

# Clean Air is Life

LET US HELP PROTECT YOURS.



By **RGF**

WE ARE RGF®

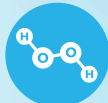
## The REME-HALO® Total Indoor Air Purification System

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.



UV-C LIGHT



H<sub>2</sub>O<sub>2</sub>



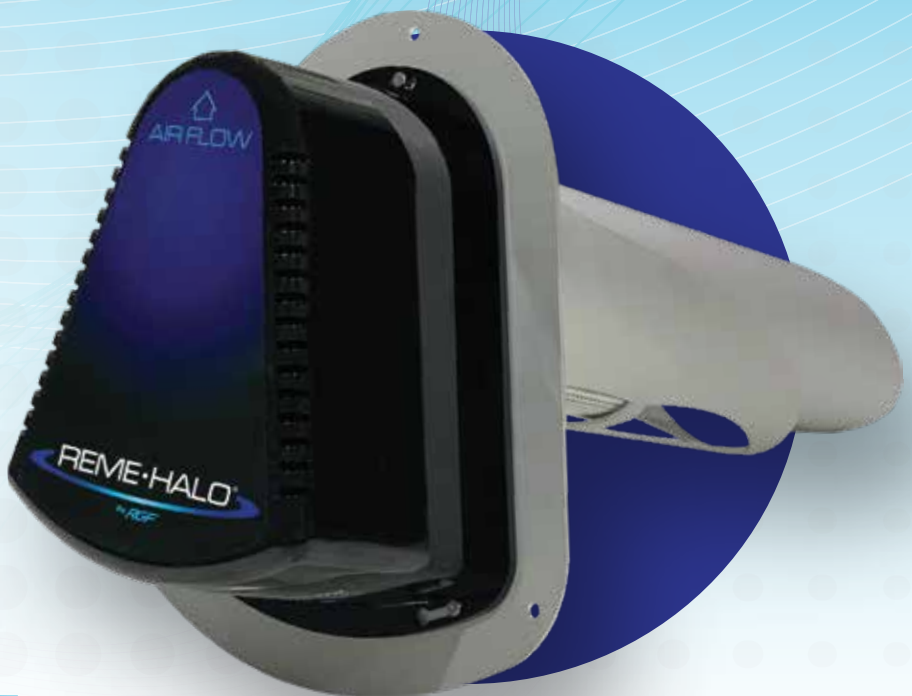
WHOLE  
HOME



TOOLLESS



IONIZATION



**RGF**  
ENVIRONMENTAL GROUP, INC.

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## 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® Total Indoor Air Purification



ITEM#	REPLACEMENT CELL	ELECTRICAL	DIMENSIONS	SHIP WT.
REME-H	PHIC-RH	24 VAC/DC	13.80"L x 6.50"W x 7.40"H Probe 11" / Plate 6.50" x 7.50"	6 lbs
		0.7 Amps 17 Watts	350.5 mm x 165.1 mm x 188.0 mm Probe 279.4 mm / Plate 165.1 mm x 190.5 mm	2.72 kg

### MATERIALS

Aluminum / Polymers

### HVAC BLOWER SIZE

1000 – 6500 CFM (1699.01 m<sup>3</sup>/h – 11043.57 m<sup>3</sup>/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



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## The HALO-LED™ Whole Home Air Purification System

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.



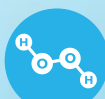
LED UV



LONG LIFE  
CELL



HYBRID  
CATALYST



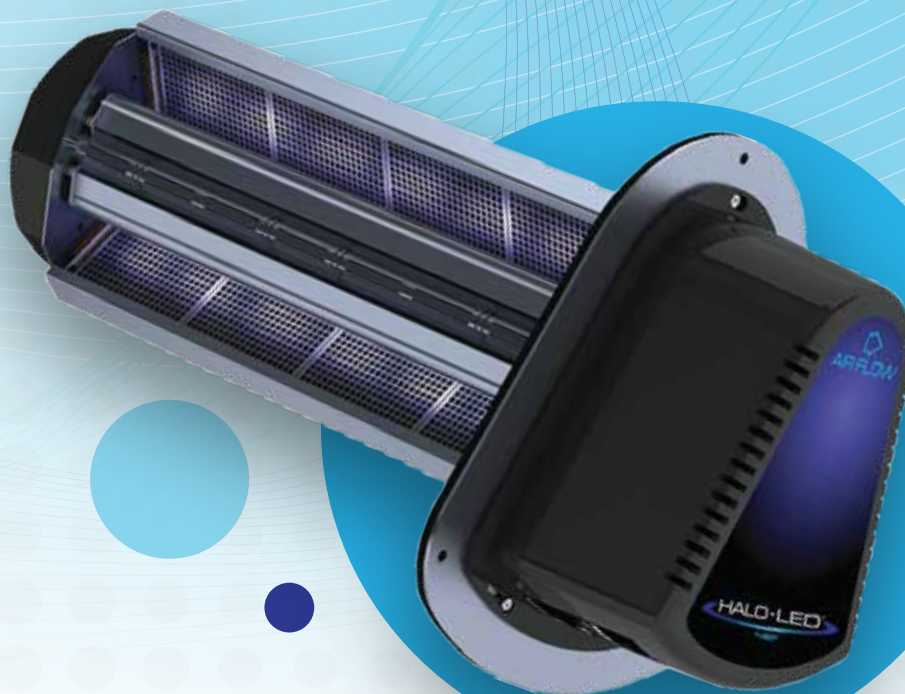
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ZERO  
OZONE



WHOLE  
HOME



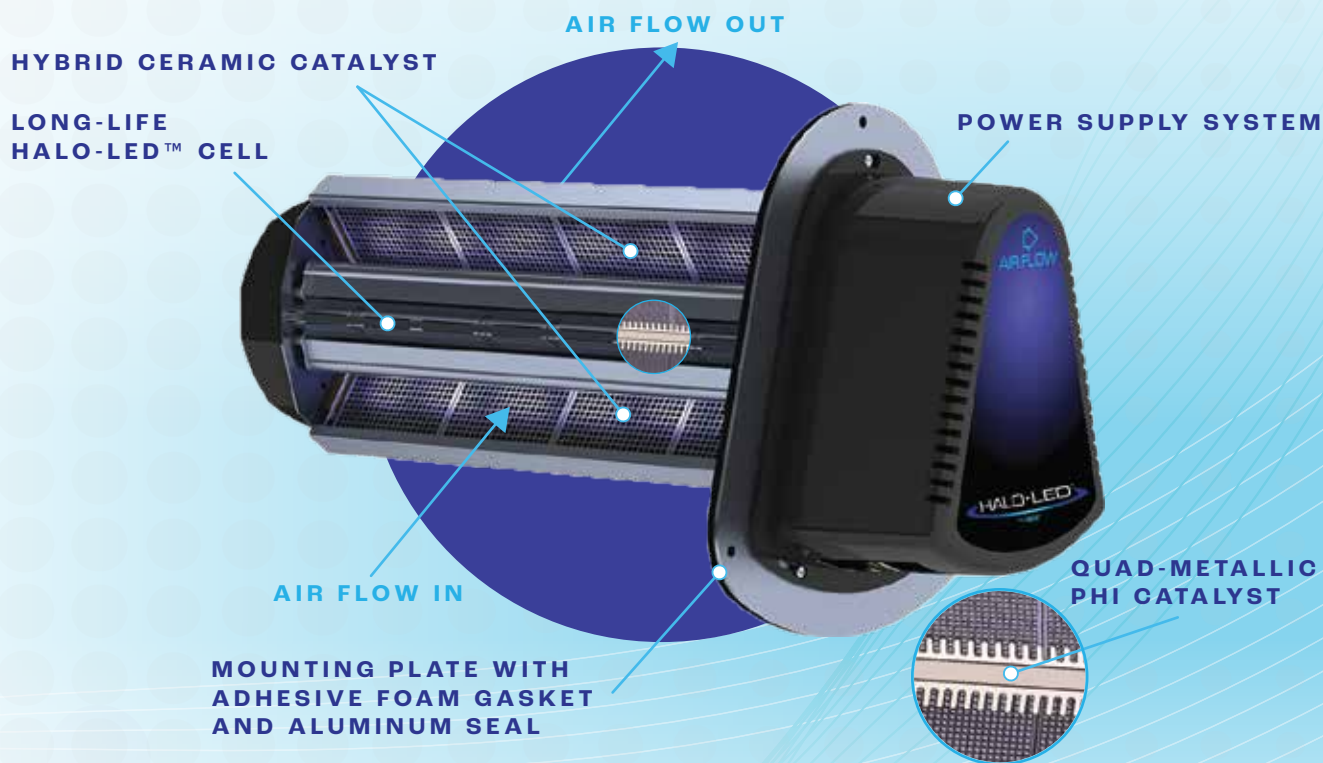
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## Why Use RGF's REME® Technology?

