost savings. No additional costs associated with outside decontamination facilities. (Logistics, inventory, insurance, chain-of-custody, shipping and more.)

Safety First Manufacturing

All Rad Source Photonic Decontamination systems are manufactured as cabinet systems and conform to the safety guidelines in 21 CFR 1020.40.

Physical Integrity Maintained

Rad Source's patented carousel technology stabilizes the loaded cannabis canisters and gently moves the flower around the light source, providing unmatched dose uniformity and decontamination without damaging trichomes or other physical characteristics of the product.

Proven Reliability – Earned Trust

For over 20 years and with over 800 instrument installs in renowned hospitals, universities, government, research and life science institutions worldwide, Rad Source has provided the globe's leading companies with reliable technology solutions and services.



RS 420-M Cannabis Decontamination System

EQUIPMENT DIMENSIONS (W x D x H)

30 x 36 x 64" (76.2 x 91.4 x 162.6 cm)

CANISTER DIMENSIONS - VOLUME

(1) 10 x 7.1" (25.40 x 18.03 cm)

REQUIRED CLEARANCE DIMENSIONS (W x D x H)

38 x 40 x 75" (96.52 x 101.60 x 190.5 cm)

PROCESSING GUIDELINES

~1-2 lbs. / 3-4 hr cycle (based on product density & 2,000 Gy dose)

* results vary based on the products bioburden load (strain + microbial load)

EQUIPMENT WEIGHT

1350 lbs. (612.35 kg)

Our patented Photonic Decontamination™ technology is the ultimate solution for cleaning cannabis without destroying the flower or chemically modifying it.

Cannabis products provide benefit to both patients who require medical cannabis for treatment and adult-use cannabis users. In both circumstances, cannabis harvesting and processing are regulated by strict quality regulations to ensure the final product does not risk the health of consumers. Harmful mold, bacteria and other microbes are sources of cannabis contamination that need to be eliminated before it can be sold in dispensaries.

While other decontamination methods of cannabis can lead to the incomplete inactivation of mold, bacteria and other microbes leading to regrowth in the final product, our patented photonic decontamination technology inactivates these contaminants, preventing them from multiplying later on and reaching a level that can become a health hazard to consumers.

Got Mold?™

How much does failed microbial testing cost you?

Only the power of Quastar technology will give you the 99.9% confidence and peace-of-mind you need to inactivate Mold, Powdery Mildew, Aspergillus, BTGN, Yeast, Salmonella, Coliform, E. coli and other challenging microbes. Learn More, Save More.



RS 420•Q Cannabis Decontamination System

EQUIPMENT DIMENSIONS (W x D x H)
46 x 36 x 74" (116.8 x 91.4 x 187.9 cm)

CANISTER DIMENSIONS - VOLUME
(5) @ 7.0 x 8.5" (17.78 x 21.59 cm)

REQUIRED CLEARANCE DIMENSIONS (W x D x H)
52 x 42 x 80" (132.1 x 106.7 x 203.2 cm)

PROCESSING GUIDELINES
2.5-5 lbs. / 5-7 hr. / cycle
(based on product density & 2,000 Gy dose)
*results vary based on the product bioburden load
(strain + microbial load)

EQUIPMENT WEIGHT
2450 lbs. (1111.30 kg)



RS 420•XL Cannabis Decontamination System

EQUIPMENT DIMENSIONS (W x D x H)
73 x 50 x 78" (185.42 x 127 x 198.12 cm)

CANISTER DIMENSIONS - VOLUME
(5) @ 12.0 x 24.8" (30.48 x 62.99 cm)

REQUIRED CLEARANCE DIMENSIONS (W x D x H)
78 x 53 x 83" (198.12 x 134.62 x 210.82 cm)

PROCESSING GUIDELINES
25-50 lbs. / 8-10 hour cycle
(based on product density & 2,000 Gy dose)
*results vary based on the products bioburden load
(strain + microbial load)

EQUIPMENT WEIGHT
5,600 lbs. (2540.12 kg)





In Bag Decontamination

Only Photonic Decontamination™ gives you the power to **process your product in sealed bags** which minimizes the risk of possible recontamination.

✓ bagged
✓ sanitized

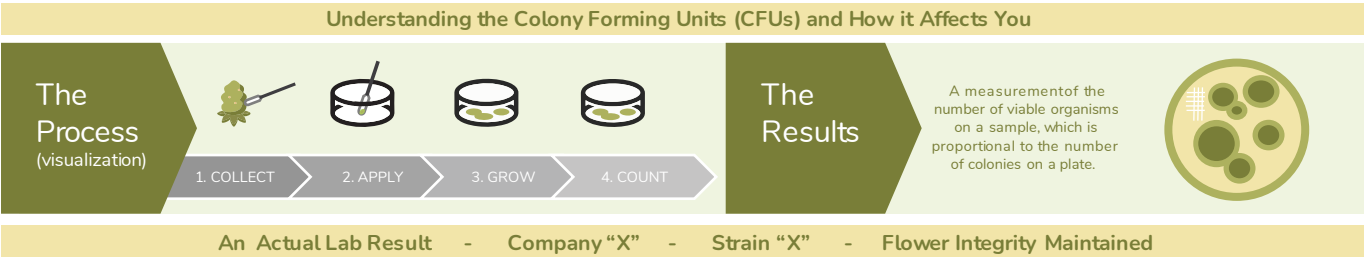
—OR—

✓ bagged
✓ sanitized

No "open air" trays like those used in ozone or RF, therefore, removing potential risk for human or environmental contamination. Once inactivated in the bag, the product remains safe from recontamination on the way to its final destination - the vault, dispensary or testing lab.

Don't Take it From Us, Take it From Our Customers

Only One Technology Provides 99.99% Microbial Test Passing Confidence



Microbes - CFU/g			
	Pre-test	1800 Gy	2000 Gy
Total Viable Aerobic Bacteria	 186,000	 494	 0
Total Yeast and Mold	 11,892	 22	 0
Bile-Tolerant Gram Negative Bacteria	 17,381	 863	 0
Total Coliforms	 13,091	 553	 0

% Moisture			
	Pre-test	1800 Gy	2000 Gy
	12.20%	12.38%	12.34%

% THC			
	Pre-test	1800 Gy	2000 Gy
	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.



We Are the Cannabis Microbial Decontamination Experts™



Rad Source is a leading global life science technology company that provides the cannabis industry with the only premium cannabis decontamination technology using our patented Quastar photonic emitter. Only Rad Source's photonic (light) based decontamination systems enable cannabis producers a true peace-of-mind microbial remediation experience. Our patented microbe inactivation technology can help you increase profits, maintain flower integrity and most importantly, provide the knowledge and confidence that your product will pass state mandated microbial tests with 99.9% confidence.

For over 24 years, Rad Source has provided our partners in medicine and life science with over 800 proven and reliable solutions that help address some of the industry's and world's most challenging issues.

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

