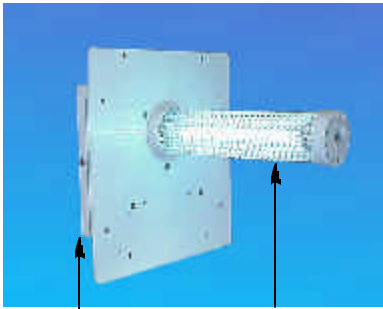
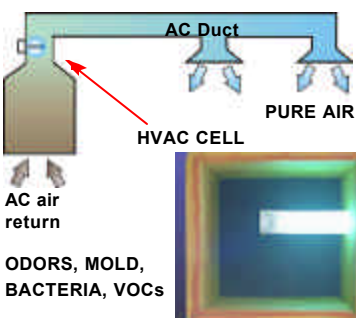


## RGF® PHI Cell AC/Heat Duct Air Purification System



PPC Insulator for maximum Efficiency

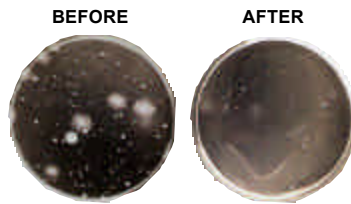
Fiberoptic status indicator



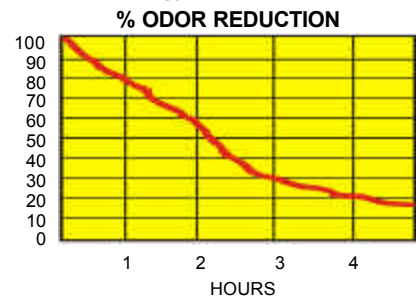
The HVAC PHI Cell by RGF® is a new generation of HVAC Eco Air Systems designed to eliminate sick building syndrome risks by reducing odors, air pollutants, VOCs (chemical odors), smoke, mold, viruses\*, and bacteria. The HVAC-PHI Cells are easily mounted into air conditioning and heating system air ducts where many sick building problems start. When the HVAC system is in operation the HVAC-PHI Cell creates an Advanced Oxidation Process consisting of: Hydro-peroxides, safe low level super oxide ions and ozone and . All are friendly oxidizers. By friendly oxidizers we mean oxidizers that revert back to oxygen and hydrogen after the oxidation of the pollutant.

### Why Use RGF's Photohydroionization™ 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 ducts or a plenum. 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 Technology, on the other hand, is very effective on gases, vapors, VOCs and odors.



Actual lab tests showing up to 90% reductions of airborne bacteria and mold



The combination of safe low level ozone (O<sub>3</sub>) and UV light enhanced by a hydrated tri-metallic compound develops an advanced oxidation reaction that creates as well as reduces ozone to safe low levels. This process also produces hydro-peroxides and super oxide ions. By engineering the proper UV light wavelength, in combination with a triple function, no maintenance PHI cell, RGF has effectively designed a system that will not exceed the recommended Federal safe limits for ozone (0.04 ppm) in an occupied room, while also providing safe hydro-peroxides and super oxide ions to help purify the air.

With the RGF HVAC-PHI Cell Advanced Oxidation System, micro-organisms can be reduced by over 90%. Gases, VOCs and odors can also be reduced significantly, and the room will have passive ozone, hydro-peroxides and super oxide ion levels no greater than that found in forest air or air after a thunderstorm. The RGF HVAC-PHI Cell will help give your room fresh, clean and odor free air.

The RGF PHI Cell unit size is scaled to accommodate the various air flow rates of different HVAC systems. Locate the air blower size in cubic feet per minute (SCFM) of the HVAC system you are intending to install the system in, then pick the model number that corresponds to that flow rate. **Note:** It is recommended these units be installed by a licensed electrician.

\*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

### Specifications

- Low Level Ozone Production:** 0.04 ppm maximum
- Hydro-peroxides distribution:** air handler
- Super Oxide Ion distribution:** air handler
- Ion distribution:** air handler
- Installation:** Duct or Plenum
- Electrical:** 110 VAC 60 Hz 50-90 watts  
Other voltages available
- Warranty:** 3 Year Parts & Labor  
**1 year on Cell**
- PHI Cell Replacement** Recommended after 1 yr.

\*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

| Item #             | HVAC Air Blower Size  | Approx. Sq Feet             | Dimensions                  | Ship Wt. | Replacement Cell# |
|--------------------|-----------------------|-----------------------------|-----------------------------|----------|-------------------|
| HVAC-PHI-212-16    | 1,000 to 6,500 SCFM   | Up to 2,000-approx 4 tons   | 9" probe / 9"x9" plate      | 3 lbs.   | PHIC-9C           |
| HVAC-PHI-212HO-16  | 6,500 to 10,000 SCFM  | Up to 3,000-approx 6 tons   | 9" probe / 9"x9" plate      | 3 lbs.   | PHIC-9HOC         |
| HVAC-PHI-357-16    | 10,000 to 18,000 SCFM | Up to 5,000-approx 10 tons  | 14" probe / 9"x9" plate     | 4 lbs.   | PHIC-14C          |
| HVAC-PHI-357HO-16  | 18,000 to 26,000 SCFM | Up to 7,000-approx 14 tons  | 14" probe / 9"x9" plate     | 4 lbs.   | PHIC-14HOC        |
| HVAC-PHI-357HOD-16 | 26,000 to 30,000 SCFM | Up to 10,000-approx 20 tons | **14" probe / 11"x11" plate | 8 lbs.   | PHIC-14HOC        |

