

# Procedures & Services

# Austin

A I R S Y S T E M S

# Dealer Manual

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# Introduction

Welcome and thank you for choosing to join the Austin Air Family of Dealers. For over twelve years Austin Air has been dedicated to producing the highest quality product and providing the best possible service to our customers.

We have been consistently recognized as the leader in the air purification industry. Our quality line of air purifiers has garnered praise from those who know air purifiers best, including physicians, allergists, leading consumer publications and the U.S. Military. As an Austin Air Dealer you will benefit from our excellent reputation, unsurpassed quality, years of experience and unparalleled expertise in air purification.

In order to assist you in providing the best possible service to your customers, this manual has been compiled to answer most of the questions you may have concerning our product and the technology that goes into it.

We offer tips and assistance on how to properly market and sell our product, as well as the proper procedures to follow in order to ensure prompt and mistake-free service to you and your customers.

It is Austin Air's belief that our Dealers are the lifeblood of our company and it is our policy to provide you with all the assistance necessary to succeed. We hope that your relationship with Austin Air Systems proves to be a pleasant and profitable venture for years to come.

# Products

## HealthMate™



Our standard unit. Provides overall coverage for people with simple air quality concerns. Provides overall coverage for a wide variety of gases, chemicals and allergens. The addition of zeolite improves coverage for formaldehyde and ammonia. Good for those with allergies to mold, dust mites, and hay fever. (For the machine's efficiency in removing specific chemicals and gases, consult the users guide.)

Effective for an area up to 1500 sq/ft, assuming average residential ceiling heights of 8 ft. Provides effective coverage of large household living areas, small apartments and offices.

Available in white, sandstone, and black.

### HealthMate™ HM400

**Dimensions:** Height-23 in.  
Width-14.5 in. x 14.5 in.

**Weight:** 45 lbs.

**Construction:** 23 gauge steel housing  
23 gauge perforated steel intake  
Easy roll casters (standard)  
Baked on powder coat finish

## HealthMate™ HM400

<b>Motor:</b>	Permanent split capacitor motor, rated for continuous high RPM, long life duty Shock absorbing motor mounts CSA & UL approved
<b>Fan:</b>	Plastic centrifugal fan Three speed control 400 CFM on high setting 200 CFM on medium setting 75 CFM on low setting
<b>Power Rating:</b>	120 volt 135-watt, 1.3 amp power consumption on high setting 83-watt, 0.71 amp power consumption on medium setting 56-watt, 0.51 amp power consumption on low setting
<b>*Sound Level</b>	66 Db at high speed 55 Db at medium speed Lower than 50 Db at low speed
<b>Filter assembly:</b>	Dimensions: 13.5 in. diameter, 14.5 in. height Permafilt™ prefilter 13-15 lbs activated carbon and zeolite (ten to one ratio) 60 sq/ft True Medical HEPA grade filter medium Metal end caps with foam sealing gaskets top and bottom. Total weight of 21 lbs

\*Background noise for sound level measurements was less than 50 Db. All measurements were taken three feet from the unit directly in line with the louver (air exit point from the unit). The measurements were taken while the unit was operated in an isolated office (door closed) with no other equipment being operated.

\*\*Notice: All specifications are subject to change without prior notification from the manufacturer.

# HealthMate Jr.™



The HealthMate Jr™ provides the same benefits as the Standard HealthMate™. It is essentially the same unit, but in a smaller form.

Effective for an area of up to 700 sq/ft, assuming average residential ceiling heights of 8 ft. Provides effective coverage for single rooms including bedrooms and individual offices.

Available in white, sandstone, and black.

