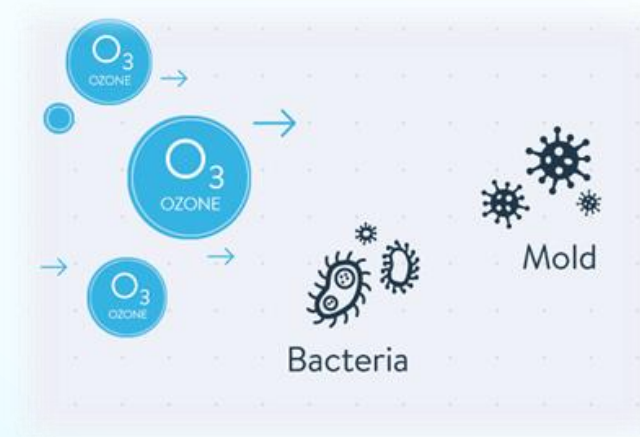
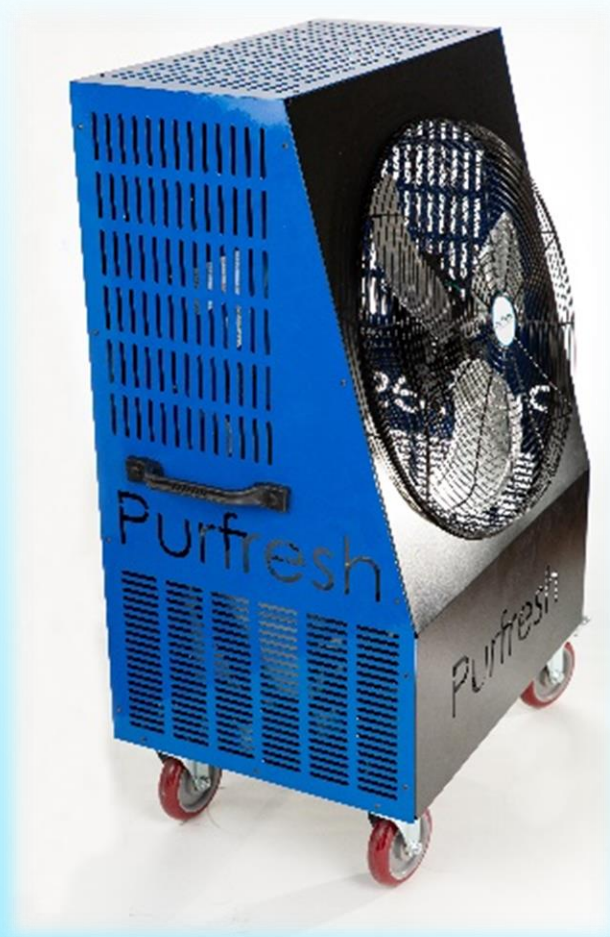




purfresh<sup>®</sup>  
clean

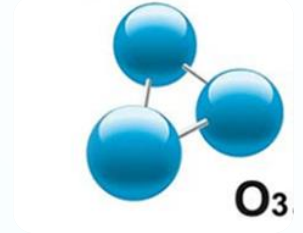
Protect. Purify. Clean.

## Meet Purfresh SPACE By Purfresh Clean



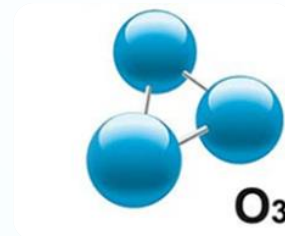
# Oxygen-3 Decontamination System

## Growing and Harvest Applications



- Stop or eliminate growth of mold, WPM, yeast, and bacteria from your crop during growing & drying
- Monitor, web-reporting, and alarms for temp, humidity, CO2 and O3 conditions in your rooms
- Clean and disinfect grow rooms and drying rooms between crops
- Removing odors from exhaust gasses leaving rooms
- Air cleansing add-on option utilizing HEPA/UVc/Carbon air-filter systems to remove small particles, aldehydes, and microorganisms found in the air.