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 every cubic inch of 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



**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.

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

### MATERIALS

Aluminum / Polymers

### WARRANTY

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

### HVAC BLOWER SIZE

250 – 6500 CFM (424.75 m³/h – 11043.57 m³/h)

### CELL REPLACEMENT

Recommended after 4.5 years



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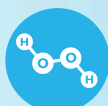
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# The Guardian Air QR+ Indoor Air Purification System

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.



UV-C LIGHT



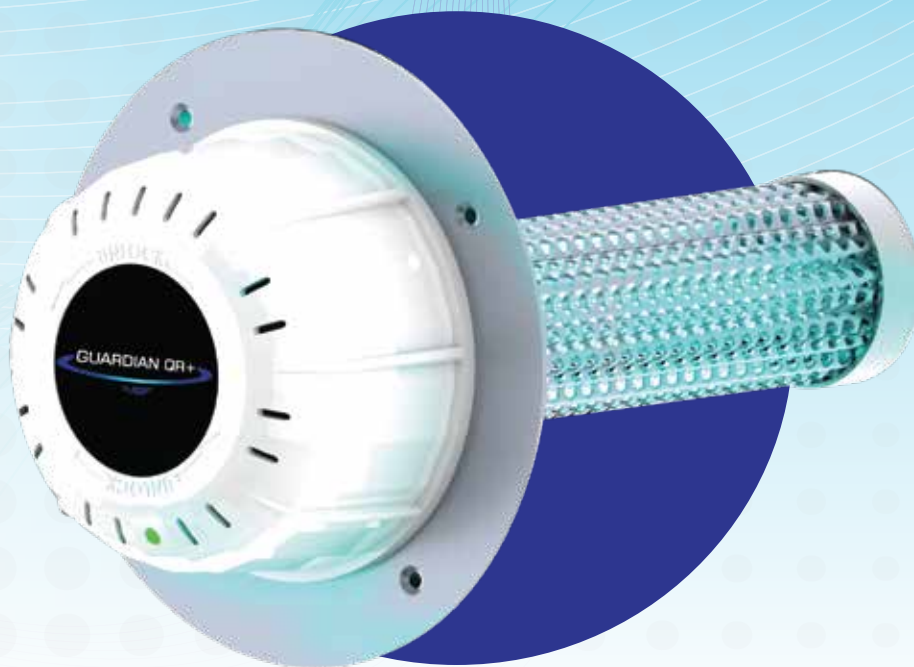
H<sub>2</sub>O<sub>2</sub>



WHOLE  
HOME



TOOLLESS



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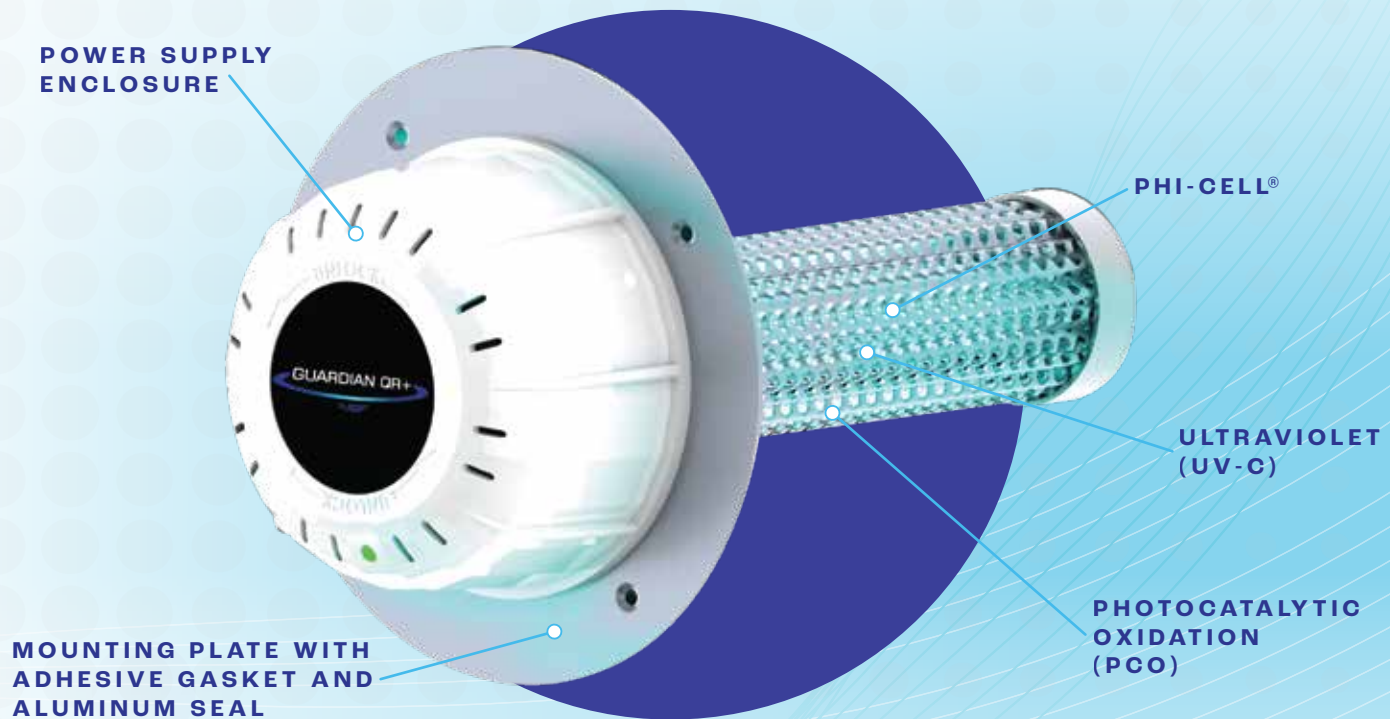


## Why Use RGF's PHI-CELL® Technology?

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



ITEM#	REPLACEMENT CELL	ELECTRICAL	DIMENSIONS	SHIP WT.
QRP-5	PHIC-QR5	24 VAC, 0.47 Amps, 11 Watts	5" Probe / 5.5" Dia. Plate 127mm Probe / 139.7mm Dia. Plate	3 lbs 1.4 kg
QRP-9	PHIC-QR9	24 VAC, 0.6 Amps, 14 Watts	9" Probe / 5.5" Dia. Plate 228.6mm Probe / 139.7mm Dia. Plate	3 lbs 1.4 kg
QRP-14	PHIC-QR14	24 VAC, 0.7 Amps, 17 Watts	14" Probe / 5.5" Dia. Plate 355.6mm Probe / 139.7mm Dia. Plate	4 lbs 1.8 kg

### 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)



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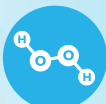
## The PHI-PKG™ Air Purification System

