

RGF REME-H-24

RGF REME HALO In-Duct Air Purifier System

Model: REME-H-24

1. PRODUCT OVERVIEW

The RGF REME HALO (24 Volt) In-Duct Air Purifier System is designed to improve indoor air quality by actively purifying the air within your HVAC system. This advanced IAQ (Indoor Air Quality) ionizer utilizes RGF's proprietary REME (Reflective Electro Magnetic Energy) technology to produce ionized hydro-peroxides, which are distributed throughout the conditioned space.

Key features include:

- **Genuine OEM Component:** Ensures compatibility and reliable performance.
- **Enhanced Catalyst with Zinc:** Features a new catalyst designed for faster kill rates of airborne contaminants.
- **Tool-Free Cell Replacement:** Designed for easier and faster maintenance with no special tools required for cell replacement.
- **Adjustable & Increased Ionized Hydro-Peroxide Output:** Allows for customization of purification levels to suit specific indoor environments.



Figure 1.1: The RGF REME HALO unit shown above its product packaging. The unit features a metallic cylindrical body with internal components visible, and a black mounting plate. The packaging displays the "REME HALO" logo and "RGF" branding.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installation, operation, or maintenance of the RGF REME HALO system. Failure to follow these instructions may result in electric shock, fire, property damage, or personal injury.

- **Professional Installation Recommended:** Installation of this device involves working with electrical wiring and HVAC ductwork. It is highly recommended that installation be performed by a qualified HVAC technician or a licensed electrician with experience in HVAC systems.
- **Power Disconnection:** Always disconnect power to the HVAC system at the main breaker or fuse box before performing any installation, maintenance, or troubleshooting. Verify power is off using a voltmeter.
- **Electrical Requirements:** The unit operates on 24 Volts. Ensure the power source matches the unit's requirements. Do not connect to higher voltage supplies.
- **Ventilation:** Ensure adequate ventilation during and after installation.

- **Component Handling:** Handle the unit and its components with care. Avoid touching the internal lamp or catalyst directly with bare hands, as oils can reduce effectiveness.
- **Keep Away from Water:** Do not expose the unit to water or excessive moisture.
- **Children and Pets:** Keep the installation area clear of children and pets.

3. SETUP AND INSTALLATION

The RGF REME HALO system is designed for in-duct installation within your existing HVAC system. Proper placement and wiring are crucial for optimal performance.

3.1. Pre-Installation Checklist

- Ensure HVAC system power is OFF at the breaker.
- Confirm you have the necessary tools: drill, hole saw (approx. 3-4 inches), screwdriver, wire strippers, voltmeter, foil tape (if needed).
- Identify a suitable location in the supply plenum of your HVAC system, after the air handler/furnace and before any branching ducts.

3.2. Installation Steps

1. **Select Location:** Choose a flat section of the supply plenum for mounting. Ensure there is sufficient clearance for the unit and future cell replacement.
2. **Drill Hole:** Using a hole saw of appropriate size (typically 3-4 inches), drill a clean hole through the ductwork at the selected location.
3. **Mount Unit:** Insert the REME HALO unit into the drilled hole. Secure the mounting plate to the ductwork using self-tapping screws (not included, typically). Ensure a tight seal; use foil tape around the edges if necessary to prevent air leaks.
4. **Wire Transformer:** Connect the included 24V wired transformer to a constant 24V power source within your HVAC system (e.g., from the furnace control board). Follow the color coding for wires as indicated on the transformer.
5. **Connect Unit to Transformer:** Connect the wires from the REME HALO unit to the 24V transformer. Ensure all electrical connections are secure and insulated.
6. **Adjust Output (Optional):** The unit may have an adjustable output shroud. Set it to the desired level. A wider opening typically means higher output.
7. **Restore Power:** Once all connections are secure and verified, restore power to the HVAC system. The unit should illuminate, indicating operation.

Note: Refer to the detailed wiring diagram provided with your specific unit for precise electrical connections.

4. OPERATING INSTRUCTIONS

The RGF REME HALO system operates automatically once installed and powered. It is designed to work in conjunction with your HVAC system to continuously purify the air.

