



**BLADE AIR**

# **User Manual**

**HEPA AIR PURIFIER HC FM-1**

## **SAFETY NOTICE**

### **IMPORTANT SAFETY INSTRUCTIONS**

**WARNING:** Before carrying out any maintenance or servicing, ensure the unit is disconnected from the main power supply.

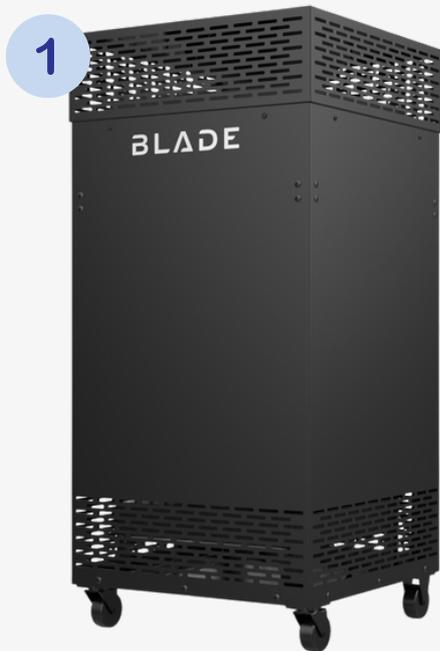
**RISK OF ELECTRIC SHOCK:** These servicing instructions are for use by qualified personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

To reduce the risk of electric shock, this 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.

**WARNING: TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:**

- a. Use this unit only in the manner intended by the manufacturer. If you have any questions, contact Blade ([service@bladeair.com](mailto:service@bladeair.com)).
- b. To reduce risk of electrical shock, do not expose to water or rain.
- c. Before servicing or cleaning unit, turn power off.

## WHATS IN THE BOX?



- 1 HEPA Air Purifier Unit
- 2 Variable Speed Controller

## SPECIFICATIONS

### Model:

Blade HCFM-1

### Clean Air Delivery Rate

80-530 CFM

### Fan Capacity:

1,019 CFM

### Size

16" x 36.5" x 16" (3 feet tall)

### Weight

50 lbs (20 kg)

### Power Requirements

120 VAC / Phase 1 / 1.9A / 60Hz

### Certification Number

LR2014-1

### PN:

BL2100

### Controls

Variable Fan Speed

### Housing Material

Power Coated Steel

### Ozone Certification

UL 867

### Weight

15 lbs

### Warranty:

3 years

# INSTALLATION AND OPERATION

## INITIAL INSTALLATION

- Place the unit into desired location.
  - NOTE: When moving the unit, have one hand firmly on top of the unit and push with other hand.

**WARNING: Failing to push correctly or debris impeding wheels may lead to the unit tipping, which can result in serious injury. Do not lift the air purifier by the wheels.**

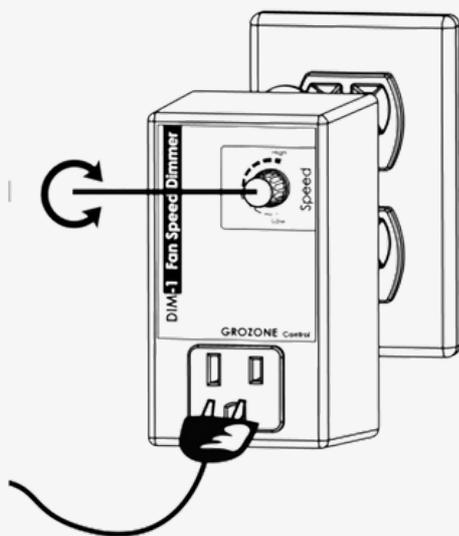
- Once the unit is placed in the desired location, lock castors by flipping switch down into lock position on each wheel that has a lock.

## OPERATING

- Plug unit into a 120 VAC outlet (see safety notice on page 1).
  - NOTE: Do not plug in unit if there is any physical damage to power cord.

## OPTIONAL SPEED CONTROL

- If using a speed controller provided, plug the speed controller into a 120VAC outlet (see safety notice on page 1).
- Connect unit into the front panel outlet. (Image below)



In LOW position, this controller will NEVER turn your unit OFF and will keep your unit running at idle speed (also called minimum speed).

## OPTIONAL WALL MOUNTING

- Required assembly pieces are found in box.
- Wall mounting service available by Blade staff. Please contact Blade Air at [service@bladeair.com](mailto:service@bladeair.com) with a request.

