



# Ceiling-Mount Air Cleaner

## HA-CMP-G2-W

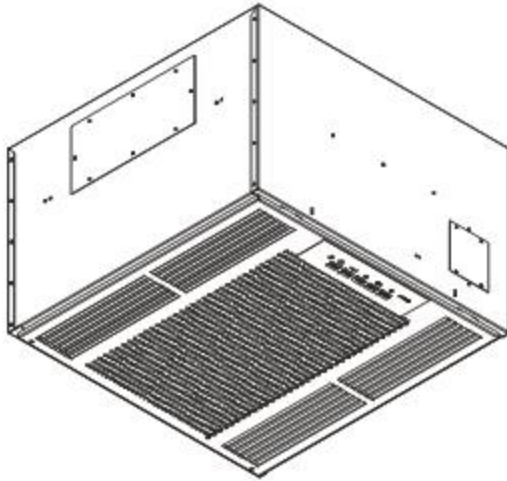
### Owner's Manual

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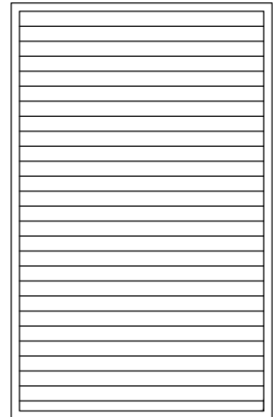
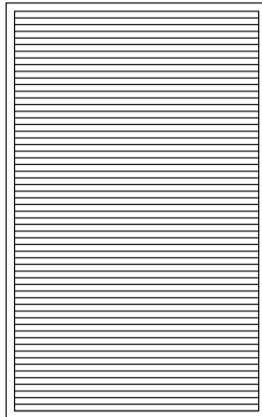
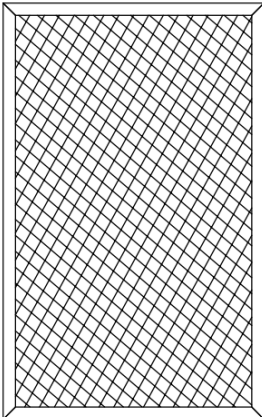
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**Healthy Air Inc.**  
**800-259-2535**  
**[www.HealthyAir.com](http://www.HealthyAir.com)**

# HealthyAir® HA-CMP-G2-W Ceiling-Mount Air Cleaner



with  
**HealthyAir® Series 1219-CM  
Filters**



at  
**[www.HealthyAir.com](http://www.HealthyAir.com)**



**⚠ WARNING**

Cut power to the unit before servicing or replacing filters. Failure to do so could result in serious personal injury and death.

## I. Important Safety Instructions

Read the Owner's Manual and Important Safety Instructions carefully. Failure to follow these instructions could cause a malfunction of the filter or unsatisfactory performance. Follow a regular service and maintenance schedule for efficient operation.

To reduce the risk of electric shock, fires, and/or injury:

- Do not use the air purifier in wet or damp locations
- Do not use outdoors
- Do not use at ambient temperature of above 95°F/35°C
- Do not use fabrics or other material to cover the inlet and outlet of the unit
- Do not allow children to operate or play with the unit

For safety reasons and to prevent electric shock, cut power to the unit under the following conditions:

- When not in use for a long period of time
- When cleaning, servicing the machine or during replacement of filters
- When moving the air purifier

To prevent electric shock, do not dismantle, repair or modify this product. Maintenance and cleaning instructions should be followed exactly as directed in this manual. In case of malfunction, please contact an authorized distributor or Healthy Air Inc. for service instructions.

To reduce the risk of electric shock, the unit has grounding type wiring that has a third (grounding) wire. The unit must be hard wired and all wiring must comply with applicable electrical codes and ordinances. Do not alter the wiring.

## II. Technical Specifications

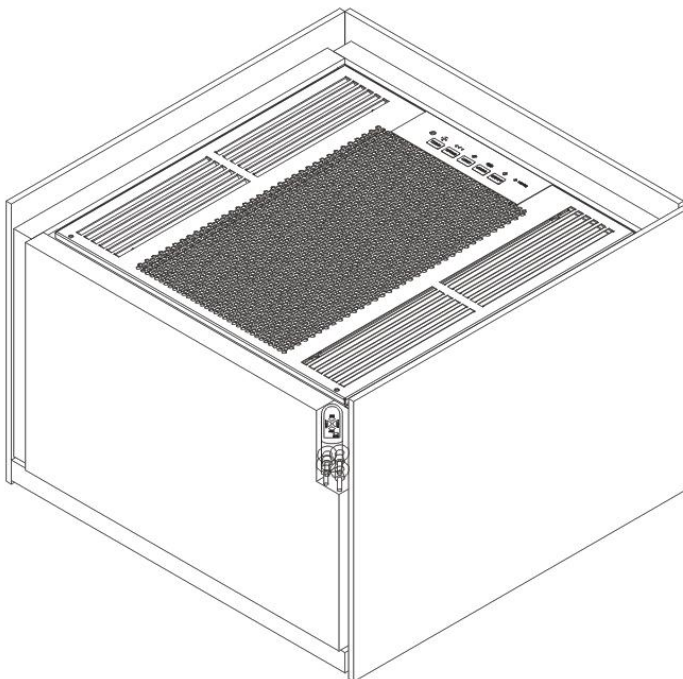
|                   |                                 |
|-------------------|---------------------------------|
| Model Number      | HA-CMP-G2-W                     |
| Rated Voltage     | 120V/60HZ                       |
| Power Consumption | 200W                            |
| Weight            | 65 lbs. (29.5 kg)               |
| Base Dimensions   | 24x24x15.4 in. (600x600x392 mm) |
| Air Flow Rate     | 550 cfm (930 m <sup>3</sup> /h) |
| Noise Level       | 56 dB                           |

