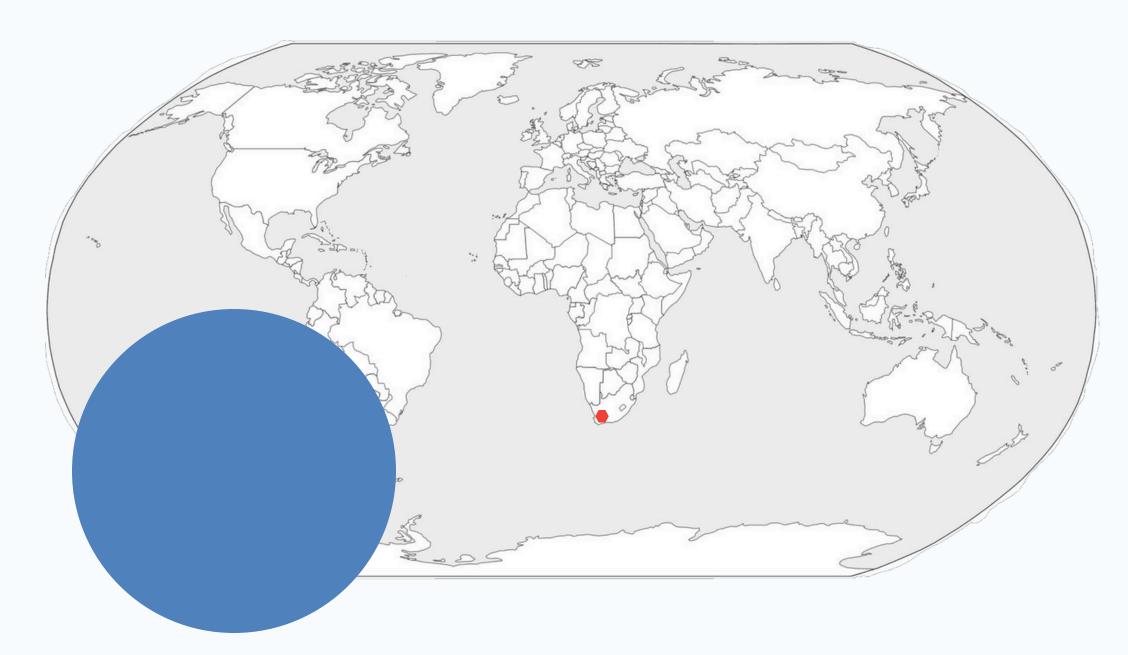


Projects in Process

- United States
- Canada
- •Israel
- Australia
- •Columbia
- Portugal
- Puerto Rico
- Netherlands
- Spain
- Switzerland
- Thailand
- South Africa
- •UK
- Macedonia
- France



- Indoor Grow/ Greenhouses
- Food Safety
- Medical Facilities
- •Bio Tech Clean Rooms
- Office Buildings





Solves Problems for Indoor/Greenhouse Cannabis Growers



ProGuard Seeks & Destroys Molds Mildew Bacteria Viruses •Reduce CFU's to meet GACP and EU GMP requirements

ProGuard Does Not Impact Terpenes





ProGuard Protects Post Harvest Areas



Protects:

- Post Harvest areas
- •Trim rooms
- Packaging
- Extraction
- Corridors
- Storage
- Labs

SAFE for Humans and Plants **Does Not Impact Terpenes**

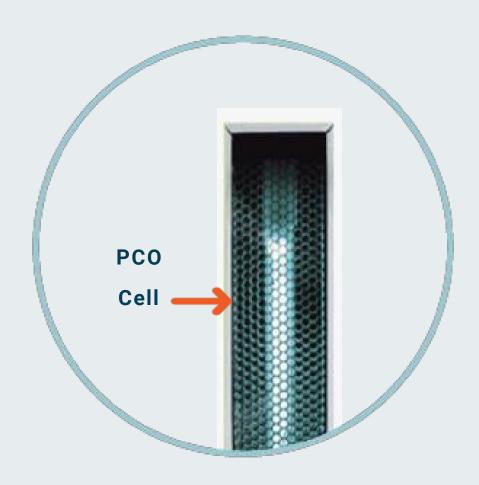




ProGuardSanitizationProcess



Photo Catalytic Oxidation



Uses a catalyticprocesstocreateadvanced oxidation AND high energy ionization tomanage contaminates in the air and surfaces

