

Air Guardian® Installation and Operation Instructions



Air Guardian®

Air Purification: removes pathogens, particulates, VOC, and pollutants
Unmatched single-pass purification
Patented, sealed chamber with intense multi-modal actions
Precision-engineered airflow displacement - pure air displaced into protected

CE, ETL, RoHS
FDA Facility #10077990
EPA Facility Establishment
98105-TX-1
FDA Medical Device
Classification: Device Class
1 Listing #0420497
CARB-certified by executive
Order G-21-421

For additional information on the Air Guardian product registration information, hazards, and handling of the device, please refer to the labeling information included on the device and packaging materials.

Installation of the Air Guardian should be performed by qualified personnel only. The installation process must follow national, local, and any building-specific codes that may govern the installation of electrical devices, wiring, device connections, and ductwork, whether located in the plenum or on a hard ceiling or surface.

For further information on the installation and operational guidelines for the Air Guardian devices listed in this document, please get in touch with the local supplier or retailer from which the Air Guardian was purchased. illumiPure® can provide second-tier guidance and support to the local vending supplier if needed.

The installation instructions and operations guidelines herein should be followed to ensure the safe and efficient operation of the device.

Produced by:
CalyxPure, Inc.

Powered by:
illumiPure, Inc.

14340 Torrey Chase Blvd.
Houston, Texas 77014

FDA Establishment Number: 3017489474

EPA Product Establishment Number: 9810S-TX-1

FDA Product Use Classification: Medical Device Class 1 Listing #D420497

FDA Updated Product Use Classification - Class II Device - granted through FDA 880.6500 exemption.

This product is a device which does not contain any pesticidal ingredients and does not require an EPA registration number.

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Hazard and Precautionary Statement: This device uses electrical current for its operation and should only be installed by qualified personnel. The Air Guardian device should remain sealed at all times and should never be opened unless by qualified personnel performing maintenance or servicing procedures. All electrical power should be disconnected and/or disabled during all maintenance or service operations. Failure to follow these instructions can be hazardous and may invalidate the product warranty.

This document should be used for the installation and operation of the following device models, which may vary slightly by fan speed or electrical power configuration (120-270 US and 220-240 international).

Brand Name	Model Number	Model Name / Description
Air Guardian	AG24CLX-F75-G6e	Air Guardian 2x4 standard model; 75 CFM ADDA fan; international electrical configuration (220-240 drivers)
Air Guardian	AG24CLX-F90-G6e	Air Guardian 2x4 standard model; 90 CFM variable speed Orion fans; international electrical configuration (220-240 drivers)
Air Guardian	AG24CLX-F90-G6u	Air Guardian 2x4 standard model; 90 CFM fans; domestic (U.S.) electrical configuration
Air Guardian	AG24CLX-F100-G6e	Air Guardian 2x4, high speed model with 100 CFM ADDA fans; international electrical configuration (220-240 drivers)
Air Guardian	AG24CLX-F100-G6u	Air Guardian 2x4, high speed model with 100 CFM ADDA fans; domestic (U.S.) electrical configuration
Air Guardian	AG22CLX-F53-G3u	Air Guardian 2x2, standard model with 60 CFM variable speed Orion fans; domestic (U.S.) electrical configuration
Air Guardian	AG22CLX-F53-G3e	Air Guardian 2x2, standard model with 60 CFM variable speed Orion fans; international electrical configuration (220-240 drivers)
Air Guardian	AG22CLX-F75-G3u	Air Guardian 2x2, standard model with 75 CFM Adda fans; domestic (U.S.) electrical configuration
Air Guardian	AG22CLX-F75-G3e	Air Guardian 2x2, standard model with 75 CFM variable speed Adda fans; international electrical configuration (220-240 drivers)
Air Guardian	AG22CLX-F90-G3u	Air Guardian 2x2, high speed model with 90 CFM variable speed Orion fans; domestic (U.S.) electrical configuration
Air Guardian	AG22CLX-F90-G3e	Air Guardian 2x2 Air Guardian non-standard "High Speed" model with 90CFM variable speed Orion fans; international electrical configuration (220-240 drivers)

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USE WARNINGS

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

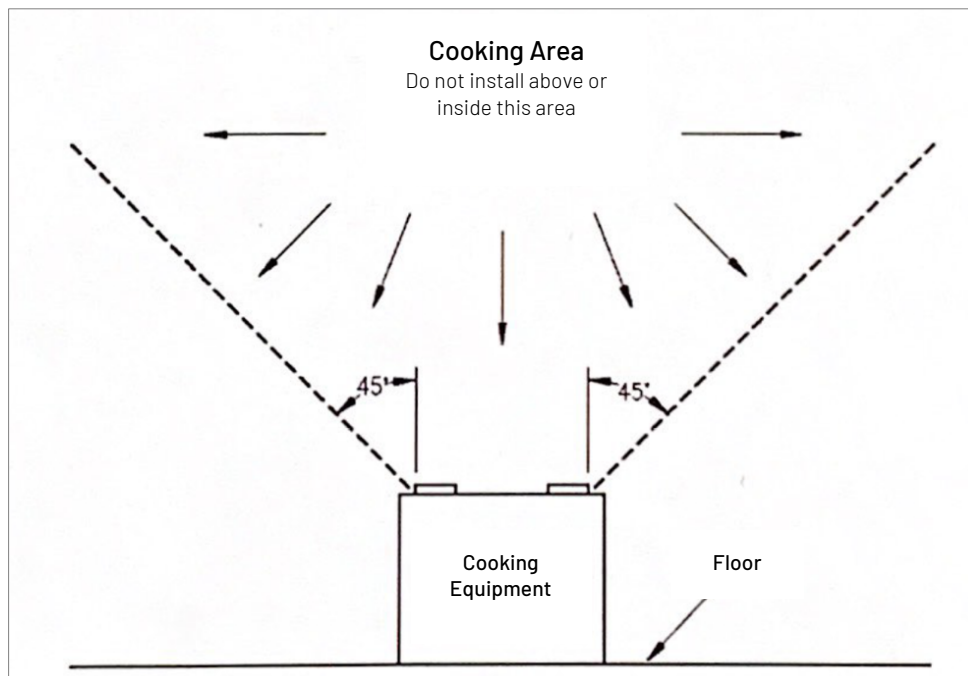
Use this unit only in the manner intended by the manufacturer. If you have questions, contact the device manufacturer, which is listed at www.illumipure.com.

Before servicing or cleaning the unit, switch the power off at the service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the operator cannot lock the service disconnecting means, a prominent, clear warning must be securely fastened to the device and the service panel.