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®



UV-C LIGHT



H<sub>2</sub>O<sub>2</sub>



MAGNETIC

### Ideal for use in:



SCHOOLS



RESTAURANTS



OFFICES



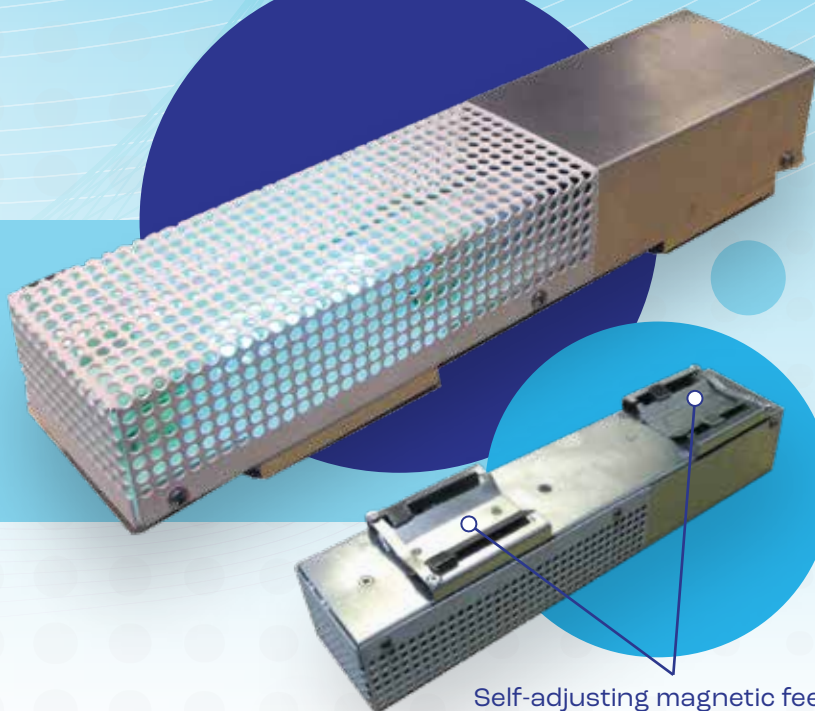
HOMES



ROOF TOP  
HVAC UNITS



HOTELS



Self-adjusting magnetic feet  
with vibration dampeners



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## 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.

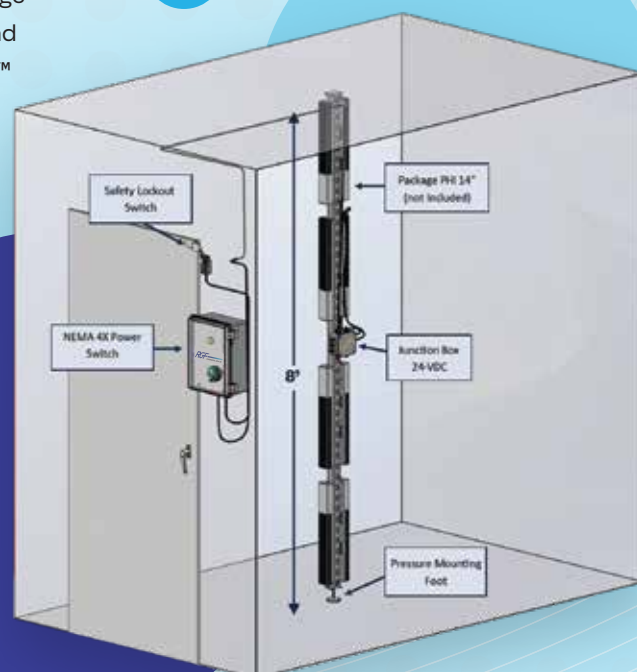
## PKG-Rack™ Systems

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



ITEM#	HVAC BLOWER SIZE	TONNAGE	AMPS	DIMENSIONS	SHIP WT.
PHI-PKG5-24V	250 - 1,200 CFM 424.7527 m³/h - 2038.813 m³/h	Up to 3.5 ton	0.48	2.25" W x 10.5" L x 1.75" D 57.15 mm x 266.7 mm x 44.45 mm	1 lb. 0.45 kg
PHI-PKG9-24V	1,200 - 3,000 CFM 2038.81 m³/h - 5097.03 m³/h	3.5 to 7.5 ton	0.70	2.25" W x 13.5" L x 1.75" D 57.15 mm x 342.9 mm x 44.45 mm	1 lb. 0.45 kg
PHI-PKG14-24V	3,000 - 8,000 CFM 5097.03 m³/h - 13592.09 m³/h	7.5 and 20 ton	0.70	2.25" W x 18.5" L x 1.75" D 57.15 mm x 469.9 mm x 44.45 mm	2 lbs. 0.90 kg

### 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



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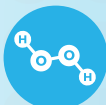
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## The BLU QR® UV Stick Light

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.



UV-C LIGHT



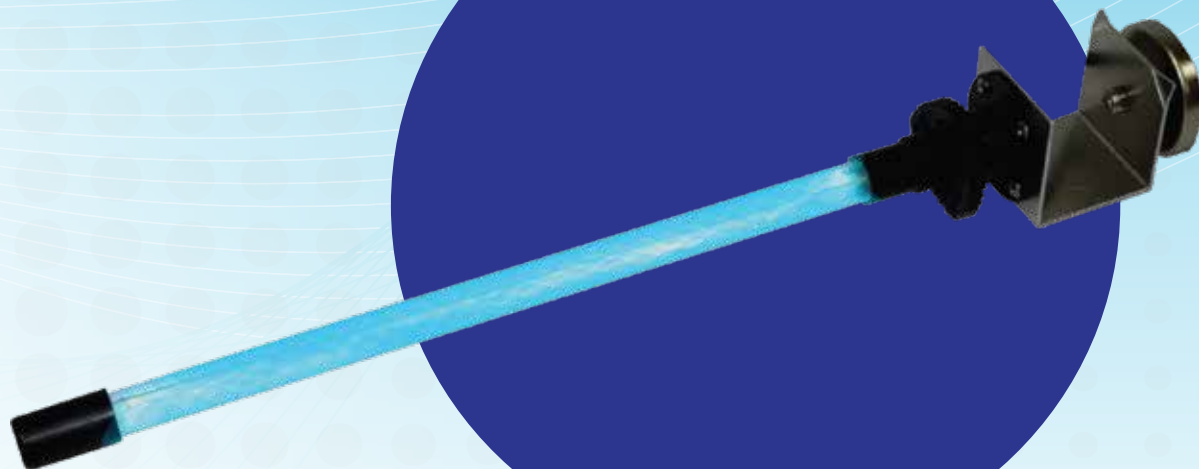
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TOOLLESS



MAGNETIC



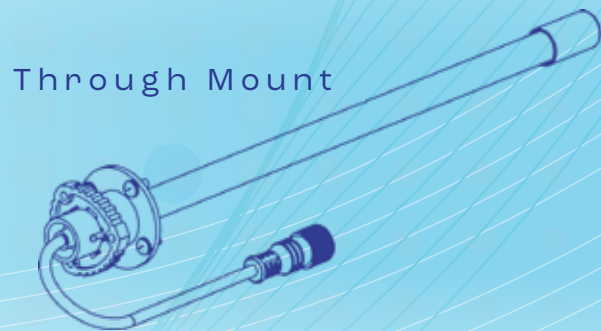
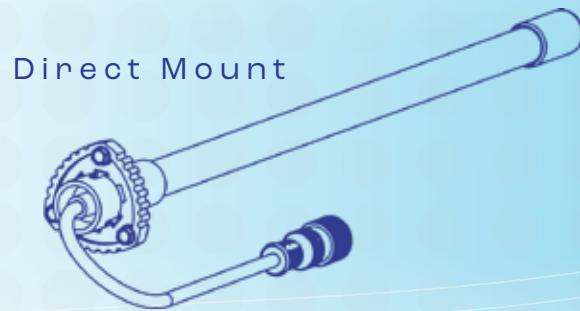
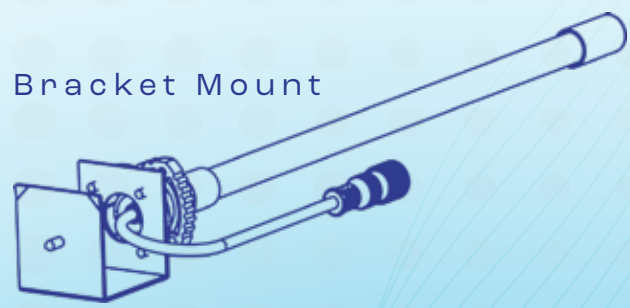
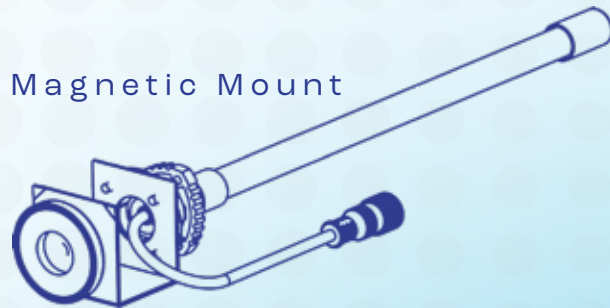
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## Why use RGF's BLU QR®?