### III. Packaging Reference

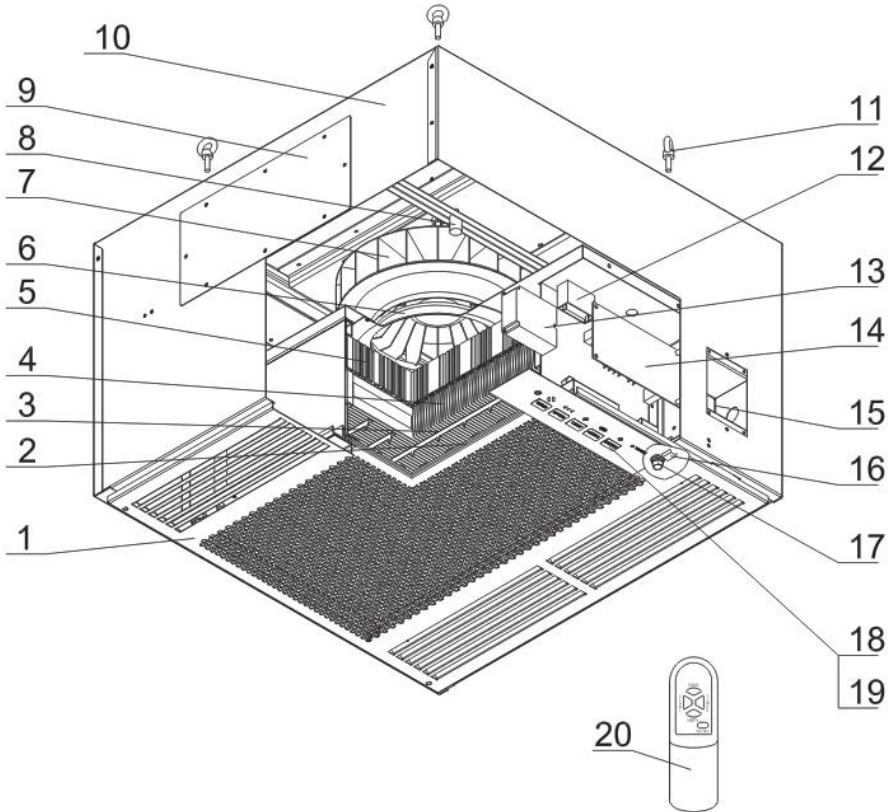
The Ceiling-Mount Air Cleaner is shipped in one (1) carton, that contains the following:

- (1) Air Purification Unit
- (3) Filters
- (4) Eye Bolts
- (1) Remote Control
- (1) Manual

**Note:** The Ceiling-Mount Air Cleaner is to be hard wired and does not have a power cord.



## IV. Component Reference



1. Face Plate
2. Pre-Filter
3. eGrid
4. eHEPA® Filter
5. Activated Carbon Filter
6. Fan Coil
7. Blower/Motor
8. HV Contact Spring
9. Outside Vent Outlet Port
10. Main Box

11. Eye Bolt
12. Capacitor
13. HV PCB
14. PCB Board
15. Wiring Box
16. Safety Switch
17. Fuse
18. Control Panel
19. Control Panel Display
20. Remote Control

# V. Installation Instructions

## 5.1 Installation of Eye Bolts

- 5.1.1 Carefully place the unit face down, as shown in Fig. 1.
- 5.1.2 Screw the four (4) Eye Bolts into the respective rivet nuts, located at the four corners of the Bottom Plate.
- 5.1.3 Ensure that each Eye Bolt is fully and securely installed.

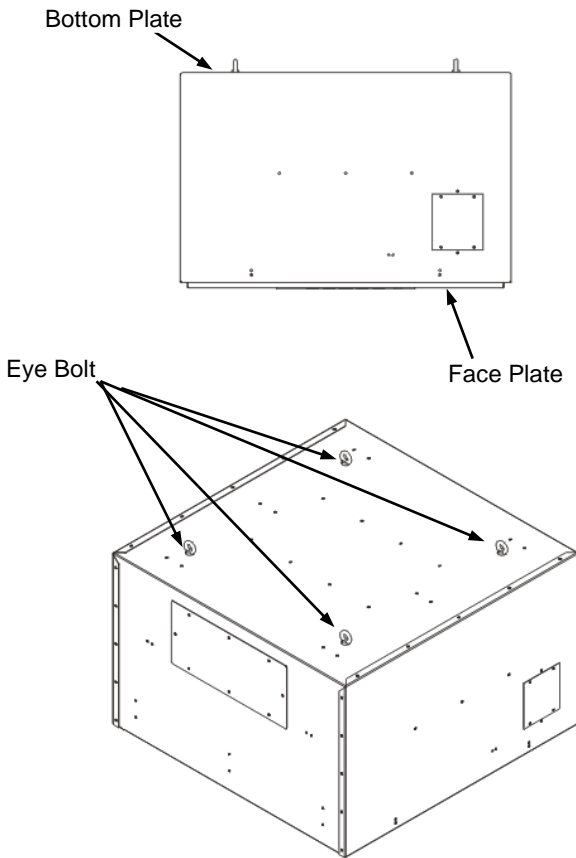


Fig. (1) – Installing Eye Bolts

# V. Installation Instructions

## 5.2 Optimal Unit Location

The standard HealthyAir® Ceiling Mount Air Purification System recirculates air back into the facility, after it is purified in a 3-stage filtration process.

**Note:** Locate and install the unit such that it can be easily accessed and opened for periodic filter replacement. Refer to Section 9.2 for details.

- 5.2.1 It is best to install the unit in the center of the room, so that contaminated air is drawn into the bottom of the unit and clean air is evenly discharged from the sides. This dynamic creates a circular flow pattern, referred to as Coanda Flow, as shown in Fig. 2.

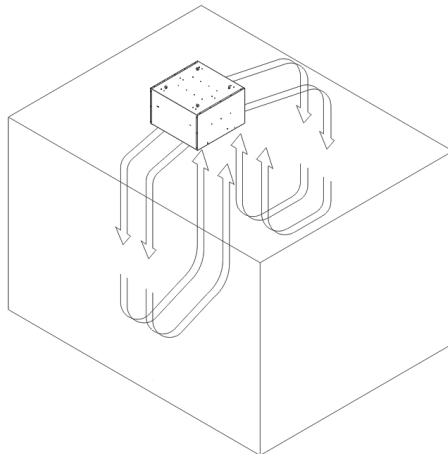


Fig. (2) – Coanda Flow Pattern

- 5.2.2 The unit is designed to be installed in place of a standard 2'x2' ceiling tile, and it must be securely attached to the building structure for adequate support.
- 5.2.3 Depending on the type of building structure, whether the ceiling has an I-Beam or concrete construction, follow the appropriate protocol for proper installation and support of the unit.



# V. Installation Instructions

## 5.3 Mounting to I-Beam Ceiling Structure

Using Fig. 3 as a guide, install the HealthyAir® Ceiling Mount Air Purification System in accordance with all applicable building and mechanical codes.

