



# Portable Air Purification System

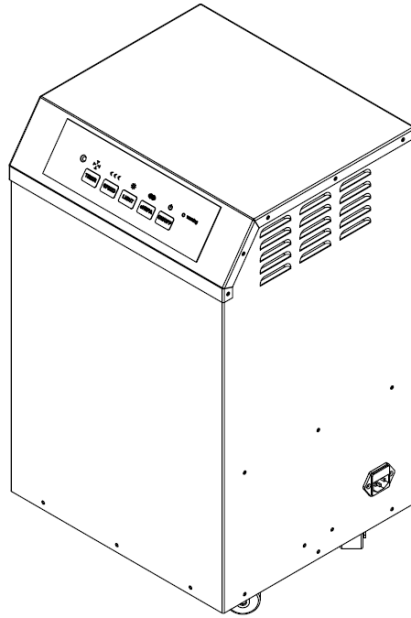
## HA-PAP-G2 Owner's Manual

### Table of Contents

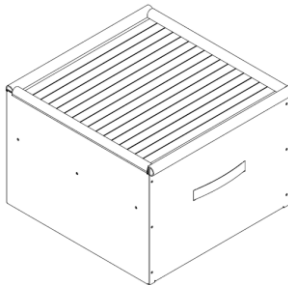
HealthyAir® HA-IFM-1111 Filter	1
Important Safety Instructions	2
Technical Specifications	3
Packaging Reference	4
Packaging Notice	4
Component Reference	5
Assembly Instructions	6-8
Operation Guidelines	9-10
Filter Replacement	11-13
Maintenance	14
Basic Service and Troubleshooting	15-17
Electrical Wiring Schematic	18
1-Year Limited Warranty	19
Product Registration Form	20

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

# HealthyAir® Model HA-PAP-G2 Portable Air Purification System



with  
**HealthyAir® HA-IFM-1111 Filter**



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



 **WARNING**

Unplug the power cord 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, unplug the power cord from the electric outlet socket 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 equipment has a grounding type plug that has a third (grounding) pin. This plug will only fit into a grounding type power outlet. If the plug does not fit into the outlet, contact qualified personnel to install the proper outlet. Do not alter the plug in any way.

To reduce the risk of electric shock, do not pull the cord to remove the plug from its outlets. Protect the cord against heat, oil and sharp objects. Do not run any appliance over the cord. Do not pull or carry by the cord, use cord as a handle, close a door on the cord, or pull cord around sharp edges or corners.

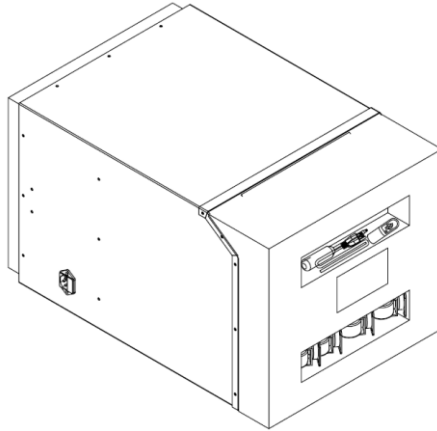
## II. Technical Specifications

Model Number	HA-PAP-G2-W/B/G
Rated Voltage	120V/60HZ
Power Consumption	200W
Weight	37 lbs. (17 kg)
Base Dimensions	14x12x24 in. (350x310x615 mm)
Air Flow Rate	240 cfm (400 m <sup>3</sup> /h)
Noise Level	56 dB

### III. Packaging Reference

The Portable Air Purification System is shipped in one (1) carton, that contains the following:

- (1) Air Purification Unit w/ (1) Integrated Filter Module, (4) Wheel Casters, (1) Remote Control, (1) Power Cord, (1) Screwdriver, (1) Manual



