

# **RGF**<sup>®</sup> **Rapid Recovery Unit**<sup>™</sup>

## **ENVIRONMENTAL**

### **Rapid Recovery Air Purification and Odor Destruction System** **A Photohydroionization<sup>™</sup> (PHI) Technology**

Ideal for duct cleaning, hotel and motel rooms, suites and apartments. Can be used to rapidly and effectively treat many problem odor areas during daily maintenance and cleaning operations.



**THE RGF *RAPID RECOVERY UNIT* ADVANCED OXIDATION GENERATOR IS DESIGNED TO DESTROY, NOT COVER UP, THE FOLLOWING ODORS:**

Tobacco Odors  
Chemical Fumes  
Cleaning Chemical Odors  
Cooking Odors  
Decaying Organic Matter

Mold & Mildew  
Paint Odors  
Pet Odors  
Sewer Odors  
Volatile Organic Compounds

**IN ADDITION TO DUCT CLEANING, THE LIGHTWEIGHT UNIT IS IDEAL FOR:**

Hotels/Motels/Resorts  
Airplanes/Automobiles  
Apartments/Condos

Fitness Facilities  
Restaurants  
Buses

Offices  
Schools & Universities  
Yachts & Boats

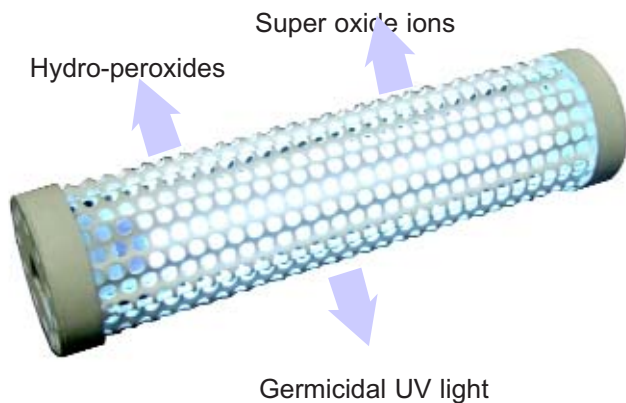
## Photohydroionization™ Cell Module

An advanced oxidation reaction occurs when light energy from the **ultraviolet (UV) cell** reacts with the air, and a hydrated **quad-metallic catalyst**. This reaction creates cleansing ions, such as hydroperoxides and super oxide ions, which are exhausted from the system into the surrounding air.

The **Rapid Recovery Air Purification** unit can easily be placed into your return vent, and used to reduce mold, microbes, and gases. Once the unit is activated it will quickly and efficiently clean your duct work, in as little as 30 minutes for an average size home. The treatment of your ducts include:

- suppression of bacterial growth (bacteriostatic)
- suppression of mold growth (mycostatic)
- reduction of odors
- reduction of chemicals (VOCs)

### PHI Cell



In addition to the PHI Effect the Rapid Recovery Units also utilize **Odor Absorbing Media Filter**.

Filtration is not the core method utilized to reduce or eliminate odors. It is the advanced oxidizers, created by the PHI cells that actively treat the air external to the unit. The media filter cartridge enhances the speed and efficacy of the system by reducing gross particulate (e.g., smoke).

### FAQs

**Q:** How does the Rapid Recovery Unit actually work?

**A:** RGF has developed a proprietary technology known as Photohydroionization or PHI technology. This technology creates an advanced oxidation reaction that eliminates odors, mold, viruses, bacteria and other pathogens without causing any harm to the occupants or the environment. This process features a broad spectrum UV light and a quad metallic target that combine to generate nature's friendly oxidizers: Hydroxides, Hydro-peroxides and Super oxide ions. These are all called friendly oxidizers as they return to oxygen and hydrogen after making contact and destroying pathogens. They do not create chemicals that remain in the air, nor are they harmful to humans.

**Q:** Is the Rapid Recovery unit safe, does it use any chemicals?

**A:** The RRU is both safe to people, pets and the environment. Photohydroionization process has been approved by the USDA-FDA-FSIS for food processing. This process produces no residual chemicals, just friendly oxidizers.

**Q:** If I am using the Rapid Recovery Unit for duct sanitation, can I clean the duct work and run the RRU simultaneously?

**A:** Yes, The Rapid Recovery Unit is safe to use while you are cleaning the duct work.

**Q:** Can the Rapid Recovery Unit help me sell other RGF products?

**A:** Yes, if you clean a customer's duct work and the customer likes how clean and fresh the air is inside the conditioned space, you can suggest one of our Guardian Air Products to be installed in there air handler, so that the customer can have that fresh smell everyday.

**Q:** What applications can the Rapid Recovery Unit be used for?

**A:** Duct Work Sanitation - Hotel Rooms - Car or Truck Cleaning - Room Recovery and Remediation

**Q:** Does the Rapid Recovery Unit produce a smell in the air?

**A:** As a matter of fact it does, it has the smell of pure air. Another way of saying this, when you take all of the containments out of the air, what's left is clean pure air.

### SPECIFICATIONS

Fan Volume at Discharge	88 CFM
Weight	12 lbs.
Dimensions	26"L x 13"W x 15"H
Target	Hydrated Tri-metallic
Approximate UV Chamber life	5,000 Hrs
Voltage	110 volt
Total Electrical	1.25 amp
UV Chamber Electrical	.75 amp
Fan Electrical	.65 amp
Material/Finish	Stainless steel
Controls	On/Off Light 12 Hour Timer Hour Meter
Ultraviolet Chamber	Electrically Excited Krypton Gas
Replacement PHI Cell Part#	(2) PHIC-9A

Large Industrial Systems Available



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