

## Validation

RGF first developed its Advanced Oxidation Technology over 20 years ago. Over 1 million RGF Cells are in use around the world. RGF has licensed its technology to many Fortune 500 companies for use in the medical, food, military, residential, commercial, marine, hospitality and government, etc. RGF cells in various products have been tested and approved by:

- UL, ETL, TUV, EU & CSA
- U.S. Military
- Chinese Government
- Japanese Government (TV commercials)
- Canadian Government
- U.S. Government – GSA
- European Union

In addition, RGF technology, because of its ability to kill bacteria and virus on surfaces and in the air, have been specified in the Norovirus/MRSA protection plan of America's largest restaurant chains, hotel chains, theme parks, cruise lines, public schools and hospitals.

## Test Results

### Samples of university, independent lab tests and major corporation studies

- ISO-Level 3 particulate reduction in a bio-chamber (better than HEPA Filtration)
- 4-log reduction (99.99%) surface bacteria/virus reduction
- Over 80% VOC reduction
- 88% of microbes in human sneeze killed at 3 feet
- 97% airborne bacterial reduction
- 99% reductions of Ecoli, Listeria, Strep and Bird Flu
- 85% odor reduction
- 97% airborne mold reduction
- US Military approved for mold protection in field hospitals
- Hospital approvals Infectious Diseases - U.S. and International 99% reduction of Staph (MRSA)
- 99% food surface microbial reduction
- Major US city school reports 20% reduction in absenteeism
- Tested and approved by the Chinese Government for protection against the SARS virus
- Approved by the USDA, FSIS and FDA for use in food processing plants
- Fox News three-part indoor air series featured RGF and concluded substantial mold and bacteria reductions
- RGF's technology has been featured on Fox, ABC, CBS and in Popular Science Magazine

## Safety

It is a normal reaction to question the long term safety of any product that is effective and uses new or "breakthrough" technology. This type of question has become common as our litigious society has taught us to question things that significantly outperform existing methods or products.

The breakthrough in the RGF *advanced oxidation technologies* is a group of oxidants known as Hydroperoxides. Hydroperoxides have been a common part of our environment for over 3.5 billion years. Hydroperoxides are created in our atmosphere whenever three components are present: oxygen molecules, water vapor and energy (electro magnetic). REME+™ also has the ability to super charge these hydroperoxides or ionize them into Ionized-Hydro-Peroxides™.

Ionized-Hydro-Peroxides™ are very effective at destroying harmful microbials in the air and on surfaces. As oxidants, they do this by either destroying the microbe through a process known as cell lysing or by changing its molecular structure and rendering it harmless (which is the case in VOC's and odors). The amount of hydroperoxides required to accomplish this task in a conditioned space is well below the level that is constantly in our outside air. The Advanced Oxidation Technology found in RGF's Guardian Air product family has brought the oxidants found in the outside air into the conditioned space of your home.

There is no known case of hydroperoxides ever creating a health risk. Considering we have been exposed to hydroperoxides in nature since the day man stepped on the planet, it is a reasonable assumption that hydroperoxides do not constitute a health risk. Over the past 20 plus years RGF has more than 1 million Advanced Oxidation products successfully used worldwide without a safety problem.

## About RGF Marine Environmental Technologies



### Innovation

Since 1985 RGF has maintained a steady flow of award winning innovative enviro-friendly solutions. RGF's 110' Envision motor yacht is a floating R&D laboratory.



### Design and R&D

Our technical staff consists of engineers and scientists from the following specialties: biological, mechanical, chemical, waste treatment, construction engineering, nuclear, fabrication, design, and environmental law.



### Patented Technology

RGF has been a leader in patented Environmental Purification Technology. RGF technology has been licensed to numerous Fortune 500 companies and is in use in 33 countries.



### Advanced Oxidation

RGF has been a leader in Advanced Oxidation technology since 1985. We developed an advanced catalytic oxidation system for total organic oxidation. Our Advanced Oxidation

Technology has been approved by the USDA / FDA / FSIS for food processing and major corporations for Norwalk/MRSA protection.

