Clean Air is Life

LET US HELP PROTECT YOURS.
REME HALO® Whole Home or Building Air Purification System

The REME HALO® utilizes RGF’s patented REME® Cell technology with UV-C light to create low level, airborne hydrogen peroxide throughout the air-conditioned space reducing airborne and surface bacteria, viruses, odors, and mold.

The REME HALO® in-duct air purifier actively reduces pollutants at the source ensuring excellent indoor air quality.
Why use RGF’s REME HALO®?

The REME HALO® utilizes RGF’s patented REME® Cell technology to recreate nature’s process of purifying the air. When installed into the existing air conditioning or heating system air ducts, the REME HALO® produces airborne Hydrogen Peroxide that is distributed through the HVAC system and into the conditioned living space. Unlike passive air technologies, which need pollutants to pass through the unit for purification or filtration, the REME HALO® actively purifies pollutants at the source. The ion generators are used to restore the natural levels of ions in the conditioned space, reducing airborne particulate such as pollen, dust, and smoke. This is done to accelerate the agglomeration of the airborne particles making them easier to capture in filters. The combination of Photohydroionization® and ionization in the REME HALO® provides the most advanced means for inactivating all types of air and surface microbial hazards and reducing airborne particulates.

REME HALO® Whole Home or Building Air Purification System

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>REPLACEMENT CELL</th>
<th>ELECTRICAL</th>
<th>DIMENSIONS</th>
<th>SHIP WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>REME-H</td>
<td>PHIC-RH</td>
<td>24 VAC/DC</td>
<td>13.80&quot;L x 6.50&quot;W x 7.40&quot;H</td>
<td>6 lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Probe 11&quot; / Plate 6.50&quot; x 7.50&quot;</td>
<td>.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.7 Amps 17 Watts</td>
<td>350.5 mm x 165.1 mm x 188.0 mm</td>
<td>2.72 kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Probe 279.4 mm / Plate 165.1 mm x 190.5 mm</td>
<td></td>
</tr>
</tbody>
</table>

MATERIALS
Aluminum / Polymers

HVAC BLOWER SIZE
800 to 2,400 CFM (1359.2 m³/h – 4077.6 m³/h)

CELL REPLACEMENT
Recommended after 2 years

WARRANTY
5 year U.S. and Canada (1 year international)

UL 1598:2008 (3rd Edition)
CAN/CSA C22.2 No.250.0:2008
EN 60335-2-65/A1:2008

Approved for sale in California
HALO-LED™ whole home in-duct air purifier uses our revolutionary REME-LED® technology to help protect your air conditioned space. The HALO-LED™ is zero ozone certified and provides a longer product life with improved energy efficiency. Easily installed in new or existing air conditioning system ductwork, the HALO-LED™ actively reduces airborne bacteria, viruses, odors, mold and allergens ensuring excellent indoor air quality.
Why Use RGF’s REME® Technology?

The HALO-LED™ is the industry’s first LED in-duct, whole home and building air purification system that is both mercury free and zero ozone compliant. The HALO-LED™ proactively treats the air-conditioned space, reducing airborne and surface contaminants and pollutants. By combining REME-LED® UV technology along with RGF’s proven PHI-CELL® and REME® technologies, the HALO-LED™ provides revolutionary indoor air purification.

HALO-LED™ Whole Home Air Purification System

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>REPLACEMENT CELL</th>
<th>ELECTRICAL</th>
<th>DIMENSIONS</th>
<th>SHIP WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>REME-LED</td>
<td>PHIC-REME-LED</td>
<td>24 VAC/DC</td>
<td>14.25”L x 6.50”W x 7.50”H</td>
<td>6.4 lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.7 Amps 17 Watts</td>
<td>Probe 11” / Plate 6.50” x 7.50”</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>362.5 mm x 165.1 mm x 190.5 mm</td>
<td>2.90 kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Probe 279.4 mm / Plate 165.1 mm x 190.5 mm</td>
<td></td>
</tr>
</tbody>
</table>

MATERIALS
Aluminum / Polymers

HVAC BLOWER SIZE
800 to 2,400 CFM (1359.2 m³/h –4077.6 m³/h)

WARRANTY
7 years U.S. and Canada
(1 year international)

CELL REPLACEMENT
Recommended after 4.5 years

NOTICE TO INSTALLER: This unit must be wired in series with the blower to cycle on/off with the blower. This installation is required in order to be in compliance with new safety standards and to ensure maximum energy efficiency and LED module service life.
WE ARE RGF®