## HealthMate Jr™ HM200

**Dimensions:** Height-16.5 in.  
Width-11 in. x 11 in

**Weight:** 18 lbs.

**Construction:** 24 gauge steel housing  
24 gauge perforated steel intake  
Baked on powder coat finish

**Motor:** Permanent split capacitor motor, rated for continuous high RPM, long life duty  
Shock absorbing motor mounts  
CSA & UL approved

## HealthMate Jr™ HM200

<b>Fan:</b>	Plastic centrifugal fan Three speed control 200 CFM on high setting 100 CFM on medium setting 50 CFM on low setting
<b>Power Rating:</b>	120 volt 80-watt, 1.0 amp power consumption on high setting 41-watt, 0.49 amp power consumption on medium setting 25-watt, 0.3 amp power consumption on low setting
<b>*Sound Level</b>	67 Db at high speed 60 Db at medium speed Lower than 50 Db at low speed
<b>Filter assembly:</b>	Dimensions: 9.75 in. diameter, 11.25 in. height Permafilt™ prefilter 6.5 lbs activated carbon and zeolite (ten to one ratio) 30 sq/ft True Medical HEPA grade filter medium Metal end caps with foam sealing gaskets top and bottom. Total weight of 8 lbs.

\*Background noise for sound level measurements was less than 50 Db. All measurements were taken three feet from the unit directly in line with the louver (air exit point from the unit). The measurements were taken while the unit was operated in an isolated office (door closed) with no other equipment being operated.

\*\*Notice: All specifications are subject to change without prior notification from the manufacturer.

# HealthMate+™



This machine is user specific. Although it provides the same benefits as the standard HealthMate™, the addition of potassium iodide (along with the zeolite), provides greater relief for people with severe chemical sensitivities. It is highly recommended for people with this ailment. (For the machine's efficiency in removing specific chemicals and gasses, consult the user guide).

Effective for an area up to 1500 sq/ft, assuming average residential ceiling heights of 8 ft. Provides effective coverage of large household living areas, small apartments and offices.

Available in white, sandstone, and black.

## HealthMate+™

- Dimensions:** Height-23 in.  
Width-14.5 in. x 14.5 in.
- Weight:** 45 lbs.
- Construction:** 23 gauge steel housing  
23 gauge perforated steel intake  
Easy roll casters (standard)  
Baked on powder coat finish
- Motor:** Permanent split capacitor motor, rated for continuous high RPM, long life duty  
Shock absorbing motor mounts  
CSA & UL approved

<b>Fan:</b>	Plastic centrifugal fan Three speed control 400 CFM on high setting 200 CFM on medium setting 75 CFM on low setting
<b>Power Rating:</b>	120 volt 135-watt, 1.3 amp power consumption on high setting 83-watt, 0.71 amp power consumption on medium setting 56-watt, 0.51 amp power consumption on low setting
<b>*Sound Level</b>	66 Db at high speed 55 Db at medium speed Lower than 50 Db at low speed
<b>Filter assembly:</b>	Dimensions: 13.5 in. diameter, 14.5 in. height Permafilt™ prefilter 15 lbs activated carbon impregnated with potassium iodide and zeolite (ten to one to one ratio) 60 sq/ft True Medical HEPA grade filter medium Metal end caps with foam sealing gaskets top and bottom. Total weight of 21 lbs.

\*Background noise for sound level measurements was less than 50 Db. All measurements were taken three feet from the unit directly in line with the louver (air exit point from the unit). The measurements were taken while the unit was operated in an isolated office (door closed) with no other equipment being operated.

\*\*Notice: All specifications are subject to change without prior notification from the manufacturer.

# HealthMate+ Jr.™



This machine is user specific. Although it provides the same benefits as the standard HealthMate Jr.™, the impregnation of potassium iodide (along with the zeolite), provides greater relief for people with severe chemical sensitivities. It is highly recommended for people with this ailment. (For the machine's efficiency in removing specific chemicals and gasses, consult the user guide).

Effective for an area of up to 700 sq/ft, assuming average residential ceiling heights of 8 ft. Provides effective coverage for single rooms including bedrooms and individual offices.

Available in white, sandstone, and black.