- **Continuous Operation:** For optimal air purification, it is recommended to configure the unit to run continuously, independent of the furnace fan cycle. This ensures constant air treatment.
- **Fan-Dependent Operation:** The unit can also be wired to operate only when the HVAC system's fan is running. However, if the fan cycles frequently, this may reduce the overall purification effect.
- **Hydro-Peroxide Output:** The unit generates ionized hydro-peroxides, which are distributed through the ductwork into your living spaces. These oxidizers actively neutralize pollutants in the air and on surfaces.

- **Odor Reduction:** You may notice a reduction in odors within your home as the system begins to purify the air. The presence of a very faint, clean scent is normal.

5. MAINTENANCE

Regular maintenance ensures the continued effectiveness and longevity of your RGF REME HALO system. The primary maintenance task is the replacement of the REME cell.

5.1. REME Cell Replacement

- The REME cell has a finite lifespan and requires periodic replacement to maintain purification performance. The typical lifespan is approximately 2-3 years, but this can vary based on usage.
- **Tool-Free Replacement:** The REME HALO is designed for easy, tool-free cell replacement.
- **Replacement Procedure:**
 1. **Disconnect Power:** Always turn off power to the HVAC system at the breaker before attempting cell replacement.
 2. **Remove Old Cell:** Follow the instructions provided with your replacement cell for specific removal steps. Generally, this involves twisting or unlatching the old cell from the unit.
 3. **Install New Cell:** Insert the new REME cell into the unit, ensuring it clicks securely into place.
 4. **Restore Power:** Turn power back on to the HVAC system. The unit should resume normal operation.
- **Genuine Replacement Parts:** Use only genuine RGF replacement cells to ensure compatibility and optimal performance.

5.2. General Inspection

- Periodically inspect the unit for any visible damage or loose connections.
- Ensure the area around the unit in the ductwork remains clear of obstructions.

6. TROUBLESHOOTING

If your RGF REME HALO system is not operating as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Unit not turning on / No light from cell	No power to the unit. Loose electrical connections. Faulty REME cell. Faulty transformer.	Check HVAC system power at the breaker. Verify 24V power supply to the transformer and unit using a voltmeter. Inspect all wiring connections for tightness. If power is present and connections are good, the REME cell may need replacement. If the transformer is not outputting 24V, it may be faulty and require replacement.
Unit turns on briefly then off	Failing REME cell. Intermittent power supply.	Replace the REME cell. Check power supply for stability. Consult an electrician if power fluctuations are suspected.

Problem	Possible Cause	Solution
Reduced air purification effect / Odors persist	REME cell nearing end of life.	Consider replacing the REME cell if it's been in use for an extended period.
	Incorrect output setting.	Ensure the adjustable output shroud is set to an appropriate level (e.g., fully open for maximum output).
	Unit not running continuously.	Verify the unit is wired for continuous operation, if desired.
	Severe underlying odor source.	Address any significant sources of odor or contamination in the home (e.g., mold, pet accidents).

If troubleshooting steps do not resolve the issue, contact a qualified HVAC technician or RGF customer support for assistance.

7. SPECIFICATIONS

Feature	Detail
Model Number	REME-H-24
Manufacturer	RGF
Product Dimensions	17 x 11 x 11 inches
Weight	Approximately 0.01 ounces (Note: This weight seems incorrect from the source, likely a typo for the shipping weight or a component. Actual unit weight is typically higher.)
Voltage	24 Volt AC (with included transformer)
Technology	REME (Reflective Electro Magnetic Energy) with Ionized Hydro-Peroxide Output
Cell Replacement	Tool-free, periodic replacement required

8. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the documentation included with your purchase or contact RGF Environmental Group directly. Warranty terms typically cover manufacturing defects for a specified period. For technical support, replacement parts, or service inquiries, please contact your authorized RGF dealer or the RGF customer service department. When contacting support, please have your product model number (REME-H-24) and purchase date available.

RGF Environmental Group, Inc.

(Contact information such as phone number or website can typically be found on the manufacturer's official website or product packaging.)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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