

RGAP(A,B)XX
Return Air Purifier
Size 1625

Installation and User Instructions

NOTE: Read the entire instruction manual before starting the installation.

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INTRODUCTION

Congratulations for selecting the Return Air Purifier for your home comfort system! As part of a strategy for slowing the spread of infectious disease in your home, the Return Air Purifier should be considered essential. Featuring our patented Captures & Kills® technology, the Return Air Purifier offers proven, third-party tested effectiveness with a 99% inactivation of captured viruses and germs when used as instructed, including:¹

- Coronavirus
- Common cold surrogate
- Bacteria that causes strep throat
- Human influenza

The Return Air Purifier is a cornerstone of Healthy Home Solutions for providing healthier, cleaner air in your home.

HOW IT WORKS

The Return Air Purifier provides extremely high filtration performance while killing captured contaminants, including viruses and bacteria. The Return Air Purifier treats the entire air-stream through a state of the art, three-stage process.

- In stage one, the particles are electrically charged by a precision-point ionization array as they enter the Return Air Purifier.
- In stage two, the charged particles are electrically attracted to the air purification cartridge.
- In stage three, captured particles are killed by electrical current flow and ion bombardment.

The Return Air Purifier is Listed to applicable UL Standards and requirements by Underwriters Laboratories Inc.

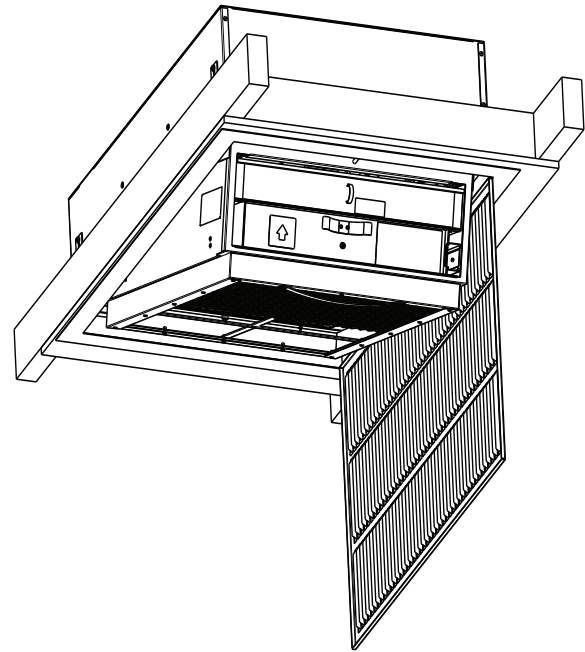


Fig. 1 – RGAP(A,B)XX Unit


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SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause death, personal injury or property damage. Consult a qualified installer, service agency or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses, protective clothing, and work gloves. Have a fire extinguisher available. Read these instructions thoroughly and follow all warnings and cautions included in literature and attached to the unit. Consult local building codes and the current edition of the National Electrical Code (NEC) NFPA 70.

In Canada, refer to the current editions of the Canadian Electrical Code CSA C22.1.

Recognize safety information. When you see this symbol  on the unit and in instructions or manuals, be alert to the potential for personal injury. Understand the signal words DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards, which will result in severe personal injury or death. WARNING signifies hazards, which could result in personal injury or death. CAUTION is used to identify unsafe practices, which may result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.

1. The air purifier has demonstrated effectiveness against the murine coronavirus, based on third-party testing (2020) showing a >99% inactivation, which is a virus similar to the human novel coronavirus (SARS-CoV-2) that causes COVID-19. Therefore, the air purifier can be expected to be effective against SARS-CoV-2 when used in accordance with its directions for use. Third-party testing (2012, 2007) also shows ≥99% inactivation for the type of virus that causes common colds, Streptococcus pyogenes and human influenza. Airborne particles must flow through your HVAC system and be trapped by the filter to be inactivated at 99%.

Ozone Production

This product complies with the maximum allowable concentration of ozone of 0.050 parts per million by volume (ppmv) in a 24-hour period.

APPLICATION CONSIDERATIONS

! WARNING

HIGH VOLTAGE HAZARD

Failure to follow this warning could result in personal injury or death. This Return Air Purifier utilizes high voltage. If you notice water running into or around the Return Air Purifier, water stains on the purifier cartridge or on the Enhancement Module walls or cabinet, shut off the Return Air Purifier and call your service provider.

The Return Air Purifier is designed for use in the return air duct of a forced air heating, cooling, and ventilation system. Although designed to be a robust air purification system, the Return Air Purifier is not designed to operate when wet. Operation of the Return Air Purifier in a wet environment will result in less than optimal performance and a possible safety hazard. As such, particular attention must be paid to the following paragraphs regarding installation near air conditioning coils.

The Return Air Purifier should be installed in a system so that all the return air is circulated through the Return Air Purifier. It should be located upstream of both the furnace and the air conditioning evaporator coil. This will help keep the furnace and evaporator coil clean and prevent condensation from forming within the Return Air Purifier.

! WARNING

HIGH VOLTAGE HAZARD

Failure to follow this warning could result in personal injury or death. This Return Air Purifier utilizes high voltage. If you notice water running into or around the Return Air Purifier, water stains on the purifier cartridge or on the Enhancement Module walls or cabinet, shut off the Return Air Purifier and call your service provider.

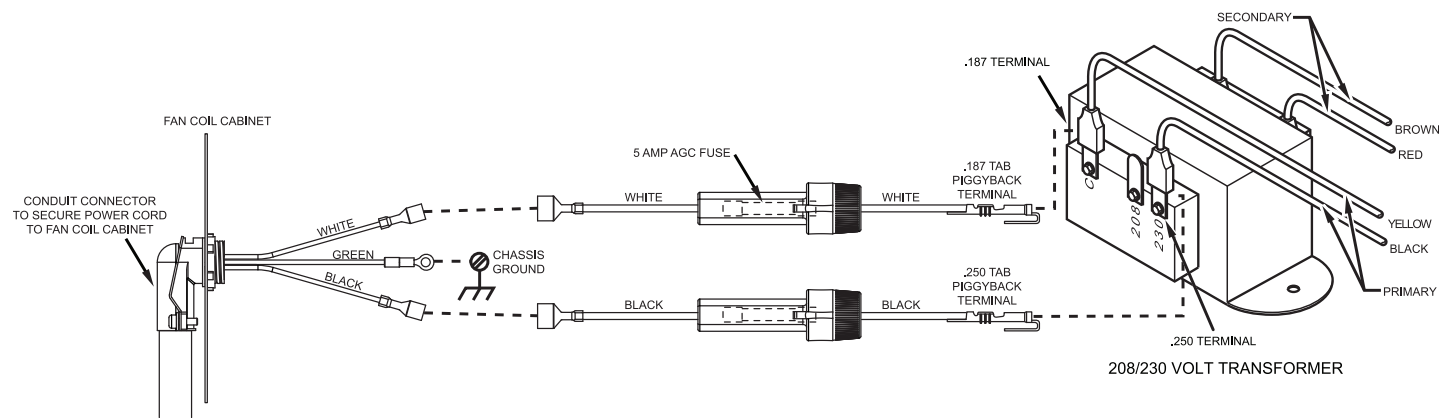


Fig. 2 – Quick Kit Installation Illustration

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Transitions

If the return air duct does not fit the Return Air Purifier cabinet openings, a gradual transition is recommended to reduce air turbulence and maximize efficiency. No more than 45° (about 8½" per running foot) of expansion should be used on the transition.