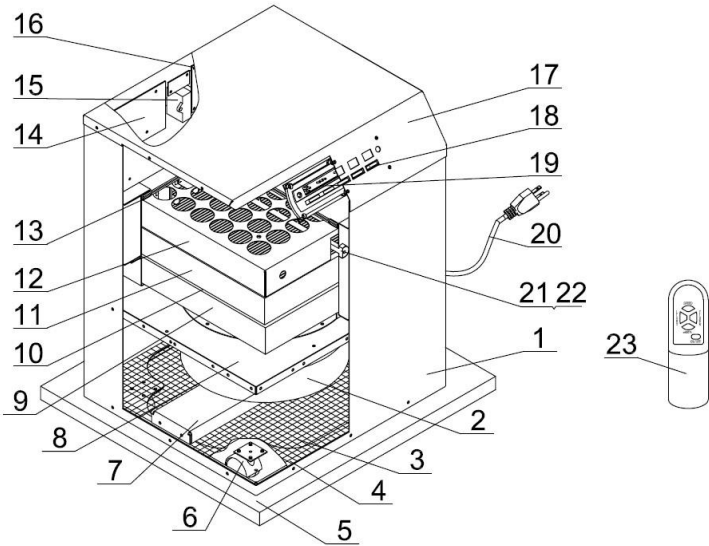
### IV. Packaging Notice



**Before operating the machine, do the following:**

1. **Open the Access Door**
2. **Remove the Integrated Filter Module (HA-IFM-1111)**
3. **Remove the plastic wrapping from the filter!**
4. **Re-install the Integrated Filter Module**
5. **Replace and secure the Access Door**

# V. Component Reference



- |                            |                           |
|----------------------------|---------------------------|
| 1. Outer Frame             | 13. Pre-Filter            |
| 2. Blower Motor            | 14. HV PCB                |
| 3. Metal Screen            | 15. Capacitor             |
| 4. Bottom Plate            | 16. PCB Board             |
| 5. Acoustic Mat            | 17. Top Cover             |
| 6. Caster Wheels           | 18. Control Panel Display |
| 7. Motor Mount Plate       | 19. Control Panel         |
| 8. Baffle Plate            | 20. Power Cord            |
| 9. Activated Carbon Filter | 21. Plastic Screw         |
| 10. Ground Screen          | 22. HV Contact Spring     |
| 11. eHEPA® Filter          | 23. Remote Control        |
| 12. eGrid                  |                           |

# VI. Assembly Instructions

## 6.1 Install Caster Wheels

The following procedure is for Standard Application of the unit, whereby purified air is vented through the Base Plate and recirculated within the facility.

For Outside Vent Applications, in which purified air is vented out of the facility, skip Section 6.1 and refer to the wheel installation instructions in Section 6.2.

- 6.1.1 Place the unit on its side on a flat surface, as shown in Fig. 1.
- 6.1.2 Locate the four (4) Caster Wheels and the Screwdriver that are provided in Carton 1.
- 6.1.3 Unscrew and remove the screws that are pre-mounted onto the Base Plate, on the bottom of the unit. There are four (4) screws per wheel, for a total of sixteen (16) screws.
- 6.1.4 Align the holes of the Caster Wheel Mount with the holes on the Base Plate, and use four (4) screws to securely mount each Caster Wheel to the Base Plate one by one.

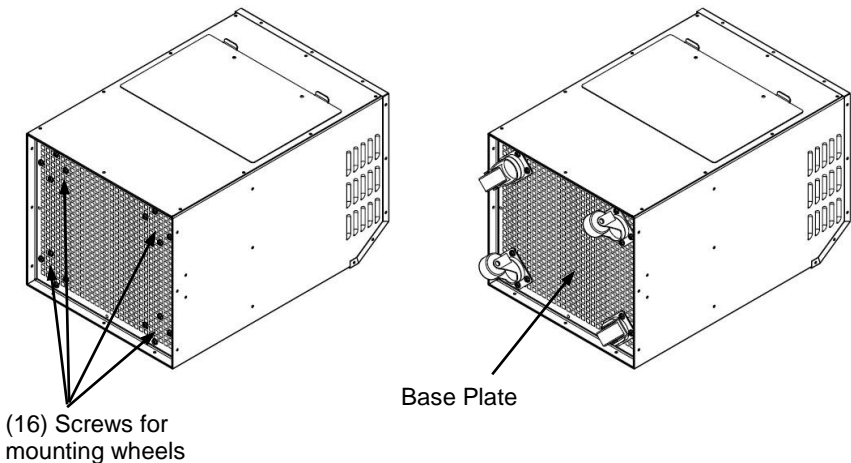


Fig. (1) – Caster Wheel Installation

# VI. Assembly Instructions

## 6.2 Install Outside Vent Adapter (Optional)

Note that, the Outside Vent Adapter is an optional feature. To add this feature, visit [www.HealthyAir.com](http://www.HealthyAir.com) and select *Outside Vent Adapters* from the *Accessories* tab in the *Products* dropdown menu.