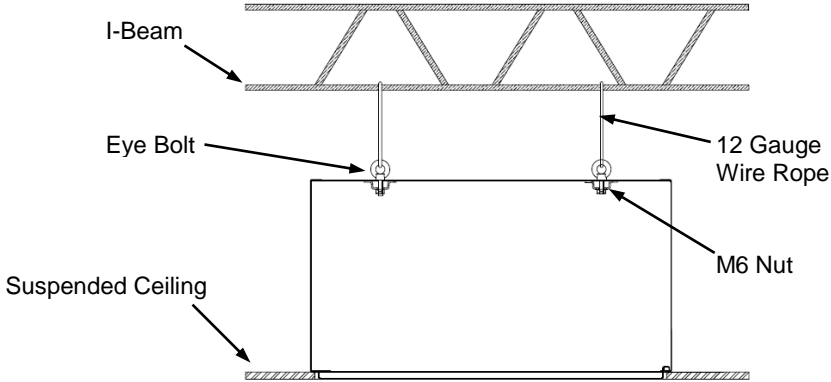


Fig. (3) – Mounting Unit to I-Beam Ceiling

## 5.4 Mounting to Concrete Ceiling Structure

Using Fig. 3 as a guide, install the HealthyAir® Ceiling Mount Air Purification System in accordance with all applicable building and mechanical codes.

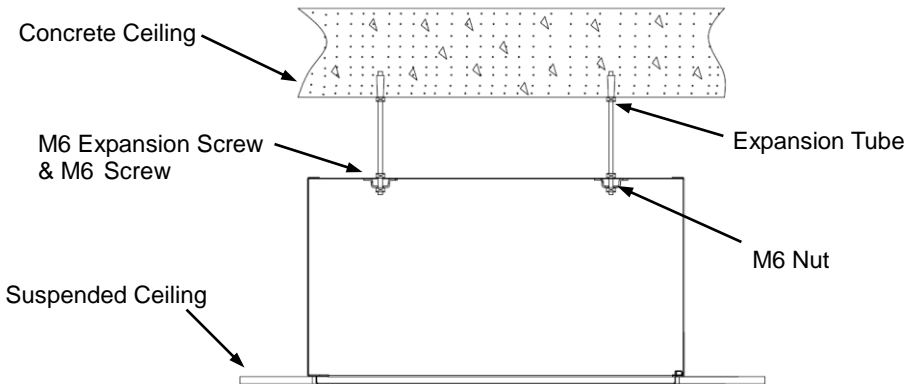


Fig. (4) – Mounting Unit to Concrete Ceiling

# V. Installation Instructions

## 5.5 Outside Vent Application

The HealthyAir® Ceiling Mount Air Purification Outside Vent System is designed to enable filtered air to be discharged from the facility via exhaust ducting.

The unit is equipped with two (2) 4"x10" Outside Vent Outlet Ports and (2) Outlet Port Cover Plates, that allow the exhaust duct to either be connected to the right or left side of the unit depending on which configuration is preferred.

- 5.5.1 Determine the ideal exhaust duct configuration given the arrangement of the facility.
- 5.5.2 Remove the Outlet Port Cover Plate, from the corresponding Outside Vent Outlet Port, by unscrewing the eight (8) screws, shown in Fig. 5.

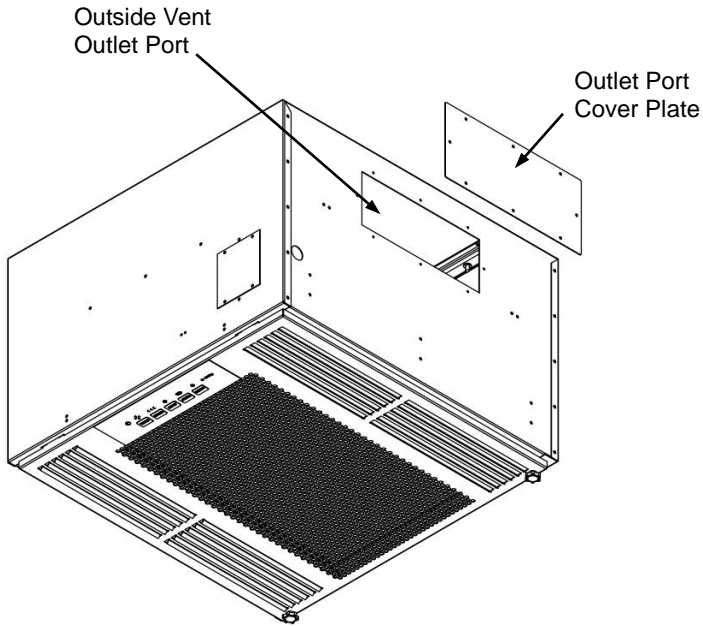


Fig. (5) – Outside Vent Outlet Port and Cover Plate

## V. Installation Instructions

### 5.5 Outside Vent Application

- 5.5.3 Install the HealthyAir® Ceiling Mount Air Purification System in accordance with the instructions provided in Sections 5.1-5.4 herein.
- 5.5.4 Connect a universal 4"x10" to 6" Ø Transition (not supplied) to the Outside Vent Outlet Port and ensure that the junction is secure.
- 5.5.5 Connect a 6" Ø Exhaust Duct (not supplied) to the Transition and ensure that the junction is secure.
- 5.5.6 Run the Exhaust Duct out of the facility per applicable IMC codes.

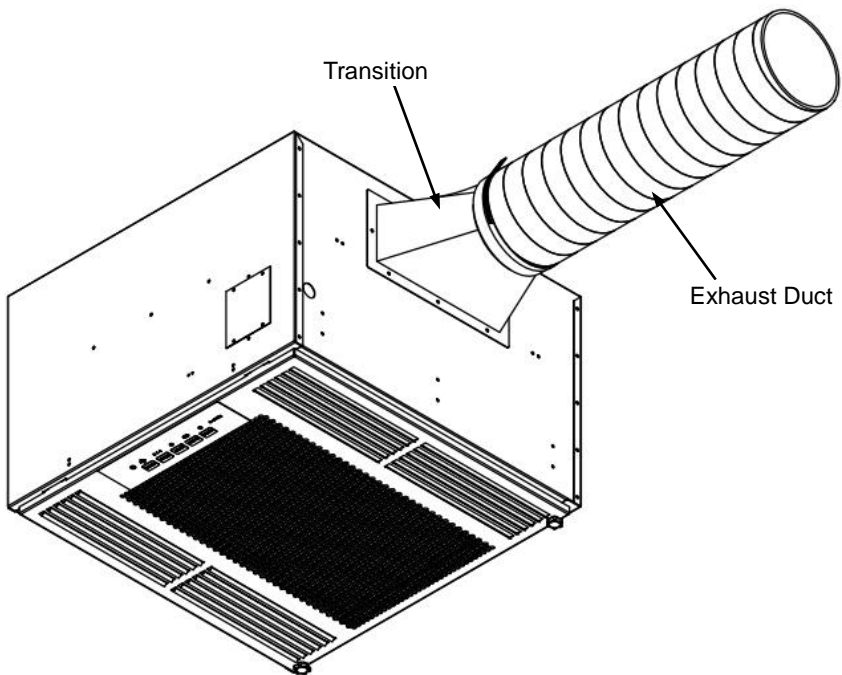


Fig. (6) – Outside Vent Transition and Exhaust Ducting

# V. Installation Instructions

## 5.6 Converting Recirculating Vent to Outside Vent (Optional)

The HealthyAir® Ceiling Mount Air Purification Recirculating Vent System can be converted to a HealthyAir® Ceiling Mount Air Purification Outside Vent System by installing Outlet Vent Cover Plates on the back of the Face Plate.

