RGF®

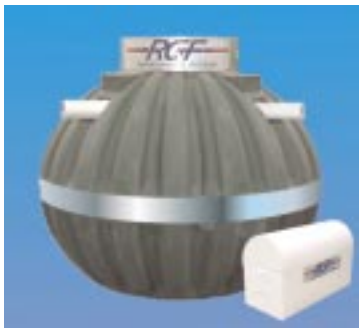
ENVIRONMENTAL

Advanced Grease and Odor Treatment System

BIO OX LIFT STATION

BIO OX MOD

BIO OX 300



BIO OX 1000

•F.O.G. (Fats, Oil & Grease) are broken down physically, biologically and chemically to simply drain away

•Odor and Airborne Bacteria Destruction with Advanced Oxidation

•Low Maintenance

•Automatic Operation

•Compact - small footprint

•Self-contained

•Five Chambers of polar F.O.G. separation

•The RGF Bio-Ox uses ten proven technologies:

- •Photohydroionization™
- •DAF(Dissolved Air Flotation)
- •Fluidized multi-media
- •Hydro Peroxides
- •Aeration
- •Ozone
- •Oxygen
- •Bacteria
- •Oxidation
- •Five chamber separator

The Problem:

F.O.G.'s-polar (Fats, Oils & Grease) from restaurants, hotels and food processors are blocking our sewer mains, creating odors, airborne bacteria, and overloading septic systems and sewer treatment plants, resulting in sewage overflow, health hazards, legal liability issues and expensive pump outs and pipe cleaning.

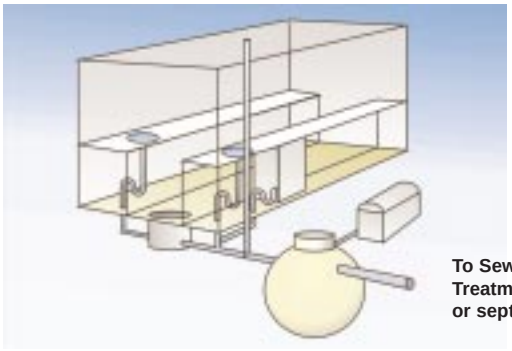
The Solution:

RGF's Bio-Ox Grease Treatment System utilizes ten proven technologies to rapidly break down F.O.G.'s to carbon dioxide, water and small chain food sources for traditional sewage treatment. The combination of ten technologies in a compact five chamber separator assures a rapid and thorough break-down of FOGs and odors. The Bio-Ox ensures elimination of FOGs, odors and airborne bacteria problems by three redundant processes. First they are broken down physically and chemically by heavy aeration utilizing Advanced Oxidation. Second, FOGs are digested biologically by oxygen enriched bacteria, and third, residual FOGs are periodically purged with an RGF dry chemical oxidation tablet.

Patents Pending

Bio Ox 300 & 500

A self-contained five-chamber separator with four multi-media fluidized bed reactors and one clarifier chamber, an automatic bacteria feed system, a continuous duty advanced oxidation gas aeration and odor control system, and an oxidation purge system. This in ground poly system is ideal for restaurants.

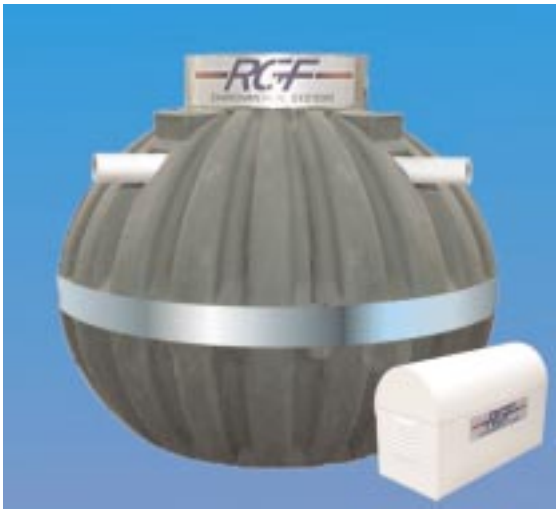


To Sewer Treatment Plant or septic system

300 gallon Bio Ox Reactor In ground

SPECIFICATIONS

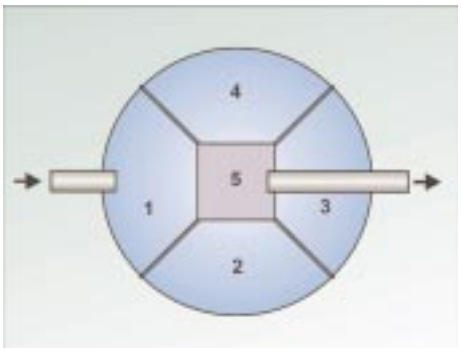
Rating	3 gpm
Fresh water supply	1/4” 0.16 gpm
Fresh water treatment	carbon
Electrical	120 v 10 amps
(optional)	240 v 5 amps
Advanced Oxidation	Photohydroionization™
Media Bed	Multi Poly
Bacterial Feed	Slow Release Bio Tablets
Oxidation Purge	RGF Oxy Tablets
Odor Control	RGF Turbozone
Inlet / Outlet	4”
Dimensions Reactor	52” x 60”
Controls	18” x 24” x 40”
Material	Polyethylene PVC