## Multiuse Oxygen-3 Decontamination System



### Safe

- Runs on programmable scheduler-timer
- Ensures the O<sub>3</sub> production only occurs during controlled times.
- FDA food grade approved, USDA organic certified for agricultural product contact

### Automatic & Dynamic

- SPACE can be used daily or nightly on the programmable timer and can be controlled remotely via a cloud-based application

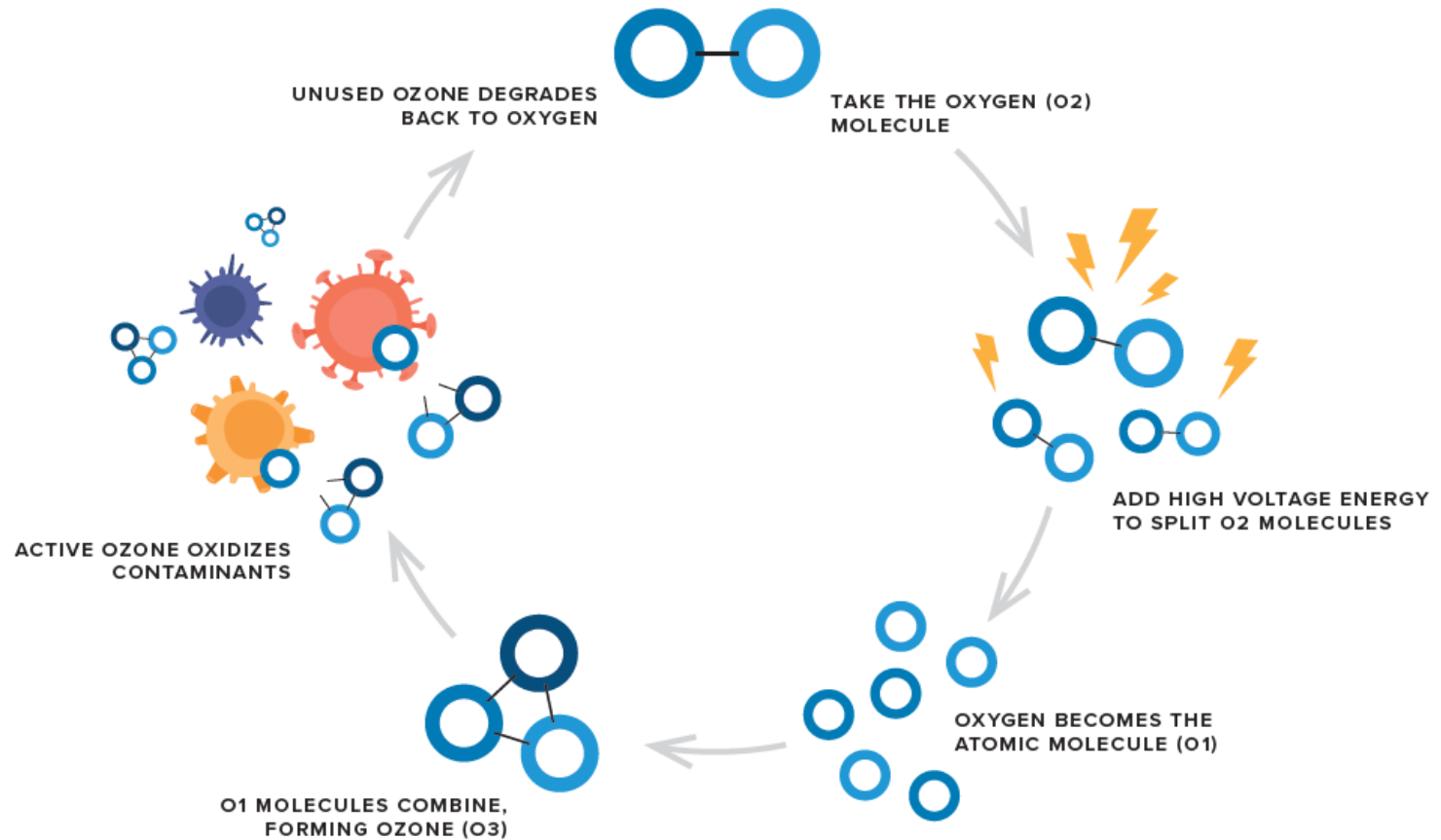
### Mobile

Purfresh SPACE is designed to be user friendly and can be rolled easily to different locations for use



**ORGANIC APPROVED – NO CHEMICALS**

## How Does It Work





## Features and Safety



Feature	Oxygen <sub>3</sub>
Live Monitoring	✓
Remote Control	✓
Alerts	✓
<b>NO</b> Free Radicals Generated	✓
Cleans and Decontaminates Air	✓
Cleans and Decontaminates Surfaces <b>and</b> Porous Materials	✓
Decontaminates product from molds, mildew, bacteria and viruses	✓
Digital Records Showing Effective Treatment Levels	✓
USDA approved for organic food processing	✓