Electrical Power and Flow Sensing

The Return Air Purifier should only be powered when airflow is present. The furnace control EAC terminals provide power only when the furnace blower is operating. Return Air Purifier RGAPAXX1625 is designed to be powered from the electronic air cleaner (EAC) terminals on a furnace electronic control.

Accessory Safety Screen (KIT170000)

! WARNING

ELECTRICAL OPERATION HAZARD

Failure to follow this warning could result in personal injury or death. The Return Air Purifier contains high voltage electrodes and is designed to be installed as supplied with its safety screen in place in order to prevent access to high voltage during operation of the purifier.

Electrical Power Fusing

with Furnace

Return Air Purifier RGAPAXX1625 does not include in-line fuses as it is designed to be powered from the electronic air cleaner (EAC) terminals on a furnace electronic control, which are already properly current-limited for Return Air Purifier application.

with Fan Coil

Return Air Purifier RGAPBXX1625 does include in-line fuses as it is designed to be powered from the transformer on fan coil unit installations (Fig. 2).

INSTALLATION

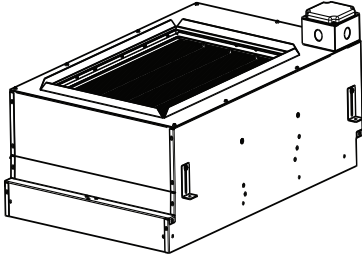
Check Return Air Purifier Components

! CAUTION

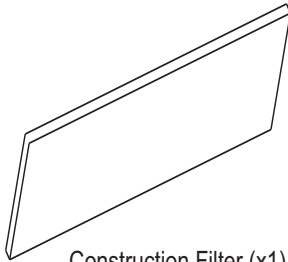
CUT HAZARD

Failure to follow this caution may result in personal injury. Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing and gloves when handling parts.

Carefully remove all items from the box (Fig. 3).



Air Purifier Unit (x1)
(includes Safety Screen and Filter Cartridge installed)



Construction Filter (x1)



Installation Manual



Installation Components
(in accessory bag)

Fig. 3 – Return Air Purifier Components

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Materials needed for install

- 1½" x ¼" wood screws - provided by installer (12-14 QTY).

Accessories for completing installation

- Hinged return air decorative grille cover 20" x 30" (**Provided by installer.** Use grille cover manufacturer's instructions for installation or replacement.)

! CAUTION

UNIT DAMAGE HAZARD

Do not attempt to open the unit (lowering the inner unit from the outer frame) until it is fully installed and hanging flat and level. To do so could damage the unit or the lowering handle.

Identify Mounting Location

Identify a mounting location for the Return Air Purifier.

NOTE: The location of the Return Air Purifier should be readily accessible. Enough room should be provided for the grille and inner unit to swing down completely to facilitate periodic replacement of the Return Air Purifier cartridges.

! WARNING

ELECTRIC SHOCK AND UNIT DAMAGE HAZARD

Failure to follow this warning could result in personal injury or death. Only a trained, experienced service person should install the Return Air Purifier. A thorough check of the unit installation should be completed before unit operation. Before performing installation, service or maintenance operations on unit, turn off all power to unit. Tag disconnect switch with lockout tag.

Mount Cabinet

! WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death. Before installing or servicing system, always turn off main power to system. There may be more than one disconnect switch. Lock out and tag switch with a suitable warning label.

1. Turn off power to the heating and cooling system.
2. Unpackage the product and remove the filter cartridge, per the steps listed in [MAINTENANCE](#) on pg 7. Put the filter cartridge and construction filter aside for later use.
3. Verify the size of the rough-in opening (20-1/8" x 30-3/16") and truss geometry. Trusses should be at 24" on center ([Fig. 4](#)).
 - a. If joist blocking does not exist for the RGAPA unit, install three blocks and attach to the trusses to form a box to frame in the unit.
 - b. If blocking has been completed by others, verify the frame measurement is correct and make adjustments if needed.

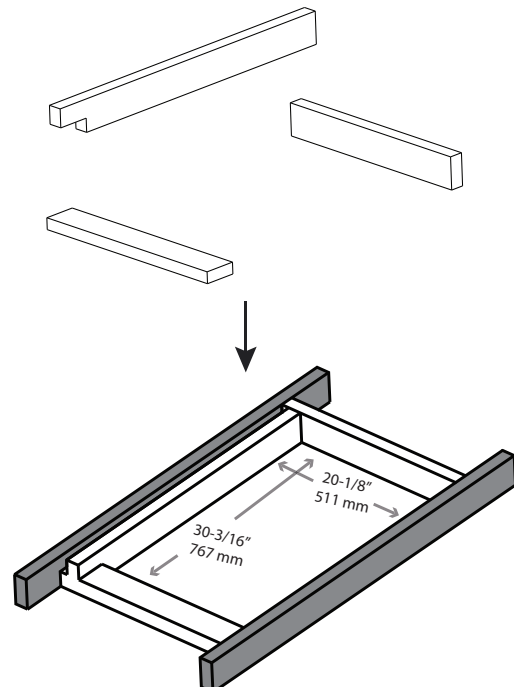
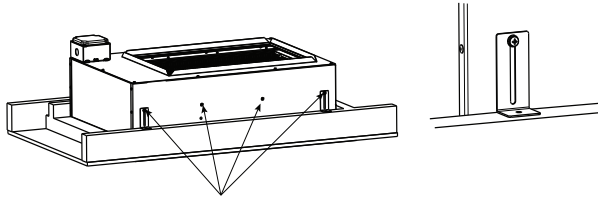


Fig. 4 – Rough-in

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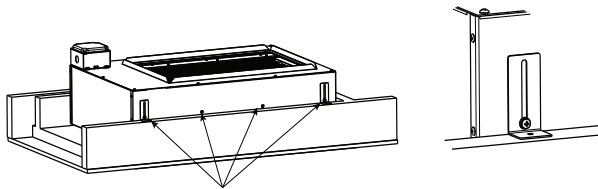
4. Determine the proper height of L-bracket supports and threaded hole locations, with truss geometry utilizing 2" x 4" or 2" x 6" trusses.
5. Attach L-brackets to the outer cabinet (Fig. 5). Choose the proper location for two L-brackets per side (out of four possible locations on each side) based on truss geometry.
6. Use additional screws from the accessory bag to plug any mounting holes that are not in use.