The Guardian Air QR+ Indoor Air Purification System

The Guardian Air QR+ in-duct air purifier utilizes RGF’s proprietary PHI-CELL® technology. Installed into the supply plenum of your existing air conditioning or heating system air ducts, the Guardian Air QR+ in-duct air purifier produces low level, airborne hydrogen peroxide molecules that are distributed by the air handler, through the duct system and into the conditioned space. Unlike passive air technologies, which need pollutants to pass through the unit for purification or filtration, the Guardian Air QR+ in-duct air purifier sweeps through the air conditioned space actively purifying pollutants at the source.
Why Use RGF’s PHI-CELL® Technology?

Photohydroionization® (PHI) is an active air treatment technology. Active air treatment is the process of reducing air and surface contaminants by recreating safe, natural levels of airborne hydrogen peroxide in occupied areas.

RGF’s patented PHI-CELL® technology combines a photocatalytic process and a multiwavelength UV source to create active air purification. The combination of UV-C light and a hydrated quad-metallic catalyst drives a reaction that produces low level, airborne hydrogen peroxide. RGF’s PHI-CELL® air treatment systems are operating safely in over four million installations globally.

Guardian Air QR+ Indoor Air Purification

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>REPLACEMENT CELL</th>
<th>ELECTRICAL</th>
<th>DIMENSIONS</th>
<th>SHIP WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>QRP-5</td>
<td>PHIC-QR5</td>
<td>24 VAC, 0.47 Amps, 11 Watts</td>
<td>5&quot; Probe / 5.5&quot; Dia. Plate</td>
<td>3 lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>127mm Probe / 139.7mm Dia. Plate</td>
<td>1.4 kg</td>
</tr>
<tr>
<td>QRP-9</td>
<td>PHIC-QR9</td>
<td>24 VAC, 0.6 Amps, 14 Watts</td>
<td>9&quot; Probe / 5.5&quot; Dia. Plate</td>
<td>3 lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>228.6mm Probe / 139.7mm Dia. Plate</td>
<td>1.4 kg</td>
</tr>
<tr>
<td>QRP-14</td>
<td>PHIC-QR14</td>
<td>24 VAC, 0.7 Amps, 17 Watts</td>
<td>14&quot; Probe / 5.5&quot; Dia. Plate</td>
<td>4 lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>355.6mm Probe / 139.7mm Dia. Plate</td>
<td>1.8 kg</td>
</tr>
</tbody>
</table>

MATERIALS
Aluminum / Polymers

HVAC BLOWER SIZE
300 – 18,000 CFM (509.7 m³/h – 30582.19 m³/h)

CELL REPLACEMENT
Recommended after 2 years

WARRANTY
5 year U.S. and Canada
(1 year international)
The PHI-PKG™
Air Purification System

The PHI-PKG™ package unit uses RGF’s patented Photohydroionization® (PHI-CELL®) technology to reduce airborne and surface bacteria, viruses, odors, and mold.

PHI-PKG™ package units are designed specifically for use in residential and commercial applications. They utilize adjustable magnetic feet with vibration dampers to attach without fasteners to the HVAC blower unit or PKG-Rack™ System, making installation fast and simple. PHI-PKG™ package units are available with 5”, 9”, and 14” PHI-CELLS®.
Why Use RGF’s PHI-CELL® Technology?

Photohydroionization® (PHI) is an active air treatment technology. Active air treatment is the process of reducing air and surface contaminants by recreating safe, natural levels of airborne hydrogen peroxide in occupied areas.

RGF’s patented PHI-CELL® technology combines a photocatalytic process and a multiwavelength UV source to create active air purification. The combination of UV-C light and a hydrated quad-metallic catalyst drives a reaction that produces low level, airborne hydrogen peroxide. RGF’s PHI-CELL® air treatment systems are operating safely in over four million installations globally.

PKG-Rack™ Systems

RGF’s new PKG-Rack™ systems are often used for commercial installations where several PHI-PKG™ package units are required. Multiple package units are quickly and easily installed using the PKG-Rack™ system*. PKG-Rack™ systems provide convenient installation for up to 32 PHI-PKG™ units.

Racking the PHI-PKG™ package units offers customers the ability to add active air purification to the largest commercial air handlers. See PKG-Rack™ specification sheet for more information.