Conversely, the HealthyAir® Ceiling Mount Air Purification Outside Vent System can be converted to a HealthyAir® Ceiling Mount Air Purification Recirculating Vent System by removing the Outlet Vent Cover Plates from the back of the Face Plate.

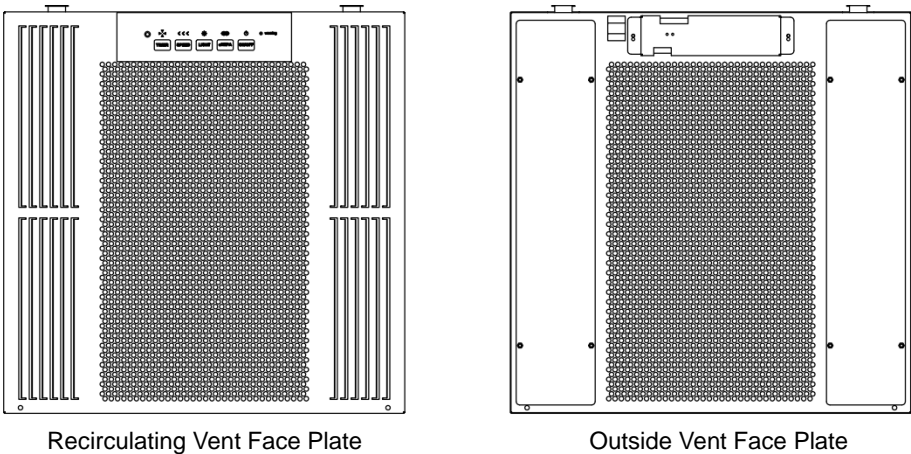


Fig. (7) – Recirculating Vent and Outside Vent Face Plates

- 5.6.1 Unscrew and remove the two (2) Thumb Screws at the base of the Face Plate, as shown in Fig. 8.
- 5.6.2 Open the Face Plate and swing it open about 90° to access the back side of the Face Plate, as shown in Fig. 8.
- 5.6.3 There are two (2) Outlet Vents on the Face Plate. On the back side of the Face Plate, each Outlet Vent has four (4) Threaded Studs. Locate the eight (8) Threaded Studs on the back of the Face Plate, as shown in Fig. 9.