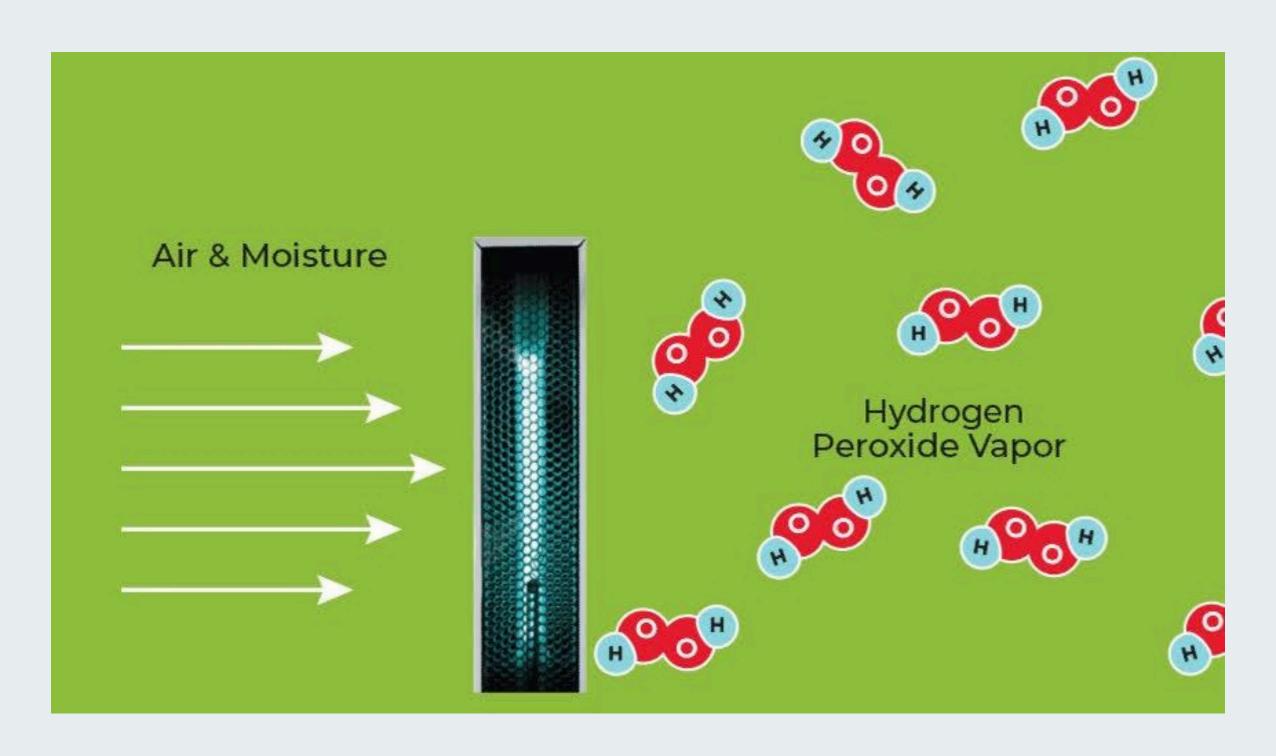
*Originally developed by NASA





ADVANCED (ARC-PCO) PROCESS

Advanced (ARC-PCO) Process Creates Millions of Ionized H2O2 Clusters Eliminating Mold, Mildew, and Bacteria