## HealthMate Jr +™ HM200+

<b>Dimensions:</b>	Height-16.5 in. Width-11 in. x 11 in
<b>Weight:</b>	18 lbs.
<b>Construction:</b>	24 gauge steel housing 24 gauge perforated steel intake Baked on powder coat finish
<b>Motor:</b>	Permanent split capacitor motor, rated for continuous high RPM, long life duty Shock absorbing motor mounts CSA & UL approved

<b>Fan:</b>	Plastic centrifugal fan Three speed control 200 CFM on high setting 100 CFM on medium setting 50 CFM on low setting
<b>Power Rating:</b>	120 volt 80-watt, 1.0 amp power consumption on high setting 41-watt, 0.49 amp power consumption on medium setting 25-watt, 0.3 amp power consumption on low setting
<b>*Sound Level</b>	67 Db at high speed 60 Db at medium speed Lower than 50 Db at low speed
<b>Filter assembly:</b>	Dimensions: 9.75 in. diameter, 11.25 in. height Permafilt™ prefilter 6.5 lbs activated carbon impregnated with potassium iodide and zeolite (ten to one to one ratio) 30 sq/ft True Medical HEPA grade filter medium Metal end caps with foam sealing gaskets top and bottom. Total weight of 8 lbs.

\*Background noise for sound level measurements was less than 50 Db. All measurements were taken three feet from the unit directly in line with the louver (air exit point from the unit). The measurements were taken while the unit was operated in an isolated office (door closed) with no other equipment being operated.

\*\*Notice: All specifications are subject to change without prior notification from the manufacturer.

# Allergy Machine™



This machine is designed specifically for allergy and asthma sufferers. It provides identical particle removal capacity and efficiency of the HealthMate™. Because the carbon cloth does not release carbon dust when air passes through it, the design of the filter places the True Medical HEPA paper on the outside of the filter allowing the air to pass through the paper before it passes through the carbon. Because of this design, the airborne particles are removed before the air contacts the carbon. The total surface area of the carbon is available for gas and odor removal only and its useful life is increased. The lighter weight of this unit allows for easier care and maintenance.

Effective for an area up to 1500 sq/ft, assuming average residential ceiling heights of 8 ft. Provides effective coverage of large household living areas, small apartments and offices.

Available in silver only.

## AllergyMachine™

**Dimensions:** Height-23 in.  
Width-14.5 in. x 14.5 in.

**Weight:** 35 lbs.

**Construction:** 23 gauge steel housing  
23 gauge perforated steel intake  
Easy roll casters (standard)  
Baked on powder coat finish

**Motor:** Permanent split capacitor motor, rated for continuous  
high RPM, long life duty  
Shock absorbing motor mounts  
CSA & UL approved

<b>Fan:</b>	Plastic centrifugal fan Three speed control 400 CFM on high setting 200 CFM on medium setting 75 CFM on low setting
<b>Power Rating:</b>	120 volt 135-watt power consumption on high setting, 1.3 AMP 83-watt, 0.71 amp power consumption on medium setting 56-watt, 0.51 amp power consumption on low setting
<b>*Sound Level</b>	66 Db at high speed 55 Db at medium speed Lower than 50 Db at low speed
<b>Filter assembly:</b>	Dimensions: 13.5 in. diameter, 14.5 in. height Permafilt™ prefilter Activated carbon in woven cloth form 60 sq/ft True Medical HEPA filter medium Metal end caps with foam sealing gaskets top and bottom. Total weight of 8 lbs.

\*Background noise for sound level measurements was less than 50 Db. All measurements were taken three feet from the unit directly in line with the louver (air exit point from the unit). The measurements were taken while the unit was operated in an isolated office (door closed) with no other equipment being operated.

\*\*Notice: All specifications are subject to change without prior notification from the manufacturer.

# Allergy Machine Jr.™



This machine is designed specifically for allergy and asthma sufferers. It provides identical particle removal capacity and efficiency of the HealthMate Jr.™. Because the carbon cloth does not release carbon dust when air passes through it, the design of the filter places the True Medical HEPA paper on the outside of the filter allowing the air to pass through the paper before it passes through the carbon. Because of this design, the airborne particles are removed before the air contacts the carbon. The total surface area of the carbon is available for gas and odor removal only and its useful life is increased. The lighter weight of this unit allows for easier care and maintenance.

