

# RGF<sup>®</sup> ENVIRONMENTAL GROUP

MODEL XL1

RGF's Advanced Water Recycling System For **Very Heavy Duty** pressure and steam cleaning users...



## 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 **XL1 Model** of the **ULTRASORB<sup>b</sup>** Family was designed for **Very Heavy Duty** users such as ...

- Military bases
- Solid waste haulers
- Truck & tractor repair shops
- Bus companies
- Municipal and state garages
- Construction companies
- City / County transportation
- Mining materials companies

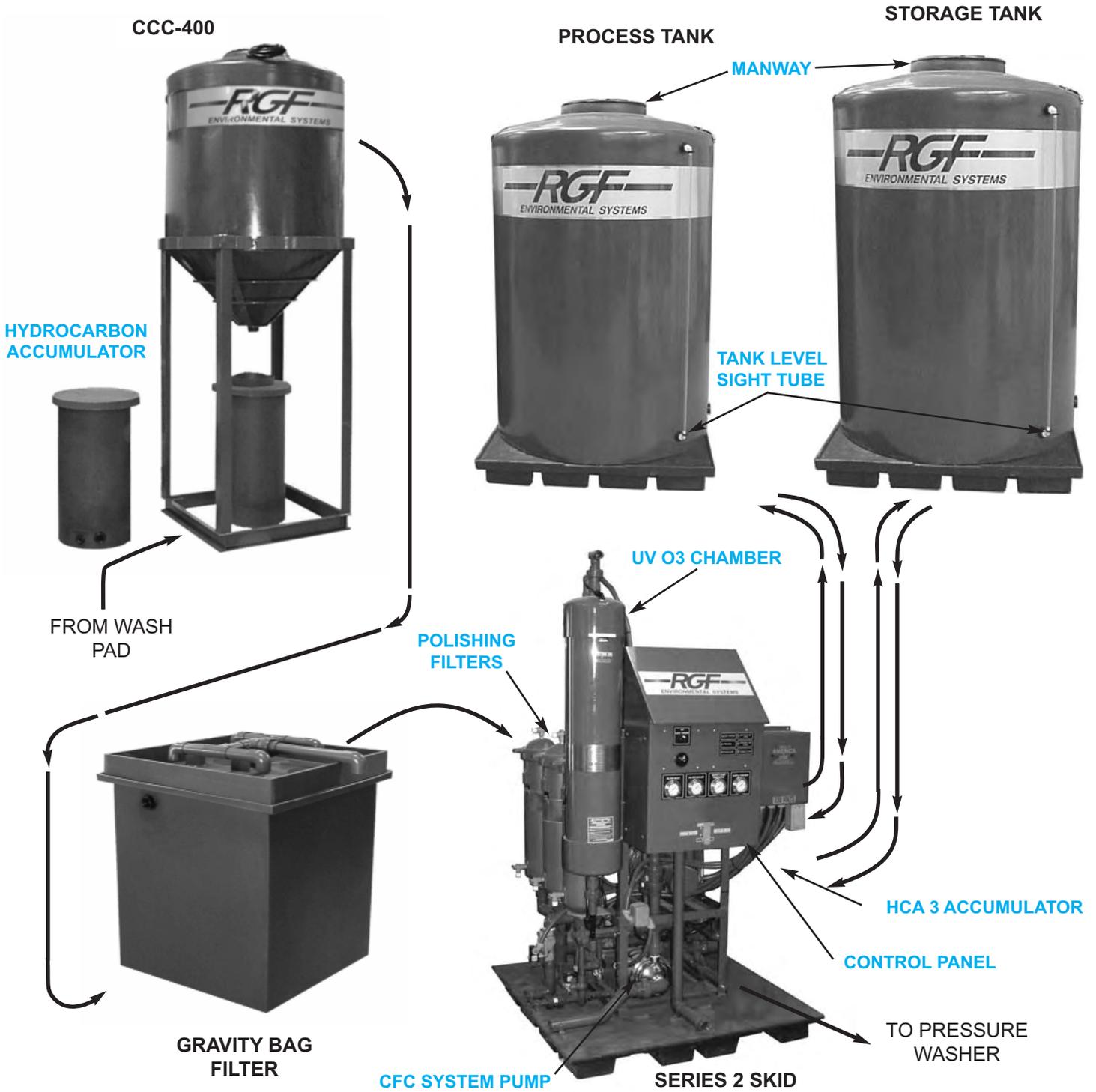
## OPERATION

The patented **ULTRASORB SYSTEM<sup>b</sup>** collects contaminated water from your wash pad, which typically contains...petroleum hydrocarbons (oil, grease, and fuels), heavy metals, solids, cleaning fluids, and detergents. The collected water is processed through the system and automatically delivered to the pressure or steam-cleaner for re-use.

The **ULTRASORB SYSTEM<sup>b</sup>** consists of the following technologies and processes ...