DO NOT INSTALL IN A COOKING AREA NE PAS INSTALLER PRES D' UN APPAREIL DE CUISSON

See figure below for device placement restrictions for cooking area.

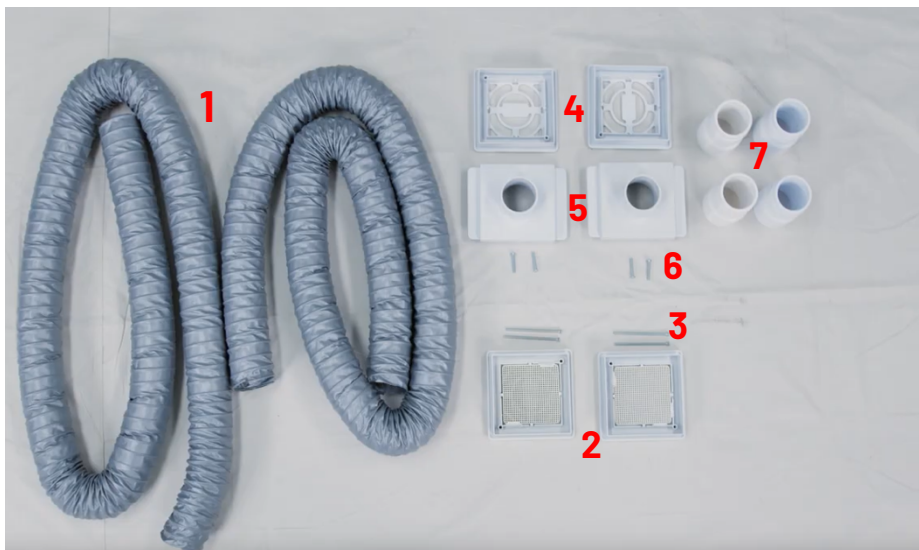
See Installation Instructions



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Included in Your Air Guardian Fixture Package

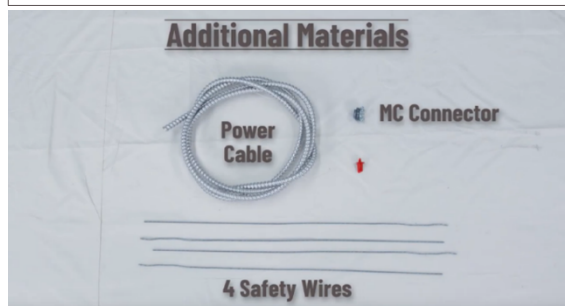
Below are the standard components included with your Air Guardian. Please note that pictures are for representative purposes only and the quantity of components included in your package depends on the fixture size and options.



1. Exhaust Hoses*
2. Intake Finger Guards
3. Intake Finger Guard Screws (6-32 x 2)
4. Exhaust Port Finger Guards*
5. Exhaust Hose Ceiling Port*
6. Exhaust Port Screws (8-32 x 1) *
7. Exhaust Hose Extension Connectors
8. Owner's Manual (Not Pictured)
9. Ceiling Tile Cut-Out Template (Not Pictured)
10. Warranty Information and Card (Not Pictured)

*Included with AG exhaust kit only (purchased separately).

Additional Materials (Not Included)



Additional Tools Required (Not Included)



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Air Guardian Device Installation

Step 1:

After selecting the location in which you wish to place your Air Guardian, remove the necessary ceiling tile from the grid.



Figure 1 – Remove ceiling tile from grid

Step 2:

Lay your ceiling tile on a hard, flat surface that is large enough to accommodate the entire tile. Lay the Air Guardian installation cut-out template on top of the tile, making sure the edges are flush with the edges of the tile.



Figure 2 – Align installation template to tile

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Step 3:

Using a pencil, mark all four sides of the intake hole(s) on the underside of the ceiling tile.



Figure 3 – Mark locations of intake holes to be cut

Step 4:

Remove the Air Guardian installation template. Using a razor blade (and a straight edge if desired), score the pencil markings you made for the intake(s). *Note: Scoring the cut lines prior to cutting through allows for cleaner cuts. It is not advisable to skip this step.* After scoring your cut lines, take a small utility knife and cut straight through for each line. Once complete, remove and discard the cut outs.



Figure 4 – Score and cut out intake hole(s)

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Step 5:

Insert cut ceiling tile onto your Air Guardian, making sure that the intake housing(s) are fitted within the cut outs.



Figure 5 – Place cut tile onto fixture

Step 6:

Remove the Air Guardian intake finger guards from your packaging. *Note: These are the finger guards that contain the TiO₂ ceramic filters set in them.*



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Slide the intake finger guard(s) onto the housings ensuring that the screw holes (in the finger guard) line up with the correct area within the intake housing.

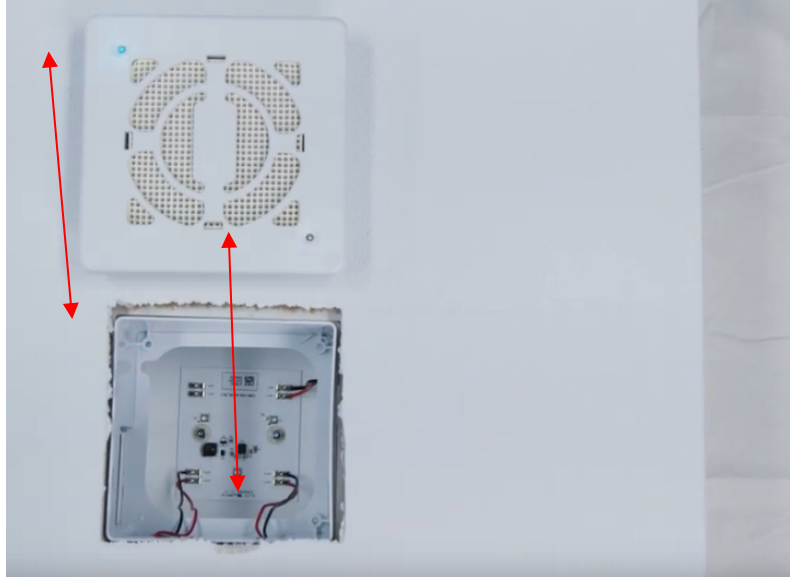


Figure 7 – Ensure screw holes line up accordingly

Using the 6-32 x 2 intake finger guard screws (these are the long screws included) fasten the intake housing finger guards onto the Air Guardian fixture.



Note: If using a powered driver or drill, please ensure that the tool is set to the lowest torque setting. Failure to use the lowest torque setting will result in stripping the housing's screw holes.