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



ITEM#	REPLACEMENT CELL	CELL REPLACEMENT	WARRANTY	SHIP WT.
BLU-QR	BQR+141Y	Recommended after 1 year	1 year U.S. and Canada (1 year international)	1 lbs 0.45 kg
BLU-QR2	BQR+142Y	Recommended after 2 years	2 year U.S. and Canada (1 year international)	

### MATERIALS

Aluminum / Polymers

### ELECTRICAL

24 VAC 0.65 Amps 15 Watts

### DIMENSIONS

18"L x 3"W x 3"H  
457.2 mm x 76.2 mm x 76.2 mm



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## 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.



TOOLLESS



MAGNETIC



IONIZATION



CLEAR SKY-MS



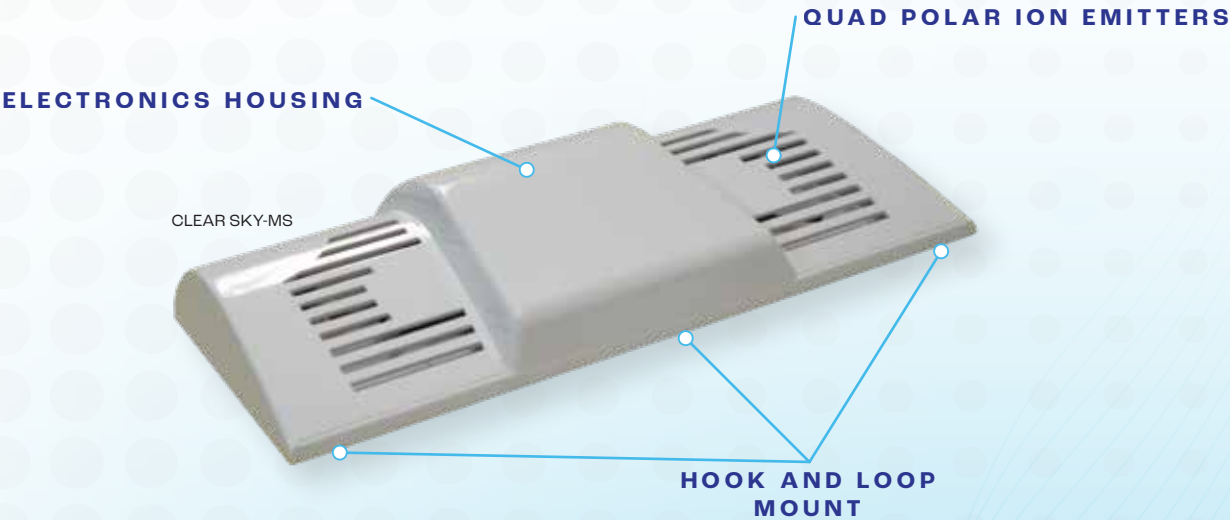
CLEAR SKY-DM



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# 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 177.8mm x 88.9 mm x 38.1mm	100-277 VAC	1 lbs. 0.45 kg.
CLEAR SKY-DM (Duct mount)	Up to 6 tons	7"L x 4"W x 2.75"H 177.8mm x 101.6 mm x 69.85mm	24 VAC	1 lbs. 0.45 kg.

## WARRANTY

4 year U.S. and Canada  
(1 year international)



UL 867:2011  
C22.2 No.187-M1986  
EN 60335-1:2012  
EN 60335-2-65:2003/A11:2012

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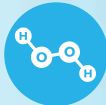
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## The PIP-MAX™ Portable Air Purification System

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.



UV-C LIGHT



H<sub>2</sub>O<sub>2</sub>



PRE-FILTER



CFM



IONIZATION

### Ideal for use in:



CLASSROOMS



DAYCARES



CONFERENCE  
ROOMS



RESTAURANTS



BATHROOMS



BOATS



HOTELS



OFFICES



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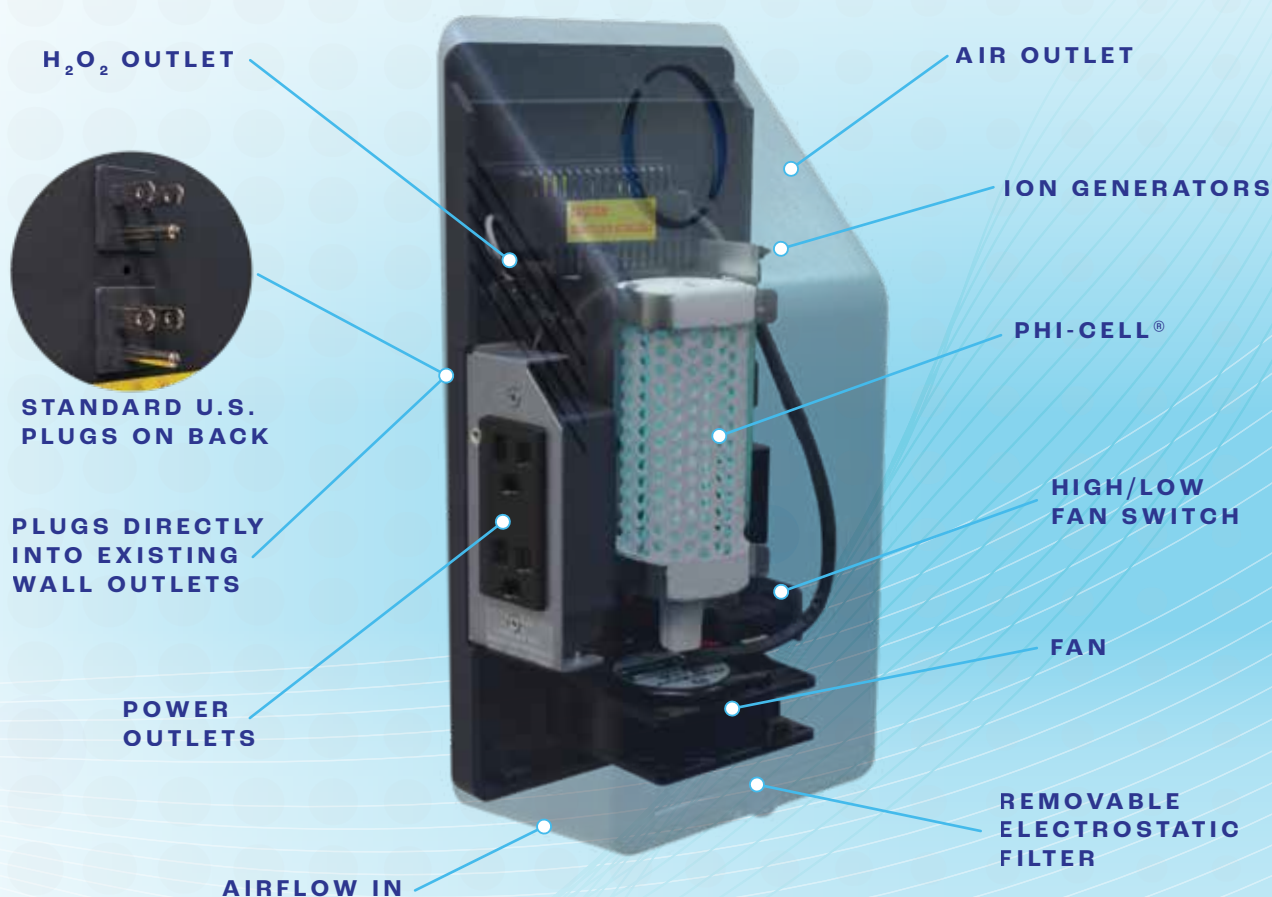
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## Why Use RGF's REME-HALO® Technology?

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



ITEM#	REPLACEMENT CELL	ELECTRICAL	WATTS	DIMENSIONS	SHIP WT.
PIP-MAX	PHIC-PIP-GA-MAX	120 VAC	50	6.25"L x 3.75"D x 10"H 158.8mm x 95.3mm x 254mm	2 lbs. 0.9 kg.

### MATERIALS

Aluminum / Polymers

### COVERAGE

Up to 800 ft<sup>2</sup> (75 m<sup>2</sup>)

### 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  
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Approved for sale in California



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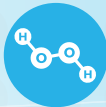
## The PHI-MSP™ Mini Split Air Purification System

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.