2" x 4" TRUSS APPLICATION



THREADED HOLE LOCATIONS

2" x 6" TRUSS APPLICATION



THREADED HOLE LOCATIONS

Fig. 5 – L-Bracket Supports and Threaded Holes

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7. Lift the unit into the rough-in location, resting on the L-bracket supports (Fig. 6).
8. Verify proper positioning of the air cleaner, then secure the L-brackets to the truss using 1/4" wood screws provided by installer.

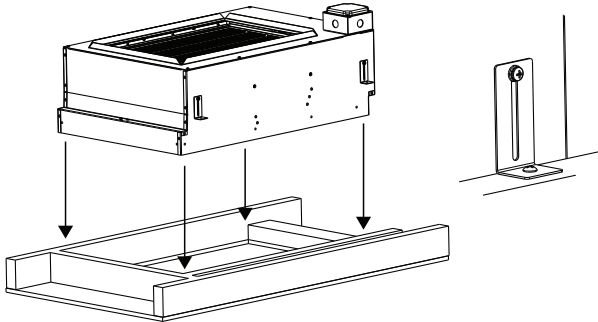


Fig. 6 – Position Unit and Secure L-Brackets

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9. Finish mounting with twelve 1/4" wood screws through holes on all four sides of the cabinet from inside of the unit into the trusses and blocks (Fig. 7).

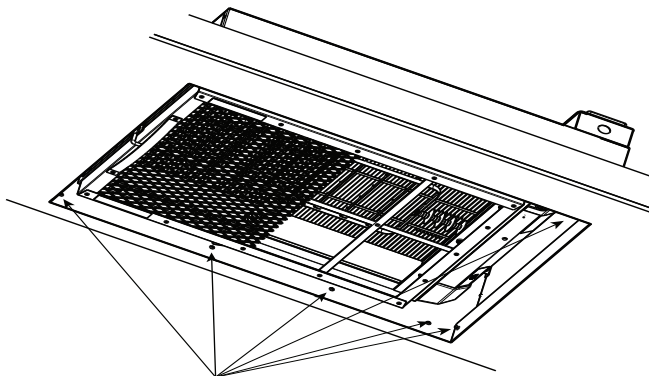


Fig. 7 – Secure with Inner Mounting Screws

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! WARNING

ELECTRIC SHOCK HAZARD

Failure to follow this warning could result in personal injury or death. For proper operation and safety, the unit MUST have an uninterrupted ground circuit according to national and local codes.

10. Unscrew the two screws retaining the cover of the electrical box mounted on the top of the air purifier, remove the cover, and punch out the desired electrical box knockout.
11. Electrical Connections (Fig. 8, Fig. 15, and Fig. 16):

NOTE: Use proper strain relief when installing wiring to junction box.

- a. For **Furnace Units**—Connect wiring from the EAC terminals to a unit disconnect switch in the attic, and then connect the wiring from the disconnect to the electrical box on the unit, using a proper UL rated fitting at the electrical box knockout on the unit. Follow standard wiring configuration: Black = high voltage; White = neutral; Green = ground.
- b. For **Fan Coil Units**—Connect wiring from the transformer using the quick connect kit to the unit disconnect switch in the attic, and then connect the wiring from the disconnect to the electrical box on the unit, using a proper UL rated fitting at the electrical box knockout on the unit. Follow standard wiring configuration: Black = high voltage; White = neutral; Green = ground.

12. Reattach the electrical box cover. See [Wiring on pg 6](#) for further wiring details.

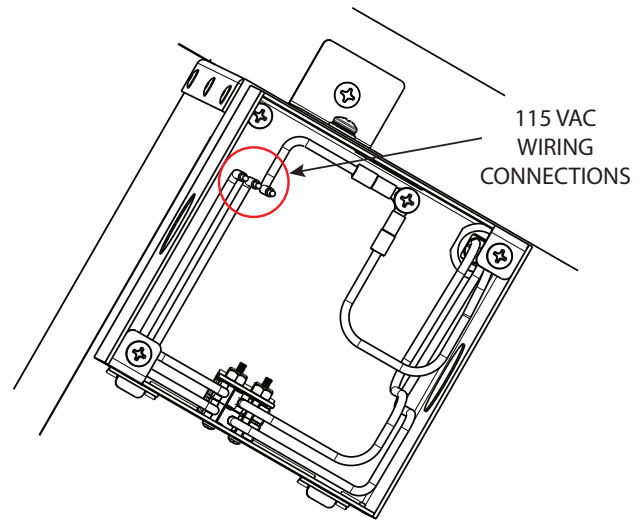


Fig. 8 – Connect Wiring to Unit

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13. Install return air ductwork to the top of the RGAPA unit and seal the opening (Fig. 9).

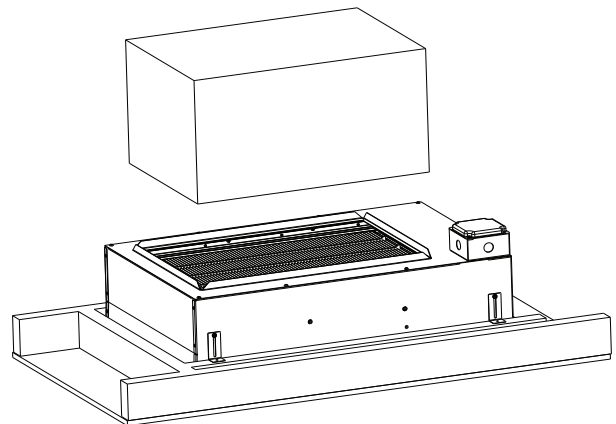


Fig. 9 – Install Return Air Ductwork

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14. Close the unit (Fig. 10). Verify latch is closed.
15. To test for proper operation:
 - a. Install the filter cartridge in the correct orientation. Follow the steps per (To replace the Return Air Purifier filter cartridge, complete the following steps: on p7).
 - b. Turn on the unit; verify the green LED is active (Fig. 17).
 - c. If the unit does not operate as expected, refer to (TROUBLESHOOTING on p9).