The Outside Vent Adapter comes with one (1) Outlet Flange, one (1) Outlet Port Cover Plate, and has (2) two Outlet Ports, that enable it to exhaust air from the back or side depending on which configuration is preferred.

6.2.1 If the Caster Wheels were initially installed on the unit, as described in Section 5.1, remove each Caster Wheel from the Base Plate, and set aside the wheels and the mounting screws.

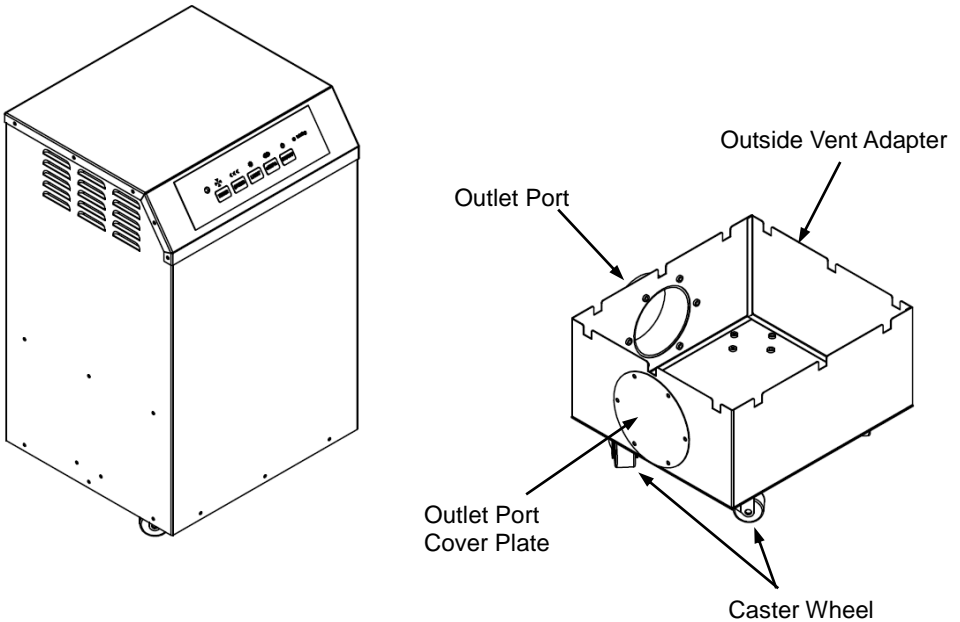


Fig. (2) –Outside Vent Adapter Components



# VI. Assembly Instructions

## 6.2 Install Outside Vent Adapter (Optional)

- 6.2.2 Re-install each of the four (4) Caster Wheels to the bottom of the Outside Vent Adapter, as shown in Fig. 2.
- 6.2.3 Install the Outlet Flange on one of the Outlet Ports, based a determination of the ideal setup configuration.
- 6.2.4 Install the Outlet Port Cover Plate on the Outlet Port that is not being used. Ensure that the Outlet Port Cover Plate is secure, such that the seal between the plate and adapter is airtight.
- 6.2.5 Place the HealthyAir® Portable Air Purification System atop the Outside Vent Adapter, as shown in Fig. 3.
- 6.2.6 Connect a standard 4" diameter Exhaust Duct (not supplied) to the Outlet Flange of the Outside Vent Adapter, and use a standard hose clamp to secure the connection.
- 6.2.7 Run the Exhaust Duct out of the facility per applicable IMC codes.