Effective for an area of up to 700 sq/ft, assuming average residential ceiling heights of 8 ft. Provides effective coverage for single rooms including bedrooms and individual offices.

Available in black, white, and sandstone.

## HealthMate Jr HEGA™ HM200HEGA

- |                      |   |
|----------------------|---|
| <b>Dimensions:</b>   | Height-16.5 in.<br>Width-11 in. x 11 in   |
| <b>Weight:</b>       | 12 lbs.   |
| <b>Construction:</b> | 24 gauge steel housing<br>24 gauge perforated steel intake<br>Baked on powder coat finish   |
| <b>Motor:</b>        | Permanent split capacitor motor, rated for continuous high RPM, long life duty<br>Shock absorbing motor mounts<br>CSA & UL approved |

## HealthMate Jr™ HEGA

<b>Fan:</b>	Plastic centrifugal fan Three speed control 200 CFM on high setting 100 CFM on medium setting 50 CFM on low setting
<b>Power Rating:</b>	120 volt 80-watt, 1.0 amp power consumption on high setting 41-watt, 0.49 amp power consumption on medium setting 25-watt, 0.3 amp power consumption on low setting
<b>*Sound Level</b>	67 Db at high speed 60 Db at medium speed Lower than 50 Db at low speed
<b>Filter assembly:</b>	Dimensions: 9.75 in. diameter, 11.25 in. height Permafilt™ prefilter Activated carbon in woven cloth form 30 sq/ft True Medical HEPA filter medium Metal end caps with foam sealing gaskets top and bottom. Total weight of 2.5 lbs.

\*Background noise for sound level measurements was less than 50 Db. All measurements were taken three feet from the unit directly in line with the louver (air exit point from the unit). The measurements were taken while the unit was operated in an isolated office (door closed) with no other equipment being operated.

\*\*Notice: All specifications are subject to change without prior notification from the manufacturer.

# Baby's Breath™



This machine is designed specifically for allergy and asthma sufferers. It provides identical particle removal capacity and efficiency of the HealthMate Jr.™. Because the carbon cloth does not release carbon dust when air passes through it, the design of the filter places the True Medical HEPA paper on the outside of the filter allowing the air to pass through the paper before it passes through the carbon. Because of this design, the airborne particles are removed before the air contacts the carbon. The total surface area of the carbon is available for gas and odor removal only and its useful life is increased. The lighter weight of this unit allows for easier care and maintenance.

Effective for an area of up to 700 sq/ft, assuming average residential ceiling heights of 8 ft. Provides effective coverage for single rooms including bedrooms and individual offices.

Available in pink and blue.

## Baby's Breath™

- |                      |   |
|----------------------|---|
| <b>Dimensions:</b>   | Height-16.5 in.<br>Width-11 in. x 11 in   |
| <b>Weight:</b>       | 12 lbs.   |
| <b>Construction:</b> | 24 gauge steel housing<br>24 gauge perforated steel intake<br>Baked on powder coat finish   |
| <b>Motor:</b>        | Permanent split capacitor motor, rated for continuous high RPM, long life duty<br>Shock absorbing motor mounts<br>CSA & UL approved |

<b>Fan:</b>	Plastic centrifugal fan Three speed control 200 CFM on high setting 100 CFM on medium setting 50 CFM on low setting
<b>Power Rating:</b>	120 volt 80-watt, 1.0 amp power consumption on high setting 41-watt, 0.49 amp power consumption on medium setting 25-watt, 0.3 amp power consumption on low setting
<b>*Sound Level</b>	67 Db at high speed 60 Db at medium speed Lower than 50 Db at low speed
<b>Filter assembly:</b>	Dimensions: 9.75 in. diameter, 11.25 in. height Permafilt™ prefilter Activated carbon in woven cloth form 30 sq/ft True Medical HEPA filter medium Metal end caps with foam sealing gaskets top and bottom. Total weight of 2.5 lbs.

