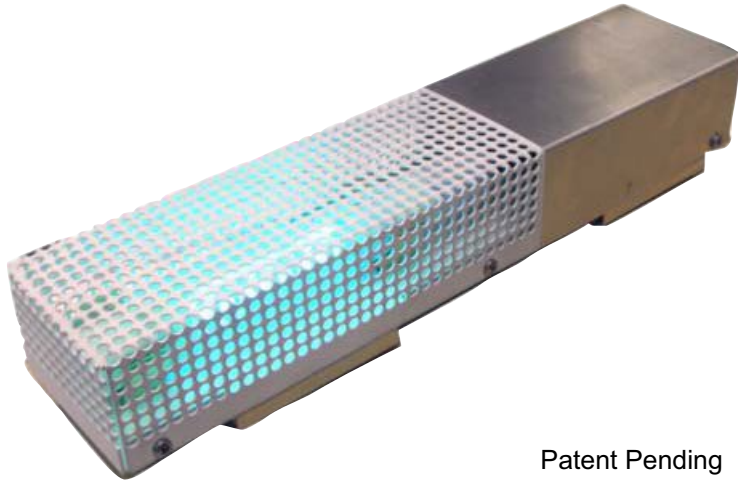


# RGF<sup>®</sup>

## ENVIRONMENTAL GROUP, INC.

### **Magnetic Mount Package Air Purification System** **A Photohydroionization<sup>®</sup> (PHI) Technology**



Patent Pending

The **PHI Package Unit by RGF<sup>®</sup>** is designed to eliminate sick building syndrome risks by reducing odors, air pollutants, VOCs (chemical odors), smoke, mold bacteria and viruses\*. This product is designed specifically for package systems and utilizes adjustable magnetic feet to attach without fasteners to the blower unit itself making installation as trouble free as possible. This 24V model connects directly into the control box of the HVAC unit. Now available in 5", 9" and 14" cells which will handle package products from 1.5 to 20 tons. Perfect for all applications where duct work is hard to get to.

#### **Why Use RGF's Photohydroionization<sup>®</sup> Technology?**

Germicidal UV light rays have been used for decades by the medical industry as a method for destroying micro-organisms (germs, viruses, bacteria). UV light is dependable and can be easily installed in HVAC systems. Germicidal UV light is effective in reducing only the airborne micro-organisms that pass directly through the light rays. However, germicidal UV light has little to no effect on gases, vapors or odors. Photohydroionization<sup>®</sup> Advanced Oxidation, which is an active system, on the other hand, is very effective on gases, vapors, VOCs and odors within the occupied space.

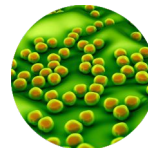
#### **TYPICAL INSTALLATION**



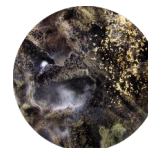
**Actual lab tests showing over 99% reductions of airborne bacteria, mold, odors and virus**



**E-Coli**



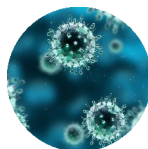
**Staph**



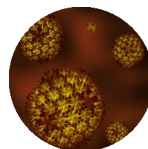
**Mold**



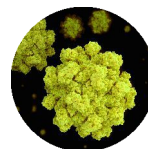
**Odors**



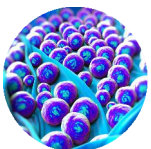
**H1N1**



**Avian Flu**



**Norwalk**



**MRSA**

The RGF Package Unit utilizes UV light enhanced by a hydrated quad-metallic compound target which develops an advanced oxidation reaction that creates hydro-peroxides, super oxide ions and hydroxides. By engineering the proper UV light wavelength, in combination with a triple function, no maintenance unit, The PHI Cell provides safe hydrogen peroxides to purify the air. With the RGF HVAC-PHI Cell Advanced Oxidation System, micro-organisms can be reduced by over 95%. Gases, VOCs and odors can also be reduced significantly, and the room will have hydro-peroxides, super oxide ion and hydroxides which will help give your room fresh, clean and odor free air.