UV-C LIGHT



H<sub>2</sub>O<sub>2</sub>

### Ideal for use in:



HOMES



OFFICES



CONFERENCE  
ROOMS



RESTAURANTS



HOTELS



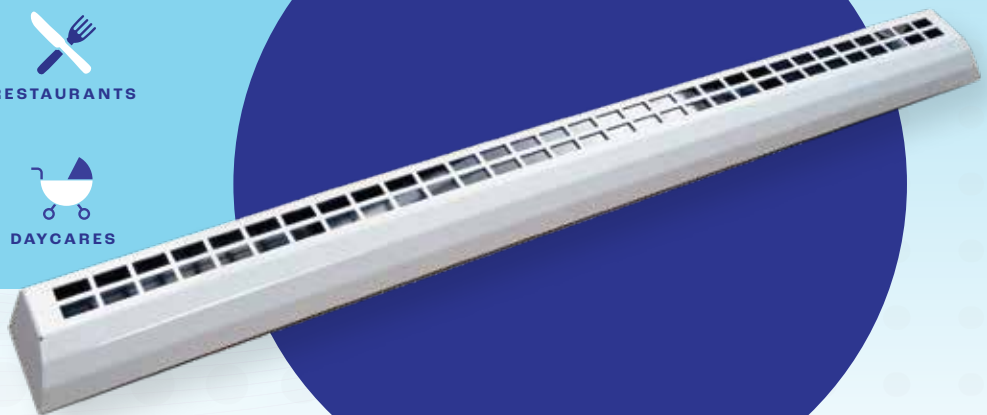
BOATS



CLASSROOMS



DAYCARES



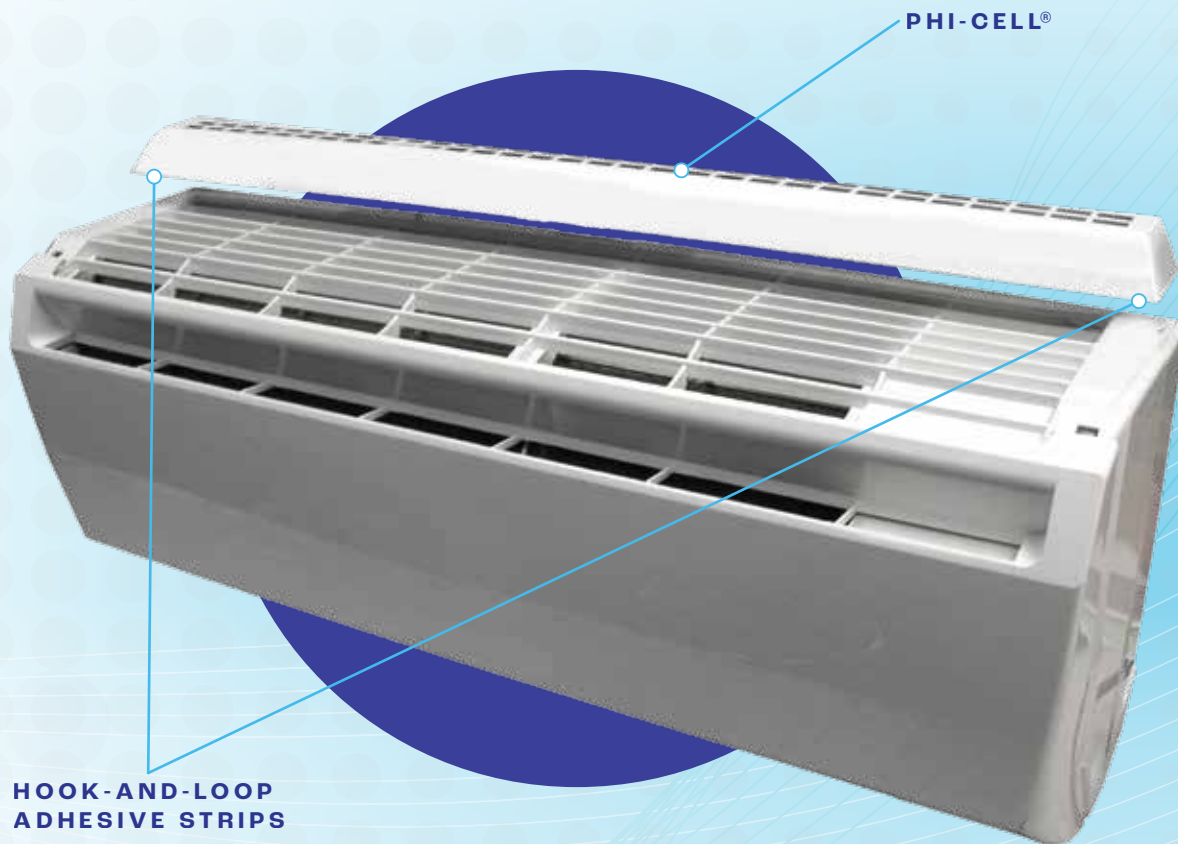
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## Why Use RGF's PHI-CELL® Technology?

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



ITEM#	REPLACEMENT CELL	ELECTRICAL	WATTS	DIMENSIONS	SHIP WT.
MINI SPLIT-HVAC-PHI-110	PHIC-5MS-GA	110 VAC	13.2	30"W x 1.25"H x 2.5"D	3 lbs.
MINI SPLIT-HVAC-PHI-230	PHIC-5MS-GA	230 VAC	9	762mm x 31.8mm x 63.5mm	1.36 kg.

### MATERIALS

Aluminum / Polymers

### HVAC BLOWER SIZE

250 – 2,000 CFM (424.75 m<sup>3</sup>/h – 3398.02 m<sup>3</sup>/h)

### CELL REPLACEMENT

Recommended after 2 years

### WARRANTY

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



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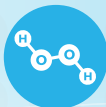
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## The PHI-PTAC™ Air Purification System

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.



UV-C LIGHT



H<sub>2</sub>O<sub>2</sub>

### Ideal for use in:



CLASSROOMS



DAYCARES



CONFERENCE  
ROOMS



RESTAURANTS



HOTELS



BOATS



LOCKER  
ROOMS



OFFICES



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# 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



ITEM#	REPLACEMENT CELL	ELECTRICAL	WATTS	DIMENSIONS	SHIP WT.
UNV-PTAC	PHIC-5GA	220 VAC	9	8"W x 3"H x 3"D 203.2mm x 76.2mm x 76.2mm	1 lbs. 0.45 kg.

### 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)



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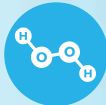
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## The AVID AIR™ Air Purification System

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.



UV-C LIGHT



H<sub>2</sub>O<sub>2</sub>



PRE-FILTER



CFM

### Ideal for use in:



CLASSROOMS



DAYCARES



CONFERENCE  
ROOMS



RESTAURANTS



BATHROOMS



HOTELS



LOCKER  
ROOMS



OFFICES



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# 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



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.
BRU-25	220 VAC		133.4mm x 69.9mm x 406.4mm	0.9 kg.

### 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



UL 507:2017    Approved for sale in California





By **RGF**

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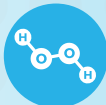
# The HALO-ROVE™ Commercial Air Purification System

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.