ProGuard BPI Sanitization Process

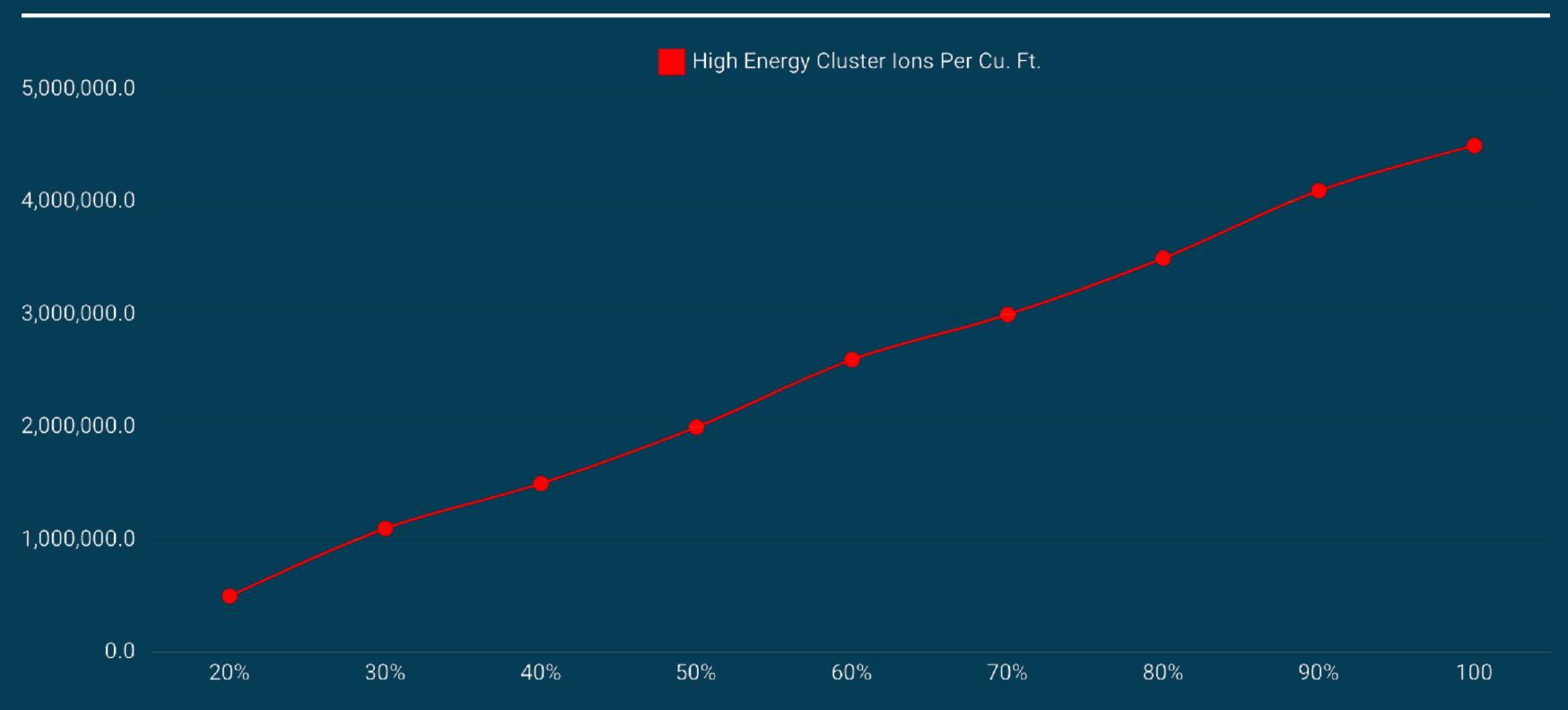


Our advanced sanitization technology uses Bi-Polar Ionization (BPI), an ionization process that ensures highly effective air sanitization.

As our second layer of defense, BPI is specifically engineered to excel in high-humidity environments, making it ideal for cannabis cultivation and other challenging environments.



ProGuard Performance Related to Humidity







ProGuard / BPI Technology- NORMI STUDY

The National Organization of Remediators and Mold Inspectors, (NOR MI) trains mold and indoor environmental professionals, providing over 14 certifications to meet licensing laws.

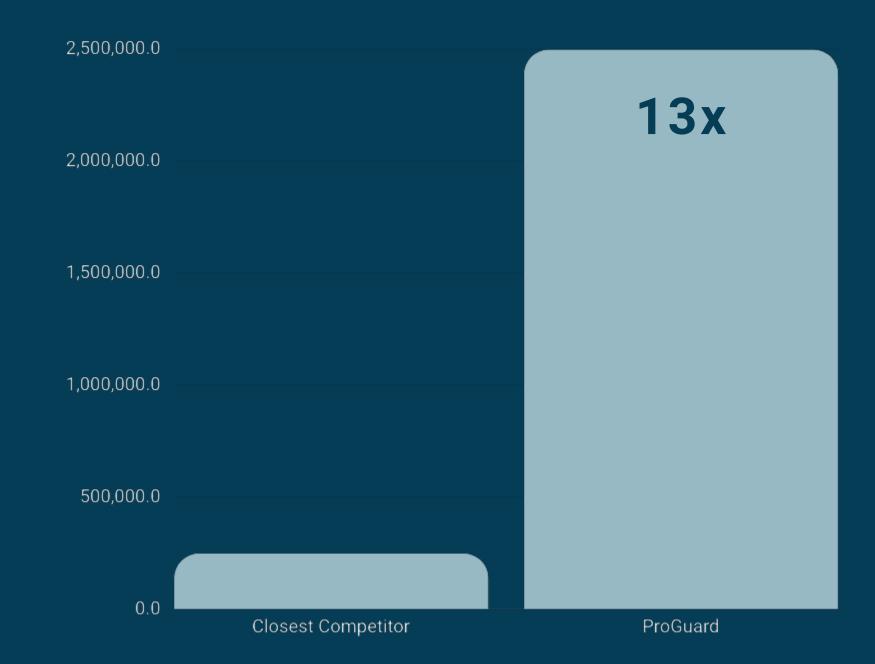
CONFIGURATION	NEGATIVE IONS/C3CM	POSITIVE IONS/C3CM
Test 1 Competitive Brand PCO	1 50 ,0 00	6 ,0 00
Test 2 Competitive Brand PCO	1 40 ,0 00	24,000
Test 3 ProGuard Brand ARC-PCO & BPI	800,000	1,200,000