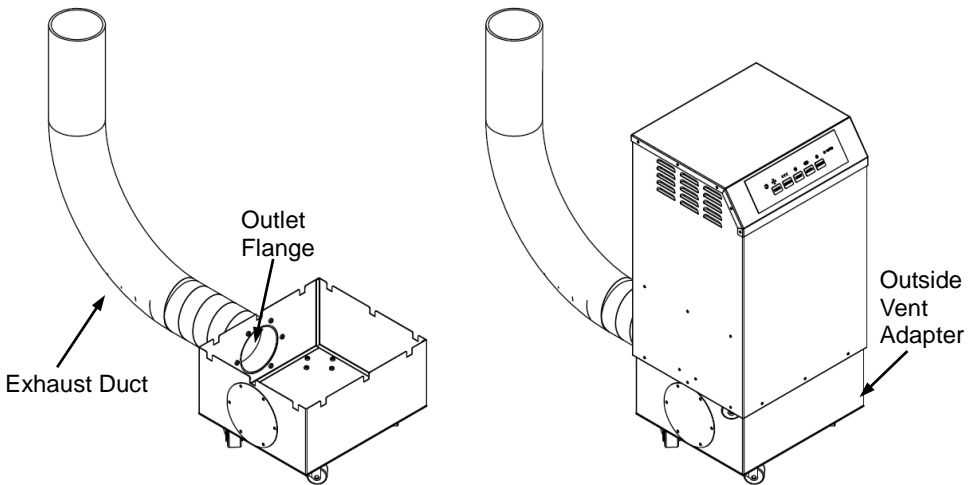


Fig. (3) – Outside Vent Adapter Installation


## VII. Operation Guidelines

### 7.1 Source Capture System Positioning

Place the HealthyAir® Portable Air Purification System in the desired location and place the Acoustic Mat under the unit to dampen its sound.

### 7.2 Source Capture System Activation

- 7.2.1 Plug the Power Cord into the Power Socket, located on the bottom of the side panel of the unit, and then plug the other end of the cord into a wall power socket.

Once plugged in, the Power indicator light [  ] will turn on and display a red light.

- 7.2.2 Activate the unit by pressing the Power button located on the Control Panel, shown in Fig. 4, 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.

### 7.3 Source Capture System Controls

Each of the respective control elements shown on the Control Panel Display in Fig. 4 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.

# VII. Operation Guidelines

## 7.3 Source Capture System Controls

- **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.

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.

- **LIGHT** button, on the Control Panel and Remote Control, is inactive.
- **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.



Fig. (4) - Control Panel Display

# VIII. Filter Replacement

## 8.1 Replacement Filter

The HealthyAir® Portable Air Purification System (HA-PAP-G2) utilizes the **HealthyAir® Series 1111 Integrated Filter Module (HA-IFM-1111)**.

Note that, only manufacturer supplied HealthyAir® Replacement Filters are compatible with HealthyAir® Source Capture 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.

## 8.2 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 contaminants 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.

8.2.1 Turn the Power Off and unplug the Power Cord from the Power Socket.

8.2.2 Remove the Access Door by unscrewing the two (2) Thumb Screws, as shown in shown in Fig. 5.

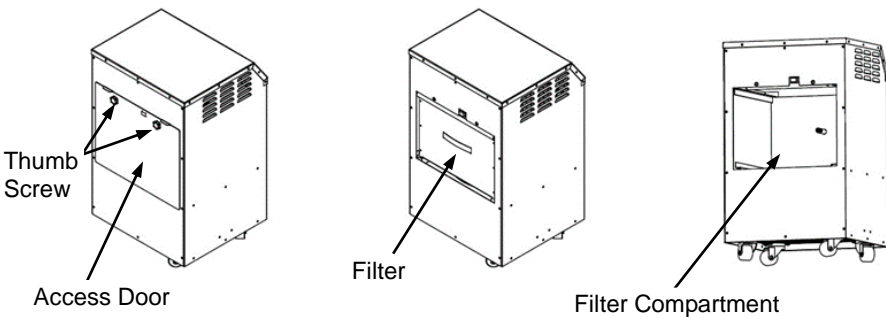


Fig. (5) – Access Door Removal

# VIII. Filter Replacement

## 8.2 Filter Change

8.2.3 Remove the used Integrated Filter Module.

**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.

8.2.4 Install a new Integrated Filter Module (HA-IFM-1111) into the Filter Compartment, as shown in Fig. 6. Ensure that the plastic wrap is removed prior to installing the replacement filter.

8.2.5 Reinstall the Access Door, ensuring that the Access Door is properly inserted back into its track. Once the Access Door is properly aligned and set in place, secure it by screwing in the Thumb Screws.

Note that, if the Access Door must be properly installed to engage the Safety Switch. If the Safety Switch is not engaged, the unit will not power on.

