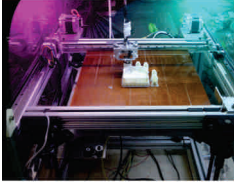


## About RGF



### INNOVATION

Since 1985, RGF has maintained a steady flow of award-winning innovative purification products. RGF has been awarded national recognition as a recipient of the Inc./MCI Customer Service Award.



### DESIGN

Our R&D technical staff consists of the following specialists: Advanced oxidation, biological, mechanical, chemical, water treatment engineering, electrical, nuclear, fabrication, design, and environmental law.



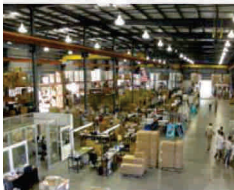
### PATENTED TECHNOLOGY

RGF has been a leader in patented environmental sanitation/purification technology and products for air, food and water.



### LAB

RGF maintains four fully equipped labs. R&D Mechanical, Electrical (UL approved), R&D Food and a wet lab.



### MANUFACTURING

RGF is a fully vertical manufacturer. Our 200,000 square foot facility has electrical/mechanical assembly, injection molding, assembly line, custom engineering, welding, painting, mold making, machining and marine fabrication.



**RGF'S TEN ACRE  
ENVIRO-COMPOUND  
LOCATED IN  
RIVIERA BEACH  
(PORT OF PALM BEACH  
ENTERPRISE ZONE)**

**RGF® Environmental Group, Inc.**  
ISO 9001:2015 CERTIFIED COMPANY  
Copyright © 2024



By **RGF®**

## In-duct Air Purification System



**Thank you for purchasing the REME HALO® by  
RGF® Environmental Group, Inc.**  
**We are confident this system will provide you with years of  
Fresh, Clean and Odor-Free Air!!!**

**NOTE: Please take time to read the attached assembly instructions.  
All instructions and precautions should be adhered to while  
operating this system.**



CSA C22.2 No. 250.0:2021/U1:2021-06  
UL 1598:2021/R:2021-06  
EN 60335-1:2012/A15:2021  
EN 60335-2-65:2003/A11:2012  
Conforms to:  
UL 60335-2-40



## LIMITED WARRANTY COMMON QUESTIONS

### Things I should do to avoid problems or injuries when running my GUARDIAN AIR Equipment.

- Thoroughly read and understand all Operating Instructions, Warnings and Precautions before commencing application.
- Place unit in a dry area when possible.

### What service can I expect from my HVAC contractor?

- Your contractor will assist you with any problems or questions you may have.
- Sell you optional parts or equipment as needed.
- Assist you with any warranty claims.

### Warranty Registration

- Register warranty online at: [www.rgf.com/registration](http://www.rgf.com/registration)

## REME-HALO® by RGF

Installed in your air conditioning system, REME HALO® utilizes RGF's patented REME® Cell technology to create low level, gaseous airborne hydrogen peroxide and bipolar ions for distribution throughout your air-conditioned spaces. REME HALO® actively reduces bacteria, viruses, odors, mold, and allergens at the source ensuring excellent indoor air quality.