RGF manufactures over 500 environmental products



**RGF Environmental Marine Technologies, Inc.**

[www.rgf.com](http://www.rgf.com)

A Member of AEE • Certified IAQ Specialist on staff

An RGF Commercial Marine Grade Ionized  
Advanced Oxidation Technology

# REME™

Reflective Electro-Magnetic Energy

# Mariner

Completely Silent  
Operation

Mold, Norwalk Virus,  
Bird Flu, Strep, MRSA  
99% Kill on surfaces



A Low Energy  
Non-chemical  
Enviro-friendly  
Green  
Product

RGF Proprietary  
Sneeze Test 88% Kill

## The main advantage...

REME does not need the pollutants to travel to the air handler for UV treatment or filtration. REME is proactive and sends ionized aggressive advanced oxidizers into the room to destroy the pollutants at the source, in the air and on surfaces, before they can reach your family, clients or employees.



Made In America

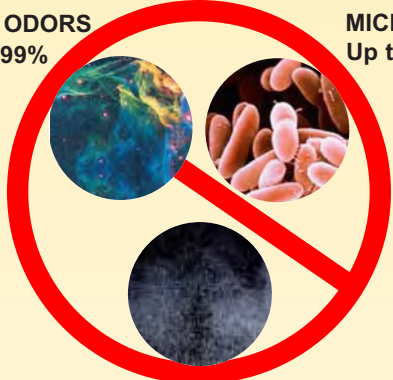




# REME+™ is your total answer to Indoor Air and Surface Pollution

**GASES & ODORS**  
Up to 99%

**MICROBIALS**  
Up to 99.99%



**PARTICULATE**

RGF's Aggressive Advanced Oxidizers travel throughout the room attacking pollutants

**Advanced Oxidation Plasma .01ppm:**

- Ionized-Hydro-Peroxides
- Super Oxide Ion distribution
- Ionized Hydroxide distribution

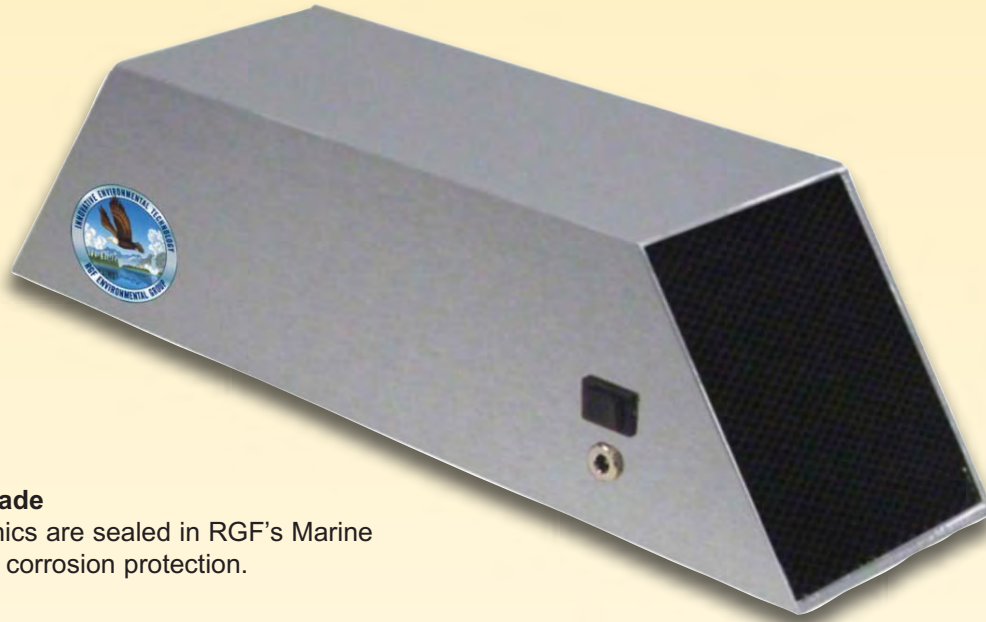
**Warranty on parts 30,000 hrs\* (3.5 Year) (USA only) \*Continuous Operation**



**SPECIFICATIONS**

<b>Dimensions:</b>	4" w x 4" d x 14" h
<b>Electrical:</b>	120-240V Switching Power Supply
<b>Controls:</b>	On / Off
<b>Weight:</b>	2 lbs.
<b>Material:</b>	Aluminum/ Polymers
<b>Advanced Oxidation:</b>	Less than .02 ppm
<b>REME Cell:</b>	(1)

