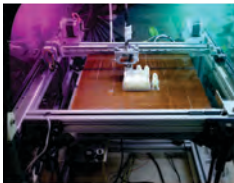


## About RGF



### 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)**

THIS MANUAL PRINTED IN U.S.A.



By **RGF**

## In-duct Air Purification System



**Thank you for purchasing the REME HALO®Zero by  
RGF® Environmental Group, Inc.  
We are confident this system will provide you with years of  
fresh, clean, odor-free air!!!**

**NOTE: Read these instructions completely before opening the appliance.  
Lisez entièrement ces instructions avant d'ouvrir l'appareil.**

**All instructions and precautions should be adhered to while  
operating this system. If these instructions are lost you may find  
them digitally at [www.rgf.com](http://www.rgf.com)**

**RGF® Environmental Group, Inc.  
ISO 9001:2015 CERTIFIED COMPANY  
Copyright © 2021**



## LIMITED WARRANTY COMMON QUESTIONS

Things I should do to avoid problems or injuries when running my 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)

In case you lose this manual:

This manual can be found digitally online at [www.rgf.com](http://www.rgf.com)

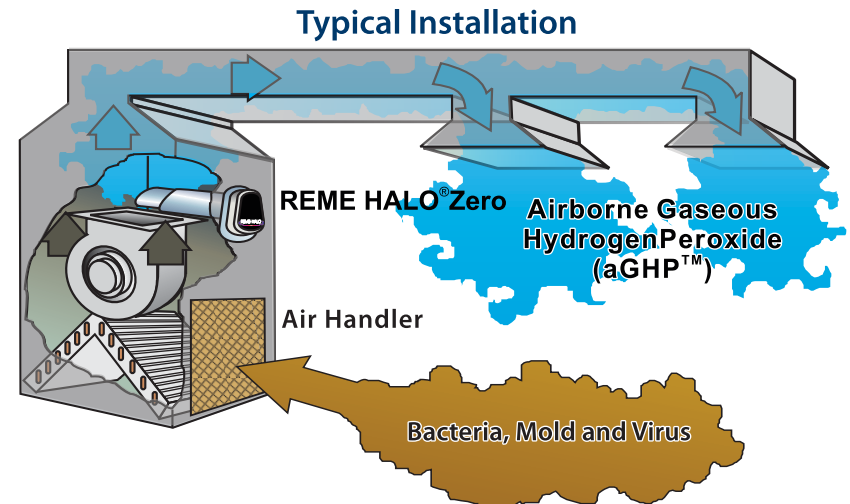
**This product does not require cleaning. UV-C emitters must only be replaced or serviced by qualified contractors. Unintentional use of this appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation, even in small doses, causes harm to the eyes and skin. Appliances which are damaged must not be used.**

## REME HALO®Zero by RGF®

REME HALO®Zero is a verified zero ozone, whole-home air purification system designed to reduce indoor air pollutants. Integrated into the HVAC system, REME HALO®Zero is quickly, and easily installed providing continuous air treatment to the entire air-conditioned space.

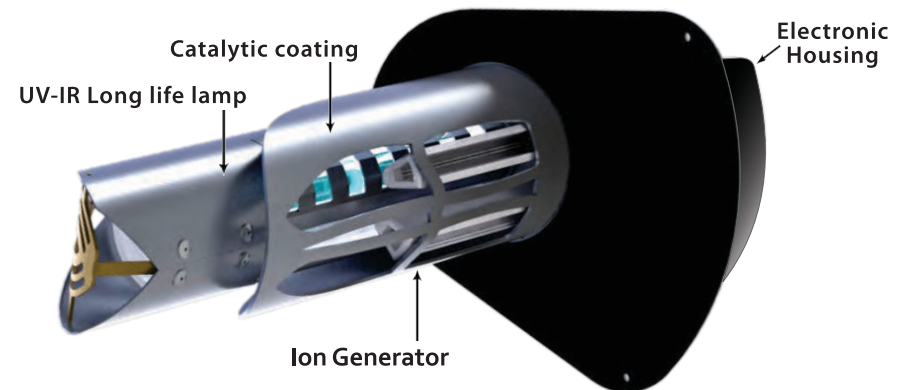
**HOUSING CONTAINS EXPOSED NON-METALLIC MATERIALS  
SUITABLE FOR AIR-HANDLING INSTALLATIONS**

**MATÉRIAUX NON MÉTALLIQUES EXPOSÉS POUVANT ÊTRE UTILISÉS  
DANS DES ESPACES DE TRAITEMENT DE L'AIR.**



**Figure 1**

## REME HALO®Zero Features



**Figure 2**

## REME HALO®Zero by RGF®

### INSTALLATION INSTRUCTIONS



**NEVER EXPOSE UNPROTECTED EYES OR SKIN TO  
ULTRAVIOLET LIGHT.  
NE JAMAIS EXPOSER LES YEUX OU LA PEAU SANS  
PROTECTION AUX RAYONS ULTRAVIOLETS**