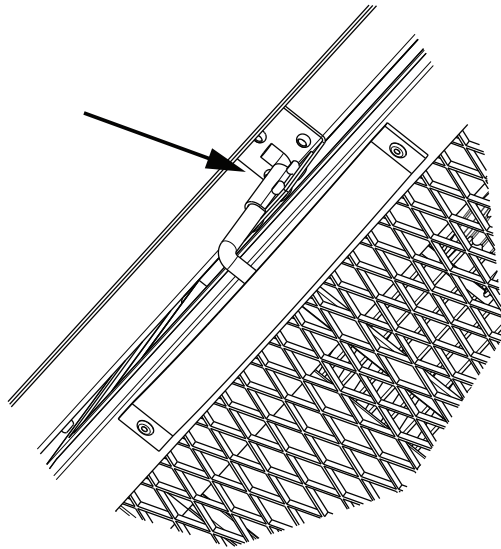
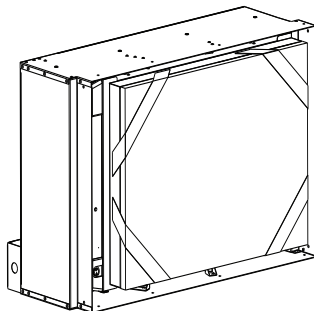
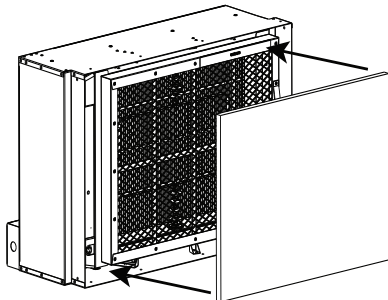


Fig. 10 – Verify Closed Unit is Latched Securely

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16. If additional dust generating construction will take place after verifying unit for proper operation, switch off the air purifier, remove and store the filter cartridge. Install the temporary construction filter on the safety screen using the tape provided (Fig. 11).



SEAL WITH INCLUDED TAPE

Fig. 11 – Construction Filter

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17. After all construction is complete, remove the temporary construction filter.
18. Install the filter cartridge (Fig. 13) in the correct orientation. Follow the steps per (To replace the Return Air Purifier filter cartridge, complete the following steps: on p7), and switch on the air purifier.

IMPORTANT: Make sure the metal tabs on the leading edge of the filter case are inserted first. They must not be visible after the filter is installed. Follow the instructions printed on the filter cartridge (Fig. 12). Otherwise, the unit will not operate properly.

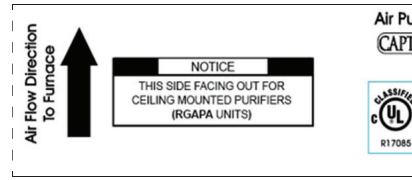


Fig. 12 – Filter Cartridge Orientation

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19. Close the unit and verify latches are secure (Fig. 10).

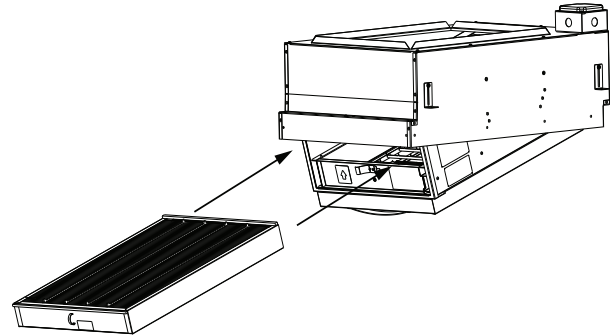
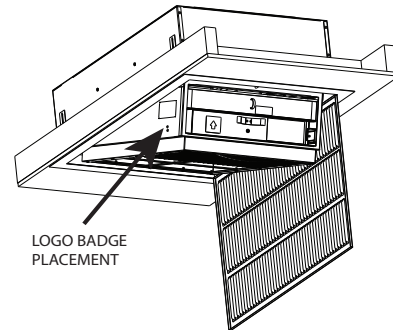


Fig. 13 – Install New Filter Cartridge

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20. Turn on the unit and test for proper operation; verify the green LED is active (Fig. 17).
21. If working properly, install a 20" x 30" hinged return air decorative grille cover (provided by installer). Use the grille cover manufacturer's instructions. Make sure the purifier has enough clearance to hinge down through the opened grille cover frame (Fig. 14).
22. Press the applicable logo badge into the two mounting holes on the lower left corner of the lowered unit (Fig. 14).



LOGO BADGE PLACEMENT

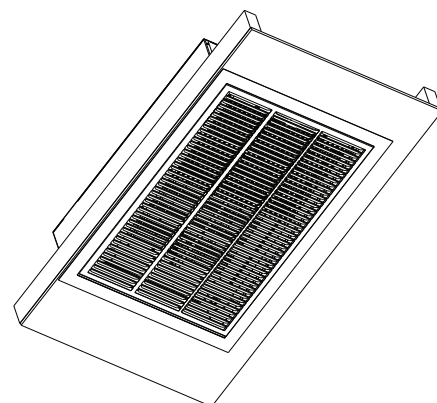


Fig. 14 – Decorative Grille Cover and Logo Badge

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Wiring

For the wiring in the furnace wiring compartment

The incoming power supply wiring and connections for the Return Air Purifier should be routed away from the output duct of the furnace, and the incoming power connections for the Return Air Purifier in the furnace must be properly rated. The maximum rated current draw for the furnace 120VAC Return Air Purifiers is 0.3 Amps.

The installation involves direct connection to the duct and to a furnace controller EAC terminal output. The field wiring shall be copper conductors only, suitable for a maximum possible rating of 90°C of the field wiring terminal box/terminals.

! WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death. Before installing or servicing system, always turn off main power to system. There may be more than one disconnect switch. Lock out and tag switch with a suitable warning label.

! CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

This unit cannot be powered directly from blower motor leads. Voltages can exceed 190 VAC (120V motors). Do not wire directly to blower motor. Wiring to blower motor will damage power supply and void warranty.

For wiring from the unit to the furnace:

1. Route a wire or power conduit (depending on local codes) from the purifier electrical box to a power supply disconnect located within 6 feet of the unit; then from the disconnect to a knockout on the furnace that provides access to the EAC terminals on the furnace control board. Affix the ends of the wire or conduit to the furnace and electrical box with proper UL rated fittings.
2. Attach the quick connect terminals on the wires exiting the power conduit assembly to the furnace EAC-1 and EAC-2 spade connections. Attach the ground ring terminal on the third wire to furnace chassis ground (Fig. 15 and Fig. 16).

NOTE: The Return Air Purifier should only be powered when airflow is present. The furnace control EAC spade connections, shown in Fig. 16, provide power only when the furnace blower is operating. Return Air Purifier RGAPAXX1625 is designed to be powered from the electronic air cleaner (EAC) terminals on a furnace electronic control.