* Unistrut not supplied
* PKG-Rack™ Part #: CUV-PPS-Kit

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>HVAC BLOWER SIZE</th>
<th>TONNAGE</th>
<th>AMPS</th>
<th>DIMENSIONS</th>
<th>SHIP WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI-PKG5-24V</td>
<td>250 - 1,200 CFM</td>
<td>Up to 3.5 ton</td>
<td>0.48</td>
<td>2.25” W x 10.5” L x 1.75” D</td>
<td>1 lb. 0.45 kg</td>
</tr>
<tr>
<td>PHI-PKG9-24V</td>
<td>1,200 - 3,000 CFM</td>
<td>3.5 to 7.5 ton</td>
<td>0.70</td>
<td>2.25” W x 13.5” L x 1.75” D</td>
<td>1 lb. 0.45 kg</td>
</tr>
<tr>
<td>PHI-PKG14-24V</td>
<td>3,000 - 8,000 CFM</td>
<td>7.5 and 20 ton</td>
<td>0.70</td>
<td>2.25” W x 18.5” L x 1.75” D</td>
<td>2 lbs. 0.90 kg</td>
</tr>
</tbody>
</table>

MATERIALS
Aluminum housing

PHI-CELL® REPLACEMENT
Recommended after 2 years

WARRANTY
2 years U.S. and Canada
(1 year international)

HYDROGEN PEROXIDE DISTRIBUTION
Distributed through HVAC duct work

INSTALLATION
Installed in the HVAC supply

ELECTRICAL
24 VAC

UL 1598:2008 (3rd Edition)
CAN/CSA C22.2
No.250.0-2008

TO LEARN MORE, VISIT: RGF.COM
The BLU QR® UV Stick Light

Keeping your HVAC coils clean from mold and mildew growth is easy with RGF’s patented, high quality BLU QR® UV stick light! The BLU QR® features our exclusive quick-release lamp, which requires no tools for the lamp replacement. It comes standard with four easy-to-install mounting options right in the box, including the magnetic mount, through panel mount, bracket mount and direct mount.
Why use RGF’s BLU QR®?

The patented BLU QR® economically provides UV light disinfection and protection to the AC coil surfaces from mold and mildew growth. This results in a cleaner and more efficient energy-saving system. Available with 1 or 2 year lamp options.

BLU QR® UV Stick Light mounting options

<table>
<thead>
<tr>
<th>MATERIALS</th>
<th>ELECTRICAL</th>
<th>DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum / Polymers</td>
<td>24 VAC 0.65 Amps 15 Watts</td>
<td>18”L x 3”W x 3”H</td>
</tr>
<tr>
<td></td>
<td></td>
<td>457.2 mm x 76.2 mm x 76.2 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>REPLACEMENT CELL</th>
<th>CELL REPLACEMENT</th>
<th>WARRANTY</th>
<th>SHIP WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLU-QR</td>
<td>BQR+141Y</td>
<td>Recommended after 1 year</td>
<td>1 year U.S. and Canada (1 year international)</td>
<td>1 lbs 0.45 kg</td>
</tr>
<tr>
<td>BLU-QR2</td>
<td>BQR+142Y</td>
<td>Recommended after 2 years</td>
<td>2 year U.S. and Canada (1 year international)</td>
<td></td>
</tr>
</tbody>
</table>
The RGFClear Sky™ Self-Cleaning Ion Generator

The RGFClear Sky™ continuous self-cleaning ion generator was developed to reduce airborne particulate inside the air-conditioned living space. The charged ions created by the RGFClear Sky™ help agglomerate fine airborne particulate like dust and allergens into larger particles that are more easily filtered by the air conditioning system.
RGFClear Sky™ Self-Cleaning Ion Generator

**MODEL** | **TONNAGE** | **DIMENSIONS** | **ELECTRICAL** | **SHIP WT.**
--- | --- | --- | --- | ---
CLEAR SKY-MS (Mini-split) | Air-flows from standard mini-split units | 7"L x 3.5"W x 1.5"H<br>177.8 mm x 88.9 mm x 38.1 mm | 100-277 VAC | 1 lbs.<br>0.45 kg.
CLEAR SKY-DM (Duct mount) | Up to 6 tons | 7"L x 4"W x 2.75"H<br>177.8 mm x 101.6 mm x 69.85 mm | 24 VAC | 1 lbs.<br>0.45 kg.