**Your kit contains the following:**

- REME HALO®Zero 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

**NOTICE TO INSTALLER & HOMEOWNER  
THIS PRODUCT IS ONLY TO BE INSTALLED AND SERVICED  
BY A LICENSED CONTRACTOR. IT CONTAINS  
NO USER-SERVICABLE COMPONENTS.**



**FOR DRY LOCATIONS ONLY  
EMPLACEMENTS SEC SEULEMENT  
SUITABLE FOR USE IN AIR-HANDLING UNITS  
ADAPTÉ À UNE UTILISATION DE TRAITEMENT DE L'AIR**



### INSTALLATION INSTRUCTIONS:

#### 1. Determine the Mounting Location:

- To maximize the effectiveness of REME HALO®Zero, it is recommended (whenever possible) to install REME HALO®Zero 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®Zero unit outside any existing HVAC air handling unit. This will prevent any possible damage 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 REME HALO®Zero midway in the air duct. Make sure you have allowed enough room to accommodate the mounting plate when finalizing your mounting position.

### 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®Zero 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 cell). The PHI or REME 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 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)**





## FAQ (Frequently Asked Questions):

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

REME HALO®Zero 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 REME HALO®Zero 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®Zero 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®Zero 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® Zero Cell insert to maintain optimum effectiveness of the unit.



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**



**Figure 6**

- 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®Zero mounting plate.
- 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.  
APPOSEZ L'AUTOCOLLANT  
D'AVERTISSEMENT À CÔTÉ DE L'APPAREIL.**

### 3a. Electrical Connection: (For installation using 24VAC transformers)

- RGF® recommends for optimal performance and maximum cell life that the REME HALO®Zero product line operates continuously. For wiring assistance, see **Figure 7**.
- REME HALO®Zero 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.

## Replacing REME HALO®Zero 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®Zero Cell and reassemble unit.

## Replacing REME HALO®Zero Cell (Part # PHIC-RH-3)



**DANGER**



RISK OF ELECTRIC SHOCK  
BEFORE CHANGING PHI CELL, COMPLETELY DISCONNECT FROM POWER  
RISQUE DE CHOC ELECTRIQUE. COUPER L'ALIMENTATION AVANT DE  
CHANGER LA CELL-PHI.



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

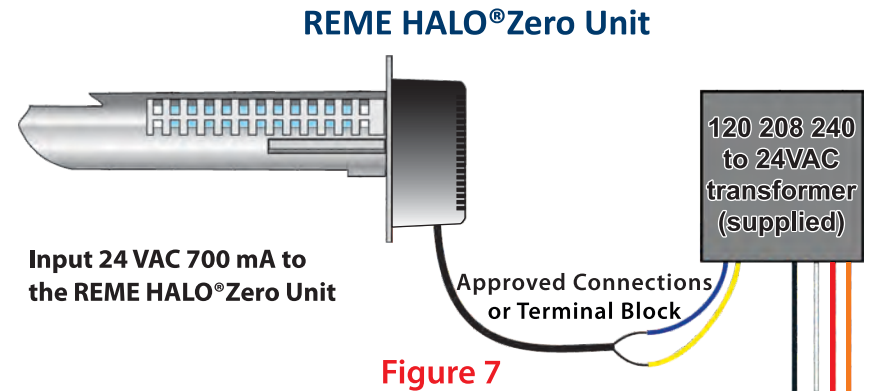


- Once housing and cell are free from mounting plate, grasp cell and turn counterclockwise while pushing down to release cell from housing.

### 3b. Electrical Connection (Secondary Transformer)

- 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.

**All wire connections must be made within the provided enclosure using wire-nuts or insulation tape with appropriate voltage ratings. Unused wires must be individually capped off.**



**Figure 7**

### REFER TO WIRING DIAGRAM ON TRANSFORMER

**THIS EQUIPMENT MUST ONLY BE INSTALLED BY A QUALIFIED INSTALLER. CET EQUIPEMENT DOIT ETRE INSTALLE UNIQUEMENT PAR UN INSTALLATEUR QUALIFIE.**

**CAUTION: ENSURE THAT THE CERTIFIED CLASS 2 24V TRANSFORMER PROVIDES AT LEAST 700mA FOR EACH UNIT INSTALLED ON THE CIRCUIT.**