\*Background noise for sound level measurements was less than 50 Db. All measurements were taken three feet from the unit directly in line with the louver (air exit point from the unit). The measurements were taken while the unit was operated in an isolated office (door closed) with no other equipment being operated.

\*\*Notice: All specifications are subject to change without prior notification from the manufacturer.

## Changing the Filter:

You will need a large plastic garbage bag to dispose of the old filters. You will also need a pair of work gloves and a Phillips head screwdriver.



- 1 Unplug the unit from its power outlet.



- 2 Turn the unit upside down on a soft surface to avoid scratching the unit.



- 3 Remove the 4 retaining screws from the bottom cover.



- 4 Lift the bottom cover off and set it aside.



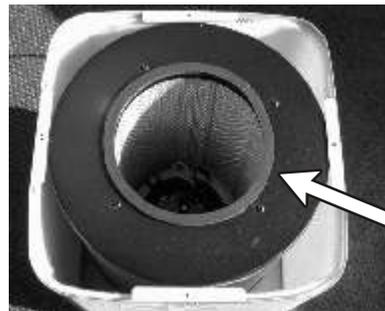
- 5 Wearing your work gloves, grasp the filter, carefully lift it out and place in a plastic trash bag.



- 6 Remove the pre-filter.



- 7 Replace pre-filter as shown.



- 8 Install new filter as shown. Make sure label side is down toward the motor. Note position of bottom seal vs. top.

- 9 Replace bottom cover.

- 10 Replace 4 screws.

- 11 Run the filter on high for at least 1 hour.

**CAUTION: FILTER MAY HAVE SHARP EDGES... PLEASE WEAR GLOVES!**

# Features, Benefits & Options

## Features:

- 30-day money back guarantee.
- 5-Year warranty on all products.
- 5-Year pro-rated filter guarantee.
- Three filters in one creates a superior filtration system:  
Permafilt™ Prefilter  
True Medical HEPA filter for removing airborne pollutants and a carbon-based filter for adsorbing odors and gasses.
- Engineered airflow creating a Clean Air Pocket™
- Solid steel design with powder-coated paint that does not off gas.
- Three speed operation settings.
- Energy-saving PSC motor.
- Casters on large units for portability.
- Made in the USA.

## Benefits:

- Produces a unique “clean air pocket” to relieve symptoms of allergies and asthma  
The Austin Air filtration system not only removes 99.97% of airborne pollutants 0.3 microns or larger, but also adsorbs harmful odors and gasses.
- Clean a large area - up to 1500 square feet.
- Can clean most bedrooms in approximately 15 minutes.
- Whisper-quiet on the low setting for peaceful sleeping.
- Save money in the long run with filter changes every 5 years and low energy costs.

It's a no-risk purchase...If you don't notice a difference in less than 30 days, return the product for a full refund.

## Options:

- Casters for HealthMate Jr™\*
- Specialty power cords for hospital, institutional or international orders.\*

\* Additional charge

# Service Procedures:

**Customer Service:** Your Customer Service representative should be contacted for order entry questions (all orders must be in writing and sent by either fax or email), repairs and returns, credits, shipments, product status, policies and procedures.

Phone: **1-800-724-8403**      email: **info@AustinAir.com**

**Shipping Hours:** Shipping hours are from 8: A.M. to 12 P.M. any order received after that time will ship on the following business day.

## Returns:

### **30-day Money Back Guarantee:**

If a customer wants to return their unit under the 30-day money back guarantee, your customer service representative must be contacted and provided with the customer's name, address and phone number, the unit's serial number, proof of purchase and reason for return. Customer service will provide a Return Authorization (RA) Number. This number must be printed legibly and large enough to be easily seen on the outside of the return package. If there is no RA number on the package, delivery will be refused. Customers are responsible for arranging and paying for return shipment. Austin Air will not pay for or arrange the return of any product under the 30-day money back guarantee. The dealer will be issued a credit for the cost of the returned unit, including the original shipping charge and restocking fee.

