

# **RGF**<sup>®</sup> **BOSIII** *Environmental Group, Inc.*

**Holding Tank / Small Compactor Bacteria, Virus & Odor Abatement System**



**RGF has been an International leader in innovative environmental systems since 1985**

**Best warranty in the industry - two (2) full years parts and labor**

**Fully automatic, easy to use and install**

**No costly and complicated chemicals**

**Leaves no residue / operates unattended**

**BOSIII uses Photohydroionization™, nature's environmentally friendly natural sanitizer**

**Low power consumption, 110 or 220 volt**

**Very low maintenance**

**3 year continuous operation average photohydroionization™ cell life**

**Advanced Oxidation gases actually destroys odor molecules, it is not a cover-up**

**Photohydroionization™ destroys bacteria, viruses, mold, VOCs and odors**

**THE RGF BOSIII PHOTOHYDROIONIZATION™ MODULE WILL DESTROY, NOT JUST COVER-UP, THE FOLLOWING AIRBORNE SUBSTANCES:**

- DECOMPOSING ORGANICS
- SMOKE
- MOLD & MILDEW
- BACTERIA
- ALGAE
- URINE / FECES
- CHEMICAL FUMES

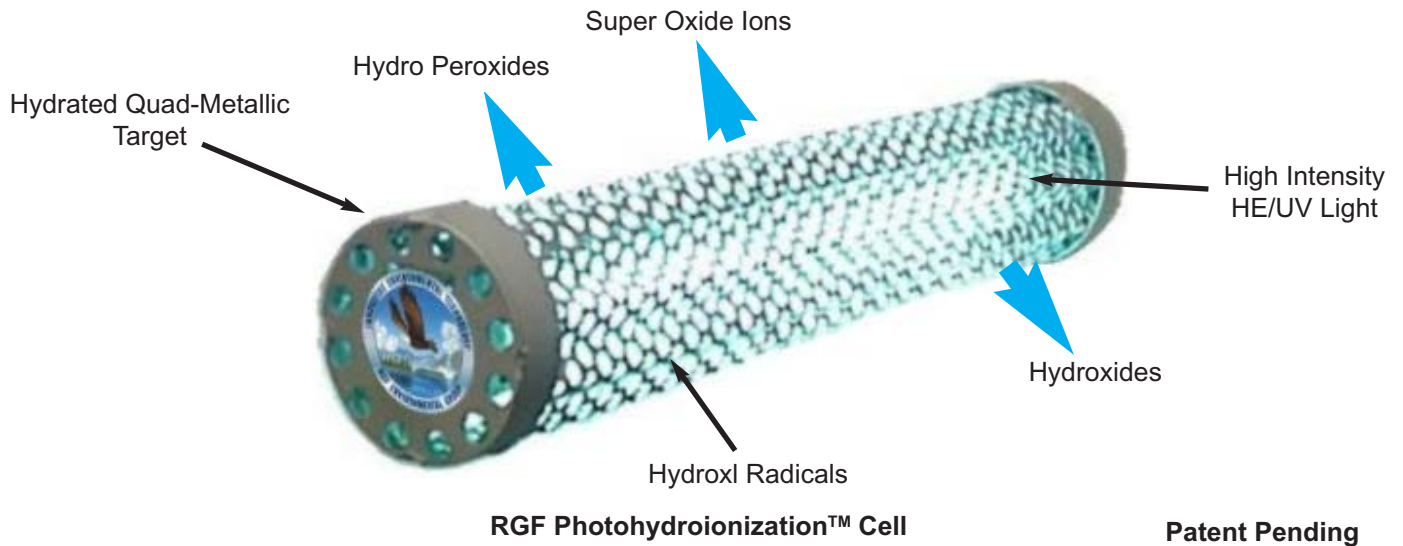
- FUNGUS
- YEAST
- POLLEN
- HYDROCARBONS
- KETONES
- SPORES
- VOC's

**THE RGF BOS SYSTEM OF LOW COST ADVANCED OXIDATION PRODUCTION IS DESIGNED TO PROVIDE COMMERCIAL AIRBORNE BACTERIA AND ODOR DESTRUCTION**

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## The Physics of RGF's Proprietary Photohydroionization™

A high intensity UV light targeted on a hydrated Quad-Metallic target in an ozone atmosphere thereby creating safe low level Hydroperoxides, Super Oxide Ions, Hydroxyl Radicals and Hydroxides. All are very aggressive friendly gaseous oxidizers. By friendly we mean oxidizers that revert back to oxygen and hydrogen after they oxidize the organics, bacteria, odor or gases.