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Step 7:

Locate the end plate of the Air Guardian that contains the power hazard warning label and is close to the end with the uncovered hole.



Figure 9 – Locate the correct end plate

Using your 1/4" hex head driver bit, remove the screws attaching the end plate to the fixture, and then remove the end plate.



Figure 10 – Remove the correct end plate

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Take the MC connector out of the packaging, Install the MC connector into the uncovered port leading into the chamber you just uncovered when removing the end plate.



Figure 11 – Install the MC connector

Step 8:

Feed the input wires from your power cable in through open MC connector opening. Following this, tighten the set screws of the MC connector using your screwdriver, thereby securing the power cable in place.



Figure 12 – Run the input wires through the MC connector opening

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Identify the green (ground), black (line) and white (neutral) wires that terminate in level nut connectors and then fold the wires and level nut connectors outside the fixture for easier access. (Note: The green & black wires will terminate in a 2-point level nut connector. The white wire terminates in a 3-point level nut connector).

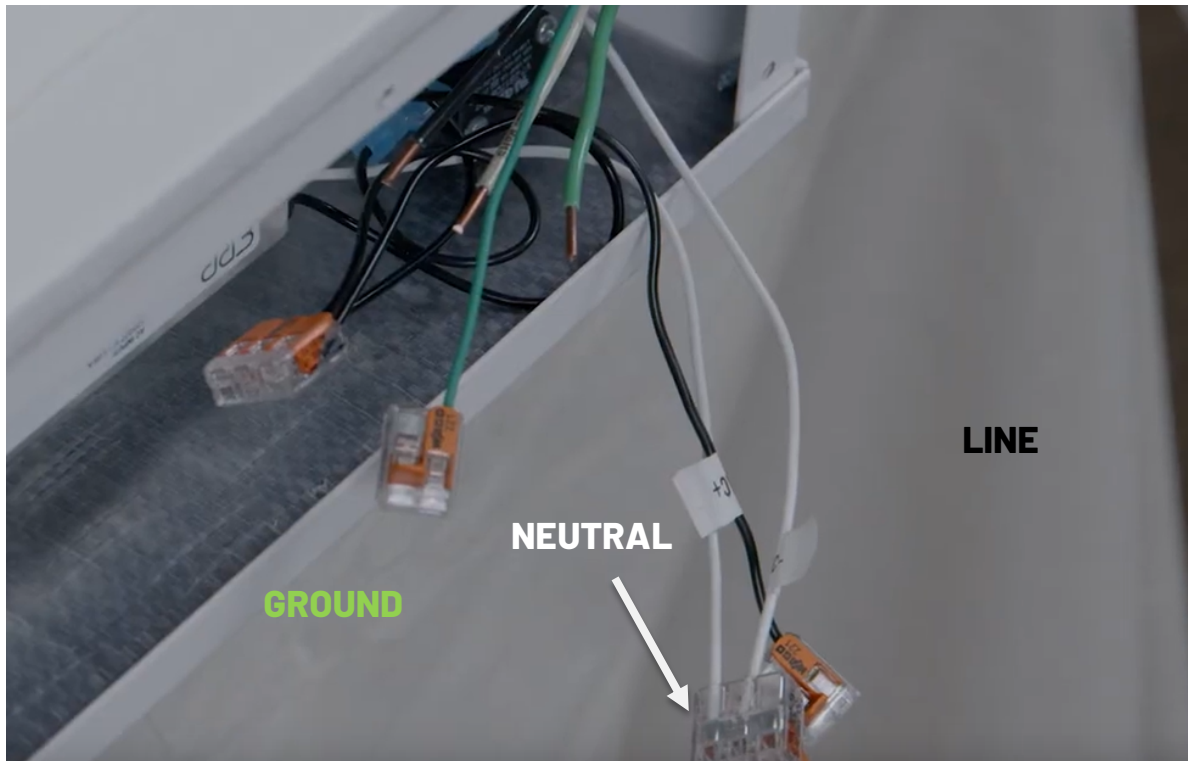


Figure 13 - Identify the correct wires & level nut connectors

Take the wires from the power cable and fit the proper wire into the corresponding level nut connector in the order shown below. Make sure to close the lever on the connector once each wire is in place before moving on to the next wire.

Install wires in the following order:

1. Green (Ground)
2. White (Neutral)
3. Black (Line)

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Figure 14 - Completed wire connections

Once connections are completed, fold the connected wires back into the chamber and replace the end plate to the fixture.

Please Note:

Installation contractors must follow local or national regulations for a). plenum-rated wires, b). device connection of the wires to the Air Guardian box (*pigtails can be provided upon request*) and c). any shielding or suspension requirements, consistent with the installation or wiring of any in-plenum device installation.

There are no changes to the wiring instructions for wiring 220~240 Air Guardian devices in overseas countries. As such, installation contractors overseas must follow all national guidelines, regulations, and building codes that are applicable for the country. Installation safety and electrical conformance is the responsibility of the customer and/or its installation contractors.

This Air Guardian installation manual does not recommend specific in-plenum wiring or related installation steps that might conflict with any local, national, or building-specific wiring, connection, or suspension codes for in-plenum or external-to-plenum installations.

The Air Guardian device is fully ETL and CE certified. It does not generate external heat within the plenum space. The entire contents of the ETL and CE certifications are available under non-disclosure agreement. To obtain a copy of the certification, contact sales@illumipure.com.

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Step 9:

Attach electrical source. (Refer to the following *Wiring Guide* section for further wiring instructions). Be sure to follow all local or building-specific codes that may exceed national standards for in-plenum wires, wiring supports, shielding, etc. that may be required.