8.2.6 Plug the Power Cord back into the Power Socket and wall socket

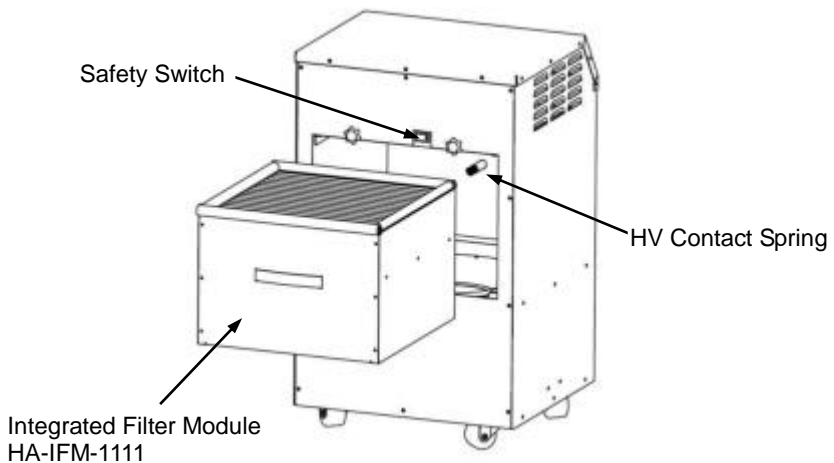



Fig. (6) – Replacement Filter Installation

# VIII. Filter Replacement

## 8.3 Filter Change Indicator Light Reset

Once the filter has been replaced and the unit is powered 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:

- 8.3.1 Unplug the Power Cord from the Power Socket, wait a couple seconds and plug the Power Cord back into the Power Socket.
- 8.3.2 Press and hold down the Power Button [  ] on the Control Panel (not the Remote Control) for five (5) seconds.
- 8.3.3 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.

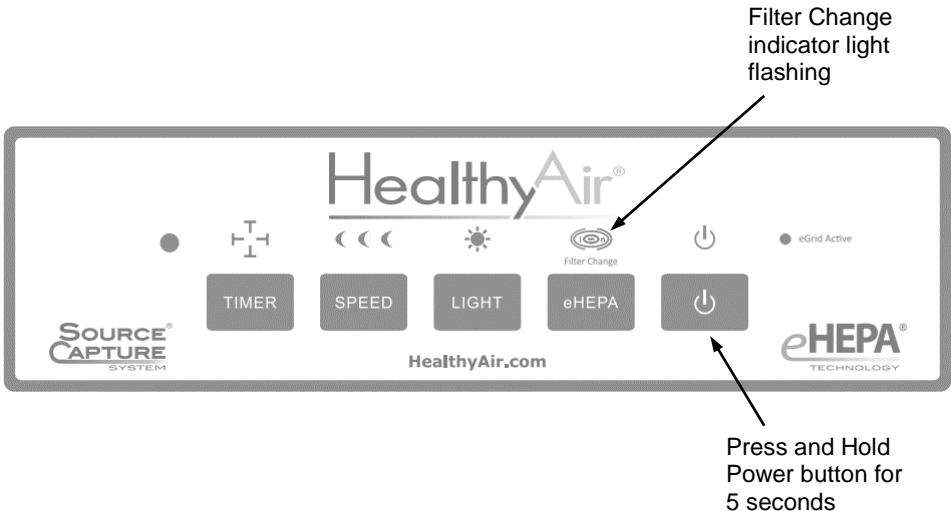


Fig. (7) - Filter Change Indicator Light Reset

# IX. 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.

## 9.1 Cleaning The Filter

To extend the effective life of the Integrated Filter Module, remove the filter from the unit and use a standard vacuum to remove collected particulate from the Pre-Filter section.

## 9.2 Cleaning Filter Compartment

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

9.2.1 Turn the Power Off, unplug the Power Cord from the Power Socket, remove the Access Door, and remove the filter from the unit.

9.2.2 Vacuum and remove any debris that has accumulated in the filter compartment and adjacent accessible areas of the interior of the unit.