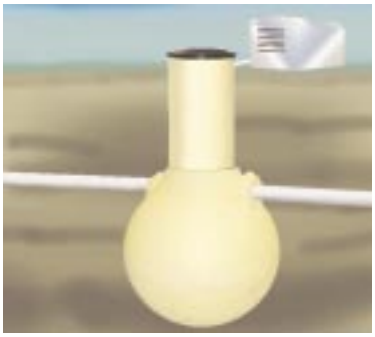
1000 gallon Bio Ox Reactor In ground

SPECIFICATIONS

Rating	8 gpm
Fresh water supply	1/4” 0.16 gpm
Fresh water treatment	carbon
Electrical	120 v 10 amps
(optional)	240 v 5 amps
Advanced Oxidation	Photohydroionization™
Media Bed	Multi Poly
Bacterial Feed	Slow Release Bio Tablets
Oxidation Purge	RGF Oxy Tablets
Odor Control	RGF Turbozone
Inlet / Outlet	4”
Dimensions Reactor	76” x 92”
Controls	18” x 24” x 40”
Material	Polyethylene PVC



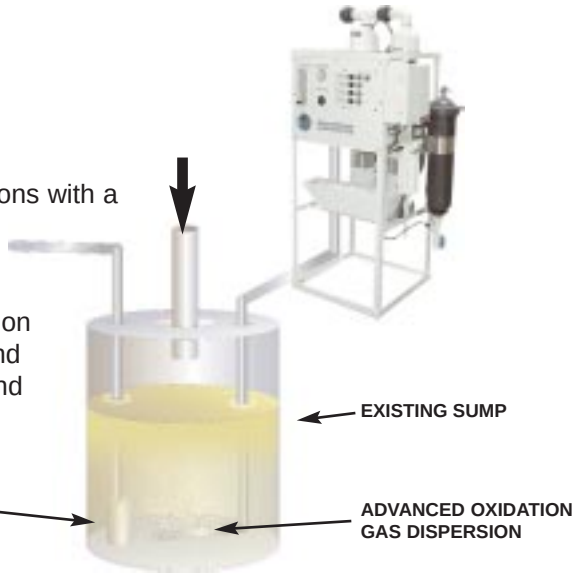
5 chambers of FOG separation
Chambers 1-4 are Fluidized Bed Reactors
Chamber 5 Clarifier



Optional Deep installation extension clean-out

Lift Station Bio Ox

A compact unit designed to easily fit into the smallest of lift stations with a 24" x 24" footprint. This unit pumps advanced oxidation gases and automatically feeds bacteria into the existing lift station water. A separate photohydroionization™ cell provides ongoing odor and airborne bacteria control in the room. Lift station grease is physically, chemically and biologically broken down and freely washes away as liquid and gas. Lift station room odors and airborne bacteria are controlled.



SPECIFICATIONS

Rating	750 gallon lift station
Fresh water supply	1/4" 0.16 gpm
Fresh water treatment	carbon
Electrical	120 v 20 amps
(optional)	240 v 10 amps
Advanced Oxidation	Photohydroionization™
Bacterial Feed	Slow Release Bio Tablets
Oxidation Purge	RGF Oxy Tablets
Odor Control	RGF Turbozone
Inlet / Outlet	4"
Dimensions Reactor	each 24" x 24" x 70"
Material	Aluminum & PVC
Gas Dispersion	2" PVC

Bio Ox Mod

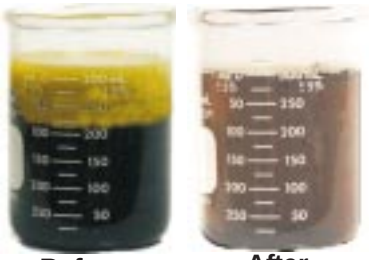
A three-part modular system designed to fit through a standard 32" door opening and can be handled with a standard hand dolly for easy delivery into existing basements. The unit has three fluidized bed reactors and one clarifier chamber, automatic bacteria feed system, a continuous duty advanced oxidation gas aeration and odor control system, and an oxidation purge system. Also, a separate photohydroionization cell for lift-station airborne bacteria and odor control. This system is ideal for hotel basement lift station / grease trap replacement or enhancement. It provides an advanced grease digestive system and advanced oxidation gases for the lift station for odor, bacteria and FOG control.

SPECIFICATIONS

Rating	5 gpm
Fresh water supply	1/4" 0.16 gpm
Fresh water treatment	carbon
Electrical	120 v 20 amps
(optional)	240 v 10 amps
Advanced Oxidation	Photohydroionization™
Media Bed	Multi Poly
Bacterial Feed	slow release Bio Tablets
Oxidation Purge	RGF Oxy Tablets
Odor Control	RGF Turbozone
Inlet / Outlet	4"
Dimensions Reactor	each 32" x 32" x 36"
Controls	18" x 24" x 40"
Material	Polyethylene PVC

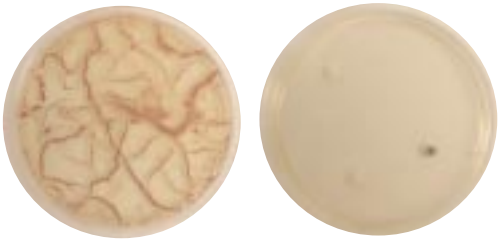
The Results

Waste Water FOG Reduction



Before After

Airborne Bacteria Reduction



Before After

Odor Reduction
(Hydrogen Sulfide)

The Company

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 Customer Service Award.

Design
Our technical staff consists of the following specialists: biological, mechanical, chemical, waste treatment, construction engineering, nuclear, fabrication, design, and environmental law. Our AutoCAD service provides fast, accurate designs.

Patented Technology
RGF has been a leader in patented Environmental Technology.

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

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.

OzoneTechnology
RGF has been a leader in ozone technology since 1985. We developed an advanced catalytic oxidation system that combines targeted high intensity UV light with ozone to create a hydroxyl radical, oxide ions and hydro peroxides for total organic oxidation. Our Photohydroionization™ process has been approved by the USDA / FDA / FSIS for food processing.

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®
Advanced Oxidation Systems

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