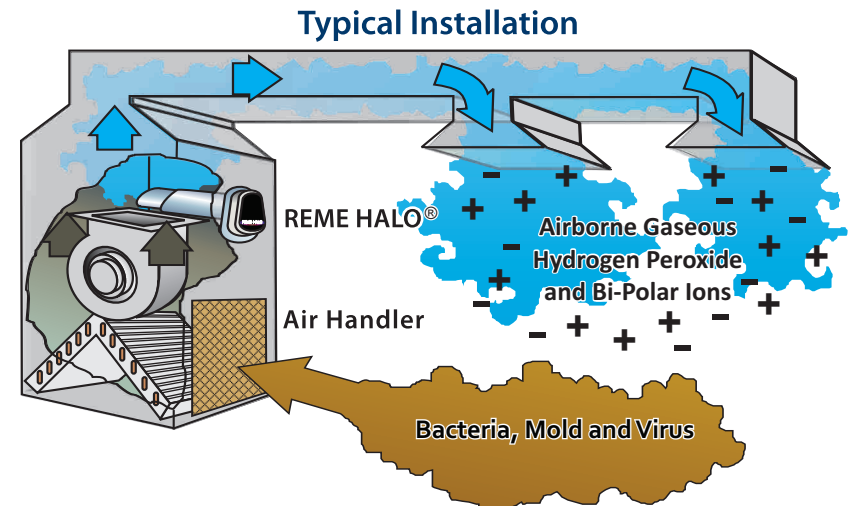


Figure 1

## REME HALO® Cell Features

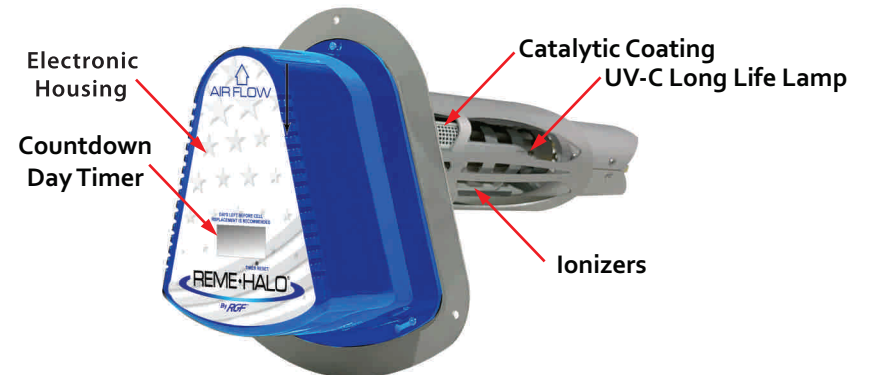


Figure 2

## REME HALO® by RGF® INSTALLATION INSTRUCTIONS



**CAUTION: NEVER LOOK DIRECTLY AT AN ILLUMINATED CELL.  
THIS DEVICE PRODUCES GERMICIDAL UV LIGHT AND WILL  
CAUSE DAMAGE TO EYES**



**ATTENTION: NE REGARDEZ JAMAIS DIRECTEMENT  
UNE LAMPE ALLUMÉE. CET APPAREIL PRODUIT DES  
RAYONS UV ET PEUT ENDOMMAGER LES YEUX!**

Your kit contains the following:

- REME HALO® HVAC unit
- Adhesive foam gasket
- Adhesive backed foil sealing ring
- Three (3) mounting screws
- Six (6) wire nuts
- Instruction manual and warranty card
- 24 VAC transformer
- 24 V power cord
- Caution UV Light in Use Label

**NOTE: DO NOT USE UNIT IF POWER CORD IS DAMAGED.  
PLUG MUST BE ACCESSIBLE AT ALL TIMES.**

### INSTALLATION INSTRUCTIONS:

#### 1. Determine the Mounting Location:

- To maximize the effectiveness of the REME HALO®, it is recommended (whenever possible) to install the REME HALO® unit in the air plenum just after the air handling unit (supply side). Refer to **Figure 1** for clarification.
- As drilling/cutting holes into the duct are required, it is recommended to install the REME HALO® unit outside any existing HVAC air handling unit. This will prevent any possible damages to the HVAC unit during the installation process.
- When locating the unit, always allow for positioning near a suitable power source
- Once a suitable location is determined, position the REME HALO® midway in the air duct. Make sure you have allowed enough room to accommodate the mounting plate when finalizing your mounting position.

## LIMITED WARRANTY COMMON QUESTIONS

### How long is the warranty?

- Two (2) years for the cell from initial start up.
- Five (5) years for the ballast from initial start up.

### How do I contact the Manufacturer about my warranty, a question or complaint?

- Contact your local HVAC contractor.
- If they cannot answer the warranty question or complaint, you can contact the RGF Warranty Department.