## APPLICATIONS



Compactor / Holding Tank Odor and Airborne Bacteria control

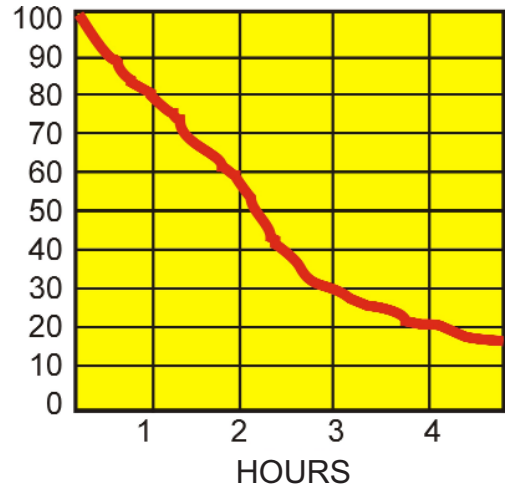
**Lab Results**



Before and after bacteria samples application of BOSIII unit to commercial dumpster compactor

\* Independent Lab data available

Odor reduction



**Outstanding Features**

- No Costly Chemicals
- All stainless steel
- Automatic Unattended Operation
- Safety Service Cut Off Switch
- 2 Year Limited Warranty
- Destroys Odors- Is Not a Cover Up
- Economical to Use
- Low Maintenance - Monthly filter cleaning, PHI Cell replacement 3 years
- Reduces Fly Infestation
- Reduces airborne bacteria
- Reduces liability
- Eliminates odors

**Specifications**

MODEL	BOSIII
VOLTAGE	110V 60 HZ 1 AMPS
WEIGHT	10 LBS.
MATERIAL	STAINLESS STEEL
DIMENSIONS	18" x 4" x 4"
FINISH	BRUSHED STAINLESS STEEL
CONTROLS	INDICATOR LIGHT / ON OFF SWITCH
FAN VOLUME	45 CFM
ADVANCED OXIDATION	1 PHOTOHYDROIONIZATION™ CELLS
PHI CELL LIFE	APPROX. 25,000 HOURS
OXIDATION GASES	HYDRO PEROXIDES, SUPER OXIDE IONS, HYDROXYL RADICALS HYDROXIDES

**The Benefits**

The Advanced Oxidation gas created by the RGF Photohydroionization™ Cell are safe environmentally friendly oxidizers that revert back to oxygen and hydrogen. The RGF - BOSIII utilizes the PHI Cell to create hydroperoxides, super oxide ions and hydroxides. The AOP produced is a safe low concentration, produced by a targeted high intensity UV light technology. This method is far safer and more effective than the traditional AOP generators. Targeted UV generators do not produce nitric oxide gas or nitric acid and they have a very high efficiency rating. The additional oxidizers provides a broader range of applications and redundant oxidation gases.

# The Company



Customer Service Award.

## Innovation

Since 1985 RGF has maintained a steady flow of award winning innovative pollution solutions. RGF has been awarded national recognition as a recipient of the Inc./MCI



environmental law. Our AutoCAD service provides fast, accurate designs.

## Design

Our technical staff consists of the following specialists: biological, mechanical, chemical, waste treatment, construction engineering, nuclear, fabrication, design, and



## Patented Technology

RGF has been a leader in patented Environmental Technology.



## Ozone Technology

RGF has been a leader in ozone technology since 1985. We developed an advanced catalytic oxidation system that combines UV light with ozone to create a hydroxyl radical for total organic oxidation. Our Photoionization process has been approved by the USDA / FDA / FSIS for food processing.



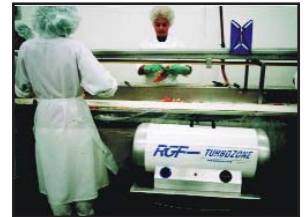
## Benefits

By utilizing the latest state of the art sanitation technology, RGF provides a media recognition event for positive press. By taking a proactive approach you may be eligible for insurance rate reductions and you will be adding value by providing a safer product.



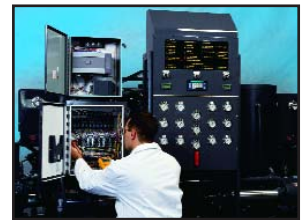
## R & D

RGF maintains a Research and Development staff that is involved in EPA / USDA / FDA / EPRI and University Environmental Studies. Our staff continuously develops system improvements and new products. RGF personnel have been published in over 60 national journals and textbooks.



## Custom Applications & Components

RGF's award winning engineering team custom designs systems for wastewater recycling, ozone, pesticides, marine, and laundry treatment.



## Lab

RGF maintains a state-of-the-art analytical lab, which will provide free water testing for as long as you own your RGF system to assure continued performance. This assures our customers that, should your waste stream change, you will be able to make the appropriate modifications to meet your needs.



**RGF Environmental Group, Inc.**

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