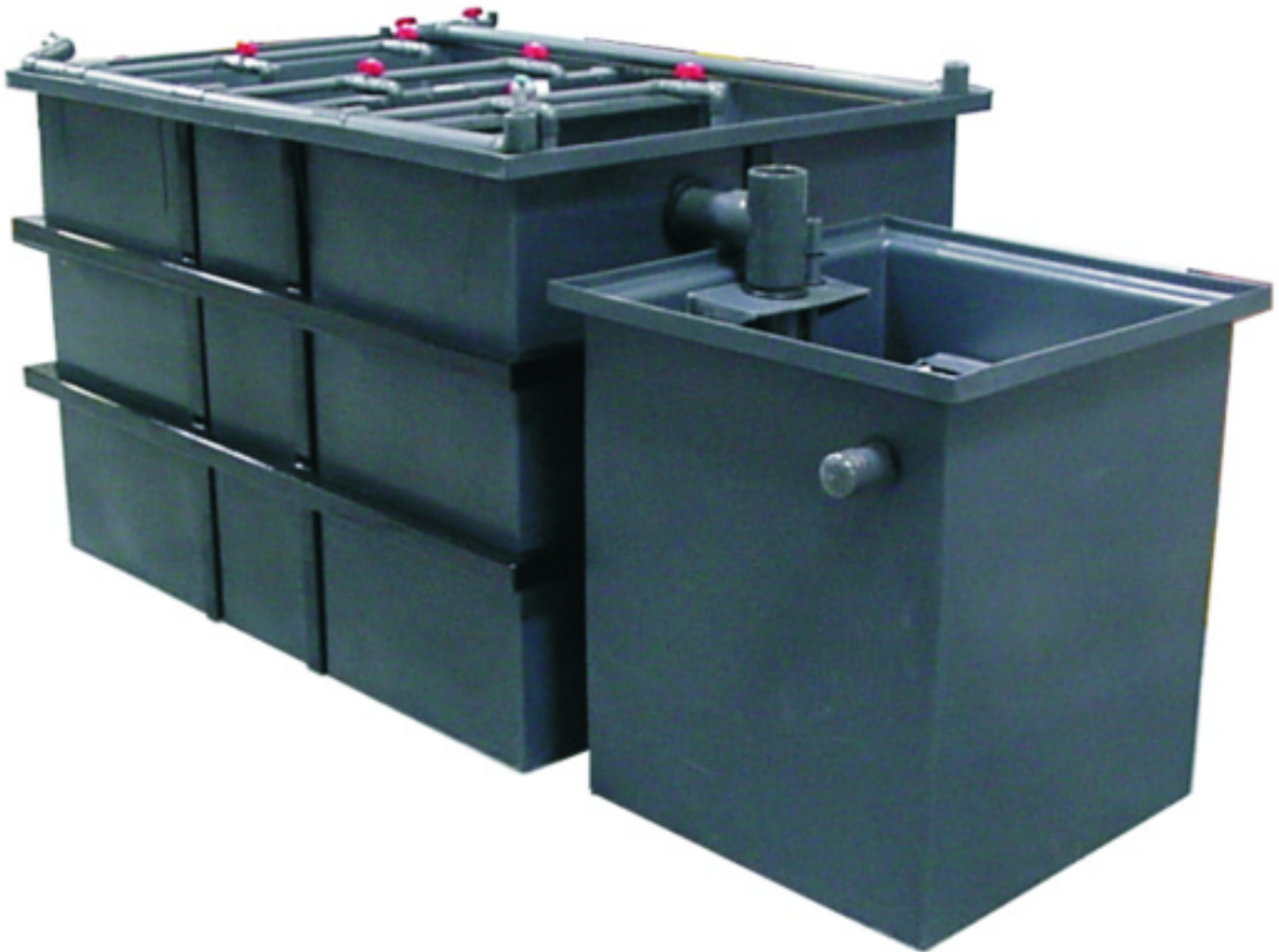


RGF[®] **ENVIRONMENTAL GROUP** **MODEL BIOSORB**

Modular Biosorb Advanced Wastewater Treatment System



—ADVANTAGES—

- RGF is the Recognized Leader with thousand of systems installed world wide since 1985.
- RGF has the best warranty in the business.
- RGF Customer Service is second to none which was proven by winning the 1994 INC. Magazine Positive Performer Award for Outstanding Customer Service.
- Numerous Engineered Wash Pad Designs to choose from.
- Easy to use - versatile - modular components are easy to assemble or break down or expand.
- Annual maintenance contract available.
- Totally Non-ferrous -no rust or corrosion.
- UV Protected to meet National Plumbing Code for outdoor use.
- Impact resistant polyethylene construction.
- Components are color impregnated & UV protected to eliminate maintenance painting.
- No replaceable components
- Designed to International Codes for Design and Installation of Small Sewage Treatment Works.
- Minimal moving parts - low maintenance