For wiring from the unit to the furnace:

1. Route a wire or power conduit (depending on local codes) from the purifier electrical box to a knockout on the fan coil air handler that provides access to the incoming power wiring compartment. Affix the ends of the wire or conduit to the fan coil unit and electrical box with proper UL rated fittings.
2. Remove the yellow and black primary wires from the fan coil air handler transformer terminals and connect the quick connect "piggyback" terminals of the quick connect kit leads exiting the air purifier power conduit assembly to the transformer terminals. Reconnect the yellow and black primary wires to their respective transformer terminals on the "piggyback" terminals. Attach the

ground ring terminal on the third wire to fan coil air handler chassis ground (Fig. 15).

NOTE: Power connections are to be made inside the fan coil wiring compartment per local electrical codes, and the two in-line fuses that are provided with the air purifier must be installed in the fan coil wiring compartment.

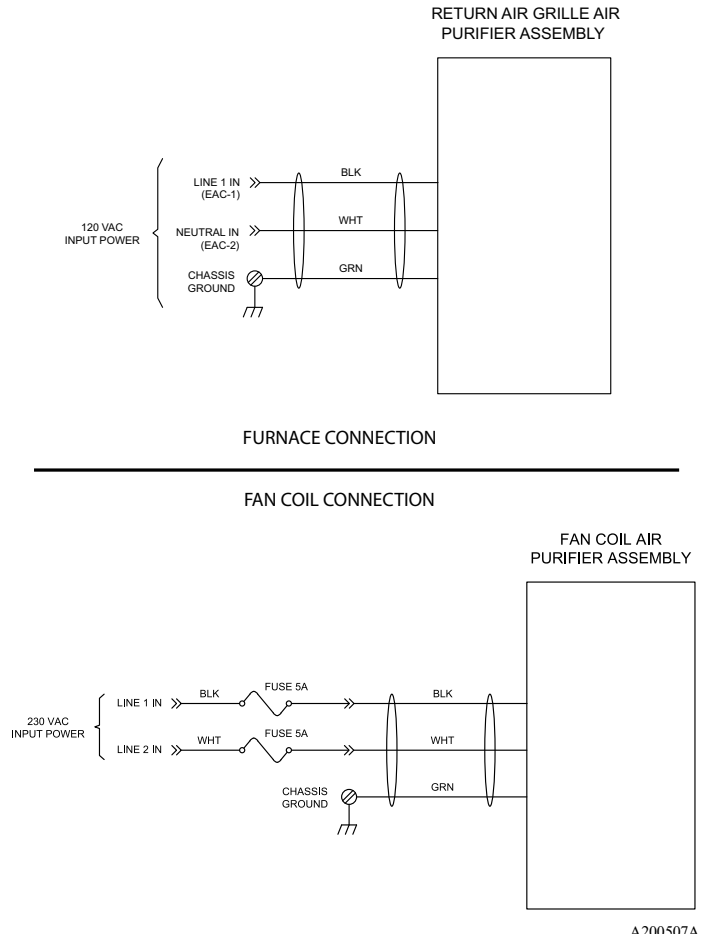


Fig. 15 – Furnace / Fan Coil Installation

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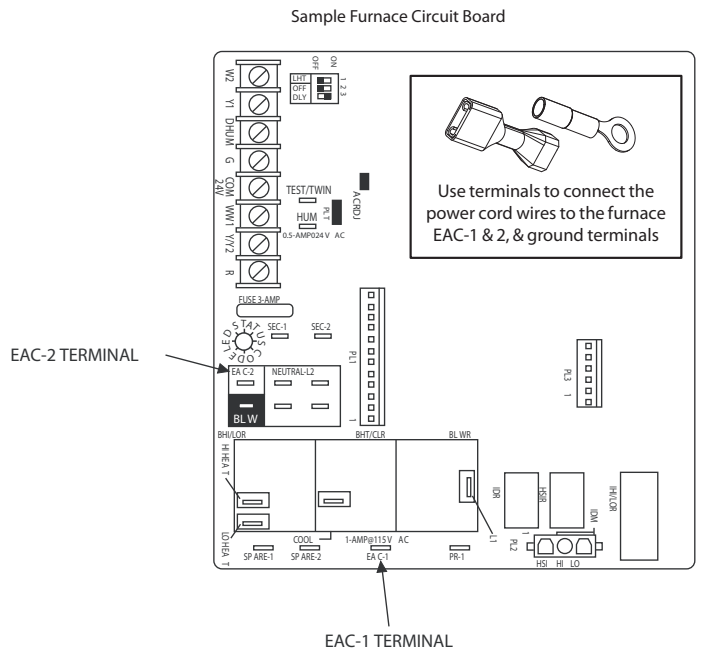


Fig. 16 – Return Air Purifier Connection to Furnace

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! CAUTION

UNIT COMPONENT DAMAGE HAZARD
 Failure to follow this caution may result in equipment damage or improper operation.

For Furnace Purifiers:
 Black Lead - Connect to Hot (L1) or EAC-1 when provided.
 White Lead - Connect to Neutral (L2) or EAC-2 when provided.
 Green/Ground Lead - Connect to Appliance Ground (Chassis).

START-UP and OPERATION

Checking Return Air Purifier Operation

! WARNING

ELECTRICAL SHOCK HAZARD
 Failure to follow this warning could result in personal injury or death. Before installing or servicing system, always turn off main power to system. There may be more than one disconnect switch. Lock out and tag switch with a suitable warning label.

1. Turn the HVAC system power on and adjust the thermostat or System Control to activate the system fan.
2. Turn the Return Air Purifier power switch to ON position.
3. The green indicator light on the power supply door should illuminate (Fig. 17).

This green indicator light will illuminate when the Return Air Purifier door is installed, the power switch is in the ON position AND the furnace blower is running. The indicator will be OFF when the furnace blower is not running.

NOTE: For information on the green indicator light status and error conditions, See [Table 1](#) for status codes or [Table 2](#) for error codes in section Error and Status Codes.

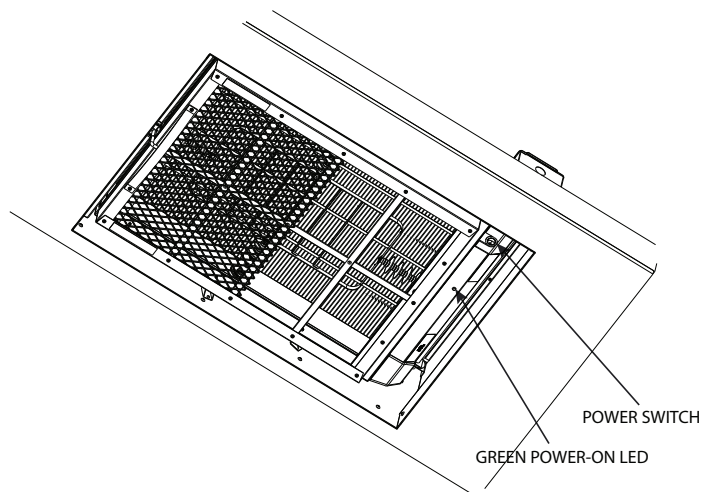


Fig. 17 – Power Switch and Indicator

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Control

When the Return Air Purifier is used with a Communicating Wall Control, the Control can be configured to remind the homeowner when it is time to change the Return Air Purifier cartridge. This maintenance reminder can be based on either the TrueSense™ dirty filter algorithm or time. The installer should use their discretion to select the most appropriate option based on the initial system static pressure.