Screw sizes legend:

1. **Induction Finger Guard** 6/32 2.
2. **Fan** M3 x 50mm
3. **Exhaust Finger Guard** 8x32x1
4. **Switch** M3 x 15mm
5. **Fan Driver** M3 x 12mm
6. **UVA Drivers and Fan Housing** 3M x 7mm
7. **1 Up Board Screws** #5 x 5/32

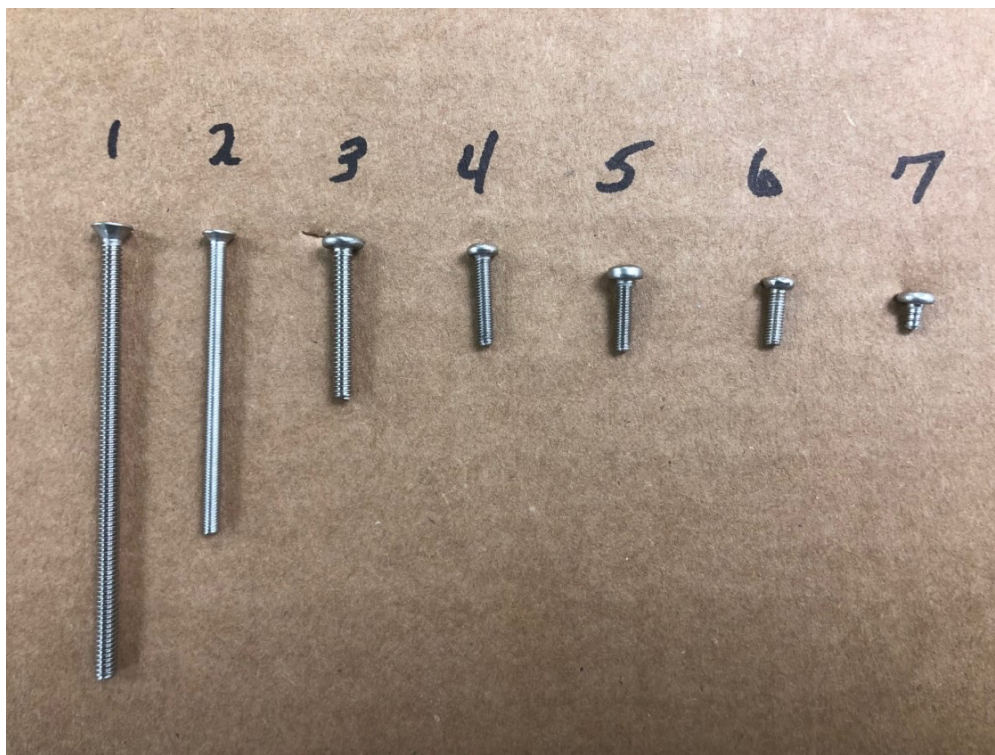


Figure 15 - Screw sizes legend

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Air Guardian Wiring Guide

Please Note:

Installation contractors must follow local or national regulations for a). plenum-rated wires, b). device connection of the wires to the Air Guardian box (*pigtails can be provided upon request*), and c). any shielding or suspension requirements, consistent with the installation or wiring of any in-plenum device installation.

For wiring 220~240 Air Guardian devices, follow all national guidelines, regulations, and building codes that are applicable for the country. Installation safety and electrical conformance is the responsibility of the customer and/or its installation contractors.

This Air Guardian installation manual does not recommend specific in-plenum wiring or related installation steps that might conflict with any local, national, or building-specific wiring, connection, or suspension codes for in-plenum or external-to-plenum installations.

The Air Guardian device is fully ETL and CE certified. It does not generate external heat within the plenum space. The entire contents of the ETL and CE certifications are available under non-disclosure agreement. To obtain a copy of the certification, contact sales@illumipure.com.

Step 1:

Remove the Air Guardian box electrical panel cover by removing screws, popping out of tabs, and sliding down.

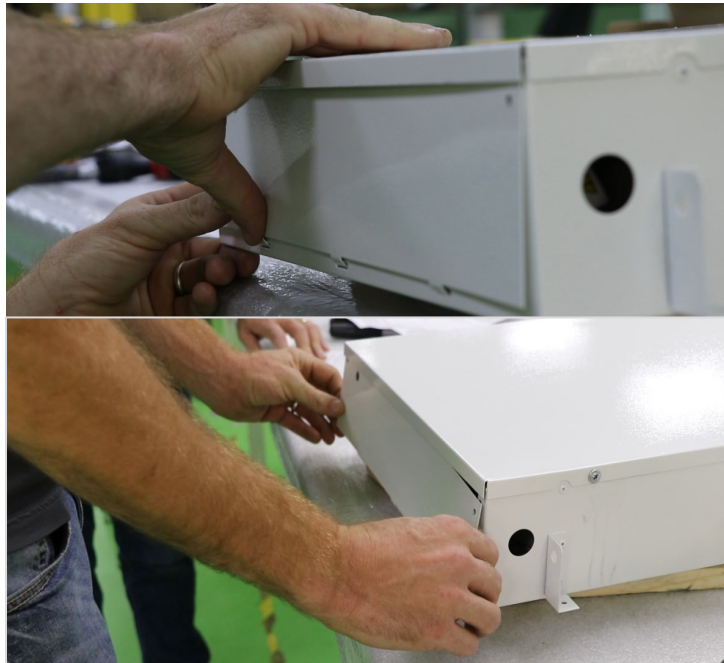


Figure 16 - Remove Air Guardian electrical panel

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Figure 17 - access to electrical panel

Step 2:

Identify correct wires - green=ground, black=line, white=neutral

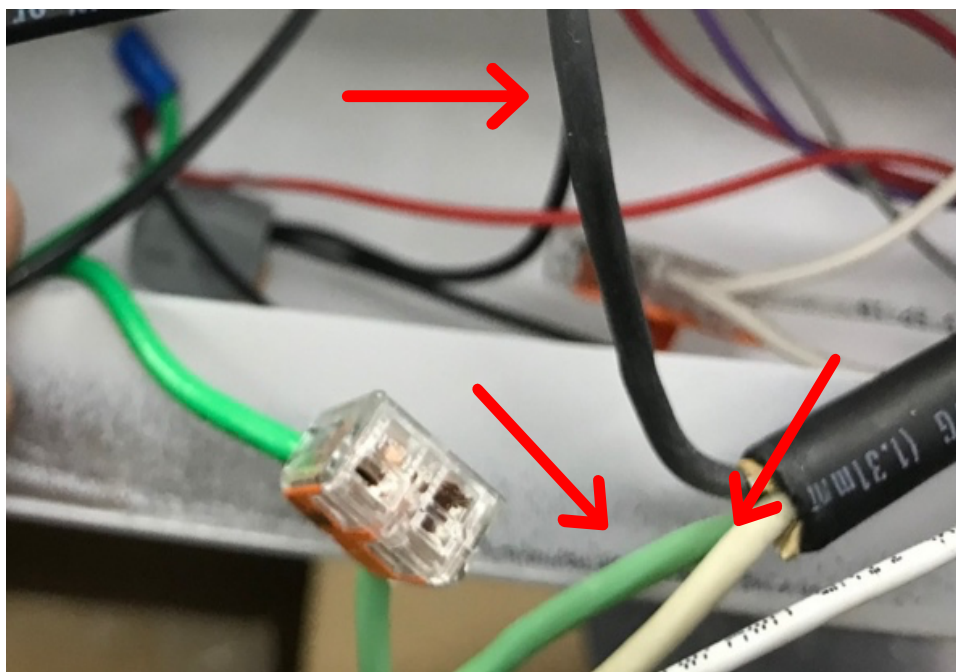


Figure 18 - identify proper wires

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Step 3:

Install Wire Input Guide Fitting into wiring opening.