### **5-year Parts & Service Guarantee:**

If the customer has a unit that has a mechanical or electrical defect and is within five years of purchase, your customer service representative must be contacted and provided with the customer's name, address, phone number, the unit's serial number and a detailed description of the problem. Customer service will provide a Return Authorization (RA) Number. This number must be printed legibly and large enough to be easily seen on the outside of the return package. If there is no RA number on the package, delivery will be refused. Customers are responsible for arranging and paying for the return shipment to Austin Air. If the problem falls under the guidelines of the 5-year guarantee and is not the result of negligence or abuse, Austin Air technicians will repair or replace the unit and return it to the customer at no cost. If Austin Air technicians determine that the problem is not covered by the 5-year guarantee, the customer will be billed for repairs and return shipment.

### **5-year Prorated Filter Guarantee:**

Customers requesting a prorated filter replacement must contact Austin Air customer service. They will be required to provide their name, address, phone number, proof of purchase and the unit's serial number and date of manufacture. The discount is based upon the age of the filter and the conditions under which the machine has been operated. Proof of purchase and return of filter at Customer's expense will qualify them for a credit, in addition to the pro-rated cost.

# Instituting Billing Fees and Restocking Fees:

## **Concerning all Austin Air Policies:**

Austin Air has set forth these policies establish guidelines for our Dealers and their Customers. Austin Air Systems reserves the right to change or alter any or all of these policies on a case-by-case basis at its sole discretion.

## **Restocking Fee:**

The restocking fee applies when the Dealer is at fault for an error that affected the delivery or data entered for the particular product ordered. Austin Air has an advanced Customer Service Department that thoroughly looks at each individual purchase order and questions any possible errors. The restocking fee is a base charge of \$25.00 and any shipping expenses. The following will detail the institution of the restocking fee.

- Incorrect Address - Dealer provided wrong information and returned product to warehouse.
- Duplicated Orders - Dealer faxed or emailed order more than once
- Refused Packages - Customer changes their mind and refuses the package
- Undeliverable Packages - Carrier can not deliver the order for a particular reason
- Delivered packages - Customer decides not to keep the order within 30 days

## **Shipping Carrier Correction Fee:**

The Shipping Carrier Correction Fee applies when the Dealer provides incorrect address information and the carrier either calls for correct information or corrects it themselves resulting in additional fees to Austin Air. For the simplest of errors (such as a zip code change) Austin Air is charged \$5.00 per change/per package.

Should a Dealer have an order that consists of 2 units and 2 filters then something as simple as an incorrect apartment number or zip code would result in a \$20.00 charge from the carrier to our account.

As these errors are not the fault of Austin Air, we do not feel responsible for the charges and will appropriately bill the Dealer depending on the number of packages in that particular order.

## **Special Requests:**

Special orders approximate turnaround time is 7 - 10 days.

Additional fees may be applied to special requests. Example: Bubble wrap.

# Sales & Marketing

At Austin Air we have a firm belief in the value of our dealers. It has always been our policy to support and assist our dealers to the best of our abilities. With this in mind, several policies have been established to assist our Dealers in the selling and marketing of our product.

Your Sales and Marketing representative should be contacted for any problems or questions concerning sales, marketing, literature or technical issues.

Phone: **1-800-724-8403**      email: **info@AustinAir.com**

## Literature:

Austin Air has a variety of brochures, pamphlets, sell sheets and display material that is available to our Dealers. These materials will be provided at no cost to our Dealers. Any requests for material that go beyond what Austin Air considers normal supply, may involve a minimum charge for material and shipping. Under most circumstances Austin Air tries to avoid charging for advertising material and a detailed explanation of the Dealers requirements and plans may help to avoid any charges.

## Demonstration Units:

Austin Air will provide all Dealers with a free demonstration unit for any trade show or convention related to the sales of our product. The Dealer will be charged for shipping and handling. Only one demonstration unit will be provided per year and the Dealer must provide Austin Air with proof of their participation in any show or convention.