# V. Installation Instructions

## 5.6 Converting Recirculating Vent to Outside Vent (Optional)

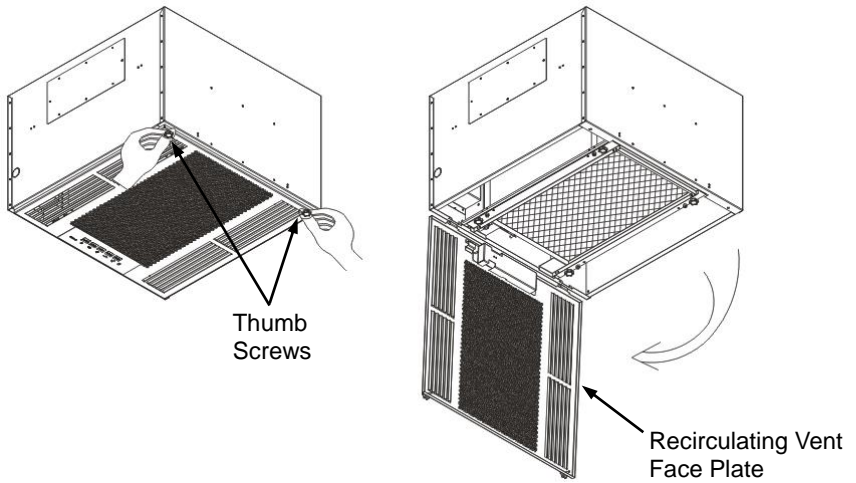


Fig. (8) – Opening Face Plate

5.6.4 Locate and remove the eight (8) Hex Nuts that are preinstalled on the back of the Face Plate, as shown in Fig. 9.

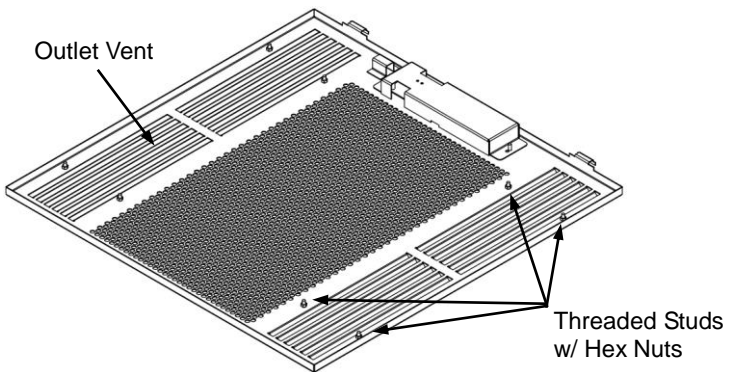


Fig. (9) – Back Side of Face Plate

# V. Installation Instructions

## 5.6 Converting Recirculating Unit to Outside Vent (Optional)

5.6.5 Locate the two (2) Outlet Vent Cover Plates, shown in Fig. 10.

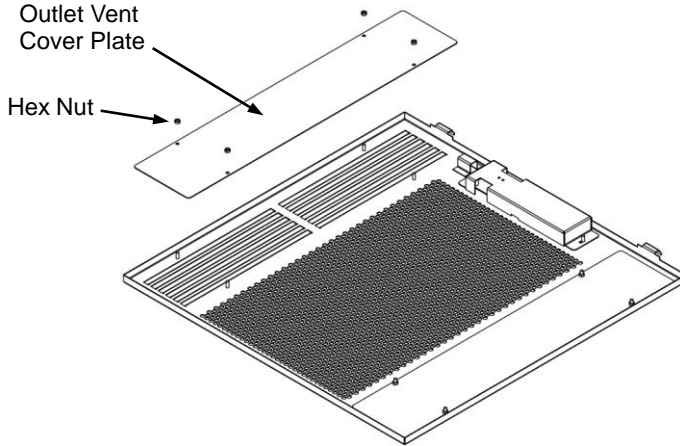


Fig. (10) –Outlet Vent Cover Plates

5.6.6 Install the Outlet Vent Cover Plates on the Face Plate Outlet Vents, as shown in Figs. 10 and 11.

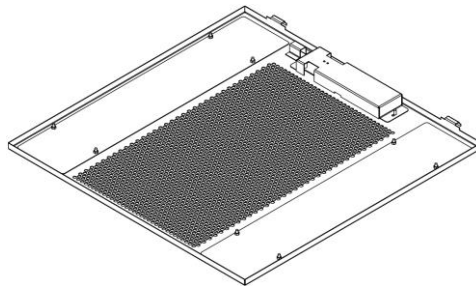


Fig. (11) – Installation of Outlet Vent Cover Plates on Face Plate

## V. Installation Instructions

### 5.6 Converting Recirculating Unit to Outside Vent (Optional)

5.6.7 Reinstall the eight (8) Hex Nuts to secure the Outlet Vent Cover Plates on the Face Plate.

5.6.8 Close the Face Plate and reinstall the two (2) Thumb Screws, as shown in Fig. 12.

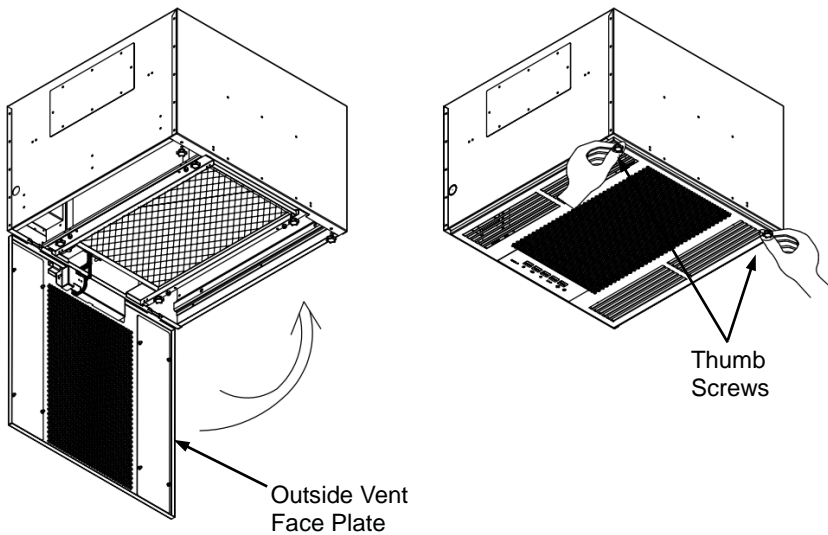


Fig. (12) – Securing Outside Vent Face Plate

## VI. Electrical Wiring Instructions

**Note:** The HealthyAir® Ceiling Mount Air Purification system must be hard wired when recess mounted. All wiring must comply with applicable electrical codes and ordinances.

### 6.1 Instructions to Hard Wire 120V AC, 60 Hz

- 6.1.1 Install a 15 Amp external circuit breaker to bring power to the unit.
- 6.1.2 Run three (3) No. 14 Color-Coded Wires through the conduit to the Wiring Box of the unit, as shown in Fig. 13.
- 6.1.3 Attach the Green wire to the external Ground. Note that, the Black wire and White wire are the power carries.
- 6.1.4 Attach the conduit to the knockout.
- 6.1.5 Attach the Green ground wire to the ground screw and to the terminal marked G in the Wiring Box. Ground the unit for proper operation and safety.
- 6.1.6 Attach the Black wire to the terminal marked L and the White wire to the terminal marked N in the Wiring Box, as shown in Fig. 13.

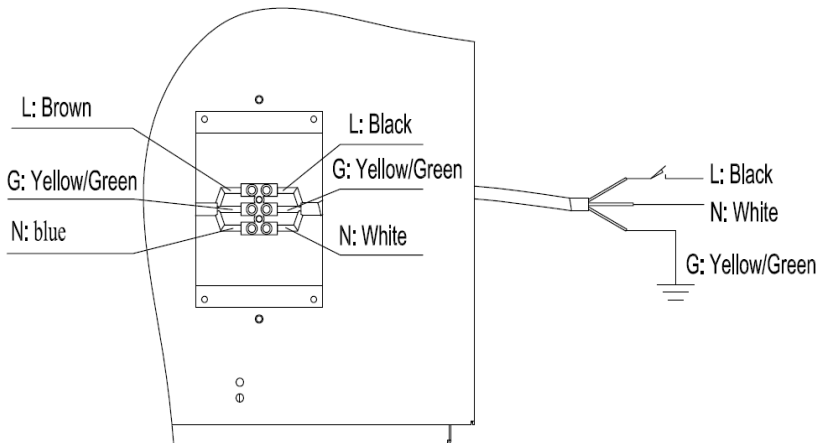


Fig. (13) – Electrical Wiring Diagram



# VII. Electrical Wiring Schematic

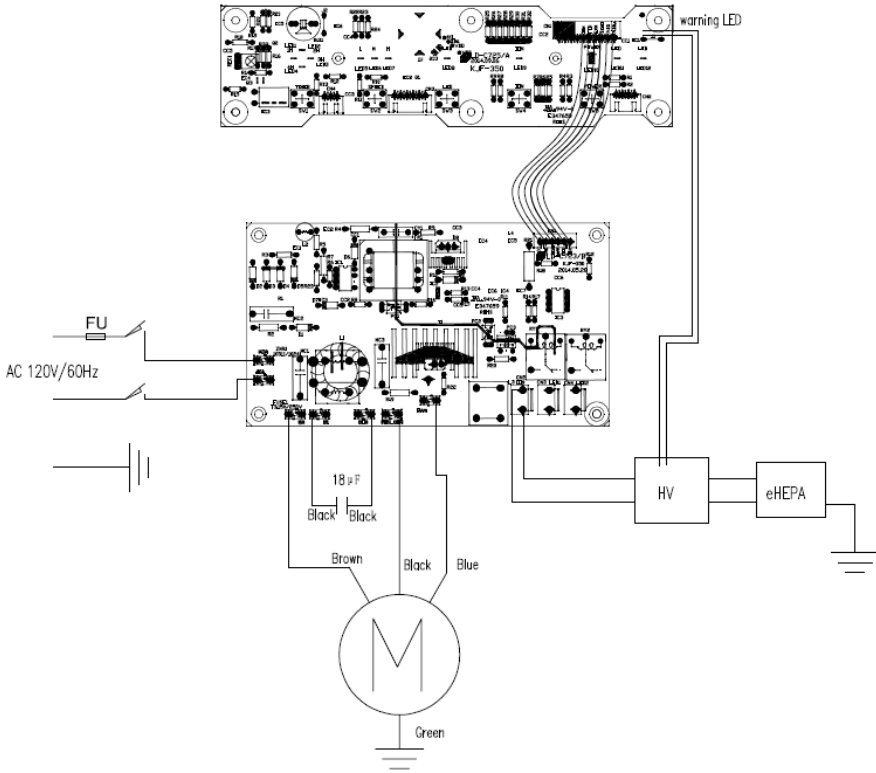


Fig. (14) – Electrical Wiring Schematic

# VIII. Operation Guidelines

## 8.1 Power Supply and Activation

The input power to the unit should include an external circuit breaker with a minimum 15 Amp current rating.