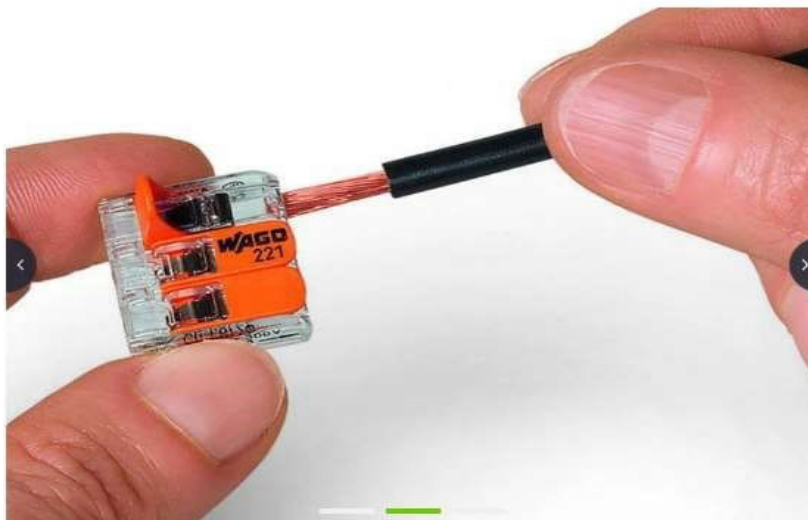


Figure 19 - install the wire guide fitting into the wiring opening on Air Guardian box

Step 4:

Connect input wires to Wagos. (Refer to Wago wiring instructions below).

Series 221: Conductor termination



Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

Figure 20 - Connect input wires to Wago lever nut connectors

Step 5:

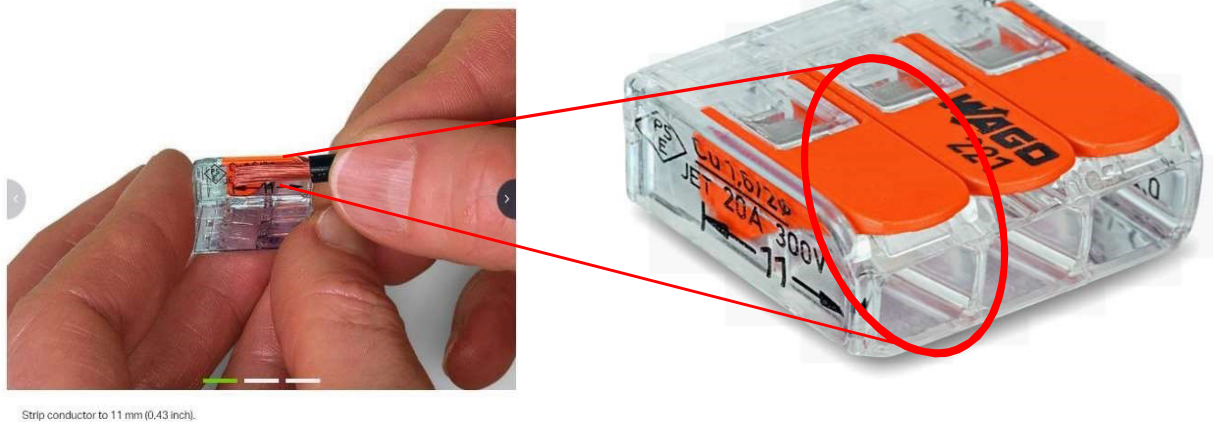
Replace electrical panel on the fixture.

WAGO 221 Series Lever-Nut® User Instruction Sheet

Step 1:

Strip the wire conductor to the proper length as shown here. Use the wire strip gauge on the side of the connector as your guide.

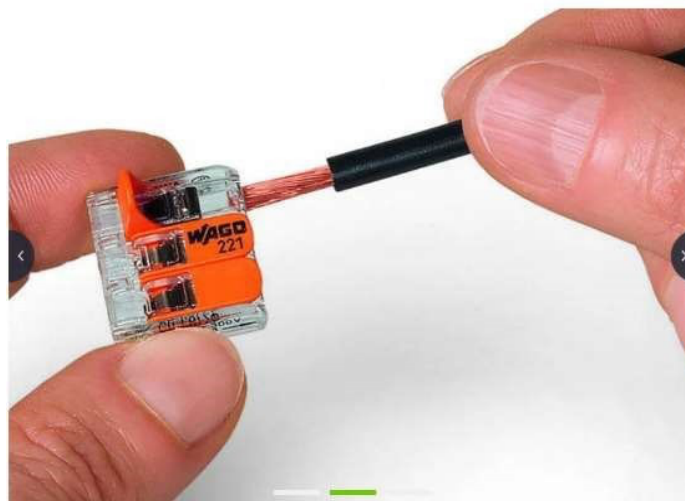
Series 221: Conductor termination



Step 2:

Flip-up lever(s) and FULLY INSERT WIRE AS SHOWN BELOW. Use clear sight case to verify proper insertion.

Series 221: Conductor termination



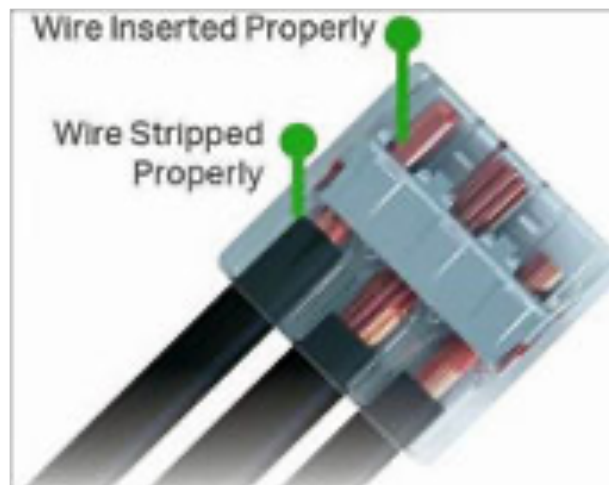
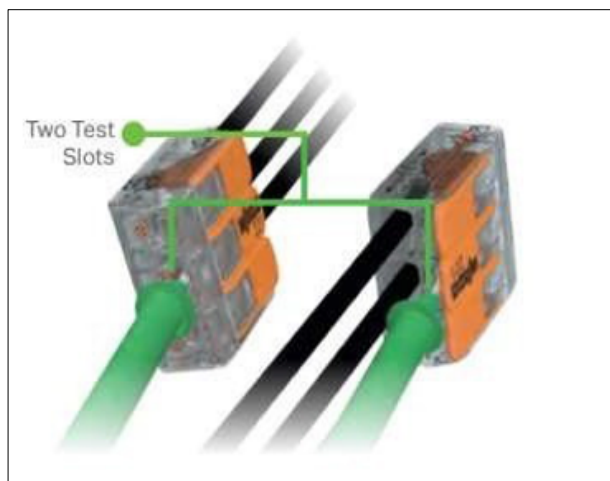
Termination: Lift the lever to open the clamping unit and insert a stripped conductor.