## Co-op Advertising:

Austin Air offers limited financial advertising assistance. Austin Air will provide, in the form of a credit for new product, a limited contribution towards advertising. The amount will be determined on a case-by-case basis. In order to obtain financial assistance, the Dealer must provide Austin Air with a copy of the advertisement and a bill for the ad. Austin Air representatives will review the ad and determine the amount of credit to be offered.

## M.A.P. Pricing:

In order to avoid customer confusion, Austin Air has established a Minimum Advertised Price (M.A.P.). Austin Air asks all Dealers not to advertise our product below the M.A.P. price. Dealers who do not conform to this policy may be subject to disciplinary action. Austin Air does not want to resort to these actions, and ask for the cooperation of all our Dealers in helping us to maintain the integrity of our product and our company in the marketplace. Austin Air will inform all dealers if a change in prices should occur.

# Maintenance:

The Austin Air product line was specifically designed to reduce the amount of maintenance required for efficient use.

## Vacuuming:

Using the vacuum cleaner brush attachment, vacuum the outside of the machine along the lower perforated section. This should be done every time regular household vacuuming occurs (or at least once a month).

## Main Filter Assembly:

The main filter assembly does not require any regular maintenance but may be brushed off if the outside surface begins to accumulate a dust build up.

## Repairs:

Only Austin Air representatives with proper authorization may attempt to repair an Austin Air Product. If an Austin Air cleaner develops mechanical problems and you do not have the proper authorization, do not attempt to repair it yourself. Contact Austin Air and we will arrange for the repair, return or replacement of the unit.

## Filter Replacement:

There are two ways to determine if the filter in an Austin Air unit needs to be replaced.

- 1) If the carbon in the unit has reached it's capacity and can no longer adsorb pollutants, the air coming from the output will have an unpleasant odor. It is not an overpowering odor but it will be noticeable. This is not harmful.
- 2) If the True Medical HEPA paper becomes clogged with particles, the airflow of the machine will be drastically reduced.

# Calculation:

## Square Feet:

**To determine square feet in a room:**

*Width x Length*

## Cubic Feet:

**To determine cubic feet in a room:**

*Width x Length x Height = Cubic Feet*

## Air Changes per Hour:

**To determine the air changes per hour for a machine at any setting:**

*The CFM rate of the machine (at low, medium or high) x 60(minutes/hour) divided by cubic feet of room = air changes per hour.*

*Example: A room with the dimensions 10 feet wide, 24 feet long and 10 feet high has an area of 2,400 cuft. An Austin Air HealthMate™ on high setting has a CFM fan rating of 400.*

*(400 x 60) = 24,000 ÷ 2,400 = 10 air changes per hour.*

## Electricity Cost:

**To determine electricity cost per month:**

*Machine Wattage x rate/kilowatt hour x Hours/Day x 30 x 0.001 = Monthly Cost*

Wattage = the wattage draw of each machine (can be found on each model's specification sheet)

Charge/kilowatt hour = Can be found on your electric bill.

Hours/Day = How long the unit runs per day.

30 = Average days in the month

x 0.001 = Converts from watts to kilowatts

$115 \times .125 \times 24 \times 30 \times .001 = \$10.35$  per month.

# Glossary:

**Air:**

So-called "pure" air is a mixture of gases containing about 78 percent nitrogen; 21 percent oxygen; less than 1 percent carbon dioxide, argon, and other gases and varying amounts of water vapor.

**Air Pollutants:**

Amounts of foreign and/or natural substances occurring in the atmosphere that may result in adverse effects on humans, animals, vegetation, and/or materials.

**Air Quality Index (AQI):**

A numerical index used for reporting severity of air pollution levels to the public. The AQI incorporates five criteria pollutants - ozone, particulate matter, carbon monoxide, sulfur dioxide, and nitrogen dioxide - into a single index. AQI levels range from 0 (Good air quality) to 500 (Hazardous air quality).

**Air Quality Standard (AQS):**

The prescribed level of a pollutant in the outside air that should not be exceeded during a specific time period in order to protect public's health. Established by both federal and state governments.

**Air Toxics:**

A generic term referring to a harmful chemical or group of chemicals in the air. Substances that are especially harmful to health. Technically, any compound that is in the air and has the potential to produce adverse health effects is an air toxic.