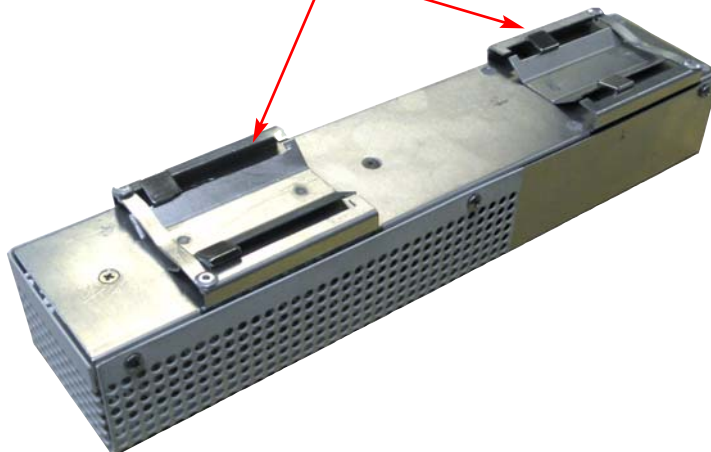
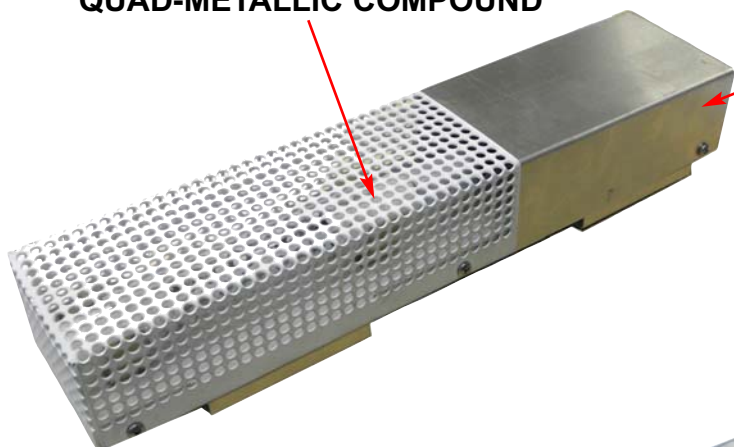
\*UV, Hydro-peroxides and Ozone are recorded as effective in killing viruses however RGF has not performed clinical tests on viruses as there are thousands of strains

## PACKAGE UNIT

QUAD-METALLIC COMPOUND

BALLAST  
ENCLOSURE

SELF ADJUSTING MAGNETIC FEET



### Applications:

Small Package Products  
Vertical Stack Units  
Roof Tops  
Gas Package Products  
Anywhere Ductwork is inaccessible

•Hydro-peroxides distribution:	distributed thru HVAC duct work
•Super Oxide Ion distribution:	distributed thru HVAC duct work
•Hydroxide Ion distribution:	distributed thru HVAC duct work
•Installation:	installed in HVAC package unit fan section
•Electrical:	24 VAC
•Materials:	Aluminium housing
•PHI Cell Replacement	Recommended after 2 years

The **PHI Package** unit size is scaled to accommodate the various air flow rates of different HVAC systems.

**Note:** It is recommended these units be installed by a licensed electrician.

Item #	HVAC Air Blower Size	Tonnage	Amps	Dimensions	Ship Wt.
PHI-PKG5-24V	250* to 1,200 CFM	Up to 3.5 ton	0.48	2.25"W x 10.5"L x 1.75"D	1 lbs.
PHI-PKG9-24V	1,200* to 3,000 CFM	3.5 to 7.5 ton	0.70	2.25"W x 13.5"L x 1.75"D	1 lbs.
PHI-PKG14-24V	3,000* to 8,000 CFM	7.5 and 20 ton	0.70	2.25"W x 18.5"L x 1.75"D	2 lbs.

\*Install unit in conjunction with an HVAC system utilizing a minimum air volume of 250 cfm.



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