

# RGF<sup>®</sup> ENVIRONMENTAL GROUP

MODEL WM1

*RGF's Advanced Water Recycling System For Heavy Duty Waste Management Operations*



## —ADVANTAGES—

- RGF is the Recognized Leader with thousands 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.
- Zero Discharge Closed Loop System encouraged by the E.P.A.
- No sewer connection required. No NPDES Permits needed.
- Totally Non-ferrous -no rust or corrosion.
- Our unique Catalytic Oxidation Process eliminates the use of chlorine or floccing chemicals.
- UV Protected to meet National Plumbing Code for outdoor use.
- Components are color impregnated & UV protected to eliminate maintenance painting.
- Free Water Analysis for the life of your system.
- Pre-Wired, Fully Automatic, Easy to Use and Versatile.
- Control Panel Indicator Lights. Over Flow Protection.
- Low Maintenance.
- Built in Water Management and Wash / Rinse Capabilities.
- Meets National Electric Code for indoor maintenance facilities.
- All filters and separators contain an oil & solids purge system to extend filter life and reduce maintenance.
- RGF is a Total Service Company from planning to operation. Environmental Systems are our only business.

## —APPLICATIONS—

The **WM1 Model** of the **ULTRASORB** Family was designed for **Heavy Duty Waste Management Operations** such as...

- |                       |               |                        |             |
|-----------------------|---------------|------------------------|-------------|
| • Military bases      | • Agriculture | • Housing Developments | • Fisheries |
| • Solid waste haulers | • Livestock   | • Industries           | • Resorts   |

## —OPERATION—

The model WM<sup>1</sup> is specifically designed for the waste management industry. This system has been engineered for the high biological aspects associated with waste management waste streams. The model WM<sup>1</sup> is equipped with an auto backflush system for the media and polishing filters to reduce maintenance. The system is also equipped with the advanced CO<sup>3</sup>P Catalytic Oxidation System for organics. The CCC-400 Cone Tank helps in the removal of heavy solids and oils, while the Biosorb Series I Aerobic Digester reduces high B.O.D. loading and helps in water clarity.

# MODEL WM1

CCC-400

MANWAY

STORAGE TANK

HYDROCARBON ACCUMULATOR

TANK LEVEL SIGHT TUBE



BIOSORB

POLISHING FILTERS

UV O3 CHAMBER

CFC SYSTEM PUMP

HCA 3 ACCUMULATOR

CONTROL PANEL



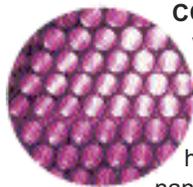
SERIES 2 SKID

TO PRESSURE WASHER

## SPECIFICATIONS

DIMENSIONS: CCC-400	48"W X 48"L X 144"H	STORAGE TANK	500 GAL. POLY TANK
BIOSORB	48"W X 48"L X 96"H	HYDROCARBON ACCUMULATOR	7 GAL. POLY TANK
STORAGE TANK	48"W X 48"L X 84"H	MICRO-MATRIX COALSECOR	POLY INCLINED GRID FILTER
EQUIPMENT SKID	48"W X 48"L X 84"H	MULTI-MEDIA FILTER	235 LBS. MIXED MEDIA
FLOW RATE	25 GPM	AUTO OIL SKIMMER	PVC ADJUSTABLE
ELECTRICAL REQUIREMENTS	220V -30 AMP -1 PHASE	HYDROCARBON ABSORBER	POLY HOUSING & HCA3 FILTER
WEIGHT (APPROX.)	1,966 lbs.	POLISHING FILTER	POLY-PRO HOUSING & 25 M FILTER
CFC SYSTEM PUMP	1/2 hp CIRCULATION	XL UV CATALYTIC CHAMBER	KRYPTON / QUARTZ
PROCESSING PUMP	1 1/2 hp CENTRIFUGAL	XL TURBOHYDROZONE	60 PPM CONT. OZONE DISCHARGE
CHEMICAL INJECTION (OPTIONAL)	PERISTALTIC	FILTER BACKFLUSH	AUTOMATIC TIMED
VALVES	PVC BALL & ELECTRIC SOLENOID		
TUBING	UV PROTECTED PVC & POLY		

## OUTSTANDING FEATURES



**CO3P -Catalytic Oxidation Process** -The most advanced oxidation technology available. This low maintenance system is ideal for elimination of contaminants such as organics, pesticides, algae, bacteria, color & odors. The oxidation process creates a hydroxyl radical which actually oxidizes the contaminants to harmless carbon dioxide and water thereby decontaminating the water & increasing filter life.



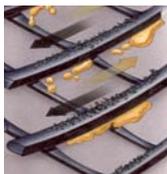
### Model CCC

Coalescing Centrifugal Clarifier.

A flash flocculation pre-treatment system for heavy solids removal. Designed for heavy duty oil and solids pre-treatment.

**Polishing Filter** -RGF's reusable Poly-Micron HO Foam cartridges are long lasting 1 micron hardened poly foam filters that are cleaned by an Automatic Backflush System. Oil and solids purge valves extend filter life and reduce maintenance. The user friendly lid screws on to make service a breeze.

**Micro-Matrix -Ultra Coalescor** - RGF's innovative self cleaning coalescing matrix utilizes a tight matrix of 60 degree poly grids designed to attract low micron oil panicles. The XL1 Model contains over 3,000 coalescing matrixes for advanced oil removal.



**Coalescing Centrifugal Separator** RGF's patented molded Poly Centrifugal Separator designed to separate, under several G forces, free oils and solids before entering the system thereby decreasing maintenance intervals. With oil and solids purge valves.

**Programmable Auto Backflush** The Model WM1 is equipped with an automated pre-programmed backflush system for the polishing filters.

**Turbohydrozone XL-** RGF has developed and manufactures their own proprietary high efficiency maintenance free ozone generator with ozone out-puts 3 times industry standards. RGF's krypton/quanz chamber has a life of over 10,000 hours.

**HCA-3** -RGF's patented Hydrocarbon Absorber is the most advanced oil/water filter on the market. This continuously self-cleaning pressurized absorption filter is equipped with a free oil and solids purge to extend it's life. The HCA-3 consists of 3 technologies: microcoalescing, polyfibron absorption and polyisocyanurate absorption foam.



**UV-Catalvzation** -RGF utilizes ultraviolet catalyzation to activate the COP reaction in addition to destroying bacteria and odor causing organics. RGF's UV chamber has a life of over 10,000 hours.



**Hydrocarbon Accumulator** -patented by RGF automatically removes & stores oils & fuels with no moving or replacement pans.

**Modular Design** - RGF's unique modular design permits versatility in equipment layout. Flexible PVC connection piping makes service & installation easy.

## OPTIONAL FEATURES



**RGF's High Volume Washing Stations** are designed for washing situations that require considerable flow with moderate pressure to remove grass and debris from equipment. All stations come complete with pressure switch, safety valve and controls. The skid mounted systems are designed to feed 2 to 4 washing stations (RGF's wash pad hose reels) at up to 18 gallons per minute. The wall mounted station is for a single washing station at up to 16 gallons per minute.



### Hose Reels

These assemblies are ideally suited for removing heavy solids with high volume, moderate pressure and are designed to be coupled with our High Volume Wash Stations. the hose reels are available in carbon or stainless steel with hand or auto retract.



### Heavy Duty Processing Sump

Designed for wash pad water collection and feed to solids removal devices such as grass catchers or cone tanks where high solids content may destroy standard sump pumps.



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