- 1 - **AERATION** (Adds air which enhances separation & removes VOC's)
- 2 - **GRAVITY SEPARATION** (Floats heavy oils)
- 3 - **DIFFUSED MACRO AIR FLOTATION** (Aids in separation and algae destruction)
- 4 - **AUTO OIL SKIMMER** (Automatically removes free oils & grease and captures them in a storage container)
- 5 - **HYDROCARBON ABSORPTION** (Absorbs petroleum hydrocarbons)
- 6 - **GRAVITY BAG FILTER** (100 micron bag filters collects solids for easy disposal)
- 7 - **COALESCING CENTRIFUGAL SEPARATION** (High speed G-forces separates solids & oils from water)
- 8 - **POLISHING FILTRATION** (Filters to 25 micron)
- 9 - **XL TURBOHYDROZONE<sup>b</sup>** (Heavy duty ozone generation system, destroys organics)
- 10 - **UV CATALYZATION** (Destroys bacteria)
- 11 - **OXYPUCK SYSTEM** (Destroys organics & algae)
- 12 - **XL CO3P - CATALYTIC OXIDATION PROCESS** (Destroys odors, pesticides, metals, organics, etc.)
- 13 - **CFC - CONTINUOUS FLOW CONTROL SYSTEM** (Aeration & odor control)

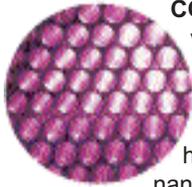
# MODEL XL1



## SPECIFICATIONS

<b>DIMENSIONS: CCC-400</b>	48"W X 48"L X 144"H	<b>TUBING</b>	UV PROTECTED PVC & POLY
<b>GRAVITY BAG FILTER</b>	35"W X 35"L X 40"H	<b>STORAGE TANK</b>	850 GAL. POLY TANK
<b>PROCESS TANK</b>	48"W X 48"L X 84"H	<b>PROCESS TANK</b>	550 GAL. POLY TANK
<b>STORAGE TANK</b>	56" DIA X 84"H	<b>HYDROCARBON ACCUMULATOR</b>	7 GAL. POLY TANK
<b>EQUIPMENT SKID</b>	48"W X 48"L X 84"H	<b>COALESCING CENT. CLARIFIER</b>	400 GAL POLY CONE
<b>FLOW RATE</b>	20 GPM	<b>AUTO OIL SKIMMER</b>	PVC ADJUSTABLE
<b>ELECTRICAL REQUIREMENTS</b>	220V -30 AMP -1 PHASE	<b>HYDROCARBON ABSORBER</b>	POLY HOUSING & HCA3 FILTER
<b>WEIGHT (APPROX.)</b>	1,966 lbs.	<b>POLISHING FILTER</b>	POLY-PRO HOUSING & 25 M FILTER
<b>CFC SYSTEM PUMP</b>	1/2 hp CIRCULATION	<b>XL UV CATALYTIC CHAMBER</b>	KRYPTON / QUARTZ
<b>PROCESSING PUMP</b>	1 1/2 hp CENTRIFUGAL	<b>XL TURBOHYDROZONE<sup>b</sup></b>	60 PPM CONT. OZONE DISCHARGE
<b>CHEMICAL INJECTION (OPTIONAL)</b>	PERISTALTIC	<b>POLISHING FILTER BACKFLUSH</b>	AUTOMATIC TIMED
<b>VALVES</b>	PVC BALL & ELECTRIC SOLENOID		

# 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 flocking 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 25 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.



## Gravity Bag Filter

A low cost pre-filter to screen out solids before they enter the system, therefore reducing maintenance.



**Modular Design** - RGF's unique modular design permits versatility in equipment layout.

**Programmable Auto Backflush** The Model XL1 is equipped with an automated pre-programmed backflush system for the polishing filters to reduce maintenance.

**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, polyfibrion absorption and polyisocyanurate absorption foam.



**UV-Catalvzation** -RGF utilizes ultraviolet catalyztion 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.



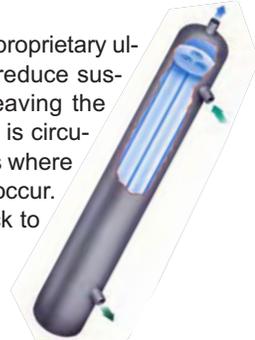
**Hydrocarbon Accumulator** -patented by RGF automatically removes & stores oils & fuels with no moving or replacement pans.

## OPTIONAL FEATURES

REFER TO RGF'S OPTIONS CATALOG FOR A COMPLETE LISTING

## MS3 -Molecular Separation Filtration

RGF has developed and manufactures their own proprietary ultrafiltration membranes. This selective filter will reduce suspended solids to the sub-micron range while leaving the soluble detergents in the water for re-use. Water is circulated under pressure around polymer membranes where molecular separation of water and contaminants occur. The contaminants are automatically rejected back to the pit.



## RGF ENVIRONMENTAL GROUP

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