

## 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 (electromagnetic). PHI™ has the ability to create hydroperoxides.

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 25 plus years, RGF has more than two million Advanced Oxidation products successfully used worldwide without a safety problem.

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## About RGF Environmental



**Innovation**  
Since 1985 RGF has maintained a steady flow of award winning innovative environmental solutions. RGF has been awarded national recognition as a recipient of the Inc./MCI Customer Service Award.



**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.

RGF manufactures over 500 environmental products



RGF Proudly Supports



# REME·HALO®

An RGF Air Purification System

## The Most Trusted Name In IAQ



### Is Your Home Protected

The main advantage...

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

# RGF®

ENVIRONMENTAL GROUP INC.

ISO 9001:2015 CERTIFIED COMPANY

www.rgf.com



throughout the room to kill microbials at the source.  
Average sneeze microbial reduction: 99%  
The Sneeze Test



Kansas State University Study

- **QUICK RELEASE FEATURE**  
NO TOOLS REQUIRED FOR SERVICING
- **KILLS BACTERIA, MOLD AND VIRUSES**
- **REDUCES ODORS, PARTICULATE, SMOKE AND VOCs**
- **RECOMMENDED BY**  
MAJOR HOTEL AND RESTAURANT CHAINS, CRUISE LINES FOR NORWALK VIRUS PROTECTION AND MILITARY FOR MOLD REDUCTION
- **KILLS 99% OF SNEEZE GERMS WITHIN 3 FEET**
- **ZINC IONS KILLS 99% OF VIRUSES ON SURFACES**



US

**5 YEAR LIMITED WARRANTY**

Green Product Average Uses Only 13 Wipes



AN/CSA G22.2 No. 250-0-2018  
N/CSA G22.2 No. 60335-1:2016  
UL 1598:2018 4th Edition  
EN 60335-1:2012/A13:2017  
EN 60335-2-56:2003/A1:2015

## Validation

RGF first developed its Advanced Oxidation Technology over 25 years ago. Over two 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:

- Chinese Government
- Japanese Government (TV commercials)
- Canadian Government
- European Union

In addition, RGF technology, because of its ability to kill bacteria and virus on surfaces and in the air, has 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**

- **Now tested on H1N1 Swine Flu with 99+% Kill on surfaces**
- 4-log reduction (99.999%) surface bacteria/virus reduction
- Over 85% VOC reduction
- 99% of microbes in human sneeze killed at 3 feet
- 97% airborne bacterial reduction
- 99% reductions of Ecoli, Listeria, Strep, Tuberculosis, Bird Flu, etc.
- 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)
- Major US city school reports 20% reduction in absenteeism

• Tested and approved by the Chinese Government for protection against the SARS virus

- 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



# REME·HALO®



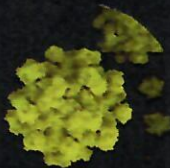
PHI + PCO + Bi-polar + UV + Hydrophilic + Cold Plasma



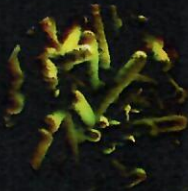
Mold



Tuberculosis\*



Norwalk\*



Listeria\*



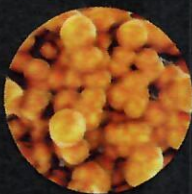
Particulate



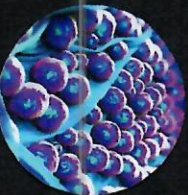
Legionella



Bird Flu\*



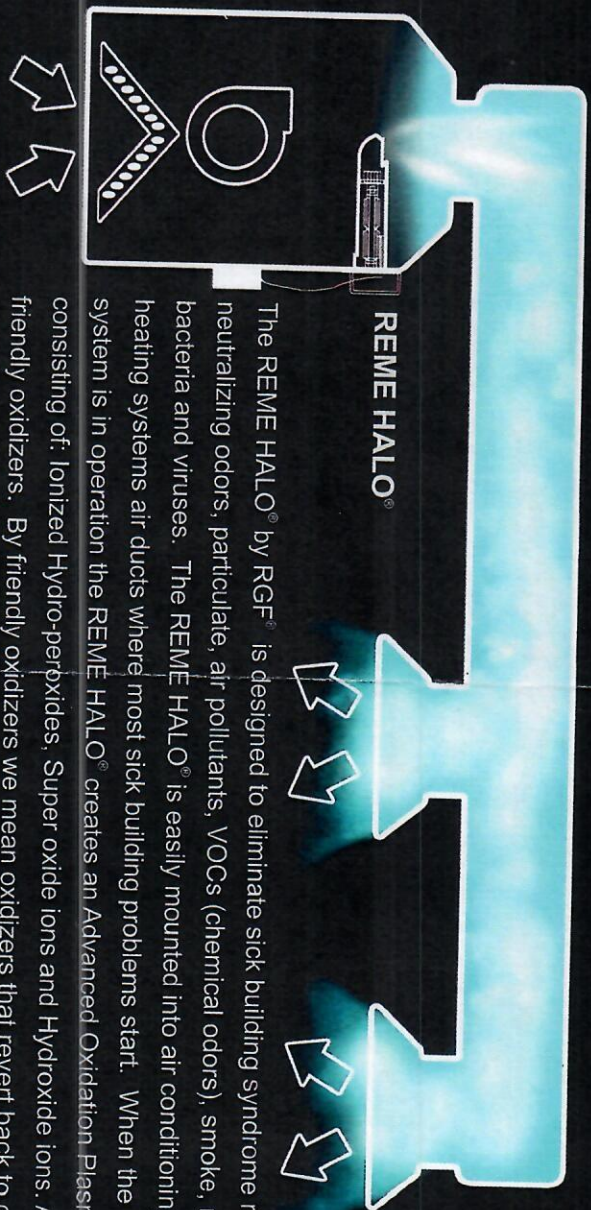
Strep\*



MRSA\*



Gases & Odors



REME HALO®

The REME HALO® by RGF® is designed to eliminate sick building syndrome risks by neutralizing odors, particulate, air pollutants, VOCs (chemical odors), smoke, mold bacteria and viruses. The REME HALO® is easily mounted into air conditioning and heating systems air ducts where most sick building problems start. When the HVAC system is in operation the REME HALO® creates an Advanced Oxidation Plasma consisting of: Ionized Hydro-peroxides. Super oxide ions and Hydroxide ions. All are friendly oxidizers. By friendly oxidizers we mean oxidizers that revert back to oxygen and hydrogen after the oxidation of the pollutant.

Patent-pending

Independently tested on surfaces and airborne 99+%. Kill rate  
Note: The REME Cell is not a medical device and  
no medical claims are made