UV-C LIGHT



H<sub>2</sub>O<sub>2</sub>



CFM



CIRCULATION

## Ideal for use in:



CLASSROOMS



DAYCARES



CONFERENCE  
ROOMS



RESTAURANTS



BATHROOMS



BOATS



LOCKER  
ROOMS



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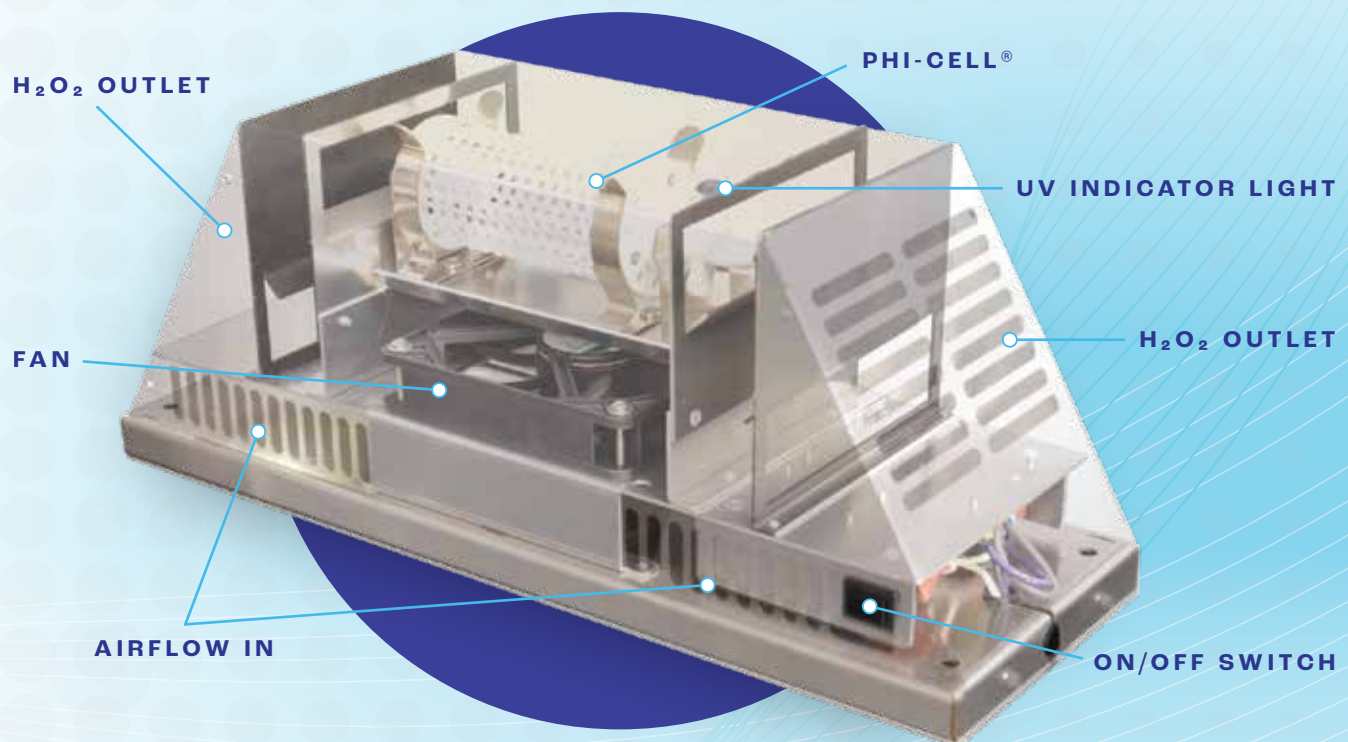
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## Why Use RGF's PHI-CELL® Technology?

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



ITEM#	REPLACEMENT CELL	ELECTRICAL	WATTS	DIMENSIONS	SHIP WT.
HROVE-12	PHIC-CAPS-CMTR	12 VDC	13	18"W x 6.25"H x 6.25"D	5 lbs.
		100-240 VAC switching power supply		457.2mm x 158.8mm x 158.8mm	2.27 kg.

### 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

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## The Microcon® BPH Whole Home HEPA Air Filtration System

The Microcon® BPH 'whole home' Bypass HEPA Air Filtration system is easily installed in your home's HVAC or air handling system. **Providing 99.97% airborne particulate reduction without impacting air flow, static pressure or unit sizing.** The Microcon® BPH air filtration system is extremely efficient for the removal of dust, pet dander, pollen and ultrafine airborne particles. This unit is recommended for areas up to 5,000 sq. ft. providing one complete air change per hour.



PRE-FILTER



HEPA



ACTIVATED  
CARBON



CFM



CIRCULATION



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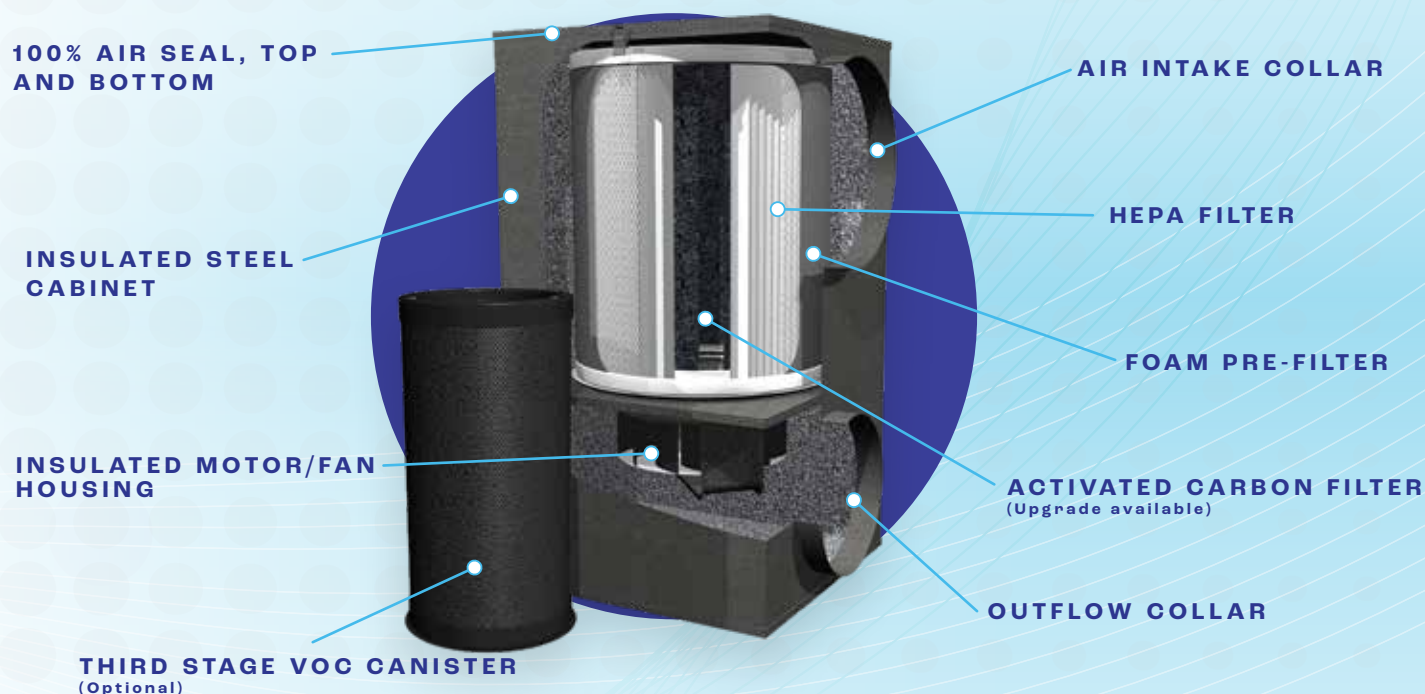
## Why Use RGF's Microcon® BPH?

The Microcon® BPH 'whole home' Bypass HEPA Air Filtration system is easily installed in your home's HVAC or air handling system. **Providing 99.97% airborne particulate reduction without impacting air flow, static pressure or unit sizing.** Installation requires no costly electrical or mechanical alterations to the HVAC system and the unique design offers HEPA grade filtration with very low power consumption.

The 3-stage filtration cartridge is contained and protected in a durable steel box. In stage-one, a foam pre-filter captures large particulate matter. In the second stage, the HEPA filter traps more of the harmful and irritating particulate like pet dander, pollen, smoke and other ultrafine airborne particles. An optional third stage, activated carbon filter adsorbs chemical or gas-based pollutants.

The filters are easy to access and change. Once locked into place, the filter is completely sealed, ensuring that no polluted air escapes from the box. The baked thermostat powder finish on the box itself provides a durable, long-lasting housing that will not off-gas chemicals, providing truly clean air to the surrounding environment.

## Microcon® BPH Whole Home HEPA Air Filtration System



MODEL	COVERAGE*	AIRFLOW	INTAKE	OUTFLOW	ELECTRICAL	SHIP WT.
MC-350	2,625 ft <sup>2</sup> 243.87 m <sup>2</sup>	350 cfm 594.65 m <sup>3</sup> /h	8"	6"	120V, 1.0 Amps, 125 Watts 220V, .34 Amps, 75 Watts	30 lbs. 13.60 kg.
MC-675	5,000 ft <sup>2</sup> 464.52 m <sup>2</sup>	675 cfm 1146.83 m <sup>3</sup> /h	10"	8"	120V, 1.8 Amps, 225 Watts 220V, .7 Amps, 150 Watts	33 lbs. 14.97 kg.