ProGuard BPI Technology Output Comparison

Ion Output



Tested by Third Party Lab

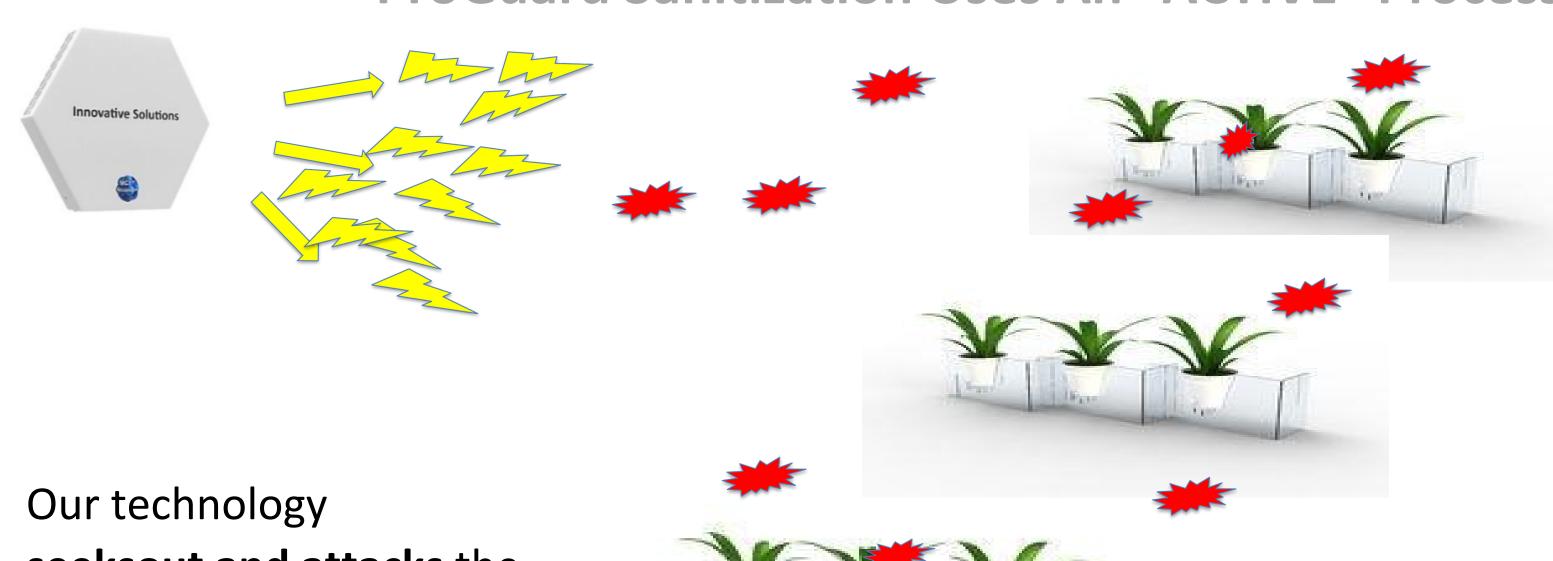








ProGuard Sanitization Uses An "ACTIVE" Process



Our technology
seeksout and attacks the
pathogens at thesource,
protecting the entire room

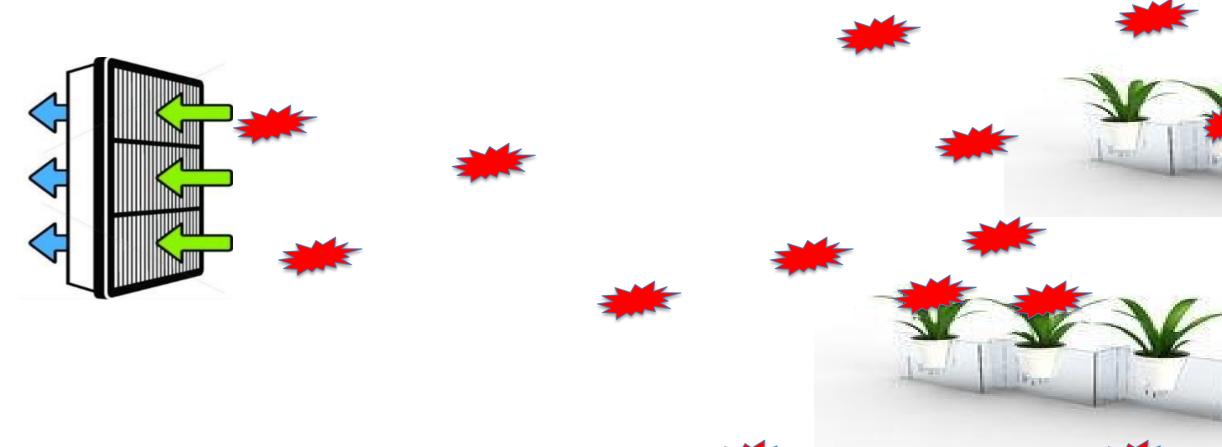
toreduce outbreaks.

Sending powerful purification directly to the plants, pots, benches etc. to control pathogens.