**Allergen:**

A substance capable of causing an allergic reaction because of an individual's sensitivity to that substance.

**Biological Contaminants:**

Agents derived from, or that are, living organisms (e.g., viruses, bacteria, fungi, and mammal and bird antigens) that can be inhaled and can cause many types of health effects including allergic reactions, respiratory disorders, hypersensitivity diseases, and infectious diseases. Also referred to as "microbiologicals" or "microbials."

**Building-Related Illness (BRI):**

Diagnosable illness whose symptoms can be identified and whose cause can be directly attributed to airborne building pollutants (e.g., Legionnaire's disease, hypersensitivity pneumonitis). Contrast with "Sick Building Syndrome".

**CFM.**

Cubic feet per minute. The amount of air, in cubic feet, that flows through a given space in one minute. 1 CFM equals approximately 2 liters per second (l/s).

**Conditioned Air:**

Air that has been heated, cooled, humidified, or dehumidified to maintain an interior space within the "comfort zone." (Sometimes referred to as "tempered" air.)

**Environmental Illness:(EI)**

A term for diseases caused by the human-made environment we live in. Some diseases can have either natural or artificial causes.

**Environmental Tobacco Smoke (ETS):**

Mixture of smoke from the burning end of a cigarette, pipe, or cigar and smoke exhaled by the smoker also called secondhand smoke (SHS).

**Fungi:**

Any of a group of parasitic lower plants that lack chlorophyll, including molds and mildews

**Hydrocarbons:**

Compounds containing various combinations of hydrogen and carbon atoms. They may be emitted into the air by natural sources (e.g., trees) or as a result of fossil and vegetative fuel combustion, fuel volatilization, and solvent use. Hydrocarbons are a major contributor to smog.

**IAQ:**

Indoor air quality.

**Multiple Chemical Sensitivity (MCS):**

A condition wherein a person is sensitive or intolerant to a number of chemicals and other irritants at very low concentrations. (Distinct from "allergic")

**Organic Compounds:**

Chemicals that contain carbon. Volatile Organic Compounds vaporize at room temperature and pressure. They are found in many common household products and building materials.

**PPM:**

Parts per million.

**Particulate Matter (PM):**

Solid or liquid particles of soot, dust, smoke, fumes, and aerosols.

**Particulate Matter less than 10 microns (PM10):**

Tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. The size of the particles (10 microns or smaller) allows them to easily enter the air sacs in the lungs where they may be deposited and result in adverse health effects. PM10 also causes visibility reduction and is a criteria air pollutant.

**Particulate Matter equal or less than 2.5 microns (PM2.5):**

Ultra-fine particles, or PM2.5, pose an increased health risk over PM10 because PM2.5 can deposit deep in the lung and contain substances that are particularly harmful to human health. The United States Environmental Protection Agency promulgated national PM2.5 standards in 1997.

**Radon (Rn) (and Radon Decay Products):**

Radon is a radioactive gas formed in the decay of uranium. The radon decay products (also called radon daughters or progeny) can be breathed into the lung where they continue to release radiation as they further decay.

**Reactive Organic Gas (ROG):**

A photochemical reactive chemical gas composed of non-methane hydrocarbons that may contribute to the formation of smog. Also sometimes referred to as Non-Methane Organic Gases (NMOGs).

**Sick Building Syndrome (SBS):**

Term that refers to a set of symptoms that affect some number of building occupants during the time they spend in the building and diminish or go away when they leave the building.

**Smog:**

A combination of smoke and other particulates including ozone, hydrocarbons, nitrogen oxides, and other chemically reactive compounds which, under certain conditions of weather and sunlight, may result in a murky brown haze that causes adverse health effects.

**Soot:**

Very fine carbon particles that have a black appearance when emitted into the air.

**Volatile Organic Compounds (VOCs):**

Compounds that vaporize (become a gas) at room temperature. Common sources include housekeeping and maintenance products, and building and furnishing materials.