### Are there any parts not covered by this warranty (that the manufacturer will not repair or replace)?

- Yes. Parts damaged by decomposition from chemical action, humidity, moisture, or wear caused by abrasive materials. It does not cover damage resulting from misuse, abuse, or any other use other than its intended use. This warranty does not cover accident, neglect, improper operation, maintenance, installation, modification or adjustments.
- Parts not made by Manufacturer.

### Steps to take when you have determined that your equipment is malfunctioning within the warranty period.

- Call your HVAC contractor and notify them of the problem or malfunction. (It may be a simple problem or oversight with a simple solution)
- If it is determined that a part is malfunctioning due to a defect, your HVAC contractor will repair or exchange the defective unit with a working replacement.
- Your HVAC contractor will repair or exchange the defective unit with a working replacement.

## FIVE YEAR LIMITED WARRANTY WITH TWO YEAR EXCHANGE POLICY

This warranty supersedes and replaces any warranty statements made orally by the Sales Person, Distributor, or Dealer, or contained in the written instructions or other brochures or informational documents related to this product.

Manufacturer warrants the new REME HALO® by RGF® unit to be free from defects in material and workmanship under normal use and service when operated and maintained in accordance with manufacturer's instructions for a period of five years (sixty months) from the original date of purchase (excludes PHI or REME HALO® cell). The PHI or REME HALO® cell included with the original unit is warranted to be free from defects in material and workmanship for a period of two years (24 months) from original purchase date. (For international orders, twelve (12) months parts only. Shipping not included).

For the two years (24 months), the manufacturer offers an immediate over-the-counter exchange for a demonstrated defective unit. The company making this exchange, and requesting credit for said unit is obligated to verify that the unit or cell is in fact defective. After the initial two year period (up to five years from original date of purchase), this warranty is limited to repairing or replacing the ballast found to its satisfaction to be so defective, excluding the PHI or REME HALO® cell included with original purchase. Hereafter, the unit will need to be returned to the manufacturer under a Returned Materials Authorization (RMA) for review and/or repair (if found defective). This warranty does not cover parts damaged by decomposition from chemical action or wear caused by abrasive materials, nor does it cover damage resulting from misuse, abuse, or any other than its intended use, accident, neglect, or from improper operation, maintenance, installation, modification, or adjustments.

**THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.**

**NOTE: TO OBTAIN WARRANTY SERVICE AND RETURN AUTHORIZATION NUMBER, CONTACT YOUR SUPPLIER.**

**INCLUDE A COPY OF YOUR BILL OF SALE, INVOICE OR RECEIPT OF PURCHASE, WITH AN EXPLANATION OF THE PROBLEM OR DEFECT.**



**HG-LAMP CONTAINS MERCURY. MANAGE IN ACCORD WITH DISPOSAL LAWS. SEE: [www.lamprecycle.org](http://www.lamprecycle.org)**



**Figure 3**

- Using a 3-1/4" hole saw or other suitable means), cut a 3-1/4" hole into the plenum / duct box AFTER the fan. Cutting into fiberboard is usually easier than metal, and can be done with a utility knife (Figure 3). Be sure you are drilling into the ductwork only and not penetrating into the mechanical areas of your HVAC system.



**Figure 4**

### 2. Mounting Unit:

- Secure the mounting plate to the air duct by first peeling the paper backing off the self-adhesive sealing ring affixed to the back side of the mounting plate (be sure the mating area of the duct surface is clean and dry). Refer to Figure 4.





**Figure 5**

- Insert probe into opening with the arrow indicator going in the same direction as the airflow of the HVAC unit. Once attached to duct, press firmly all around flange to ensure a proper seal. Refer to **Figure 5**. In some installations, it may be preferred to secure the unit with the provided screws via the three mounting holes located on the REME HALO® mounting plate.



**Figure 6**

- Once unit is secured, apply the foil sealing ring to ensure an airtight seal. Remove the paper backing, center over unit, smooth and press firmly over entire surface to ensure a good seal (make sure corresponding sealing surface is clean and dry). Refer to **Figure 6**.