**WARRANTY**
4 year U.S. and Canada<br>(1 year international)

The PIP-MAX™ Portable Air Purification System

The PIP-MAX™ portable air purification system utilizes RGF’s patented REME-HALO® technology reducing airborne and surface bacteria, viruses, odors, and mold. Plugging directly into the existing wall outlet, the PIP-MAX™ can be installed in any room and offers an additional power outlet on the unit housing. Quickly and reliably resolve all your air quality issues with the portable PIP-MAX™ active air purification system.

Ideal for use in:

- Classrooms
- Daycares
- Conference Rooms
- Restaurants
- Bathrooms
- Boats
- Hotels
- Offices

UV-C Light
H₂O₂
Pre-Filter
CFM
Ionization

To learn more, visit: RGF.com
Why Use RGF’s REME-HALO® Technology?

The PIP-MAX™ utilizes RGF’s patented REME-HALO® active air treatment technology to substantially reduce airborne and surface bacteria, viruses, odors, mold and VOCs (chemical odors). Active air treatment is the process of reducing air and surface contaminants by recreating and distributing safe, natural levels of hydrogen peroxide in occupied areas. The ion generators are used to restore the natural levels of ions in the conditioned space, reducing airborne particulate such as pollen, dust, and smoke. This is done to accelerate the agglomeration of the airborne particles making them easier to capture in filters.

PIP-MAX™ Portable Air Purification System

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>REPLACEMENT CELL</th>
<th>ELECTRICAL</th>
<th>WATTS</th>
<th>DIMENSIONS</th>
<th>SHIP WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIP-MAX</td>
<td>PHIC-PIP-GA-MAX</td>
<td>120 VAC</td>
<td>50</td>
<td>6.25”L x 3.75”D x 10”H</td>
<td>2 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>158.8mm x 95.3mm x 254mm</td>
<td>0.9 kg.</td>
</tr>
</tbody>
</table>

MATERIALS
Aluminum / Polymers

COVERAGE
Up to 800 ft² (75 m²)

PHI-CELL® REPLACEMENT
Recommended after 2 years

REPLACEMENT PRE-FILTER
FL-PIP-01

WARRANTY
2 years U.S. and Canada
(1 year international)

UL 867:2011
CAN/CSA C22.2
No.187-M1986
Approved for sale in California

RGF®
ENVIRONMENTAL GROUP, INC.
TO LEARN MORE, VISIT: RGF.COM
The PHI-MSP™ Mini Split Air Purification System

The PHI-MSP™ mini split air purification system uses RGF’s patented Photohydroionization® (PHI-CELL®) technology to reduce airborne and surface bacteria, viruses, odors, and mold spores.

The PHI-MSP™ is easily mounted onto mini split AC units without modification by using hook-and-loop adhesive strips. The PHI-MSP™ installs into any 100-277 VAC power supply.
**Why Use RGF’s PHI-CELL® Technology?**

Photohydroionization® (PHI) is an active air treatment technology. Active air treatment is the process of reducing air and surface contaminants by recreating safe, natural levels of airborne hydrogen peroxide in occupied areas.

**PHI-MSP™ Mini Split Air Purification System**

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>REPLACEMENT CELL</th>
<th>ELECTRICAL</th>
<th>WATTS</th>
<th>DIMENSIONS</th>
<th>SHIP WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINI SPLIT-HVAC-PHI-110</td>
<td>PHIC-5MS-GA</td>
<td>110 VAC</td>
<td>13.2</td>
<td>30&quot;W x 1.25&quot;H x 2.5&quot;D</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>MINI SPLIT-HVAC-PHI-230</td>
<td>PHIC-5MS-GA</td>
<td>230 VAC</td>
<td>9</td>
<td>762mm x 31.8mm x 63.5mm</td>
<td>1.36 kg.</td>
</tr>
</tbody>
</table>

**MATERIALS**
Aluminum / Polymers

**HVAC BLOWER SIZE**
250 – 2,000 CFM (424.75 m³/h – 3398.02 m³/h)

**CELL REPLACEMENT**
Recommended after 2 years

**WARRANTY**
2 year U.S. and Canada (1 year international)

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**TO LEARN MORE, VISIT:** [RGF.COM](http://RGF.COM)
The PHI-PTAC™ Air Purification System

The PHI-PTAC™ air purification system uses RGF’s patented Photohydroionization® (PHI-CELL®) technology to reduce airborne and surface bacteria, viruses, odors, and mold spores. It is specifically designed for Packaged Terminal Air Conditioning (PTAC) units. The PHI-PTAC™ is easily mounted into a PTAC system without modification.