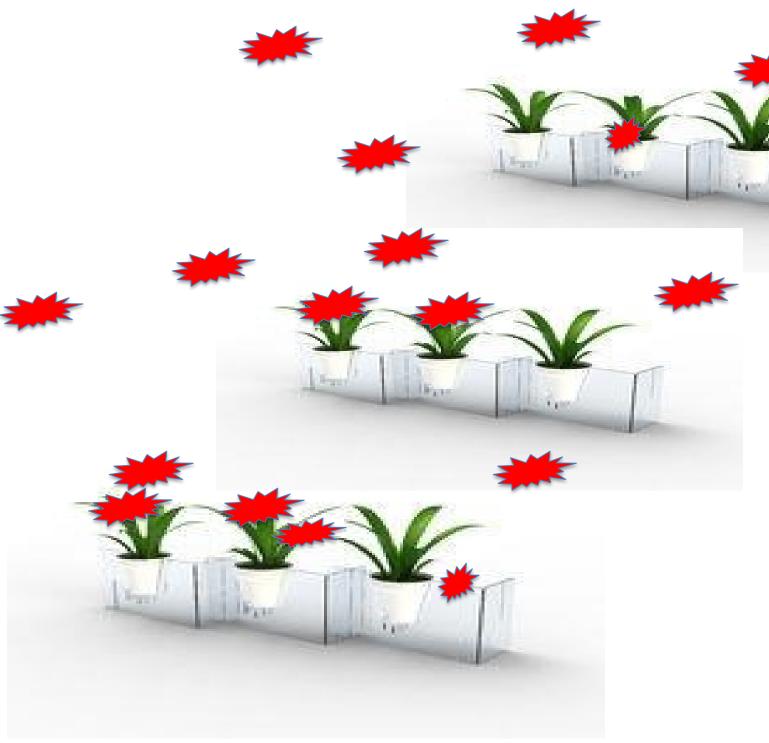




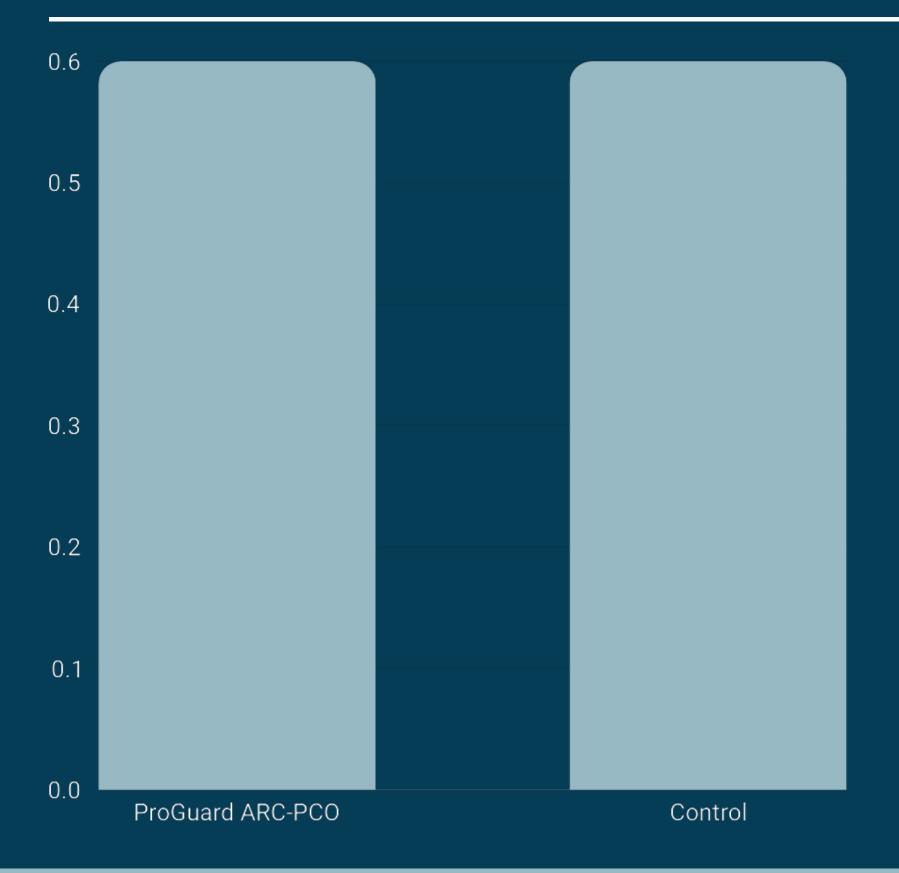
"PASSIVE" technologies require the molds, bacteria to be delivered to the purifier



Passive technologies are only effective in small areas close to the machine leaving the majority of the room vulnerable and unprotected.



Terpenoid Biossay Test



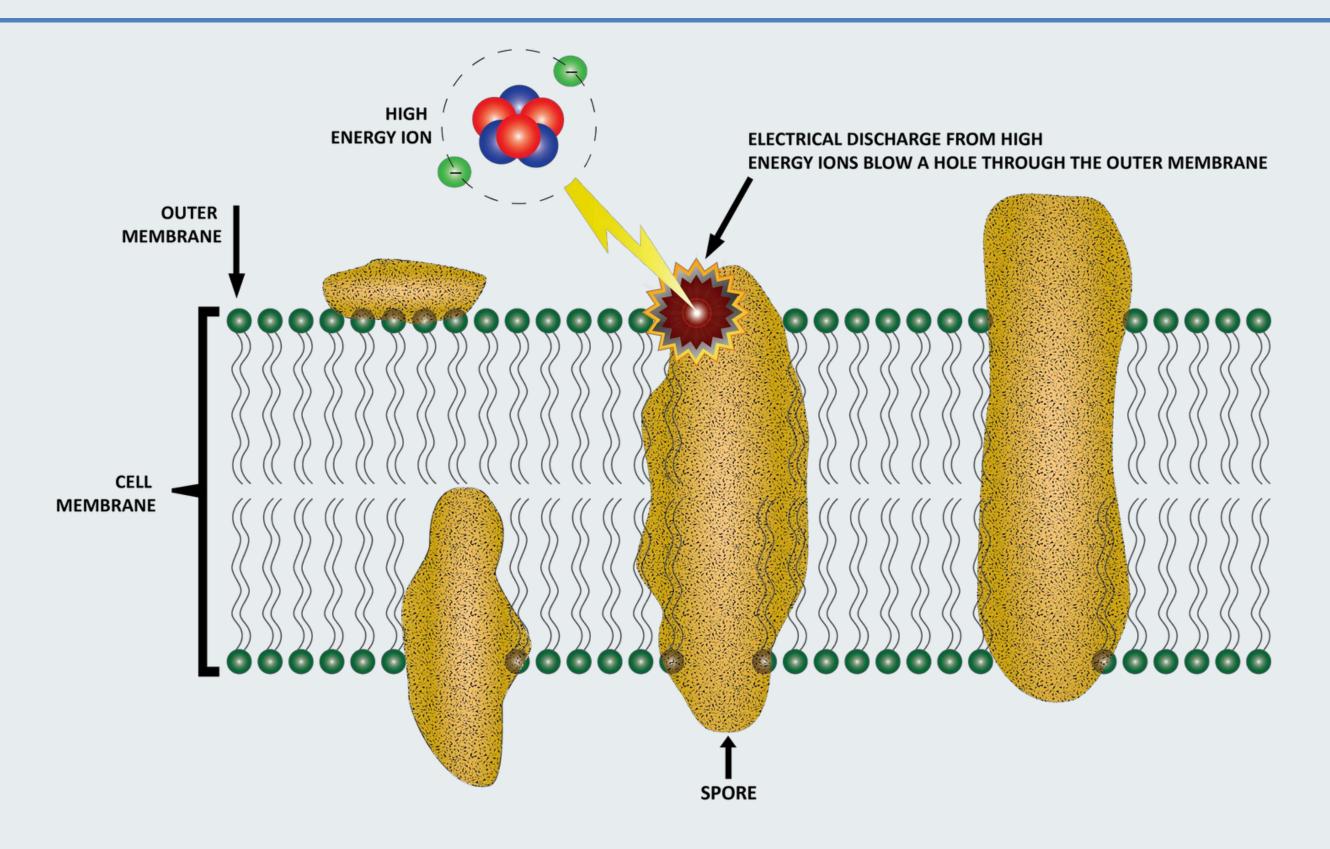
When comparing the two datasets, it was determined that **no** statistically significant **variance** was found **in terpenoid levels** between the product treated with ProGuard and untreated product.