Maximizing Performance

Maximum air purification performance is obtained when the furnace blower is set for continuous operation on the thermostat or Control.

MAINTENANCE

The Return Air Purifier is designed to require minimal maintenance. Maintenance is limited to the periodic replacement of the air purification cartridge and inspection/brush cleaning of the ionization array. Frequency of cartridge replacement and cleaning of the ionization array may vary depending on ductwork design and local environmental conditions, generally 6-9 months.

! WARNING

FIRE HAZARD
 Failure to follow this warning could result in personal injury or equipment damage. Use of non-factory approved filter cartridge will void the warranty and may cause damage due to fire. This equipment should be inspected frequently and collected dirt removed regularly to prevent excessive accumulation that may result in flash-over or fire damage.

To replace the Return Air Purifier filter cartridge, complete the following steps:
Turn the heating and cooling system power off.

! WARNING

ELECTRICAL SHOCK HAZARD
 Failure to follow this warning could result in personal injury or death. Before installing or servicing system, always turn off main power to system. There may be more than one disconnect switch. Lock out and tag switch with a suitable warning label.

IMPORTANT: Use of any filter cartridge in the Return Air Purifier other than the genuine replacement purifier cartridge listed in the table below will likely result in poor performance and may constitute a safety hazard. Do not use any third-party air filters in the Return Air Purifier.

PURIFIER MODEL	REPLACEMENT MEDIA CARTRIDGE
RGAP(A,B)XX1625	AGAPXCAR1625

1. Open the return air grille cover.
2. Unlatch the unit and slowly lower the inner purifier unit. This will disable the power.
3. Slide out the old cartridge and discard.
4. Install the new filter cartridge (Fig. 18).

IMPORTANT: Make sure the metal tabs on the leading edge of the filter case are inserted first. They must not be visible after the filter is installed. Follow the instructions printed on the filter cartridge (Fig. 19). Otherwise, the unit will not operate properly.

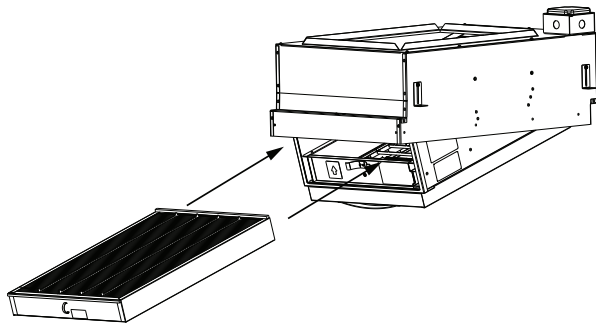


Fig. 18 – Install New Filter Cartridge

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Fig. 19 – Filter Cartridge Orientation

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5. Raise the inner Return Air Purifier assembly back into closed position, and latch to engage power to the unit. Verify latch is closed and secure (Fig. 20).

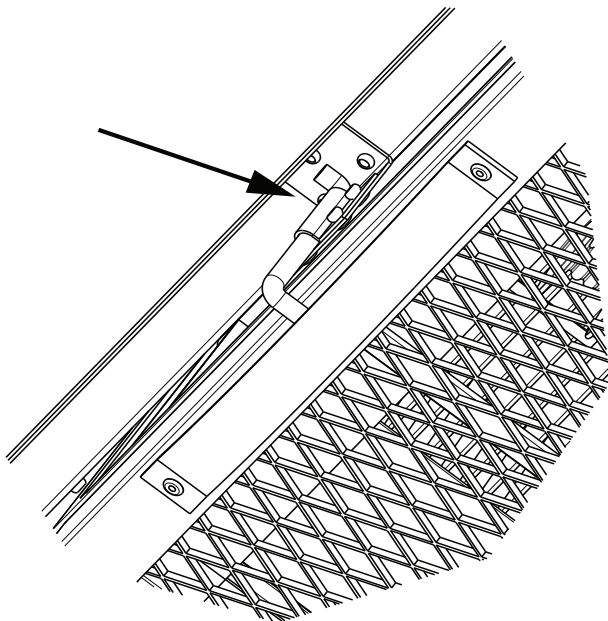


Fig. 20 – Verify Closed Unit is Latched Securely

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6. Close the return air grille cover.

During Return Air Purifier cartridge replacement, if a powdery residue is noticed on the tips of the points in the ionization array, clean them by completing the following steps.

Turn the heating and cooling system power off.

! WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death. Before installing or servicing system, always turn off main power to system. There may be more than one disconnect switch. Lock out and tag switch with a suitable warning label.

1. Open the return air grille and swing it down.

2. Unlatch the unit and slowly lower the inner purifier unit. This will disable power from the unit.
3. Slide out the Filter Enhancement Module (FEM).
4. Clean the FEM using the steps below.

! WARNING

CUT HAZARD

Failure to follow this warning could result in personal injury. Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing and gloves when handling parts.

Use care when handling the FEM due to the sharp points on the ionizer.
NOTE: Best cleaning tools: 5" (127 mm) handle paint brush with 2" (51 mm) width (or greater) brush point (synthetic or natural bristle) or vacuum cleaner with brush attachment (Fig. 22).

5. Gently stroke the ionization pins with the brush. Use a gentle back and forth brushing motion to clean any small accumulations from the tips of the points. If desired, use a vacuum cleaner with brush attachment to gently vacuum the frame and components of enhancement module. Also, if an Accessory Safety Screen is installed, vacuum the Safety Screen to remove accumulated dust and debris.

If further cleaning of the FEM is needed, it may be washed with soap and water and/or rinsed off with water. It should not be placed in a dishwasher or in boiling water.

NOTE: If using water to clean the FEM, it must be completely dry before inserting back into the Return Air Purifier.

6. Once clean and dry, slide the FEM into the unit housing.
7. Lift up and close the Inner Purifier. Make sure it is securely latched.
8. Close and latch the return air grille.