- Post treatment systems available for disinfection and reuse.
- Pre-treatment systems available for heavy oils and fats.
- State of the art Submerged Aerated Filter. Light weight - portable
- High surface area Biofilter Media for intensive biological growth and stability.
- RGF is a Total Service Company from planning to operation. Environmental Systems are our only business.

—APPLICATIONS—

The **BIOSORB** family of plants were designed for the treatment of sewage and biodegradable industrial wastewater such as...

- Housing Developments
- Hotels / Motels
- Golf Clubs
- Work Camps
- Camp Grounds
- Resorts
- Bars / Restaurants
- Schools
- Airports
- Marinas
- Food Production
- Mining materials companies

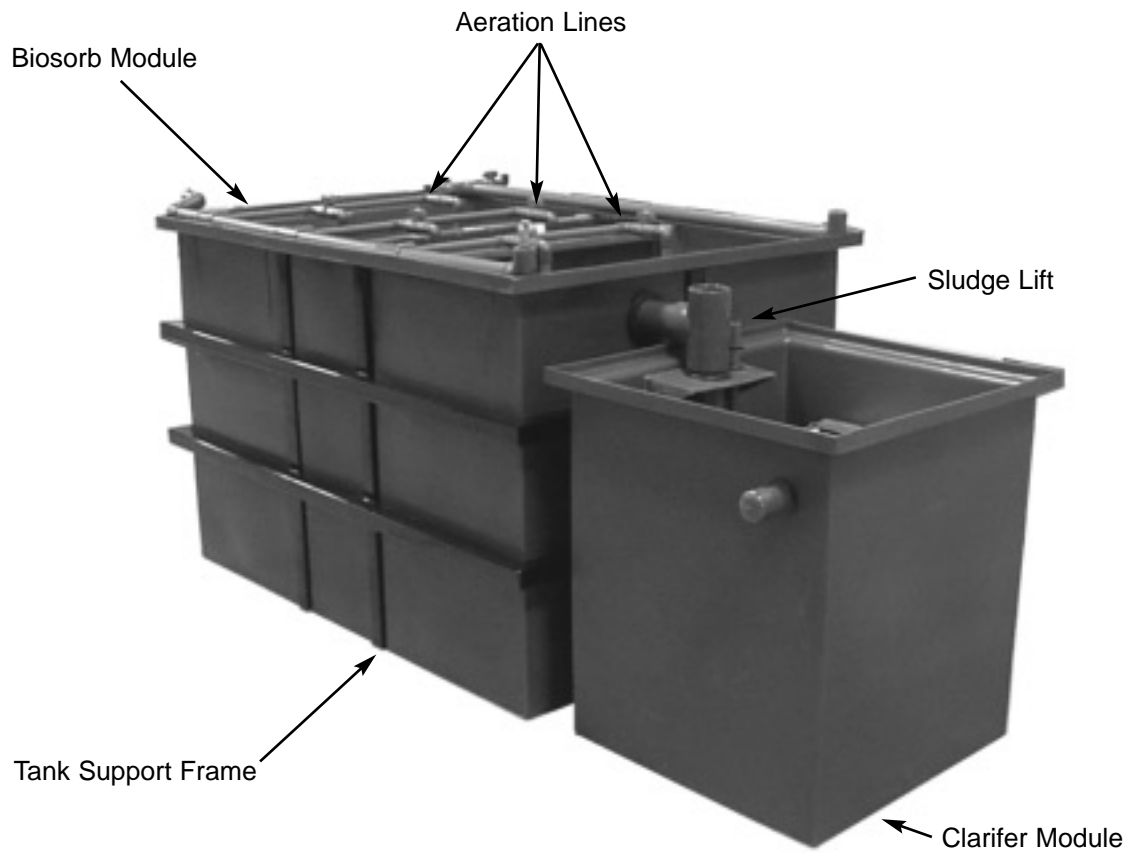
—OPERATION—

The BIOSORB System treats contaminated water, which typically contains domestic sewage, food residuals, fats / oils, grease, detergents and fertilizers. The collected water is processed through the system and contaminants are removed prior to discharge or reuse.