*Testing completed by: An Innovative Solutions Customer





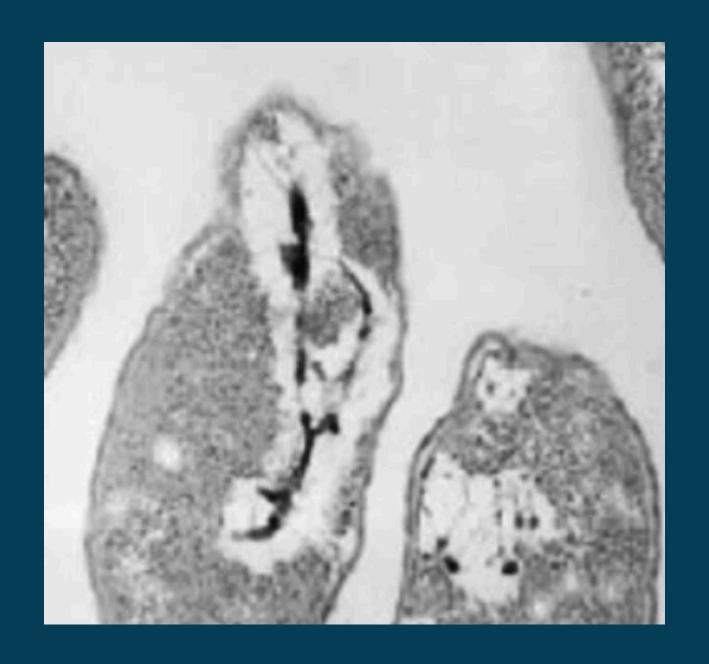
How The **ProGuard BPI Ionization** Works

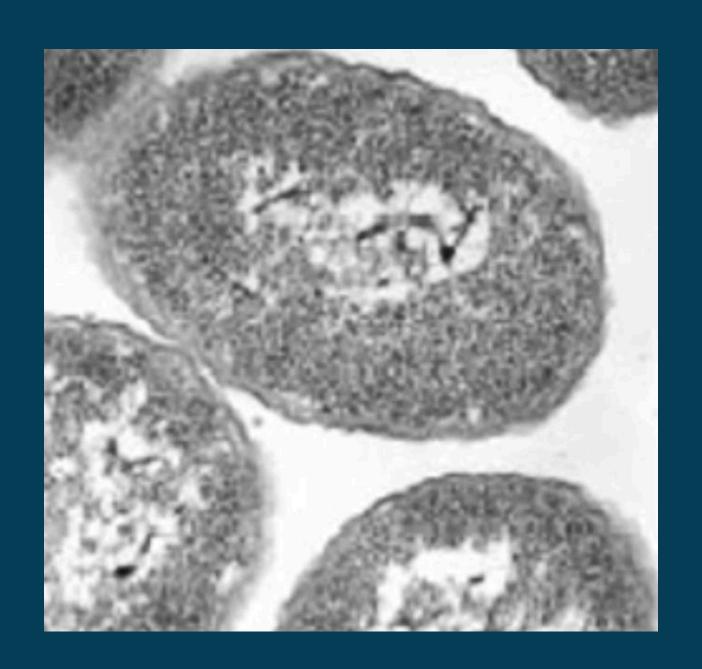




Enterococcus Bacteria Cells

Enterococcus Bacteria Cells AFTER exposure to ProGuard High Energy Ionization





*TEM photo of bacteria cells AFTER exposure to ionization process





Effectively Kills Pathogens Of All Types

- Problem: Customer Was Failing12% Of Their Microbial Tests
- Solution: Installing ProGuard Customer Passed 100% Of Their Microbial Tests

FIELD STUDY: Denver, CO 25,000ft

Microbial Lab Test- WITHOUT ProGuard			
Analytes	Unit	Microbial CFU's	Pass/ Fail
Yeast/ Molds 1	c fu/g	29, 000	FAIL
Yeast/ Molds 2	c fu/g	20, 000	FAIL
Yeast/ Molds 3	c fu/g	65, 000	FAIL