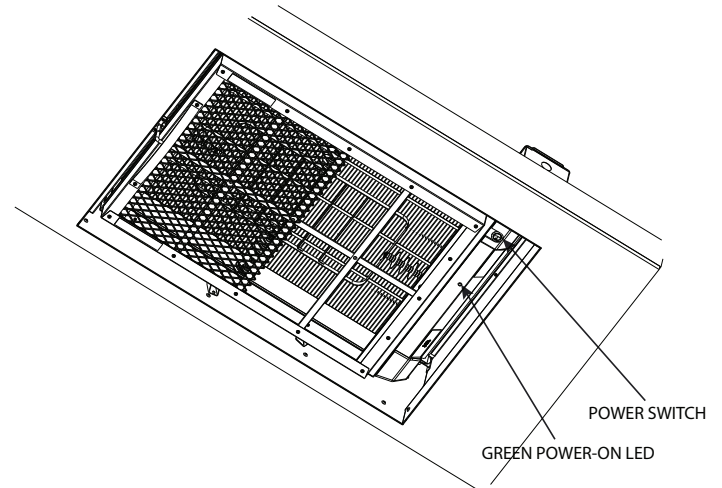


Fig. 21 – Power Switch and Indicator

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TROUBLESHOOTING

! CAUTION

SAFETY HAZARD

Failure to follow this caution may result in personal injury or equipment damage.

The following instructions are for use by qualified personnel only.

! WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death. The following procedures will expose electrical components. Disconnect power between checks and proceed carefully. Only a trained, experienced service person should install and/or troubleshoot the Return Air Purifier.

The Return Air Purifier is equipped with a power indicator light located on the door (Fig. 21). This power indicator light will illuminate when the Return Air Purifier door is installed, the power switch is in the ON position, AND the furnace blower is running.

Refer to (ERROR and STATUS CODES on p10) for troubleshooting procedures.

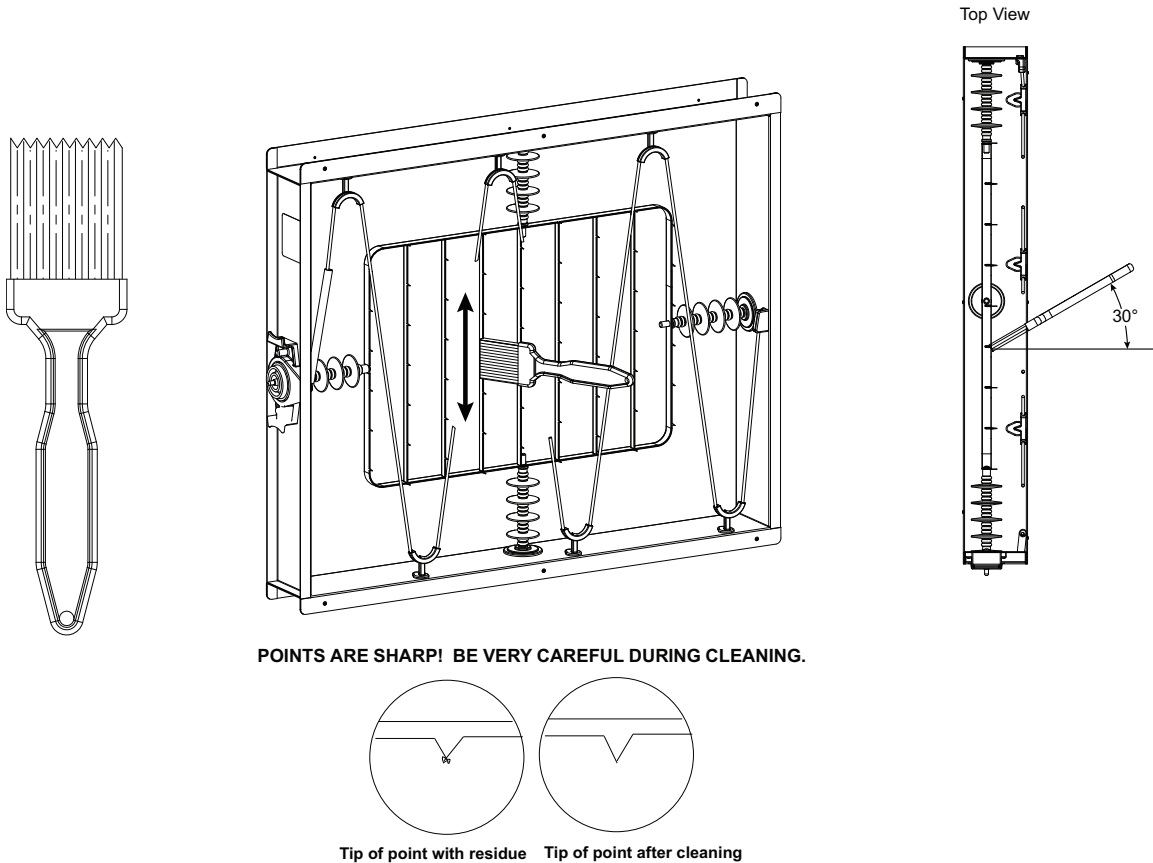


Fig. 22 – Removal of Deposits from Ionization Pins

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ERROR and STATUS CODES

Table 1 – Operating Status Codes

INDICATOR LIGHT CODE	EXPLANATION	POSSIBLE CAUSE	RECOMMENDED ACTION
OFF	No incoming AC power to Return Air Purifier control electronics	Normal operation when airflow is not present for models without flow sensor due to AC power to purifier being off at furnace control board (EAC terminals)	
		ON/OFF power switch turned to OFF	Turn purifier power switch to ON position.
		Power to entire system is off (furnace and Return Air Purifier)	Check that the HVAC system is switched on.
		Blown fuse or tripped circuit breaker for HVAC system	Replace fuse or reset circuit breaker. Call for service if problem reoccurs.
		Misaligned or damaged purifier door	Insure that door is undamaged and properly installed on purifier cabinet.
		Damaged or disconnected incoming power wiring	Call for service.
ON (continuously)	Return Air Purifier on	Normal operation when airflow is present	
FLASHING (1 flash every 4 seconds)	Standby Mode	Normal operation when airflow is not present for models with flow sensor	
		Ions detected in airflow due to missing replaceable filter element	Place filter in air purifier.
		Debris is covering airflow sensor (for models including an airflow sensor)	Make sure flow sensor is clean and unobstructed.
		Flow sensor is damaged (for models including an airflow sensor)	Replace flow sensor, available as replacement kit (KIT160000).
		Flow sensor bypass assembly is damaged (for models without an airflow sensor)	Replace flow sensor bypass assembly, available as replacement kit (KIT161000).
		One or more of the three airflow sensor contact springs on purifier cabinet downstream rail are bent or damaged	Replace flow sensor contact spring assembly, included as part of the flow sensor kits (KIT160000 and flow sensor bypass kit KIT161000).