**ATTENTION: ASSUREZ-VOUS QUE LE TRANSFORMATEUR 24V FOURNIT AU MOINS 700MA A CHAQUE APPAREIL INSTALLE SUR LE CIRCUIT.**

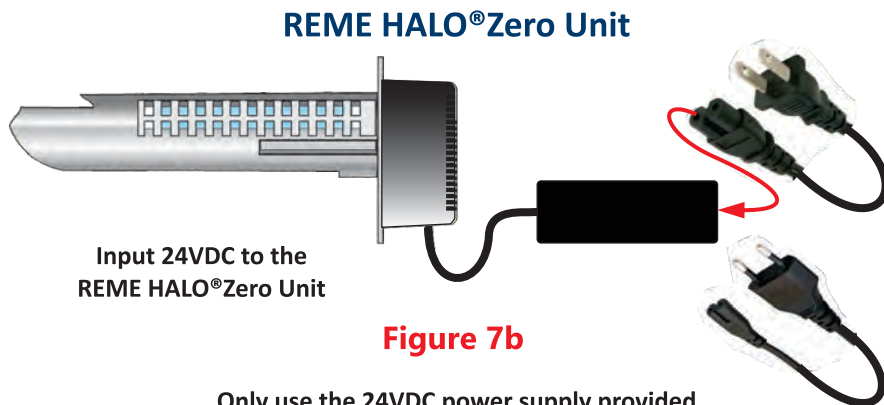
**IF MULTIPLE UNITS ARE INSTALLED ON A LARGER CAPACITY 24V TRANSFORMER THE INSTALLER MUST PROVIDE AN ADEQUATE ENCLOSURE AS PER LOCAL CODES AND REGULATIONS.**

**SI PLUSIEURS APPAREILS SONT INSTALLES SUR UN TRANSFORMATEUR 24 V DE PLUS GRANDE CAPACITE, L'INSTALLATEUR DOIT FOURNIR UN ENCEINTE ADEQUATE CONFORMEMENT AUX CODES ET REGLEMENTS LOCAUX.**



### 3c. Optional Electrical Connection: (For Installation using 24VDC Power Supply)

- RGF® recommends for optimal performance and maximum cell life that the REME HALO®Zero product line operates continuously.
- REME HALO®Zero may be connected to the optional 24VDC power supply. This power supply runs universally from 100-240VAC 50/60Hz. For international installations the power cord may be replaced with approved cords having the appropriate regional plug. (International cords may be purchased at RGF that are approved for this adapter). Refer to **Figure 7b**. All units must be plugged into outlets fully accessible to disconnect for servicing and maintenance. Only use the 24VDC power supply included with the unit. Do not use if the power supply or appliance is damaged.



Only use the 24VDC power supply provided.  
Utilisez uniquement l'alimentation 24VDC fournie.

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

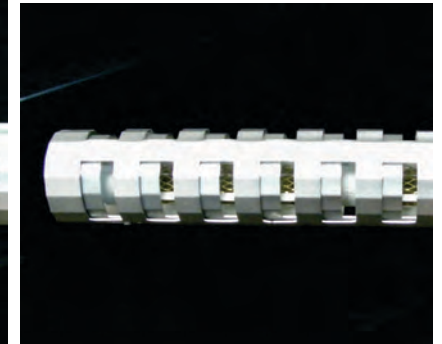
**THIS EQUIPMENT MUST ONLY BE INSTALLED BY A QUALIFIED INSTALLER.  
CET EQUIPEMENT DOIT ETRE INSTALLE UNIQUEMENT PAR UN  
INSTALLATEUR QUALIFIE.**

### REME HALO®Zero Output Adjustment

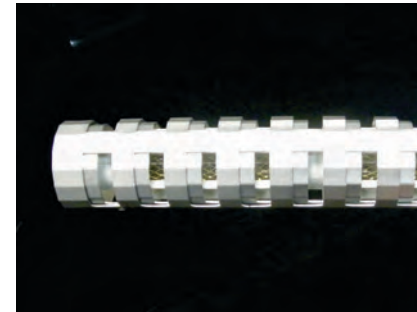
REME HALO®Zero has a unique feature which allows the adjustment of the hydrogen peroxide output by way of an adjustable shroud built into the REME HALO®Zero Cell. By sliding the shroud apertures open or closed, the REME HALO®Zero can be custom adjusted to the needs of a specific area.



800 - 1,000 CFM fully closed



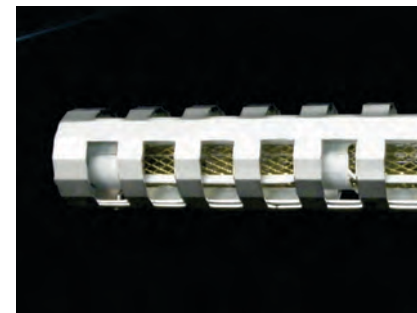
1,000 - 1,200 CFM 1/4 open



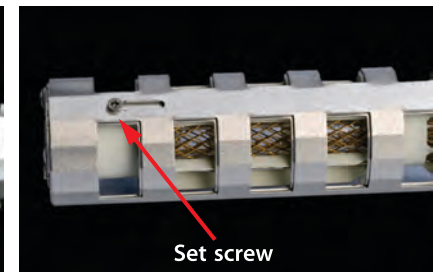
1,200 - 1,600 CFM 1/2 open



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



2,000 - 2,400 CFM fully open



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