# REME™ Mariner



**Marine Grade**

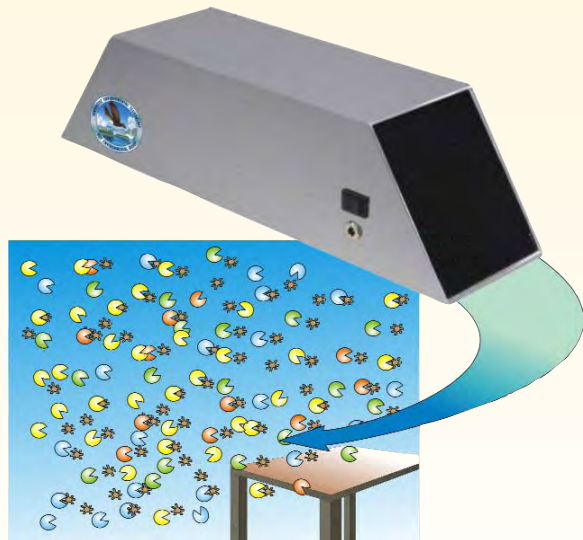
All electronics are sealed in RGF's Marine sealant for corrosion protection.

**Charged Advanced Oxidation Plasma**

**Ionized-Hydro-peroxides™**

**Super Oxide Ions**

**Ionized-Hydroxides**



Aggressive Advanced Ionized Oxidation Plasma destroys airborne and surface pollutants at the source.

**SPPM™**

**Silent Plasma Propulsion Module**

A high efficiency high volume plasma blower that is completely silent. A proprietary RGF technology producing no noise yet a steady stream of plasma.

**REME™**

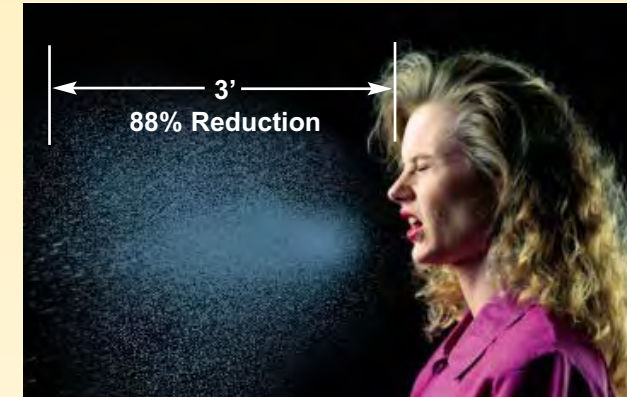
**Reflective Electro-Magnetic Energy**

With a REME™ Advanced Oxidation System, micro-organisms can be reduced by over 99%. Gases, VOCs, odors and particulate (dust) can also be reduced significantly. Charged Advanced Oxidation Plasma will be carried throughout the rooms for a continuous purification process and a quick kill of newly introduced odors or microbials.

**Odor Control**

- Bilge Odors Eliminated
- Sewage Odors Eliminated
- Food Odors Eliminated

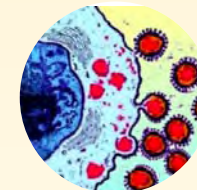
REME+™ sends Ionized Advanced Oxidants throughout the room to kill microbials at the source.  
Average sneeze microbial reduction: 88%  
**The Sneeze Test**



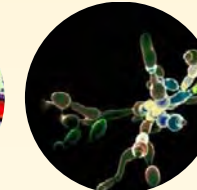
Simulated Sneeze Lab Test at three feet in a 250 cu ft Bio Test Chamber. An independent double blind study.

Note: The RGF AOT Cell is not a medical device and no medical claims are made.

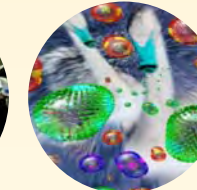
**Microbial Reductions**  
Typical virus and bacteria killed



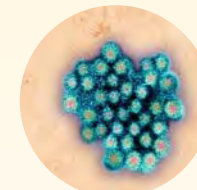
SARS



Candida



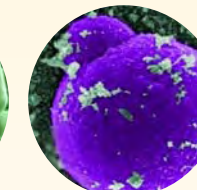
Bird Flu



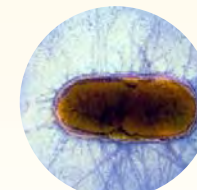
Norwalk



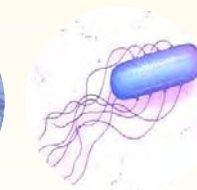
Listeria



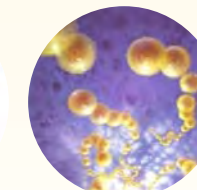
MRSA



E.coli



Bacillus sp



Strep

Independently tested on surfaces and/or airborne