Table 2 – Start-Up Error Codes

INDICATOR LIGHT CODE	EXPLANATION	POSSIBLE CAUSE	RECOMMENDED ACTION
2 FLASHES	Filter ground circuit fault	No filter installed	Place filter in Return Air Purifier.
		Filter installed incorrectly.	Install filter in correct orientation as indicated by airflow direction arrows on cabinet and filter.
		Wrong type of filter installed	Install genuine Return Air Purifier replacement filter.
		Wet filter	Call service to locate and eliminate the source of water on the filter and replace the filter with a new filter.
		Damaged filter contact spring on door assembly	Verify that filter contact springs mounted on power supply assembly are properly contacting the aluminum contact pads on the filter and not contacting the cabinet or any metal on the back of the power supply assembly. If springs are broken or damaged replace the power supply assembly.
RAPID FLASHING (5 flashes per second)	LED Flashes for 10 seconds when AC power is turned on indicating a previously stored error code will be displayed after 10 seconds. Purifier will not operate until cause of error condition is rectified and purifier is reset.	An error code was registered in the purifier controls prior to the purifier being turned off	The purifier controls may be reset during the 10 seconds in which the LED is flashing rapidly. See the reset procedure section of this document for resetting the electrical controls. If the problem persists, follow the actions recommend in Table 3 for the stored error code or call service.

Table 3 – Operating Error Codes

INDICATOR LIGHT CODE	EXPLANATION	POSSIBLE CAUSE	RECOMMENDED ACTION
4 FLASHES	Ionizer / filter current imbalance	Dirty Filter Enhancement Module (FEM)	Clean/service Return Air Purifier unit.
		Damaged Filter Enhancement Module (FEM)	Replace the filter enhancement module.
5 FLASHES	Over-current fault	Excessively dirty Damaged Filter Enhancement Module (FEM) and/or filter	Clean/service Return Air Purifier unit.
		Wet Damaged Filter Enhancement Module (FEM) and/or filter	Call service to locate and eliminate the source of water in the air purifier. Verify that the purifier FEM and cabinet are clean and replace filter with a new filter.
		Damaged filter	Replace the filter element.
		Damaged Filter Enhancement Module (FEM)	Replace the filter enhancement module.
		Foreign object inside Return Air Purifier	Remove foreign object from air purifier and ensure purifier is clean and undamaged.
6 FLASHES	Arc detected	Damaged filter	Replace the filter element.
		Damaged Filter Enhancement Module (FEM)	Replace the filter enhancement module.
		Foreign object inside Return Air Purifier	Remove foreign object and ensure purifier is clean and undamaged.

RESET PROCEDURE

When the rapid flashing code occurs on the green light, the controls for the high voltage need to be reset. To reset the controls, the power switch needs to be turned on and off for three cycles.

1. Turn off power by depressing the power switch (Fig. 17).
2. Wait approximately 2 seconds before turning the power back on.
3. Wait approximately 2 seconds before turning the power off.

4. Repeat Steps 2 and 3 for two more on/off cycles.
5. After the three on/off cycles are completed, turn on power by depressing the power switch on. The rapid flashing code on the green light should no longer be displayed. If the rapid flashing code on the green light is still displayed, repeat Steps 1 through 5.

By resetting the Return Air Purifier controls the issue with Return Air Purifier will need to be addressed by cleaning or servicing the Return Air Purifier.

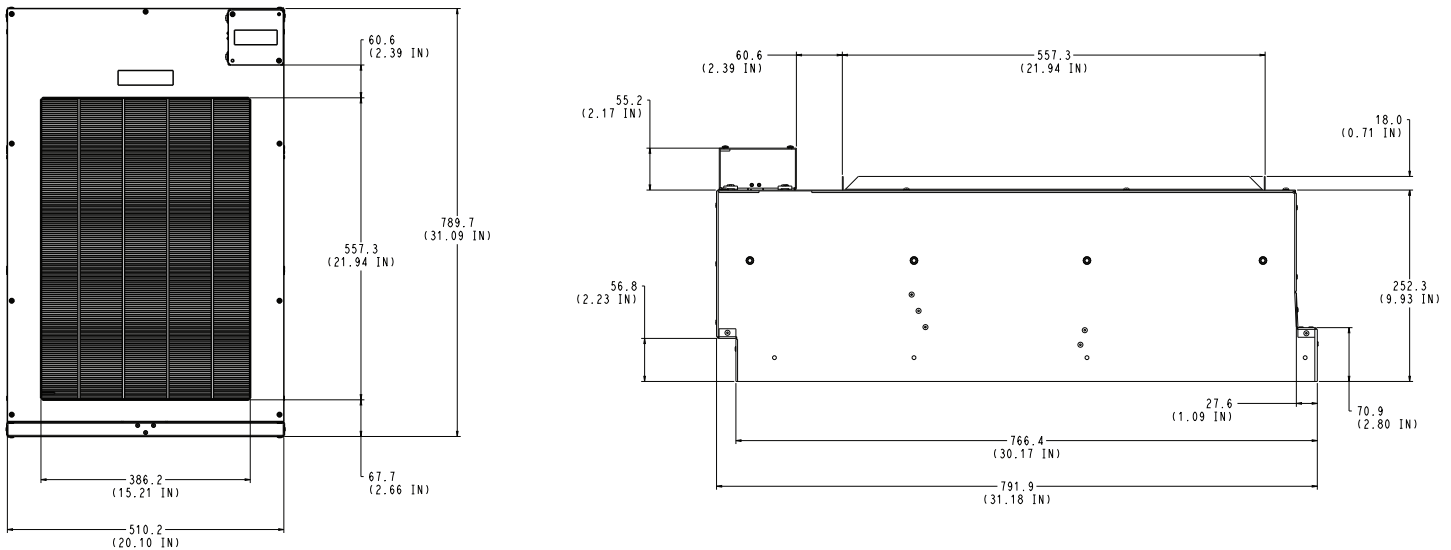


Fig. 23 – Dimensions

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Table 4 – Replacement Filters, Replacement Component Kits, and Accessories

DESCRIPTION	PART NUMBER
Filter Enhancement Module (FEM)	KIT145000
Power Supply Assembly	KIT159000
Accessory Safety Screen Kit	KIT170000
Current Sensing Relay Kit	HN72ZA001
Service Quick Kit	344872-751 (Included standard with the RGAPBXX1625)
Flow Sensor	KIT160000 (Included standard with the RGAPBXX1625)
Flow Sensor Bypass	KIT161000 (Included standard with the RGAPAXX1625)
Replacement Filter Cartridge (2-Pack)	AGAPXCAR1625-A02
Safety Switch	346811-401
Gas Strut	347055-401