Ideal for use in:

- CLASSROOMS
- DAYCARES
- CONFERENCE ROOMS
- RESTAURANTS
- HOTELS
- BOATS
- LOCKER ROOMS
- OFFICES

TO LEARN MORE, VISIT: RGF.COM
Why Use RGF’s PHI-CELL® Technology?

Photohydroionization® (PHI) is an active air treatment technology. Active air treatment is the process of reducing air and surface contaminants by recreating safe, natural levels of airborne hydrogen peroxide in occupied areas.

PHI-PTAC™ Air Purification System

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>REPLACEMENT CELL</th>
<th>ELECTRICAL</th>
<th>WATTS</th>
<th>DIMENSIONS</th>
<th>SHIP WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNV-PTAC</td>
<td>PHI-5GA</td>
<td>220 VAC</td>
<td>9</td>
<td>8”W x 3”H x 3”D</td>
<td>1 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>203.2mm x 76.2mm x 76.2mm</td>
<td>0.45 kg.</td>
</tr>
</tbody>
</table>

MATERIALS
Aluminum / Polymers

HVAC BLOWER SIZE
250 – 500 CFM (424.75 m³/h – 849.51 m³/h)

CELL REPLACEMENT
Recommended after 2 years

WARRANTY
2 year U.S. and Canada (1 year international)
The AVID AIR™ Air Purification System

The AVID AIR™ wall mount air purification system provides efficient airborne and surface bacteria, viruses, odors, and mold reduction. The AVID AIR™ unit mounts flush into a wall or ceiling providing an effective, concealed and tamper-proof air purifier for commercial applications.

Ideal for use in:

- Classrooms
- Daycares
- Conference Rooms
- Restaurants
- Bathrooms
- Hotels
- Locker Rooms
- Offices

UV-C Light  H₂O₂  Pre-Filter  CFM

WE ARE RGF®

TO LEARN MORE, VISIT: RGF.COM
**Why Use RGF’s PHI-CELL® Technology?**

The AVID AIR™ utilizes RGF’s patented Photohydroionization® (PHI-CELL®) technology to substantially reduce airborne and surface bacteria, viruses, odors, mold and VOCs (chemical odors).

Photohydroionization® (PHI) is an active air treatment technology. Active air treatment is the process of reducing air and surface contaminants by recreating safe, natural levels of airborne hydrogen peroxide in occupied areas.

**AVID AIR™ Air Purification System**

![AVID AIR™ Air Purification System Diagram]

**ITEM#** | **ELECTRICAL** | **REPLACEMENT CELL** | **DIMENSIONS** | **SHIP WT.**
---|---|---|---|---
BRU-16 | 120 VAC | PHIC-5GA-BRU | 5.25"W x 2.75"D x 16"H | 2 lbs. 0.9 kg.
BRU-25 | 220 VAC | | 133.4mm x 69.9mm x 406.4mm | |

**MATERIALS**
Aluminum / Stainless steel

**PHI-CELL® REPLACEMENT**
Recommended after 2 years

**COVERAGE**
Up to 800 ft² (75 m²)

**FAN VOLUME**
9 CFM

**WARRANTY**
1 year

Approved for sale in California
The HALO-ROVE™ Commercial Air Purification System

The HALO-ROVE™ utilizes RGF’s patented PHI-CELL® technology to substantially reduce airborne and surface bacteria, viruses, odors, and mold. Within minutes of operation, results show safe, clean air throughout the treated space.

The HALO-ROVE™ is designed as a standalone, portable active air purifier capable of treating up to 1,000 square feet.

Ideal for use in:
- Classrooms
- Daycares
- Conference Rooms
- Restaurants
- Bathrooms
- Boats
- Locker Rooms
- Offices
Why Use RGF’s PHI-CELL® Technology?

The HALO-ROVE™ utilizes RGF’s patented Photohydroionization® (PHI-CELL®) technology to substantially reduce airborne and surface bacteria, viruses, odors, mold and VOCs (chemical odors).

Photohydroionization® (PHI) is an active air treatment technology. Active air treatment is the process of reducing air and surface contaminants by recreating safe, natural levels of airborne hydrogen peroxide in occupied areas.