The **BIOSORB SYSTEM**[®] consists of the following technologies and processes ...

- 1 - **SOLIDS SEPARATION** (Settles large solids)
- 2 - **DIFFUSED AIR AERATION** (Provides mixing and oxygen for biological purification)
- 3 - **FILTER HI-RATE BIO MEDIA** (Provides large surface area for microbial growth)
- 4 - **HIGH EFFICIENCY CLARIFIER** (Settles and collects solids, decants water)
- 5 - **POSITIVE SLUDGE RECYCLE** (Returns Bio Sludge for further biodegradation activity)
- 6 - **OPTIONAL GREASE TRAP** (Separates and removes cooking fats and oils)
- 7 - **OPTIONAL LIFT STATION** (Transfer of wastewater to Biosorb System inlet)
- 8 - **OPTIONAL TABLET CHLORINATOR** (Disinfection of treated water)
- 9 - **OPTIONAL CATALYTIC OXIDATION SYSTEM** (Disinfection of treated water using Advanced Oxidation)
- 10 - **OPTIONAL IRRIGATION SYSTEM** (Storage and pumping of irrigation water)

MODEL BIOSORB



SPECIFICATIONS

- **Flow Rate:** 1,000 gpd
- **Dimensions:** 52"W x 120"L x 46"H
- **Electrical:** 220 VAC, 60 Hz, 8.5A, 1 Phase
- **Operating Temperature:** 33 - 100°F
- **pH Range:** 6.5 - 9.5
- **BOD Reduction:** 90% (for 500 mg/l or less)
- **Biosorb Media:** 40 ft³ Polypropylene Media
- **Air Feed Blower:** 1 1/2 hp regenerative rotary vane blower
- **Materials:** polypropylene biomedica, polyethylene tank, PVC piping, epoxy coated steel frame
- **Options:** poly vinyl cover

BIOSORB ACCESSORIES

RGF Screen / Lift Module

A durable, lightweight polyethylene vessel with large solids prescreen and macerator pump. This module serves as a convenient central collection sump station

- *Flow Rate:* 10 gpm
- *Dimensions:* 35"W x 35"L x 38"H
- *Electrical:* Macerator Pump - 220 VAC, 60 Hz, 1 phase 2 hp
- *Operating Temperature:* 33 - 100°F
- *pH Range:* 6.5 - 9.5
- *Materials:* polyethylene tank, polypropylene screen
- *Options:* poly vinyl or steel cover



RGF Grease Trap Module

Designed to handle up to 20 gallons per minute, the Grease Trap Module is intended to collect heavy oils, grease and fats prior to entry into the Biosorb or lift station modules.

- *Flow Rate:* 20 gpm maximum
- *Dimensions:* 36"W x 48"L x 48"H
- *Operating Temperature:* 33 - 100°F
- *pH Range:* 6.5 - 9.5
- *Materials:* polyethylene tank, polypropylene screen, PVC Piping
- *Options:* poly vinyl or steel cover
enzymatic grease digestion system



RGF Clarifying Modules

RGF Clarifying AP Module



The Clarifying Modules are designed to settle out the biomass from the treatment process, collect and reactivate it back into the Biosorb Modules. Clarifier Module AP is designed for up to 2,000 g.p.d and Clarifier Module B is design for up to 7,500 g.p.d.

- *Flow Rate:* Clarifier AP - 2,000 gpd
Clarifier B - 7,500 gpd
- *Dimensions:* Clarifier AP - 35"W x 35"L x 44"H
Clarifier B - 72"W x 52"L x 46"H
- *Materials:* polyethylene tank, polypro incline plates, PVC piping, epoxy coated steel frame (s.s. optional)
- *Options:* poly vinyl or steel cover

RGF Clarifying B Module



RGF Chlorine Disinfection Module



The Disinfection Modules are designed to disinfect the treated water to meet discharge standards or prepare it for reuse. The Chlorine Module is a time proven tablet style chlorine system and the Catalytic Oxidation Module is an advanced oxidation ozone and ultraviolet light disinfection system for complete disinfection.

- *Flow Rate:* Chlorine Module - 2,000 gpd
Catalytic Module - 6,000 gpd
- *Dimensions:* Chlorine - 35"W x 35"L x 44"H
Catalytic - 76"W x 69"L x 72"H
- *Materials:* polyethylene tank, PVC piping, epoxy coated steel frame (s.s. optional)
- *Options:* poly vinyl cover

RGF Disinfection Modules

RGF Catalytic Oxidation Disinfection Module



RGF ENVIRONMENTAL GROUP