## Sensor Monitoring and Reporting

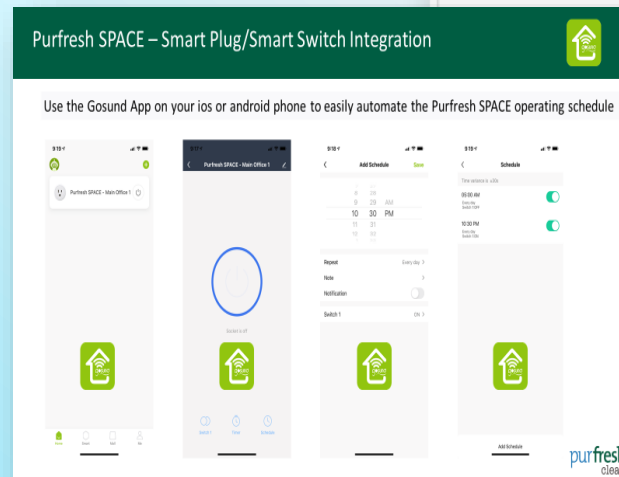
- O<sub>3</sub>
- Temp
- Humidity
- CO<sub>2</sub>

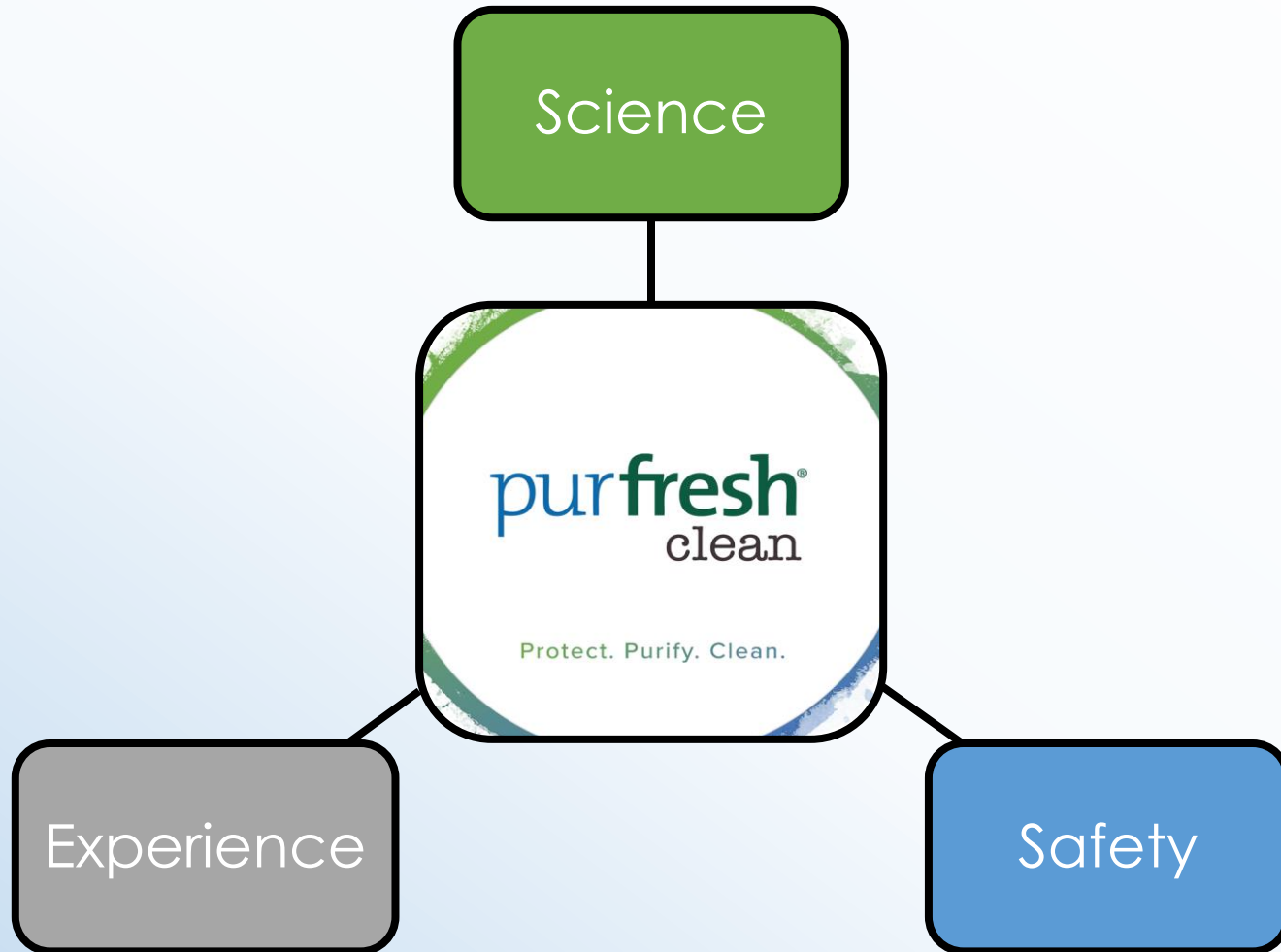
## Corrective and Proactive Control

- In Treatment O<sub>3</sub> level control/correction

## Connection Capability

- Wireless
- GSM
- Wi-Fi







## **Additional Science and Data Reading Material**

### **OZONE STERILIZATION IN THE MEDICAL FIELD**

<https://www.sciencedirect.com/science/article/abs/pii/S0196655304001415>

### **OZONE AS A SUPER TOOL IN THE INDOOR GARDEN**

<https://www.maximumyield.com/ozone-an-indoor-garden-super-tool/2/1165>

### **OZONE AS A REPLACEMENT TO FUNGICIDE ON POWDERY MILDEW**

<https://www.tandfonline.com/doi/abs/10.1080/01919510208901635>

### **GROW ROOM SANITATION PRACTICES USING OZONE**

<https://pipphorticulture.com/grow-room-sanitation/>

### **HYPEROXYGENATED WATER AND IRRIGATION DECONTAMINATION USING OZONE**

<https://journals.ashs.org/hortsci/view/journals/hortsci/44/3/article-p774.xml?rskey=r9qJcY>

### **PLANT ROOT NITROGEN ASORPTION AND OZONATED IRRIGATION BENEFITS TO PLANTS**

<https://www.nature.com/articles/s41438-021-00618-8>

## REGULATORY OVERSIGHT



### FDA AND USDA APPROVED

as an anti-microbial food additive and  
contact surface disinfectant



### FDA APPROVED

the use of ozone for air purification



### EPA APPROVED

as an anti-microbial oxidizer

## SAFETY AND OSHA COMPLIANCE



- ☐ For 100 years ozone has been used in industrial and manufacturing applications worldwide
- ☐ Identifiable gas that has a distinctive clean odor