- 8.1.1 Provide power to the unit by turning the circuit breaker to the ON position.

Once the circuit breaker is on, the Power indicator light [  ], on the Control Panel, will turn on and display a red light.

- 8.1.2 Activate the unit by pressing the Power button located on the Control Panel, shown in Fig. 15, or on the Remote Control.

Once the unit is powered, the motor will start with the Fan Speed set to the Mid-Speed and the eHEPA® indicator will light up and display a green light, which indicates that the eHEPA® system is activate.

## 8.2 System Controls

Each of the respective control elements shown on the Control Panel Display in Fig. 15 work as follows:

- **SPEED** button, on the Control Panel and Remote Control, adjusts the volume of airflow being taken in through the hood. Airflow speed can be adjusted to one of three settings: Low – Mid – High Speed.
- **eHEPA** button, on the Control Panel and Remote Control, turns the eGrid on and off. When the eGrid is powered the symbol above the eHEPA button, as well as the eGrid Active light, will turn green. Pressing the eHEPA button once more will shut off the eGrid and turn off the indicator light.
- **TIMER** button, on the Control Panel and Remote Control, is for operation of the timing clock. When this feature is in use the unit will automatically shut off after the set time expires. The system's default timing is 4 hours of operation.

# VIII. Operation Guidelines

## 8.2 System Controls

- **TIMER**

To set the timer manually, press the TIMER button once for every hour you wish to run the machine (i.e. press TIMER once for 1-hour of run time, press TIMER twice for 2-hours of run time, press TIMER three times for 3-hours of run time, and press TIMER four times for 4-hours of run time).

If the TIMER button is pressed five (5) times, such that it passes through the complete timing schedule, it will run continuously until the unit is manually turned off.

- **eGrid Active** indicator light, on the Control Panel, indicates the status of the eHEPA® and eGrid system. When the eGrid Active indicator light is on, while the eHEPA button is on, the eGrid is functioning properly. If the eGrid Active indicator light is off, while the eHEPA button is on, it signals that the eGrid is malfunctioning and the unit requires service.
- **LIGHT** button, on the Control Panel and Remote Control, is inactive.

Note that, LED lighting is an optional feature only on HealthyAir® Ceiling Mount Source Capture® Air Purification Systems.



Fig. (15) - Control Panel Display

# IX. Filter Replacement

## 9.1 Replacement Filter

The HealthyAir® Ceiling Mount Air Purification System (HA-CMP-G2) utilizes the **HealthyAir® Series 1219 Replacement Filters**, as follows:

- **HealthyAir® Pre-Filter**  
Model No. HA-PF-1219
- **HealthyAir® eHEPA® Filter**  
Model No. HA-EH-1219
- **HealthyAir® Activated Carbon Filter**  
Model No. HA-CC-1219

Note that, only manufacturer supplied HealthyAir® Replacement Filters are compatible with HealthyAir® Ceiling Mount Air Purification Systems. No other replacement filters are to be used with this unit. The improper use of non-manufacturer supplied filters will void any potential warranty claim.

## 9.2 Filter Change

When the unit has been in operation for 400-hours, the Filter Change indicator light, on the Control Panel, will begin to flash indicating that the filters must be replaced, as follows:

**Note:** Depending on usage and contaminates in the environment, the filter may need to be replaced before the 400-hour default cycle expires. Contact a representative to determine if you need to replace the filter more frequently.

- 9.2.1 Turn the unit Power Off and cut the power supply to the unit by setting the external circuit breaker to the Off position.
- 9.2.2 Unscrew and remove the two (2) Thumb Screws on the Face Plate, to allow the Face Plate to swing open, as shown in shown in Fig. 16.

**Caution:** Take care when opening the Face Plate to ensure that the hinge remains engaged, so that the Face Plates does not fall off.

# IX. Filter Replacement

## 9.2 Filter Change

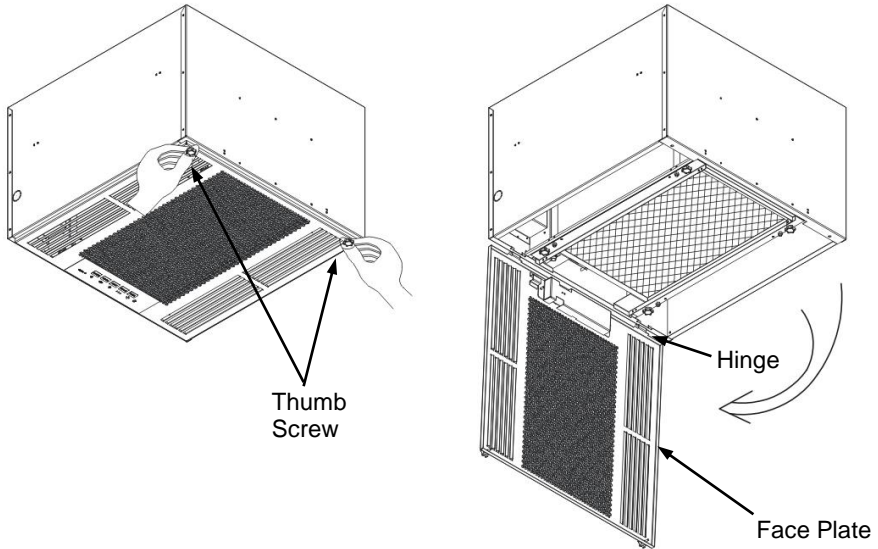


Fig. (16) – Opening Face Plate to Access Filters

- 9.2.3 Unscrew and remove the four (4) Thumb Screws, which secure the Filter Housing, as shown in Fig. 17.
- 9.2.4 Gently pull the Filter Housing straight down, to access the filters. The Filter Housing slides down a track comprised of four rods. Ensure that the Filter Housing is evenly pulled down, as shown in Fig. 17.
- 9.2.5 Remove the used Pre-Filter, eHEPA® Filter, and Activated Carbon Filter from the Filter Housing.

**Caution:** The HV Contact Spring may store a slight charge even after the unit is powered off. Avoid direct contact with the HV Contact Spring after the filters have been removed from the Filter Housing.