HALO-ROVE™ Commercial Air Purification System

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>REPLACEMENT CELL</th>
<th>ELECTRICAL</th>
<th>WATTS</th>
<th>DIMENSIONS</th>
<th>SHIP WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HROVE-12</td>
<td>PHIC-CAPS-CMTR</td>
<td>12 VDC</td>
<td>13</td>
<td>18”W x 6.25”H x 6.25”D</td>
<td>5 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100-240 VAC switching power supply</td>
<td></td>
<td>457.2mm x 158.8mm x 158.8mm</td>
<td>2.27 kg.</td>
</tr>
</tbody>
</table>

MATERIALS
Stainless steel housing

PHI-CELL® REPLACEMENT
Recommended after 2 years

COVERAGE
Up to 1,000 ft² (93 m²)

WARRANTY
1 year

UL STD 507
CSA STD C22.2

TO LEARN MORE, VISIT: RGF.COM
The Rapid Recovery Unit® Air Purification and Odor Control System

RGF’s Rapid Recovery Unit® (RRU) is the ideal decontamination solution to resolve microbial and odor issues of various types and can be used to rapidly and effectively treat many problem areas. Hotels, cruise ships, property management companies and HVAC contractors have taken a proactive approach in utilizing the RRU to disinfect and mitigate odors in areas of concern.
Why Use RGF’s PHI-CELL® Technology?

Photohydroionization® (PHI) is an active air treatment technology. Active air treatment is the process of reducing air and surface contaminants by recreating safe, natural levels of airborne hydrogen peroxide in occupied areas.

The Rapid Recovery Unit® Air Purification and Odor Control System
(DS option pictured below)

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>REPLACEMENT CELL</th>
<th>ELECTRICAL</th>
<th>WATTS</th>
<th>DIMENSIONS</th>
<th>SHIP WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRU-16</td>
<td>PHIC-9A</td>
<td>110 VAC</td>
<td>110</td>
<td>26&quot;L x 13&quot;W x 15&quot;H</td>
<td>12 lbs.</td>
</tr>
<tr>
<td>RRU-16-DS</td>
<td></td>
<td></td>
<td></td>
<td>660.4mm x 330.2mm x 381mm</td>
<td>5.44 kg.</td>
</tr>
<tr>
<td>(International)</td>
<td></td>
<td></td>
<td></td>
<td>(DS option: Hose 2&quot;Dia. x 8&quot;)</td>
<td>(DS option: 14 lbs. 6.35 kg.)</td>
</tr>
<tr>
<td>RRU-25</td>
<td>PHIC-9A</td>
<td>220 VAC</td>
<td>105</td>
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<tr>
<td>RRU-25-DS</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**MATERIALS**
Stainless steel

**FAN VOLUME**
88 CFM (149.51 m³/h)

**CELL REPLACEMENT**
Recommended after 2 years

**WARRANTY**
2 year U.S. and Canada
(1 year international)
The PHI-CML™ Commercial Air Purification System

The PHI-CML™ Commercial air purification units by RGF are designed for installation within commercial and industrial HVAC systems. PHI-CML™ systems utilize RGF’s PHI-CELL® technology and are designed to cover HVAC systems ranging from 125 tons to 250 tons. Each PHI-CML™ system is delivered fully assembled for easy installation in the supply plenum providing continuous air purification to reduce airborne and surface bacteria, viruses, odors, and mold within the air conditioned space.
**Why Use RGF’s PHI–CELL® Technology?**

The PHI-CML™ utilizes RGF’s patented Photohydroionization® (PHI-CELL®) technology to substantially reduce airborne and surface bacteria, viruses, odors, mold and VOCs (chemical odors).

Photohydroionization® (PHI) is an active air treatment technology. Active air treatment is the process of reducing air and surface contaminants by recreating safe, natural levels of airborne hydrogen peroxide in occupied areas.