**NOTE: BE SURE TO AFFIX CAUTION DECAL  
NEXT TO MOUNTED UNIT.**

## FAQ (Frequently Asked Questions):

### Is it OK to run the unit all the time, or is it better to cycle with the fan?

The REME HALO® unit treats your home when the HVAC unit fan is on. It is recommended to leave your fan on continually when possible to provide maximum benefit. However, cycling the unit on and off with the fan is acceptable, but be aware that excessive repeated cycling may degrade the useful life of the cell elements. RGF® recommends running the unit continuously.

### Can the unit be installed on the return air side of the HVAC?

The best location for your The REME HALO® unit is in the plenum, just after the air handler. This allows for full distribution and extended air treatment. In situations where it is somehow impossible to locate the unit after the HVAC unit, it is acceptable to locate the REME HALO® unit before the HVAC unit; however, the high moisture content of the cooling coils, as well as the high temp of the heating coils, will reduce the effective treatment capacity of the unit.

### After two years my REME HALO® unit indicator light still glows so it is still working right?

The indicator light does in fact let you know if the unit is operating or not. However, it does not indicate the relative output of the unit. The output of the unit reduces with time, and after two years of operation, it is recommended to change out the replaceable REME HALO® cell insert to maintain optimum effectiveness of the unit.

## Replacing REME HALO® Cell:



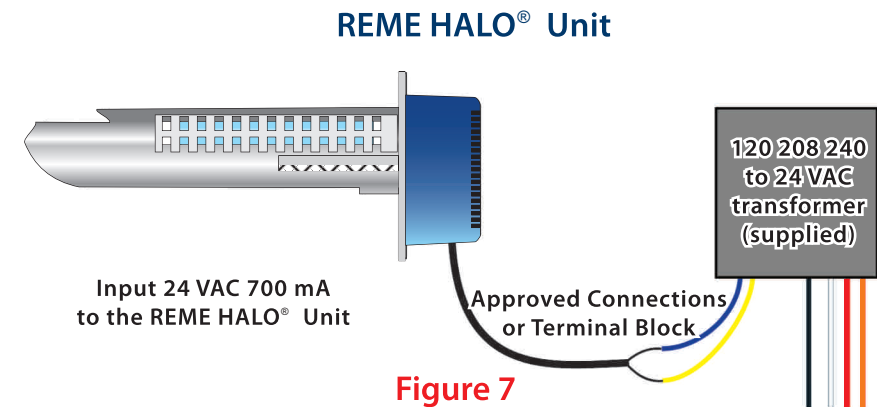
- Pull cell away from housing until lamp connector is visible.



- Firmly grip lamp connector and with a gentle rocking motion remove connector from cell pins.
- Replace with new REME HALO® Cell and reassemble unit.

## 3. Electrical Connection:

- RGF® recommends for optimal performance and maximum cell life That the REME HALO® product line operates continuously. For wiring assistance, see installation instructions in this manual.
- The REME HALO® may be connected to any suitable 120, 208 or 240 VAC source with the supplied 40VA transformer. When installing multiple units on an HVAC system, it is recommended that a properly sized secondary 24 VAC transformer be utilized.
- When using a secondary transformer, ensure it is installed in accordance with all applicable local codes by a qualified installer.
- Use the provided wire splices for the electrical connections (ensure any connections used conform to local codes). Refer to **figure 7** and the Wiring Color Code chart for the correct voltage connections.



## REFER TO WIRING DIAGRAM ON TRANSFORMER

**THIS EQUIPMENT MUST ONLY BE INSTALLED BY A QUALIFIED ELECTRICIAN ONLY.  
CET ÉQUIPEMENT DOIT ÊTRE INSTALLÉ UNIQUEMENT PAR UN  
INSTALLATEUR QUALIFIÉ.**