# IX. Filter Replacement

## 9.2 Filter Change

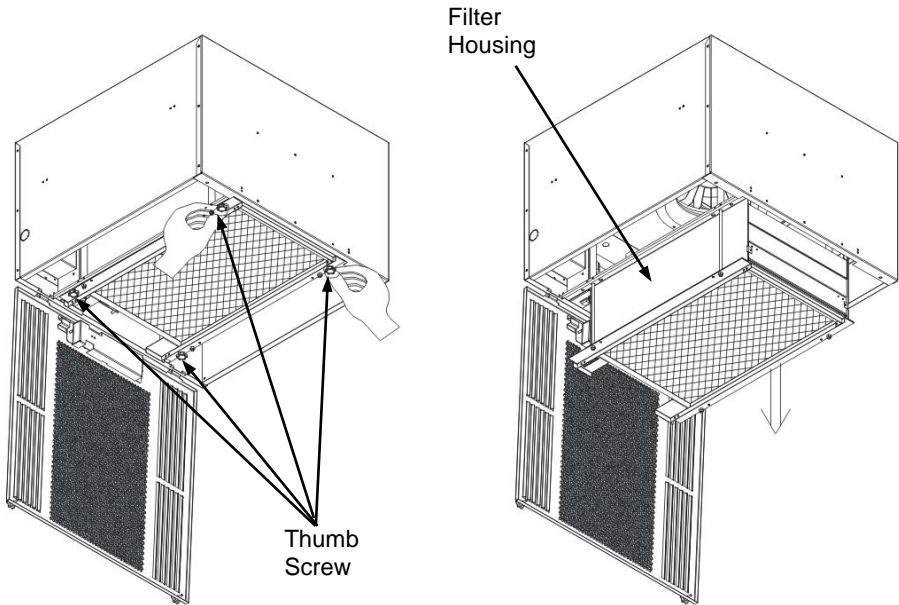


Fig. (17) –Lowering Filter Housing to Access Filters

9.2.6 Install a new set of HealthyAir® Series 1219 Replacement Filters into the Filter Housing, as follows and as shown in Fig. 18:

- Insert the HealthyAir® Pre-Filter: HA-PF-1219
- Insert the HealthyAir® eHEPA® Filter: HA-EH-1219
- Insert the HealthyAir® Activated Carbon Filter: HA-CC-1219

**Note:** Ensure that any plastic wrapping is removed from the filters prior to installing them in the unit.

# IX. Filter Replacement

## 9.2 Filter Change

9.2.7 Push the Filter Housing up to reinsert it within the unit. While holding the Filter Housing in place, screw in the four (4) Thumb Screws to secure it the housing to the body of the unit.

9.2.8 Swing the Face Plate back up, so that it is flush and properly aligned with the body of the unit and secure the Face Plate by screwing in the (2) Thumb Screws.

**Note:** Ensure that the Face Plate is properly shut, such that the Safety Switch is engaged.

9.2.9 Set the external circuit breaker to the On position and turn the Power to the unit On.

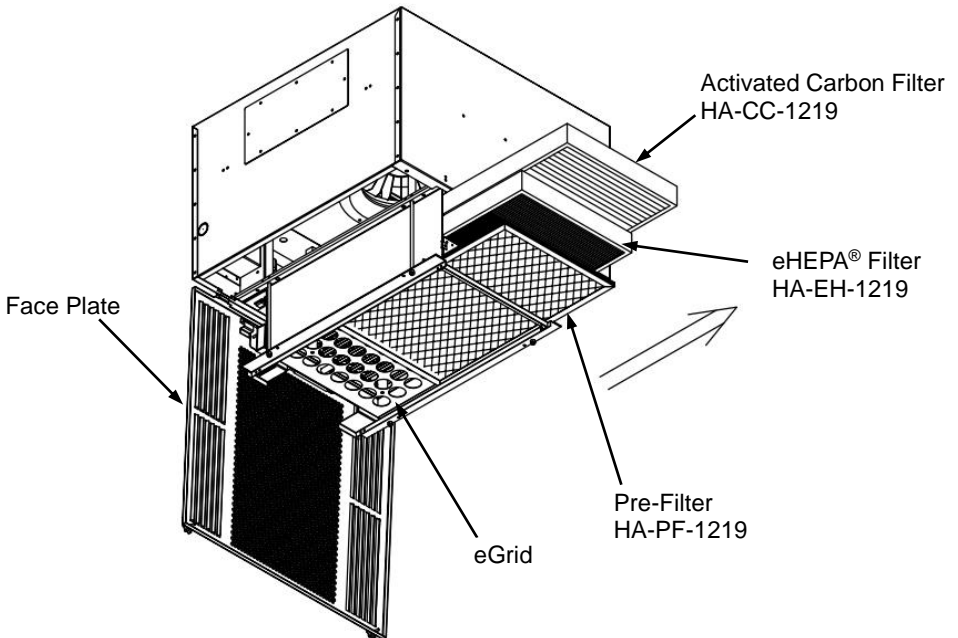



Fig. (18) – Installation of Replacement Filters

# IX. Filter Replacement

## 9.3 Filter Change Indicator Light Reset

Once the filters have been replaced and the unit is turned on, the Filter Change indicator light may continue to flash. To reset the filter change timer and deactivate the flashing light, go through the following reset procedure:

9.3.1 Turn the unit Power On.

9.3.2 Press and hold down the Power Button [  ] on the Control Panel (not the Remote Control) for five (5) seconds, while the unit continues to run.

9.3.3 After five (5) seconds, release the Power Button. The filter change timer will reset to 400-hours, after which the Filter Change indicator light will shut off.



Fig. (19) - Filter Change Indicator Light Reset



# X. Maintenance

**Caution:** The HV Contact Spring may store a slight charge even after the unit is powered off. Avoid direct contact with the HV Contact Spring after the filters have been removed from the Filter Housing.

## 10.1 Cleaning the Pre-Filter and eHEPA® Filter

To extend the effective life of the Pre-Filter and eHEPA® Filter, remove the filters from the unit from time-to-time and clean them with a standard vacuum. Refer to Section 9 for instructions to properly remove the filters.

## 10.2 Cleaning Filter Compartment

Visually inspect the interior compartment of the unit when the Filter Housing is empty during the filter replacement process. If particulate has accumulated in the unit, clean the interior compartment of the unit as follows:

- 10.3.1 Turn the unit Power Off and cut the power supply to the unit by setting the external circuit breaker to the Off position.
- 10.3.2 Vacuum and remove any debris that has accumulated in the accessible interior compartment of the unit. Then, properly replace the filters and secure all components of the unit.