**PHI–CML™ Commercial Air Purification System**

### ENGINEERED TO FIT SPECIFIC CFM APPLICATIONS IN LARGE COMMERCIAL AND INDUSTRIAL ENVIRONMENTS

<table>
<thead>
<tr>
<th>ITEM#</th>
<th># OF 35° CELLS</th>
<th># OF 14° CELLS</th>
<th>CFM COVERAGE</th>
<th>TONNAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CML-125</td>
<td>2</td>
<td>0</td>
<td>50,000</td>
<td>125</td>
</tr>
<tr>
<td>CML-140</td>
<td>1</td>
<td>3</td>
<td>54,000</td>
<td>140</td>
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<tr>
<td>CML-150</td>
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<td>1</td>
<td>60,000</td>
<td>150</td>
</tr>
<tr>
<td>CML-180</td>
<td>2</td>
<td>2</td>
<td>70,000</td>
<td>180</td>
</tr>
<tr>
<td>CML-190</td>
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<td>0</td>
<td>75,000</td>
<td>190</td>
</tr>
<tr>
<td>CML-215</td>
<td>3</td>
<td>1</td>
<td>85,000</td>
<td>215</td>
</tr>
<tr>
<td>CML-250</td>
<td>4</td>
<td>0</td>
<td>100,000</td>
<td>250</td>
</tr>
</tbody>
</table>
Installed on commercial and industrial HVAC coils to reduce microbial growth, Lucidium® CUV reduces HVAC maintenance and improves operational efficiency by as much as 30%. Lucidium® CUV is easily fitted to new or existing HVAC systems and when designed accordingly can substantially improve indoor air quality.

Lucidium® CUV systems are easily configured to fit any HVAC coil by incorporating a variety of germicidal UV-C lamp sizes in combination with easy-to-fit rack system and power supply.
Why Use RGF’s Lucidium® CUV

RGF engineers will design a Lucidium® CUV system for your HVAC project using a variety of high output germicidal UV-C lamp lengths, with reflectors as standard, to ensure total coverage of the HVAC coil. Installation is simple using our flexible rack systems, NEMA 4X power supplies, multiple mounting options and reliable safety accessories.

RGF Environmental is the only manufacturer of germicidal UV-C lamp systems that performs in-house testing to ASHRAE 185.2 standard. The 185.2 Standard established a uniform test method for measuring the intensity of ultraviolet lamps under typical HVAC operating conditions.

Testing germicidal UV-C systems to ASHRAE 185.2 is important to ensure the performance of UV-C lamps and establish the validity of energy calculations or models commonly used throughout the air quality industry. Based on our testing, the energy output of a UV-C lamp can vary by over 50% from specifications depending on the installation location, temperature range, lamp design, airflow, and relative humidity, within an HVAC system.

WARRANTY
1 year on the system, 2 years on the lamps

LAMP REPLACEMENT
Recommended after 2 years
The Element Air® Tower
Air Purification System

As air passes through a REME/PHI oxidation chamber, high-intensity UV light rays are targeted on a quad-metallic compound, destroying airborne microbes. No chemical residue or dangerous compounds are emitted from the system. The system can reduce levels of airborne microbes and odors by up to 99%. Airborne contaminants in the form of bacteria, mold, and yeast continue to be one of the least addressed issues in most facilities. The unit was designed for grow house applications and does not emit any visible light, allowing the unit to run 24/7.
# Element Air® Tower Air Purification System

![Element Air Tower Air Purification System](image)

Free standing and wall mount available

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>TREATMENT AREA</th>
<th>ELECTRICAL</th>
<th>DIMENSIONS</th>
<th>SHIP WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-T-WM-G2</td>
<td>12,000 ft³</td>
<td>110 VAC 50/60Hz 2.36 Amps 255 Watts</td>
<td>18&quot;W x 20&quot;D x 78&quot;H 457.2 mm x 508 mm x 1981.2 mm</td>
<td>70 lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>31.75 kg</td>
</tr>
</tbody>
</table>

- **Materials**: Anodized Aluminum
- **Airflow**: 700 cfm (1189.31 m³/h)
- **Replacement Cells**: EAT-RC-KIT (4)
- **Warranty**: 1 year

CAN/CSA C22.2 No. 60335-1:2016
CAN/CSA C22.2 No. 250.0:2008
UL 1598:2008-09
EN 60335-1:2012/A15:2017

To learn more, visit: RGF.COM
The Element Air® Wall Mount Air Purification System

As air passes through a REME/PHI oxidation chamber, high-intensity UV light rays are targeted on a quad-metallic compound, destroying airborne microbes. No chemical residue or dangerous compounds are emitted from the system. The system can reduce levels of airborne microbes and odors by up to 99%. Airborne contaminants in the form of bacteria, mold, and yeast continue to be one of the least addressed issues in most facilities. The unit was designed for grow house applications and does not emit any visible light, allowing the unit to run 24/7.
## Element Air® Wall Mount Air Purification System