9.2.3 Properly replace the Access Door, as described in Section 8.2.

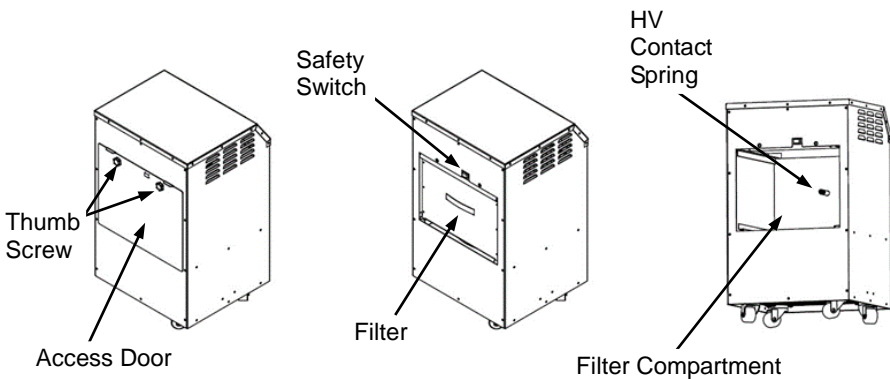


Fig. (8) – Cleaning Filter Compartment

# X. 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.

## 10.1 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.

Possible Cause	Solution
Blown Fuse	Replace the Fuse
Safety Switch not engaged	Properly close the Access Door
Safety Switch malfunction	Replace the Safety Switch
HV Board malfunction	Replace the HV Board
PCB Board delay function	Unplug and re-plug Power Cord

## 10.2 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.

Possible Cause	Solution
PCB Board malfunction	Reconnect/Replace PCB Board



## X. Basic Service and Troubleshooting

### 10.3 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 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

### 10.4 Reduced Airflow/Reduced Dust Collection Efficiency

If the fan/motor is properly functioning, but the unit exhibits reduced airflow the issue may be the result of the following cause and may require filter change.

Possible Cause	Solution
Integrated Filter is fully loaded	Clean or Replace Integrated Filter

### 10.5 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.

Possible Cause	Solution
Filter change cycle timer expired	Replace filter and reset timer

# X. Basic Service and Troubleshooting

## 10.6 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

## 10.7 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

# X. Electrical Wiring Schematic

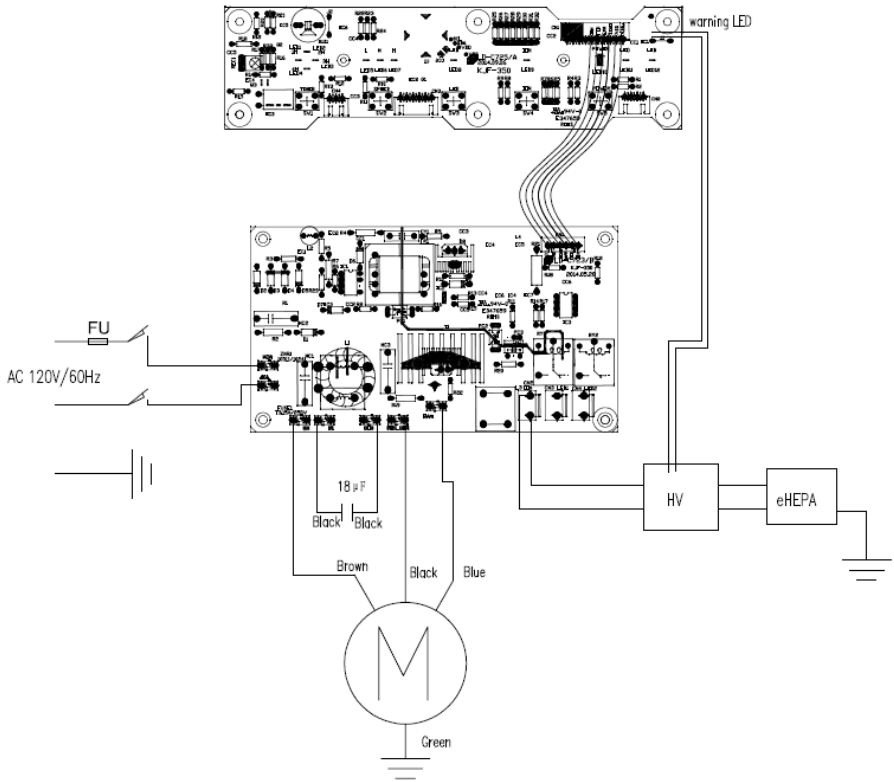


Fig. (9) – Electrical Wiring Schematic

## **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:	