\* Based on one air change per hour

### DIMENSIONS

14.5"W x 27.5"H x 14.5"D  
368.3mm x 698.5mm x 368.3mm

### MOTOR/FAN

Designed for continuous operation  
Run tested for 50,000+ hours



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WE ARE RGF®

## The Microcon® CD/PD Total Indoor Air Purification System

The Microcon® CD is a ceiling mounted, HEPA air filtration system with activated carbon and UV-C germicidal light specifically designed for the removal of airborne microbes, particulate, VOCs and odors in commercial spaces.

The Microcon® PD offers the same high efficiency air filtration in a robust portable housing.



Ideal for use in:



CLASSROOMS



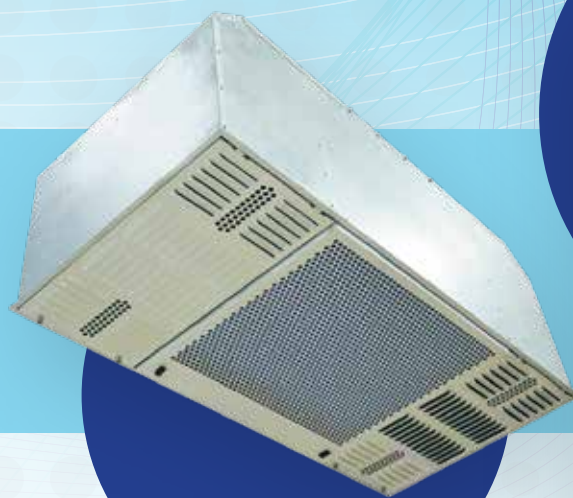
LOCKER ROOMS



RESTAURANTS



OFFICES



MICROCON® CD



MICROCON® PD



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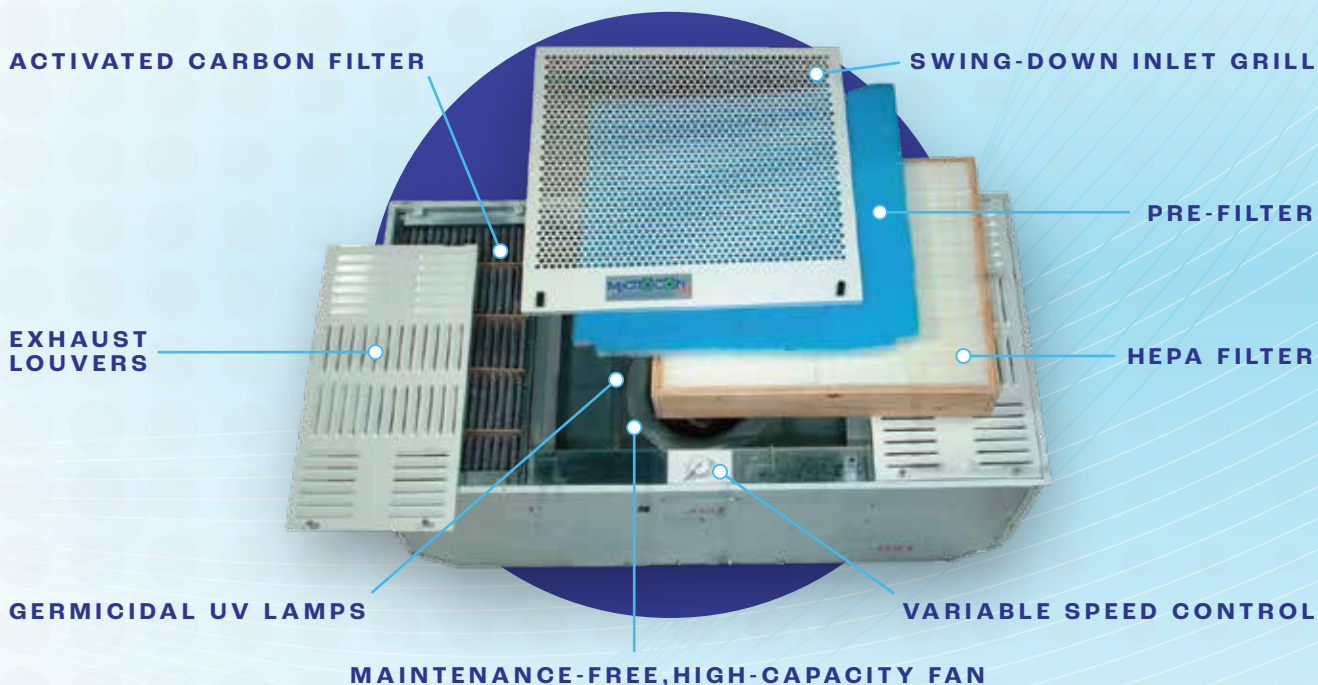
## Why Use RGF's Microcon® CD/PD Technology?

The Microcon® CD & PD units combine proven HEPA filtration with UV-C germicidal light and activated carbon to remove airborne bacteria, viruses, mold, VOCs and particulate like dust and allergens from the treated space. Either installed in the ceiling space or on wheels, the Microcon® CD/PD quietly circulates and purifies the air providing a safer, cleaner occupied space.

The Microcon® CD and PD share the same three stage progressive filter system. The first stage is a 1" synthetic pre-filter designed to capture larger size airborne particulate thereby extending the life of the HEPA filter. The secondary filter is a hospital-grade, high efficiency HEPA filter capable of removing >99% of airborne particulate in the sub-micron range. Since removal of gas phase pollutants require a different capture mechanism, a unique activated carbon composite cell is utilized as the last stage which allows for higher adsorbent loading at a lower pressure drop than comparable activated carbon cells. The germicidal UV-C lamps add another dimension to air purification.

The Microcon® CD and PD units help meet regulatory guidelines in commercial spaces for improved air circulation, HEPA air filtration and ultraviolet germicidal irradiation (UVGI), all in a single, easy to install air cleaning device.

## Microcon® CD/PD Total Indoor Air Purification System



MODEL	COLOR	FILTRATION RATE	DIMENSIONS	SHIP WT.
CD	White	Up to 800 cfm 1359.21 m³/h	46.625"W x 23.625"H x 18.5"D 1184.28mm x 600.08mm x 469.90mm	125 lbs. 56.70 kg.
PD	Gray	Up to 800 cfm 1359.21 m³/h	24"W x 50.75"H x 19.25"D 609.6mm x 1289.05mm x 488.95mm	175 lbs. 79.38 kg.

### MATERIALS

Powder Coat Steel

### AMPS

2.4/1.05

### WATTS

240

### SOUND LEVEL

50 – 55 dB on Medium Fan at 6'

### VOLTAGE

120/240 VAC @ 50/60 Hz, Single Phase



Conforms to  
UL STD 507  
Certified to  
CSA STD C22.2 NO.113

Approved for sale in California



TO LEARN MORE, VISIT: [RGF.COM](http://RGF.COM)



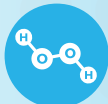
WE ARE RGF®

# 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.



UV-C LIGHT



H<sub>2</sub>O<sub>2</sub>



CFM



CIRCULATION



TOOLLESS

## Ideal for use in:



HOMES



OFFICES



CONFERENCE  
ROOMS



RESTAURANTS



HOTELS



BOATS



LOCKER  
ROOMS



CLASSROOMS



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ENVIRONMENTAL GROUP, INC.

TO LEARN MORE, VISIT: [RGF.COM](http://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.

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



ITEM#	REPLACEMENT CELL	ELECTRICAL	WATTS	DIMENSIONS	SHIP WT.
RRU-16	PHIC-9A	110 VAC	110	26"L x 13"W x 15"H 660.4mm x 330.2mm x 381mm (DS option: Hose 2"Dia. x 8'L)	12 lbs.
RRU-16-DS					5.44 kg.
(International)	PHIC-9A	220 VAC	105		(DS option:
RRU-25					14 lbs.
RRU-25-DS					6.35 kg.)