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Step 3:

Test the circuit (if required).

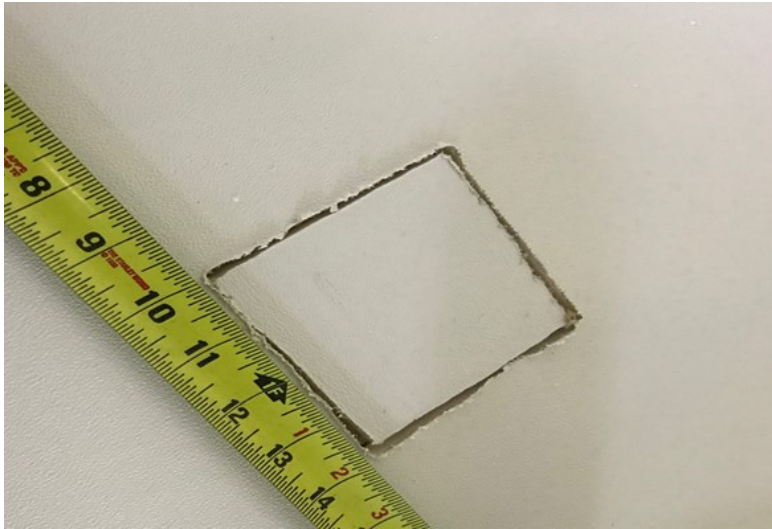
Test port is located under the lever with the WAGO name on it.



Fan Exhaust Assembly and Installation

Step 1:

Measure ceiling tile for the fan-return cut out by placing the square section of the cut-out template at the desired location.



Step 2:

Cut out the exhaust hole in ceiling tile based on the template location. Replace ceiling tile into grid when complete. Repeat Steps 1 & 2 for each ceiling tile where an exhaust ceiling port will be placed.



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Step 3

Take two of the exhaust extender fittings (included with your unit) and connect one each to the exhaust port of the Air Guardian and to one end of the exhaust hose.



Step 4:

Repeat the actions of Step 3 for as many exhaust ports and hose ends you have. (Note: This will depend on the fixture size that you are installing the exhaust for. An AG22 will have 4 exhaust ports & 8 exhaust extenders. An AG24 will have 2 exhaust ports & 4 exhaust extenders).

Step 5:

Place the rear section of the exhaust hose ceiling port, top down, into the cut out in the ceiling tile. Following this, install the finger guard on the exposed face of the tile.



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Step 6:

Connect the hose ends; one to the correct exhaust port of the Air Guardian fixture and the other to the corresponding exhaust ceiling port.



NOTE:

Installers must install fan return (*exhaust*) unit at least 5 feet away from the intake of the Air Guardian, if possible. For best air displacement, a staggered alignment is recommended.

Air Guardian TiO2 Filter Replacement

The following instructions ONLY apply when changing the TiO2 honeycomb filter is needed

Note: Turn off all power to the unit before starting.

Step 1:

Remove gloves from bag and wear before handling. Remove new finger guard with installed filter and set aside.

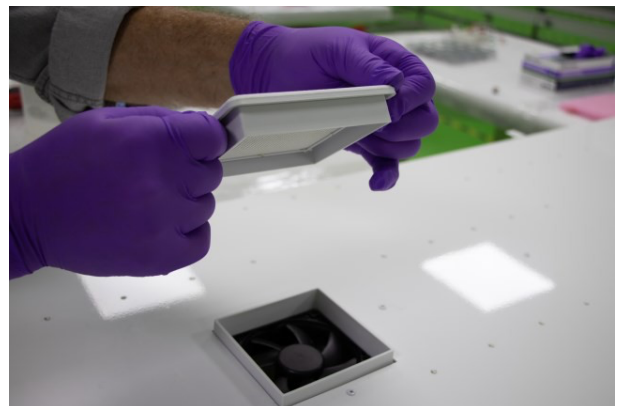
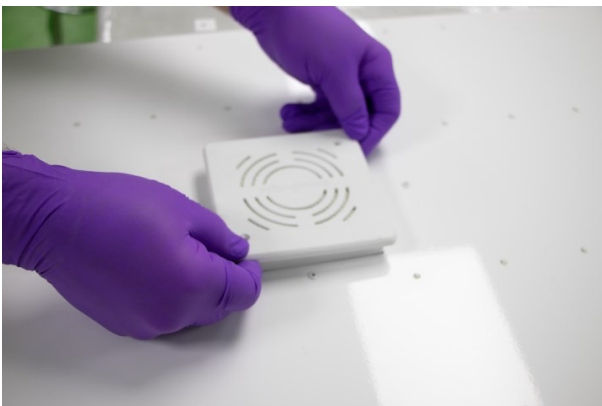
Step 2:

Remove the two screws from the finger guard unit.



Step 3:

Carefully remove the old finger guard fan unit.



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Step 4:

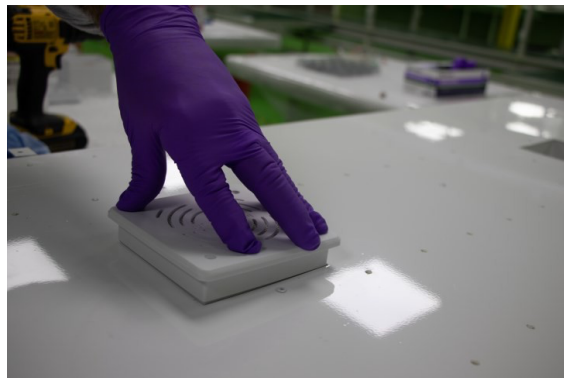
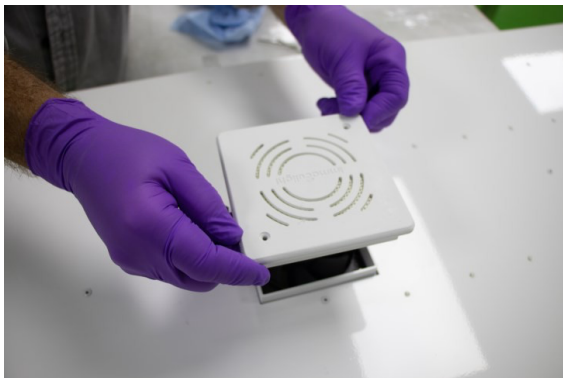
Place the old finger guard unit into the bag and seal.