- ☐ If ozone does not revert back to oxygen, it is destroyed with high consumption destruct equipment
- ☐ No harmful byproducts, no residue
- ☐ Controlled, monitored, and recorded for safe levels
- ☐ Ozone safety levels:
  - ☐ Up to 0.07ppm\* for 8 hours—CARB
  - ☐ Up to 0.1 ppm\* for 8 hours—OSHA
  - ☐ Up to 0.3 ppm\* for 15 minutes—OSHA
- ☐ Rooms are accessible to crew or workers after treatments

# Laboratory Decontamination Results

ANALYTE			Mold	Aerobic Mesophilic Sporeforming Bacteria
METHOD			AOAC OMA 2014.05	CMMEF 5th Ed.
REPORTING UNIT			CFU/g	CFU/g
DETECTION LIMIT			10	10
SAMPLE ID	SAMPLE DESCRIPTION	LOT #/CODE	RESULTS	
1	CONTROL A	21121477	<10	300
2	CONTROL B	21121477	20	800
3	CONTROL C	21121477	<10	700
4	CONTROL D	21121477	60	300
5	TREATED A	21121477	<10	10
6	TREATED B	21121477	<10	<10
7	TREATED C	21121477	<10	10
8	TREATED D	21121477	<10	20

**Terminology:**

CFU = Colony Forming Units      g = gram  
 < Indicates less than the reporting limit as noted  
 ND = Not Detected, negative, absent. Sensitivity is about 1 organism per test portion.  
 BAM = FDA Bacteriological Analytical Manual  
 AOAC OMA = Official Methods of Analysis of the AOAC International, 18th ed.

MPN = Most Probable Number  
 P/A = Presence/Absence      N/A = Not Applicable or not analyzed  
 CP Staph = Coagulase Positive Staphylococci (*Staphylococcus aureus*)  
 CMMEF = Compendium of Methods for the Microbiological Examination of Foods, 4th ed.  
 AOAC RI = AOAC Research Institute Performance Tested.



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