### MATERIALS

Stainless steel

### FAN VOLUME

88 CFM (149.51 m<sup>3</sup>/h)

### CELL REPLACEMENT

Recommended after 2 years

### WARRANTY

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

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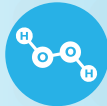
WE ARE RGF®

# 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.



UV-C LIGHT



H<sub>2</sub>O<sub>2</sub>



WHOLE  
BUILDING



**RGF**  
ENVIRONMENTAL GROUP, INC.

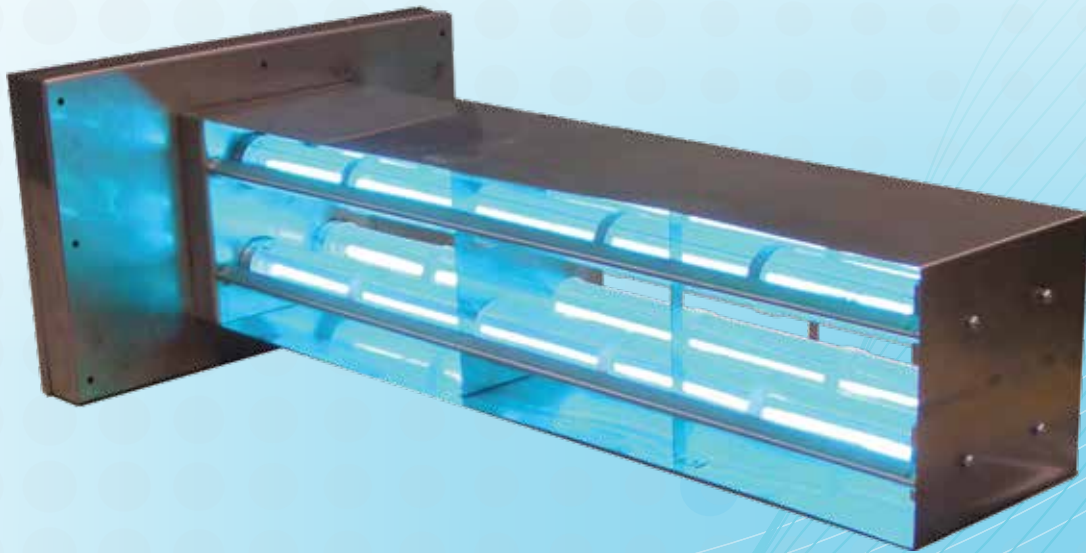
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## Why Use RGF's PHI-CELL® Technology?

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



ITEM#	ELECTRICAL	PHI-CELL® REPLACEMENT	MATERIALS	WARRANTY
CML-***	120-277 VAC, 50/60 Hz	Recommended after 2 years	Stainless steel / Polymers	1 year
ENGINEERED TO FIT SPECIFIC CFM APPLICATIONS IN LARGE COMMERCIAL AND INDUSTRIAL ENVIRONMENTS				
ITEM#	# OF 35" CELLS	# OF 14" CELLS	CFM COVERAGE	TONNAGE
CML-125	2	0	50,000	125
CML-140	1	3	54,000	140
CML-150	2	1	60,000	150
CML-180	2	2	70,000	180
CML-190	3	0	75,000	190
CML-215	3	1	85,000	215
CML-250	4	0	100,000	250



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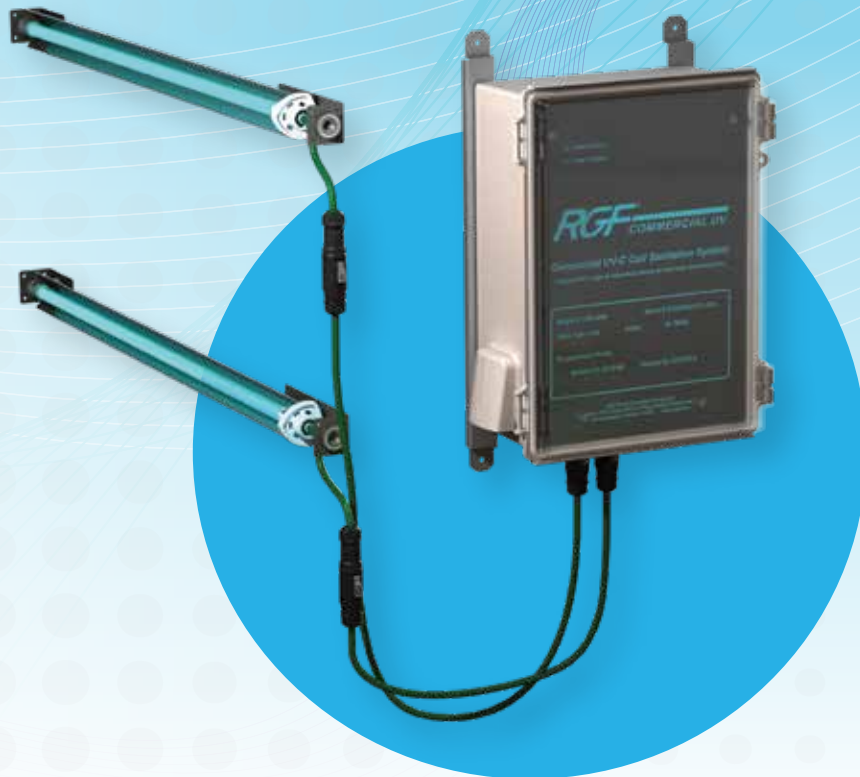
## The Lucidium® CUV HVAC Coil Maintenance

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.



UV-C LIGHT



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## 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



**For complete  
specs and  
submittals,  
please scan  
QR code.**



UL 1598:2018 Ed.4  
CAN/CSA C22.2  
No.250.0:2018

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# ELEMENT AIR TOWER

By **RGF**

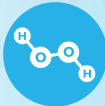
WE ARE RGF

## 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.



UV-C LIGHT



H<sub>2</sub>O<sub>2</sub>



CFM



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ENVIRONMENTAL GROUP, INC.

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## Element Air® Tower Air Purification System



Free standing and wall mount available

ITEM#	TREATMENT AREA	ELECTRICAL	DIMENSIONS	SHIP WT.
EA-T-WM-G2	12,000 ft³	110 VAC 50/60Hz 2.36 Amps 255 Watts	18"W x 20"D x 78"H 457.2 mm x 508 mm x 1981.2 mm	70 lbs 31.75 kg

### 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 60335-2-65:2003/A11:2012  
EN 60335-1:2012/A13:2017

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# ELEMENT AIR WALL MOUNT

By **RGF**

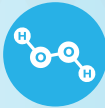
WE ARE RGF

## 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.



UV-C LIGHT



H<sub>2</sub>O<sub>2</sub>



CFM



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# Element Air® Wall Mount Air Purification System



ITEM#	TREATMENT AREA	ELECTRICAL	DIMENSIONS	SHIP WT.
EA-D9-WM	2,400 ft³	12 VDC 100-240 VAC switching power supply 0.64 Amps 37 Watts	6.5"W x 6.5"D x 29"H 165.1 mm x 165.1 mm x 736.6 mm	10 lbs 4.5 kg

**MATERIALS**

Anodized Aluminum

**AIRFLOW**

138 cfm (234.46 m³/h)

**REPLACEMENT CELLS**

EAWM-9-RC (2)

**WARRANTY**

1 year



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<sup>®</sup> technology (PHI-CELL<sup>®</sup>) 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<sup>®</sup>, PHI-PKG<sup>™</sup> and the HALO-LED<sup>™</sup> were evaluated for the inactivation of the SARS-CoV-2 virus and a recognized surrogate MS2.



Dr. James Marsden, Executive Director of Science and Technology

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<sup>®</sup> and a PHI-PKG<sup>™</sup> device. The devices use RGF's REME<sup>®</sup> Cell and PHI-CELL<sup>®</sup> 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<sup>®</sup> and the PHI-PKG<sup>™</sup> 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<sup>™</sup>. In recent testing conducted at the internationally recognized Intertek Microbiology Laboratory in Columbus, OH, the HALO-LED<sup>™</sup> 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<sup>™</sup> 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.



Scan here to view  
more test results  
from RGF.





### About 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.



AIR



WATER



FOOD



AGRICULTURE

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**HEADQUARTERS**

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