For 220 volt 50 Hz replace -16 with -25  
For 220 volt 60 Hz replace -16 with -26

\*\*Dual probes

## Plug In Plus Advanced Environmental Air Purification System



Patent Pending

**The Plug In Plus Natural Air Purification System** provides bacteria, mold, odor and VOCs (chemical odors) reduction. The advantage of the Plug In Plus is its ability to be used in any room and be completely inconspicuous. The Plug In Plus plugs directly into a wall outlet and can be used with or without its internal fan. Because it has its own outlets as part of the unit, you do not lose the wall outlet you will actually gain 2 new outlets. The Plug In Plus is an air treatment system not a filter.

**The Problem:**

Indoor air pollution is now considered by the EPA and Congress to be America's No. 1 environmental health problem. Tightly sealed buildings and homes may be more energy efficient but can trap pollutants and microbes indoors causing allergies odors, mold and illness.

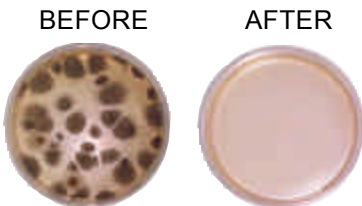
**The Solution:**

The Plug In Plus by RGF has proven to drastically reduce odors, smoke, mold, fungi, VOCs (chemical odors) and bacteria found in many rooms. Airborne bacteria and mold reduction is normally in the 90+ percentile.

**The Technology:**

The Plug In Plus utilizes RGF's Photohydroionization™ technology which utilizes safe low level ozone, super oxide ions, hydro peroxides, and uv light targeted on a hydrated tri-metallic target to develop an advanced photo-catalytic oxidation.

Ideal for hotel rooms, suites, public rest-rooms, offices, locker rooms and more!



Actual lab tests showing up to 90% reductions of airborne bacteria and mold

Optional anti-theft mounting screws



Easy installation

### Applications

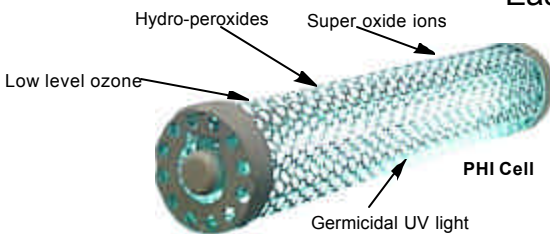
**Helps Eliminate Airborne:**

- Smoke
- Mildew
- Odors
- Bacteria
- VOC's
- Viruses\*

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

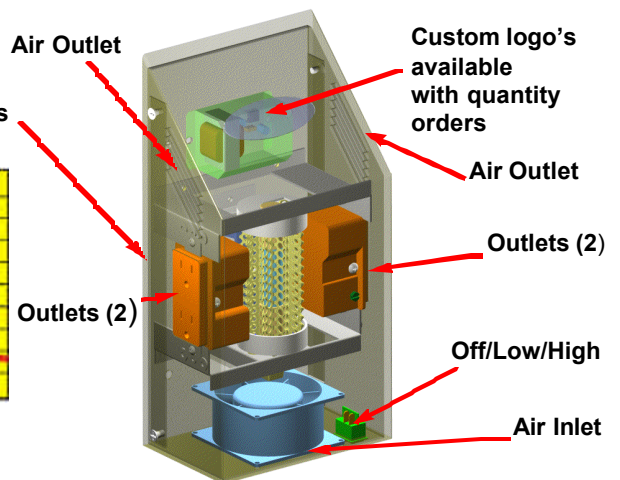
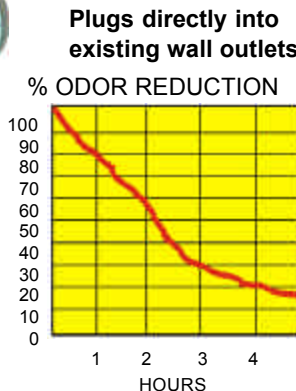
### Benefits

- Plugs into existing outlets
- No wiring required
- 2 Or 3 Prong Plug
- Economical
- Low Maintenance
- 10,000 Hour Cell Life
- Light weight
- Compact
- Built in night light
- Hidden mounting screws prevents theft
- Built in electrical outlet two sides (4 total)
- 3 year warranty - 1 year on PHI cell



### Specifications

- Dimensions:** 6.25" w x 3.75" d x 10" h
- Electrical:** 110 VAC 50 watts
- Controls:** On / Off /Low /High
- Weight:** 2 lbs.
- Material:** Aluminum/ Polymers
- Advanced Oxidation:** Less than .04 ppm



### Order Information for Plug In Plus

Note: Not recommended for installation on external GFCI outlets (if required, a panel box type GFCI breaker must be used).

| Item # | Description      | Ship Weight |
|--------|------------------|-------------|
| PIP-16 | RGF Plug In Plus | 10 Lbs.     |

| Item #  | Replacement Parts        |
|---------|--------------------------|
| PHIC-5A | Replacement PHI Cell (1) |



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