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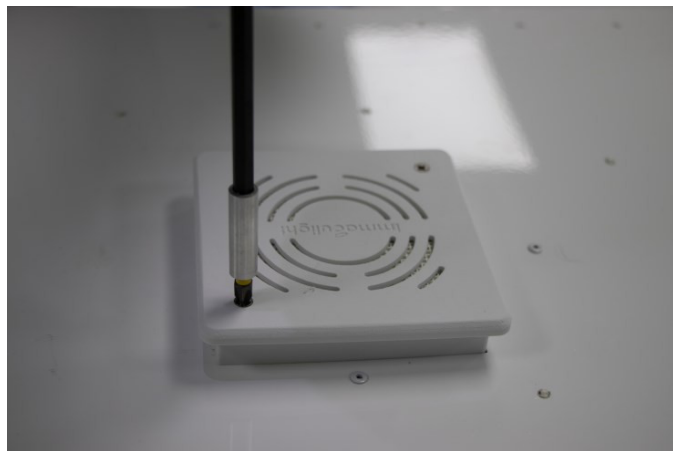
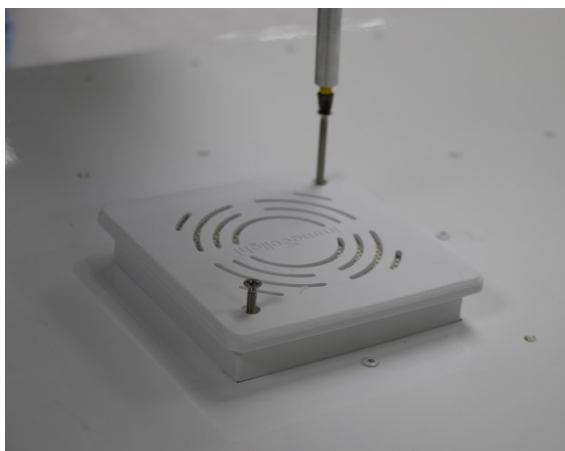
Step 5:

Set the new finger guard into place over the fan unit and press into a snug fit.



Step 6:

Set the torque no higher than 3 on your electric screwdriver. Start with one corner and screw in to about 3/4ths of the way. Make sure to line up with all holes in the fan housing unit. Then fully screw in the other corner, also making sure to line up with all holes in the fan housing unit. Then finish original corner.



Seismic Guidelines & Grid Installation Code Requirements

Regarding seismic codes and requirements for the installation of our fixtures, they would be considered comparable in their installation methodology, size, and weight of grid-mounted, ceiling lighting fixtures.

There are different seismic regions in the US (and globally) but little variation in how the grid-mounted Air Guardian fixtures would be attached to the ceiling grid/frame.

The way the grid itself is attached and supported is highly coded, with specific ways in which the grids are attached to the building structure and how they are reinforced at the edges and at cross ties.

Therefore, all contractors for Air Guardian installation should ensure that the fixtures are wired (including slack wire), mounted (using ties and wires), and affixed to the grid according to seismic requirements for the fixture rather than the grid.

While illumiPure® and its partners and contractors are not liable for the compliance of the grid to the seismic code, every contractor should carefully consider the load-bearing capabilities of the existing grid and advise the client if additional steps are needed to assure the safe installation of the device into the grid.

Installation Guidelines for Suspended Ceilings				
International Building Code (IBC)	2003 IBC ↓	2006 IBC ↓	2009 IBC ↓	2012 IBC ↓
American Society of Civil Engineers (ASCE)	ASCE7-02 ↓	ASCE7-05 ↓	ASCE7-05 ↓	ASCE7-10 ↓
Ceilings Interior Systems Construction Association (CISCA) or ASTM International (ASTM)	CISCA Zones 0-2 CISCA Zones 3-4	CISCA Zones 0-2 CISCA Zones 3-4	CISCA Zones 0-2 CISCA Zones 3-4	ASTM E580

Seismic Guidelines and Codes - Supporting References:

1. International Building Code (IBC) defines Seismic Design Categories A, B, C, D, E, and F. www.iccsafe.org
2. ASCE/SEI 7 Minimum Design Loads for Buildings and Other Structures American Society of Civil Engineers/Structural Engineer Institute (ASCE/SEI) www.asce.org ASTM E580
3. Guidelines for Seismic Restraint for Direct-hung Suspended Ceiling Assemblies (Zones 3-4) Recommendations for Direct-hung Acoustical Tile and Lay-in Panel Ceilings (Zones 0-2) CISCA Ceilings & Interior Systems Construction Association (CISCA) www.cisca.org
4. ASTM International E580/E580M Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions. ASTM International (formerly American Society for Testing and Materials) www.astm.org
5. Further References USG Seismic Ceiling Resource Center Seismic Technical Guides www.seismicceilings.com

General Operating Instructions

illumiPure® RECOMMENDS THAT YOU FOLLOW ALL SAFETY INSTRUCTIONS DURING OPERATION OF THE AIR GUARDIAN FIXTURE.

SAVE THESE INSTRUCTIONS, REVIEW WITH THE OWNER, AND DELIVER TO THE OWNER AFTER QUALIFIED INSTALLATION.

USE AND INSTALLATION

- To reduce the risk of death, personal injury, or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards, please read all warnings and instructions included with and on the fixture box fixture labels.
- Pay attention to and follow precautions provided on the warning and hazard labels on the packaging and the Air Guardian fixture.
- All power connected to the fixture should be disconnected and turned off to prevent electrical injury or death. Power supplied to the device should be connected by a qualified and licensed electrician or licensed and trained lighting technician to the control system preferred by the owner.
- The Air Guardian fixture should be installed consistent with the wiring instructions in the installation portion of this manual.
- Several commercially available controllers, with options for on/off operation, are available to the owner and operator. Any questions about the suitability or conformance of the controller should be referred to an Air Guardian Certified electrician, technician, CalyxPure® or its distribution agents.
- For optimal Air Guardian air purification performance, venting outlets should be placed such that clean air is vented into the airspace at a distance from the Air Guardian air intake vent(s). The length of the distance may vary depending on the room space, but vents should be positioned such that vented clean air is not immediately re-ingested.
- Should further information be desired, or should problems arise which are not covered sufficiently for the purchaser's or owner's purposes, contact CalyxPure or the distributor for further instructions or guidelines.
- Do not impede or block airflow intake vents into Air Guardian fixtures.
- Do not restrict the ventilation of air released from Air Guardian.