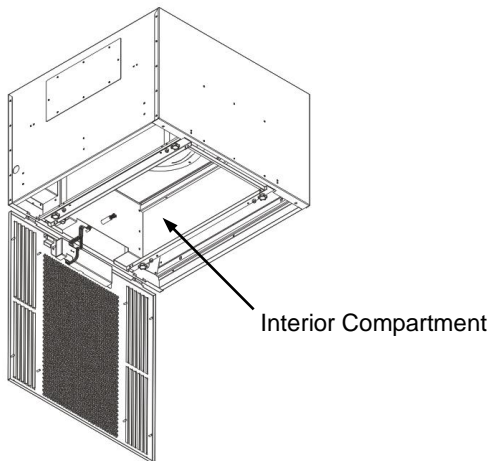


Fig. (20) – Interior Compartment

# XI. Basic Service and Troubleshooting

The Basic Service Guide should cover most performance issues. If you continue to experience issues after referring to this list, please contact Healthy Air Inc.

## 11.1 Air Purification System is Inoperable

If the unit fails to power on, the issue may be the result of one of the following causes. In some cases, the unit will require service by the manufacturer or a professionally licensed electrician.

| <b>Possible Cause</b>     | <b>Solution</b>               |
|---------------------------|-------------------------------|
| Blown Fuse                | Replace the Fuse              |
| Safety Switch not engaged | Properly close the Face Plate |
| Safety Switch malfunction | Replace the Safety Switch     |
| HV Board malfunction      | Replace the HV Board          |
| PCB Board delay function  | Reset the circuit breaker     |

## 11.2 Air Purification System Power is On but Inoperable

If the unit powers on but fails to operate properly, the issue may be the result of a faulty electrical board and will require service by the manufacturer or a professionally licensed electrician.

| <b>Possible Cause</b> | <b>Solution</b>             |
|-----------------------|-----------------------------|
| PCB Board malfunction | Reconnect/Replace PCB Board |

# XI. Basic Service and Troubleshooting

## 11.3 Air Purification System Power is On but Fan Inoperable

If the unit powers on but the fan fails to operate, the issue may be the result of a faulty motor or board and will require service by the manufacturer or a professionally licensed electrician.

| Possible Cause        | Solution              |
|-----------------------|-----------------------|
| Fan/Motor malfunction | Replace the Fan/Motor |
| PCB Board malfunction | Replace the PCB Board |

## 11.4 Reduced Airflow and/or Reduced Odor Absorption

If the fan/motor is properly functioning, but the unit exhibits reduced airflow and/or reduced odor absorption the issue may be the result of one of the following causes and may require replacement filters.

| Possible Cause                    | Solution                        |
|-----------------------------------|---------------------------------|
| Pre-Filter is fully loaded        | Clean or Replace Pre-Filter     |
| eHEPA® Filter is fully loaded     | Clean or Replace eHEPA® Filter  |
| Activated Carbon Filter saturated | Replace Activated Carbon Filter |

# XI. Basic Service and Troubleshooting

## 11.5 Filter Change Indicator Light Flashing

If the unit is properly functioning and the Filter Change indicator light is flashing, the default filter change timer has expired, and the filter should be replaced.

| <b>Possible Cause</b>             | <b>Solution</b>                |
|-----------------------------------|--------------------------------|
| Filter change cycle timer expired | Replace filter and reset timer |

## 11.6 Fan Speed Cycle Error

If the unit does not properly cycle through all three (3) fan speed settings, or the unit shuts off when cycling through the fan speed settings, the issue may be the result of one of the following causes.

Contact the manufacturer for the Control Panel reset instructions. If that does not resolve the issue, the unit will require service by the manufacturer or a professionally licensed electrician.

| <b>Possible Cause</b>       | <b>Solution</b>               |
|-----------------------------|-------------------------------|
| Control Panel program error | Control Panel reset procedure |
| Display Board malfunction   | Replace Display Board         |

# XI. Basic Service and Troubleshooting

## 11.7 Remote Control is Inoperable

If the Remote Control fails to operate the unit, the issue may be the result of one of the following causes and may require replacement parts or service by the manufacturer or a professionally licensed electrician.

| <b>Possible Cause</b>    | <b>Solution</b>        |
|--------------------------|------------------------|
| Battery nearly exhausted | Replace batteries      |
| Remote Control faulty    | Replace Remote Control |
| Display Board fault      | Replace Display Board  |

## **Healthy Air Inc. 1-Year Limited Warranty**

Healthy Air Inc. only makes this 1-Year Limited Warranty ("Limited Warranty") to the original retail purchaser who submits the enclosed Warranty Registration Card within 10 days of purchase by email to Sales@HealthyAir.com.

This Limited Warranty applies only to the repair or replacement of any manufactured or supplied part of this product which, upon inspection by Healthy Air Inc. authorized personnel, proves to have failed in normal use due to defects in material or workmanship.

The sole responsibility of Healthy Air Inc. under this Limited Warranty is, in its sole discretion, to either repair or replace a duly registered product (or defective part thereof) with the same or a comparable model within a reasonable period of time, subject to the following exclusions, limitations, statutory rights and warranty claim procedures.

This Limited Warranty is exclusive, and Healthy Air Inc. expressly disclaims all other or additional warranties, whether written or oral, expressed or implied, including, but not limited to, warranties of merchantability, workmanship, or fitness for a particulate purpose.

Retain proof of purchase and the original box and packing materials.

### **Exclusions to the Warranty**

This Limited Warranty does not apply, or is void, as to any product or part damaged by (1) accident, misuse, abuse, or lack of reasonable care or normal maintenance; (2) installation or operation under conditions other than those recommended by Healthy Air Inc.; (3) subjecting the product to any but the specified voltage; (4) servicing or disassembly by unauthorized personnel; (5) removing or defacing the serial number; or (6) modifying the original factory-assembled unit in any way.

This Limited Warranty does not apply to shipping charges for product shipped to or from the manufacturer or designated distributor in connection with warranty claims nor does it apply to any damages that occur during such shipment.

This Limited Warranty does not apply to installation, removal, reinstallation, and/or related expenses. This Limited Warranty does not apply to replacement filters.

# **Healthy Air Inc. 1-Year Limited Warranty Product Registration Form**

Please complete the Product Registration Form and submit it to Healthy Air Inc. within ten (10) days of the original purchase, to validate 1-Year Limited Warranty.

Submit the completed form via email by sending a scanned image or photograph to [Sales@HealthyAir.com](mailto:Sales@HealthyAir.com).

Note that, the Model Number and Serial Number are written on the sticker located at the bottom of the side panel of the unit.

Please contact us at (800) 259-2535 or visit [www.HealthyAir.com](http://www.HealthyAir.com) for Customer Service and Orders.

|                   |  |
|-------------------|--|
| Name:             |  |
| Business Name:    |  |
| Street Address:   |  |
| City, State, Zip: |  |
| Phone Number:     |  |
| Email Address:    |  |
| Date of Purchase: |  |
| Purchased From:   |  |
| Model Number:     |  |
| Serial Number:    |  |