Reactive Oxygen System (rO) TheBOX™

True Purification of Fungus, Bacteria & Viruses in dried flower



TheBOX™, Reactive Oxygen System (rO), is a novel, terminal decontamination system that produces a zero ecological footprint.
Using a proprietary Reactive Oxygen technology originally developed for transplant tissue more than a decade ago. The low-temperature technology has been optimized for medical cannabis beginning R&D efforts in 2016 using healthcare validation standards.

TheBOX™ delivers a Fresh, Safe, Pure, medical cannabis flower safe for any consumer.

With an eye on ever increased regulatory compliance in the medical cannabis sector, products of our partner PuroGen are manufactured to the strictest quality standards following FDA medical device protocols including design, engineering, and efficacy standards.
Helping you to keep your patients safe from a broad range of pathogens while preserving the specific bio-indictors unique to the medical cannabis field.

Benefits

- Organic Mold Remediation
- Consistency of Products
- No Damage to Flower
- No Moisture Loss
- Intact Terpene Profile

Effective sterilization of organisms is especially difficult in flower. When developing this scientific process it was important to remember that the process of sterilization and decontamination of flowers must not effect THC, CBD and Terpenes which provides medical cannabis its unique qualities your consumers demand. Laboratory testing has validated the preservation of these important bio markers.

The Purogen purification system, TheBOX, uses a proprietary Reactive Oxygen (rO) decontamination process for safely and efficiently sterilizing flower while not effecting the cannabinoid profile (THC, CBD, Terpenes etc.). The proprietary technology works by introducing reactive Oxygen to destroy mold, bacteria, and fungi deep inside the bud – This sterilization method is more than just a surface kill; it is effective through all the layers of the flower destroying pathogens down to the DNA. During the 25 minute process, the rO attacks pathogens and produces harmless byproducts of oxygen and water vapor, making the whole process organic.

First, each system is equipped to perform measured and controllable rehydration. Second, you have the option to add the ability to infuse terpenes, allowing you to recreate profiles or offer flavors

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such as peppermint and banana or one can even formulate for desired therapeutic effect. The options are endless.

Function	Average process time
Purification	25
Purification/Rehydration	30
Purification/Rehydration/Terpene Infusion	40
Rehydration	15
Terpene Infusion	15

TheBOX remediates (but is not limited to) the following common pathogens plaguing our industry.

Mold/Fungus	Bacteria
Aspergillus	Escherichia coli
Mucor	Salmonella
Cryptococcus	Clostridium sporogenes
Botrytis	Bacillus Atrophaeus
	Geobacillus stearothermophilus
	P. aeruginosa

Technical specifications

- Weight of 330 lbs.
- Dimensions of 32" x 32" x 36"
- 120VAC/20A Single Phase Dedicated Power Inlet
- Chamber Capacity 5 lbs. (We are in the process of increasing the capacity.)
- Reactive Oxygen System Interface
- Ultra-high vacuum pump system
- rO destruct system for vacuum pump exhaust
- Control system with pre-programmed cycle parameters
- Language Operator Panel and User's manual
- Installation, setup, and training
- 12 Month warranty
- Designed for flower moisture level ,16%
- Ability to track the number of runs, results, user information, status of equipment, all from a smart phone.
- Powerful control programming with built in calibration and diagnostic tools
- Extraordinary purification power to eliminate 600,000 CFU of pathogens.