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer of the device. Contact information can be found at www.illumipure.com.

Before servicing or cleaning the unit, switch power off at the service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

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**DO NOT INSTALL IN A COOKING AREA
(NE PAS INSTALLER PRES D'UN APPAREIL DE CUISSON)**

HAZARDS

- Do not install a visibly damaged product.
- This device has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.
- Do not try to open the device access panel or any part of the device during operation.
- Do not immerse the Air Guardian device in liquids of any kind as it may cause hazardous results, including injury and warranty violation. (See Terms and Conditions in the CalyxPure Agreement).

INSTALLATION AND SERVICE

Before installing, servicing, or performing routine maintenance upon this equipment, follow all precautions listed here and those consistent with any interaction with a powered electrical device.

Installation and service of the Air Guardian® device should be performed by a qualified and licensed electrician or licensed and trained lighting technician who is familiar with all electrical, venting, and in-plenum codes.

MAINTENANCE

- Maintenance of the Air Guardian® should be performed by a person(s) familiar with the fixture's design which allows for access and maintenance. Such a person shall also be familiar with the operation of the fixture and any associated operating or electrical hazards involved.
- The device is intended to be operated continuously for maximum air purification and infection prevention.

CLEANING

- Inspect the device regularly for any noticeable dirt or particles that may be found inside the device chambers.
- Inspection should occur after a period of 90 days. Based upon any particles or dirt found during the initial inspection period, inspection and cleaning, if needed, should be performed every 12 months.
- It may occasionally be necessary to clean the outside of the intake and exhaust vents. The frequency of cleaning will depend on the level of dirt or particles in the ambient air.
- Should vent assembly become visibly dirty on the outside surface, wipe the surface with non-caustic cleaning agents as necessary. If the vent appears obstructed or clogged in any way, remove the vent cover per the installation guidelines and clean any visible obstructions as needed.
- If purchased as part of the exhaust kit, HEPA / charcoal filters should be replaced as needed. Replacement requirements will vary by use case. It is recommended that replacement should be done no longer than 180 days after the last replacement. Replacement filters are available from CalyxPure or their licensed distribution or sales agents.
- TiO₂ honeycomb filters should be periodically inspected based on the use case and are designed for easy access by qualified technicians per the installation guidelines herein. These ceramic filters are designed to last 24 months and, depending on conditions, may not need a replacement for 36 months.
- While TiO₂ honeycomb filters are designed for an extended lifespan, they may need to be periodically rinsed using a mild, highly diluted solution of distilled water and bleach in a solution no greater than .25 ml per gallon of distilled water. This should not be needed during the first 12 months of operation.
- Follow installation instructions and hazard warnings during filter removal and replacement.

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Inspecting, cleaning, and maintenance services are available from your Air Guardian distribution vendor or can be arranged through CalyxPure.

REGARDING UV RADIATION AIR-CLEANING APPLIANCES

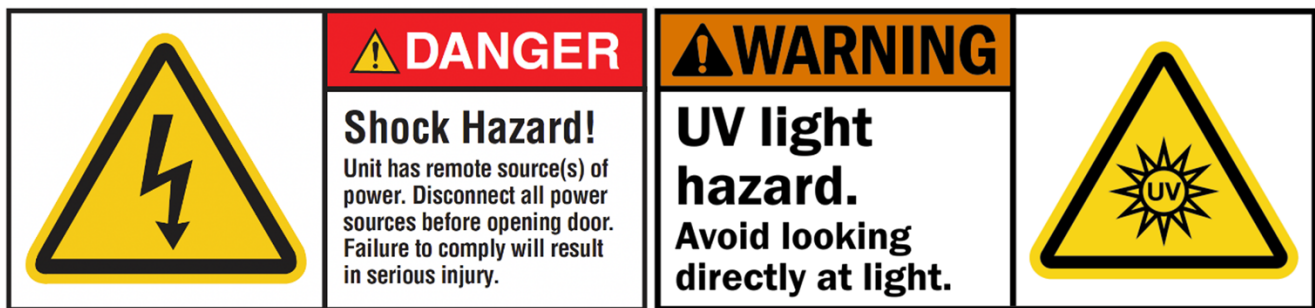
This appliance contains a UV-C ultraviolet light emitter.

Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in small doses, cause harm to the eyes and skin.

Replacement of the UV-C emitter must only be performed by a licensed professional who has been certified by CalyxPure for UV emitter/board replacement.

Please see product-specific installation instructions for additional warnings or any applicable FCC or other regulatory statements.

FAILURE TO FOLLOW ANY OF THESE INSTRUCTIONS COULD VOID PRODUCT WARRANTIES.



AIR GUARDIAN 2x2 PRODUCT LABELING v2

Product:

Air Guardian Enclosed UVC Disinfection Air Chamber – 2x2
OR
Air Guardian Enclosed UVC Disinfection Air Chamber – 2x4
OR
Air Guardian Enclosed UVC Disinfection Air Chamber – 1x2

Produced by: CalyxPure, Inc.

Powered by illumiPure, Inc.

14340 Torrey Chase Blvd.

Houston, TX 77014

FDA Establishment Number: 3017489474

EPA Product Establishment Number: 9810S-TX-1

FDA Product Use Classification: Medical Device Class 1 Listing #D420497

FDA Updated Product Use Classification: Class II Device – granted through FDA 880.6500 exemption. This product is a device which does not contain any pesticidal ingredients and does not require an EPA registration number.

Hazard and Precautionary Statement: This device uses electrical current for its operation and should only be installed by qualified personnel performing maintenance or servicing procedures. All electrical power should be disconnected and/or disabled during all maintenance or service operations. Failure to follow these instructions can be hazardous and may invalidate the product warranty.

Directions for use: This device should be installed and operated in compliance with the written instructions included in the Operating Manual (HEREIN) as well as any supplemental written instructions provided in the product packaging or online at www.illumipure.com.

Scan QR Code below to view the Air Guardian Installation Video.