### NOTE: UNIT SHOULD NEVER BE MOUNTED OFF THE FLOOR

#### For 3/8" - 5/8" Thick Drywall

*Required: 1) Zinc alloy wall anchor 2) a No.8 2-1/2" zinc alloy bolt*

- STEP 1:** Measure the distance from the ground to just below the top of the keyhole shape on the back of the unit (the end of the thinner slot portion) and mark this spot.
- STEP 2:** Drive the anchor into the wall.
- STEP 3:** Insert the bolt into the anchor and tighten until approximately 1/4" of the threads on the bolt are still showing.
- STEP 4:** Ensure the side of the unit with the keyhole is facing the wall with the bolt sticking out.
- STEP 5:** Line up the keyhole with the bolt.
- STEP 6:** Lever the unit so that the bolt goes into the keyhole.

#### For Mounting to a Stud

*Required: 1) No.8 1-5/8" zinc alloy screw*

- STEP 1:** Measure the distance from the ground to just below the top of the keyhole shape on the back of the unit (the end of the thinner slot portion) and mark this spot.
- STEP 2:** Drive the screw into the wall until approximately 1/4" of the threads are still showing.
- STEP 3:** Ensure the side of the unit with the keyhole is facing the wall with the bolt sticking out.
- STEP 4:** Line up the keyhole with the bolt.
- STEP 5:** Lever the unit so that the bolt goes into the keyhole.

# MAINTENANCE

White glove maintenance service available by Blade Air expert team. Please contact Blade Air at [service@bladeair.com](mailto:service@bladeair.com) with a request.

Discount provided on filter replacements with maintenance service package.

## CLEANING YOUR UNIT

Clean outside surfaces with a mild soap solution and a damp cloth, avoid abrasive cleaners and excessive moisture.

**CAUTION: Ensure the unit is disconnected from the main power supply before performing any maintenance or servicing.**

**NOTE: Wear proper personal protective equipment for handling used filtration elements. A medical-grade mask and nitrile gloves are strongly recommended.**

**WARNING: This equipment should be inspected frequently and collected dirt removed from it regularly to prevent excessive accumulation that may result in flashover or a risk of fire.**

## Maintenance Required

*Required: 1) Power drill 2) Size 2 Robertson Drill Bit 3) Size 3 Extended Robertson Drill Bit*

<b>1. HEPA FILTER</b>	4,380 running hours (6 months, if run 24/7)*
<b>2. PRE-FILTER</b>	4,380 running hours (6 months, if run 24/7)*
<b>3. CARBON FILTER</b>	8,760 running hours (12 months, if run 24/7)*

- Ensure the unit is disconnected from the main supply.
- Ensure castors are in the lock position.
- Unfasten tamperproof screws securing top hood.
- Remove the four bolts securing down the carbon filter.
- Pull out the carbon filter and HEPA filter (found below carbon filter) and set aside.
- Place in new HEPA filter and carbon filter.

**NOTE: Ensure the airflow direction indicator on the side of the HEPA is facing the upward direction. Secure 4 nuts to compress filter elements.**

- Refasten the bolts to create compression, do not over tighten to avoid crushing filter elements.
- Place hood back on unit while ensuring all four lips are properly secured.
- Pre-filters can be changed by sliding them out-and-in of the side of the unit.

## MAINTENANCE COMPLETE

\*MAINTENANCE TIMES CAN VARY DEPENDING ON SITE CONDITIONS

## WARRANTY

Blade Air Inc. (“Blade Air”) warrants the unit to be free from defects in workmanship or materials under normal use and service in accordance with our instructions (the “Warranty”) for a period of three (3) years (the “Warranty Period”) from the date of purchase through an authorized dealer or distributor. During the Warranty Period, should a product be determined to be defective, Blade Air will repair or replace the defective unit(s)(at Blade Air or the applicable dealer or distributor’s option) within a reasonable period. Replacement will be made with a new or remanufactured product or component. The Warranty is the only representation regarding the products covered by this manual and Blade Air Inc. disclaims all other warranties, including any implied warranties of merchantability or fitness for use. The Warranty does not cover normal wear and tear of parts or damage resulting from any of the following: negligent use or misuse of the product (including use other than in accordance with our instructions), use on improper voltage or current, repair, or alteration by anyone other than a Blade Air authorized service technician. The Warranty does not cover acts of god such as fire, flood, hurricanes, earthquakes, and tornadoes. Blade Air shall not be liable for any damages of any kind resulting from the purchase, use or misuse of, or inability to use the product including incidental, special, consequential or similar damages or loss of profits, or for any breach of contract, fundamental or otherwise, or for any claim brought against the purchaser by any other party. Some provinces, states or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you.

## FOR CUSTOMER SERVICE INQUIRIES

[bladeair.com/support](http://bladeair.com/support)

[service@bladeair.com](mailto:service@bladeair.com)

(416) 701 0201