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>TREATMENT AREA</th>
<th>ELECTRICAL</th>
<th>DIMENSIONS</th>
<th>SHIP WT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-D9-WM</td>
<td>2,400 ft³</td>
<td>12 VDC 100-240 VAC switching power supply</td>
<td>6.5&quot;W x 6.5&quot;D x 29&quot;H</td>
<td>10 lbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.64 Amps 37 Watts</td>
<td>165.1 mm x 165.1 mm x 736.6 mm</td>
<td>4.5 kg</td>
</tr>
</tbody>
</table>

**MATERIALS**
Anodized Aluminum

**AIRFLOW**
138 cfm (234.46 m³/h)

**REPLACEMENT CELLS**
EAWM-9-RC (2)

**WARRANTY**
1 year

**Element Air® Wall Mount Air Purification System**

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**To learn more, visit:** [RGF.com](http://www.RGF.com)
The pandemic of SARS-CoV-2/COVID-19 has challenged the public health community and technology providers to identify strategies for control of the virus in homes, offices, restaurants, and health care environments. In response to the pandemic, RGF Environmental with its long history as a manufacturer of indoor air quality (IAQ) devices sought to demonstrate the effectiveness of its patented Photohydroionization® technology (PHI-CELL®) for controlling SARS-CoV-2 in at-risk environments.

Over the years, the company has invested in extensive research to validate the safety and efficacy of the IAQ devices it manufactures. These studies have included the inactivation of numerous pathogens, including viruses, bacteria, yeasts, and mold. Our research partners have included the US Centers for Disease Control and Prevention, The US Environmental Protection Agency, The US Air Force, The Midwest Research Institute and Kansas State University.

In 2020, RGF initiated a targeted research program in which the REME-HALO®, PHI-PKG™ and the HALO-LED™ were evaluated for the inactivation of the SARS-CoV-2 virus and a recognized surrogate MS2.

The first series of studies were conducted at Innovative Bioanalysis, an independent laboratory located in Cypress, CA. The laboratory was engaged to perform a series of tests designed to determine the effectiveness of RGF’s REME-HALO® and a PHI-PKG™ device. The devices use RGF’s REME® Cell and PHI-CELL® that convert water vapor to airborne molecules of Hydrogen Peroxide. The levels of Hydrogen Peroxide are very low, and the devices are designed to treat occupied spaces. These tests were designed to measure reductions of SARS-CoV-2 on surfaces and in air. This laboratory was selected because it had access to the actual SARS-CoV-2 virus and the ability to nebulize the virus into a large test chamber (1,280 cubic ft).

The results of these tests showed that both the REME-HALO® and the PHI-PKG™ devices reduced the level of the virus by more than 99% after subtracting the natural decay associated with the controls. These Innovative Bioanalysis studies show that both RGF devices had a substantial impact on the viability of the virus.

RGF has also developed an IAQ device based on LED UV-C technology – the HALO-LED™. In recent testing conducted at the internationally recognized Intertek Microbiology Laboratory in Columbus, OH, the HALO-LED™ reduced MS2 bacteriophage, the preferred surrogate for SARS CoV-2 by >99%. This study is significant because it validates the effectiveness of a revolutionary new REME-LED™ cell that is both mercury free and verified zero ozone in compliance with UL-2998.

RGF Environmental is committed to the principle that “Clean Air is Life”. For more than 30 years, we have manufactured safe and effective IAQ devices that reduce the risks of airborne microbial contaminants, including SARS-CoV-2. We will continue our efforts to develop innovative IAQ devices and conduct scientific research with leading government, private and academic laboratories to provide documentation on the safety and efficacy of our products.

James Marsden, Ph.D.
Executive Director – Science & Technology
RGF Environmental Group Inc.
RGF® Environmental Group, Inc. manufactures over 500 environmental products and has a 37+ year history of providing the world with the safest air, water and food without the use of chemicals. RGF is an ISO 9001:2015 certified research and innovation company, holding numerous patents for wastewater treatment systems, air purifying devices, and food sanitation systems. Situated in the heart of the Port of Palm Beach Enterprise Zone, RGF Headquarters span 10 acres, with 200,000 square feet of manufacturing, warehouse and office facilities. RGF’s Lakeland, FL facility adds over 40,000 square feet for back-up production and lamp production. RGF continues to upgrade its facilities, creating an increased vertical approach to manufacturing, further allowing the company to provide the highest quality and best-engineered products on the market.

About RGF Environmental Group, Inc.

TO LEARN MORE, VISIT: RGF.COM