

# EnviroTech Group

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## ***Advanced Oxidation Water System***

**RGF's Photohydroionization Water System for bacteria, virus, odor and chlorine control**

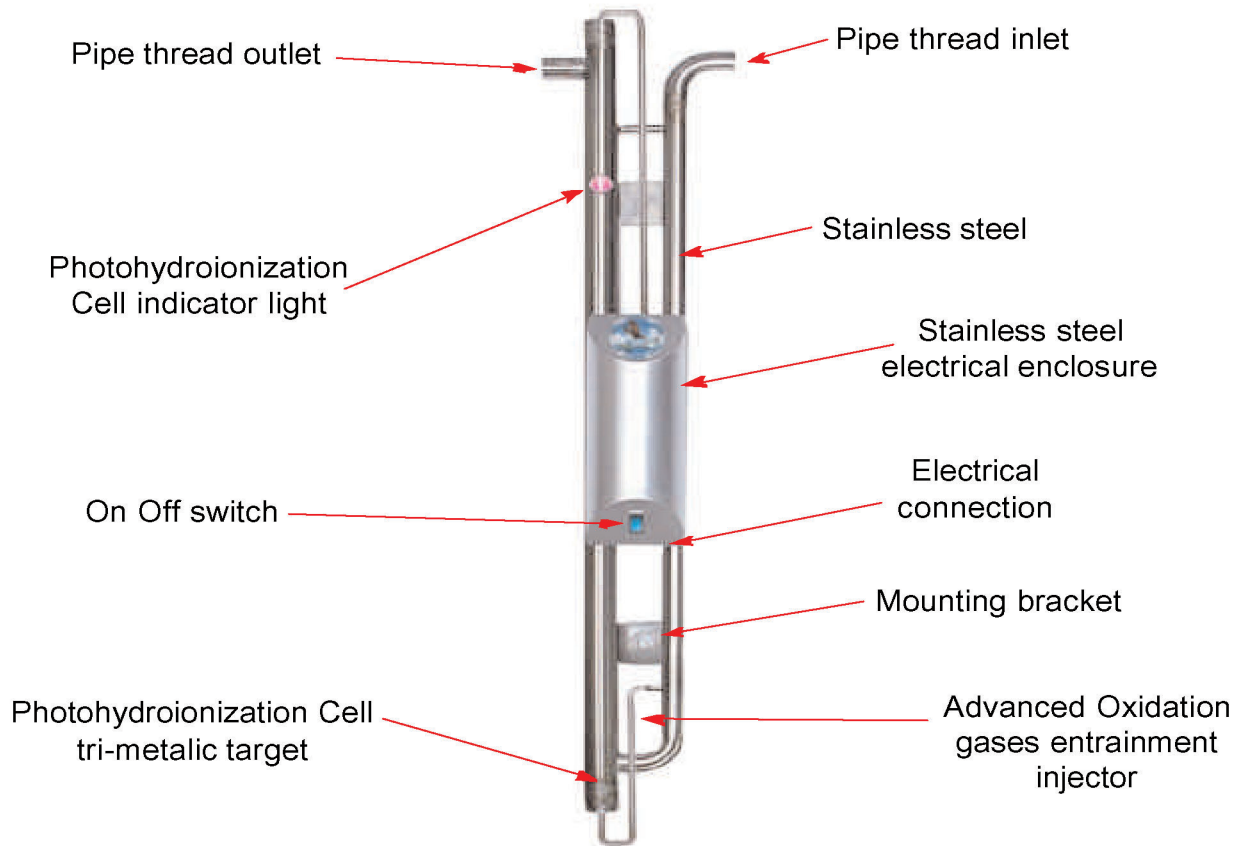


- A commercial grade water purification system manufactured in the USA of all polished stainless steel TIG welded.
- RGF's proprietary Advanced Oxidation Technology (Photohydroionization™) utilizes high intensity UV light and Advanced Oxidation gases, ozonide ions, super oxide ions, hydroxides and hydro-peroxides. These safe friendly oxidizers revert back to safe oxygen and hydrogen. Each molecule of water is treated with over 40,000 microwatt-sec/cm<sup>2</sup> of UV light which provides a kill rate of 99.9% for most bacteria and viruses. In addition, advanced oxidation gases provide aeration advanced kill rates, odor removal and chlorine reduction.
- Small size, easy installation, no maintenance (annual cell replacement only)
- 5 year warranty - 1 year on UV cell

### **Applications:**

**Residential  
Hotels  
Food & drink processors  
Restaurants  
Hospitals  
Medical offices  
Schools  
Cooling towers  
Fountains  
Swimming pools  
Ice machines  
and any liquid purification.**

The RGF Photohydroionization Water System is a purification process designed to treat water and liquids with Photohydroionization, UV light, ozonide ions, hydro-peroxides, hydroxides and super oxide ions. This is not a filter. It will not remove particulate, heavy metals or hardness from the water. Other RGF filters should be used in conjunction with this system for these purposes.



### SPECIFICATIONS

Flow rate	Up to 10 gpm (per unit)*
Material	Stainless Steel
Electrical	120 volt 75 watts
Weight	15 lbs.
Max operating pressure	100 psi
Connections	1" FPT
Dimensions	8" W x 36" L x 6" D
Ultraviolet light	40,000 microwatt-sec/cm <sup>2</sup>
Advanced Oxidation Gases	Ozonide ions, Hydroperoxides, Super oxide ions Hydroxies

\*Higher flow rates available by installing multiple units in parallel

### UV LIGHT WATER TREATMENT

UV Dosage for 99.9% reduction bacteria and Viruses

Dysentery	(4,000)
E-coli	(6,600)
Infectious Jaundice	(6,000)
Typhoid Fever	(6,000)
Hepatitis Virus	(8,000)
Influenza Virus	(6,600)
Tuberculosis	(10,000)
Bacillus Anthracis	(8,700)
Polio Virus	(21,000)

Microwatts - secs/CM<sup>2</sup> UV - Energy in Microwatts - Seconds per Square Centimeter

Note: U.S. Department of Health recommends 16,000 microwatt - sec/CM<sup>2</sup> for potable water



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