Microbial Lab Test- WITH ProGuard			
Analytes	Unit	Microbial CFU's	Pass/ Fail
Yeast/ Molds 1	cf u/ g	200	PASS
Yeast/ Molds 2	cf u/ g	1, 000	PASS
Yeast/ Molds 3	cf u/ g	1, 300	PASS













Prevents Mold & Powdery Mildew

• Problem: Customer Was Failing10% Of Their Microbial Tests

• Solution: Installing ProGuard Customer Passed 100% Of Their Microbial Tests

FIELD STUDY: California 30,000 ft

Microbial Lab Test- WITHOUT ProGuard			
Analytes	Unit	Microbial CFU's	Pass/ Fail
Yeast/ Molds 1	c fu/g	11, 000	FAIL
Yeast/ Molds 2	c fu/g	41, 000	FAIL
Yeast/ Molds 3	c fu/g	23, 000	FAIL

Microbial Lab Test- WITH ProGuard			
Analytes	Unit	Microbial CFU's	Pass/ Fail
Yeast/ Molds 1	cf u/ g	160	PASS
Yeast/ Molds 2	cf u/ g	670	PASS
Yeast/ Molds 3	cf u/ g	280	PASS













ProGuard Reduces Powdery Mildew

HORTICULTURISTS UNDERSTAND THAT POWDERY MILDEW (PM) IS SYSTEMIC

- Once a plant is infected with PM it is almost impossible to get rid of it
- PM then begins sporulation to grow and spread to other plants

VARIABLES THAT CAUSE PM

- •Plant Factors: Strains, systemic clones
- Environmental Factors: Air quality, circulation, temperature, humidity
- •Other Factors: Water, soil, growing practices

Air quality is a critical factor in minimizing Powdery Mildew, and the ProGuard System provides air and surface purification to help reduce its infestation and spread in indoor and greenhouse grows.

ProGuard is not a "Silver Bullet." Growers must also address their overall growing practices and implement effective QA SOPs to fully manage Powdery Mildew and other pathogens.





Food Test Using ProGuard Room Temprature

Non Treated



ProGuard Treated



DAY 1

Twocontainers of non-treated strawberries in separate, non-refrigerated rooms. One room protected with ProGuard, the other room was not.





DAY 8

On day 8 the non-treated strawberries, without ProGuard, protection developed botrytis.

The ProGuard protectedstrawberries contained no mold, and only showed some dehydtration







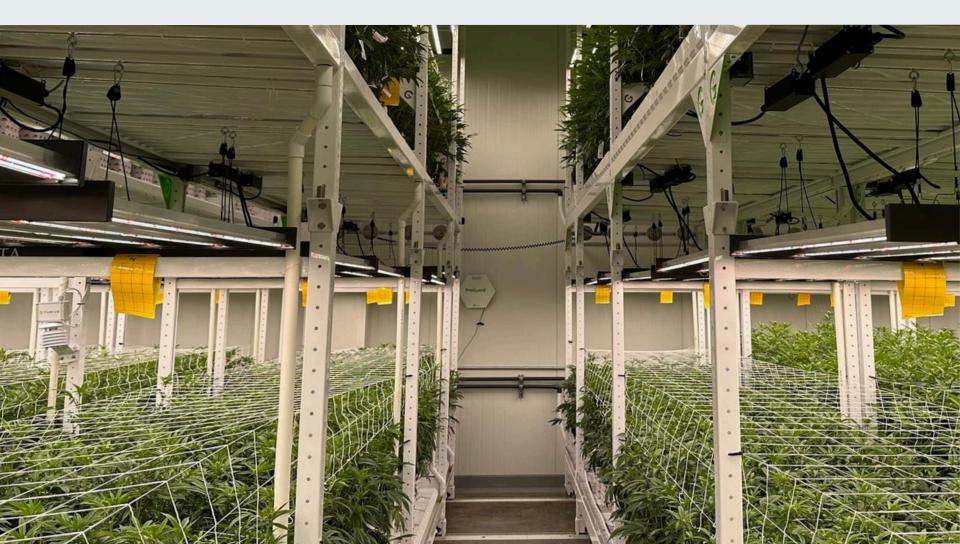
FACILITY

Insures an umbrella of coverage over the entire facility:

- Sanitization HVAC Supply Air
- Sanitize Critical Rooms
- Odor Control Exhaust

GROW ROOMS

Provide **clean air** in the **Grow Rooms** to insure clean Bud development





PROCESSING

Provide a **clean environment** for trim, processing & packaging.

DRY ROOM

Manages: gray mold, botrytis, and bud rot in the dry and cure process.