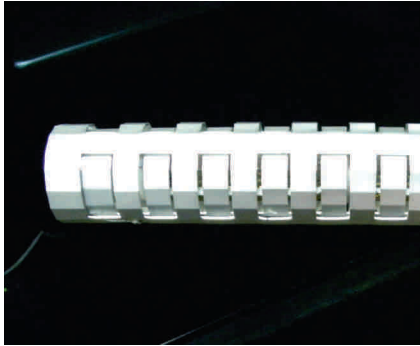


**CAUTION: ENSURE THAT THE 24 VAC POWER SUPPLY THAT  
UNIT IS BEING CONNECTED TO IS CAPABLE OF SUPPLYING  
AT LEAST 700mA OF CURRENT FOR EACH GUARDIAN AIR™  
BEING INSTALLED ON THE CIRCUIT.**

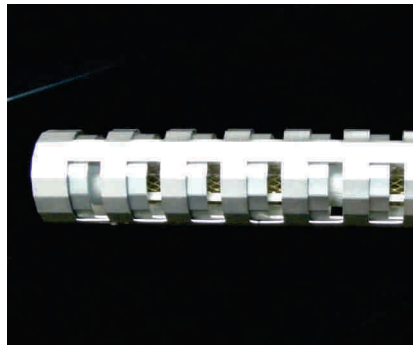


## REME HALO® Output Adjustment

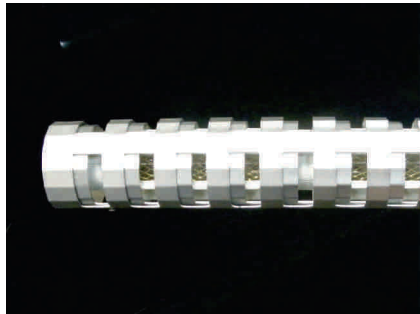
REME HALO® has a unique feature which allows the adjustment of the hydrogen peroxide output by way of an adjustable shroud built into the REME HALO® Cell. By sliding the shroud apertures open or closed, the REME HALO® can be custom adjusted to the needs of a specific area.



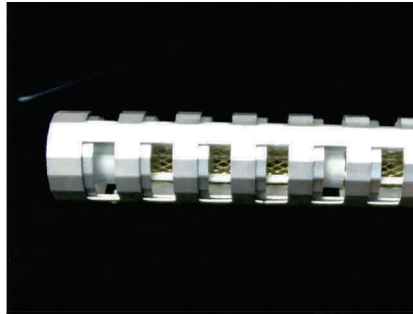
800 - 1,000 CFM fully closed



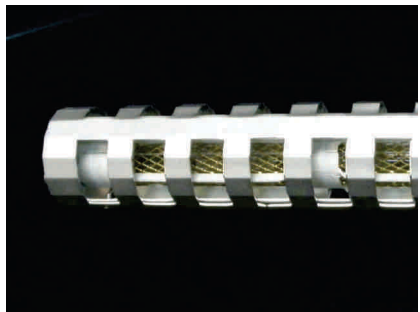
1,000 - 1,200 CFM 1/4 open



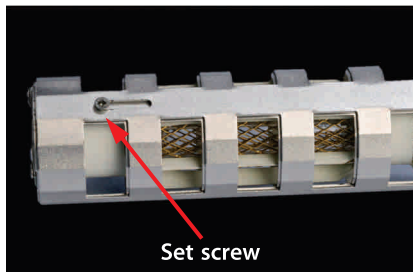
1,200 - 1,600 CFM 1/2 open



1,600 - 2,000 CFM 3/4 open



2,000 - 2,400 CFM fully open



Set screw

To adjust shroud, loosen small philips head screw on bottom of shroud and slide to desired position. Tighten screw.

	<b>⚠ DANGER ⚠</b>
	<b>RISK OF ELECTRIC SHOCK</b> <b>BEFORE CHANGING PHI CELL, COMPLETELY DISCONNECT FROM POWER</b>

REME HALO® features a Countdown Day Timer as a visual indication of the REME® Cell life. When the Countdown Day Timer reaches zero, the REME HALO® Cell requires replacement. The REME HALO® Cell is replaceable every two (2) years with part number PHIC-RH.

## Replacing REME HALO® Cell:



- Remove housing from unit by turning counterclockwise and pulling straight out of mounting plate.



- Once housing and cell are free from mounting plate, grasp cell and turn counterclockwise while pushing down to release cell from housing.