ProGuard Protection For Your Entire Facility

ProGuard insures an umbrella of protection around the entire facility to help manage gray mold, botrytis, and bud rot in all stages of cultivation



GROW ROOMS

- Clone
- Nursery
- •Veg
- Flower

POST HARVEST

- •Dry
- Cure
- Trim
- Packaging
- Storage
- Corridors
- Extraction Labs





ROI Using ProGuard Protection

1,000 SF ROOM REQUIRES 2 - DXB 100 UNITS @ \$1,150 EA. = TOTAL COST \$2,300 USD



- 1. <u>1-GrowCycle</u> = 1000 sf room 800 sf canopy 75 lbs. dried flower = \$150,000 yield per grow cycle
- 2. Rooms WITHOUT ProGuard on average produced 5%-10% LESS yield with additional costs
 - Due to costs associated with product loss
 - Reduced yields and quality from PM
 - •Costs for increased labor and inputs for spraying, increased pruning and attention



ROI Using ProGuard Protection

GROW CYCLE PRODUCT YIELD	\$15 0,000
10% Loss	-\$15,000
5% Loss	-\$7,500
2% Loss	-\$3,000

- •A conservative 2% increase in yield per cycle means a \$2,300 ProGuard investment pays for itself in the first grow cycle
- •An estimated 2-year ROI of over \$30,000 per unit





ProGuard Is University Tested by Dr. James Marsden

(Kansas State University)

Tested at Leading Universities

Dr. James Marsden

- •Kansas State University distinguished professor of Food Safety & Security
- Research focus has been on the safety of food products
- Senior Science Advisor for the North American Mear Processor Association
- Advisor to the United States department of agriculture
- Author of over 100 publications and book chapters on food safety
- Advisor to American Meat Packers Association
- •Past president of the American Meat institute foundation on the board of several corporations





DXB 100



Application: Designed for high humidity high density areas including veg rooms, flower rooms, mother rooms, dry rooms, and greenhouses

- •The **DXB 100** has been designed and engineered to **deliver**sanitization for high humidity high density environments using the ProGuard Sanitization Technology
- •The **DXB 100** is easy to install and maintian as it **operates 24/7**
- •ProGuard Sanitization has been tested and validated by reputable labs across the world to ensure safety and effectiveness in reducing mold, mildew, bacteria, viruses, voc's and other dangerous pathogens

- •Covers up to 500 sf / 46 m2
- •Weight of unit 6.5 lbs
- •Dimensions (HxLxD): 11.69" x 13.44" x 3.5
- •Electrical input: 100-240V 50/60Hz
- •Electrical output: 12VDC 3A
- Power Consumption: Running 14W-21W
- Warranty: 2 years





DXB Mini



Application : Indoor grow rooms, greenhouses, dry rooms, and more

- •The DXB Mini has been designed and engineered to deliver sanitization that is proven to reduce and eradicate surface and airborne pathogens for high load environments in Cannabis Cultivation Centers using the ProGuard Sanitiation Technology
- TheDXB Mini is easy to install and maintain as it operates 24/7 in Cannabis facilities
- •ProGuard Sanitization has been tested and validated by reputable labs across the world to ensure safety and effectiveness in reducing mold, mildew, bacteria, viruses, voc's and other dangerous pathogens

- •Covers up to 250 sf / 23 m2
- •Weight of unit 3.3 lbs
- Dimensions (HxLxD): 11.92" x 9.72" x 3.64Supply/ Voltage/ Watts: 100-240VAC/ 17W
- •Operating Voltage/ Amps: 24VDC/ .67A
- Warranty: 2 years





pureAir HVAC



Application: HVAC supply air, offices, labs, and more

•pureAir HVAC has been designed and engineered to deliver sanitization that is proven to reduce and eradicate surface and airborne pathogens in HVAC systems in Cannabis Cultivation Centers using Bipolar Ionization Technology (BPI)

•pureAir HVAC is easily installed in HVAC systems. BPI technology has been testedandvalidated byreputablelabsacross theworldtoensure safety and effectiveness in reducing odors caused by mold, mildew, bacteria, VOC's and other pathogens

9" Cell	14" Cell
•500 sf / 46 m2	•750 sf / 69 m2
•3-3.5 tons	•5+ tons
•100-240 VAC/ 18W	•100-240 VAC/ 28W
•24 VDC/ 0.70A	•24 VDC/ 1.05A
•9.75" x 9.75" x 13"	•9.75" x 9.75" x 18.75'
• 2 8 lb	•3 lb



Guardian with BPI



Application : Sanitize **grow rooms after harvest** to prepare the rooms for new crops and more.

- •The **Guardian** has been designed and engineered to **deliver**sanitization that is proven to reduce and eradicate surface and airborne pathogens for **high load environments** in Cannabis Cultivation Centers using the ProGuard Sanitization Technology
- •The **Guardian** is easy to use as a **mobile unit** in Cannabis facilities
- ProGuard Sanitization has been tested and validated by reputable labs across the world to ensure safety and effectiveness in reducing mold, mildew, bacteria, viruses, voc's and other dangerous pathogens

- •Covers up to 2500 sf / 225 m2
- •Weight of unit 39 lbs
- •Dimensions (HxLxD): 20.5" x 18.5" x 23.5
- •Electrical input: 120V/ 60 Hz or 220V/ 50Hz
- •Airflow: 409 CFM
- •Usage: Min. 143W/ 1.43A Max. 274W/
- 2.78A
- Aluminum cast

- •Four 14" PCO cells
- •Two 12" x 12" filters
- •Four lockingcaster wheels
- Two carry handles
- Warranty: 2 years





ProGuard Is The World Leader

- Global Brand recognition with 19,000+ followers on Instagram @proguardofficial
- ProGuard articles featured on MMJDaily which is viewed by tens of thousands of customers
- Featured on CannaCribs videos which is viewed by millions around the world

