

**EnviroMade™**

**Air Purifier**

*Model APS 2000*

**User's Guide**

# IMPORTANT SAFETY INSTRUCTIONS

Read And Save These Instructions.

When using electrical appliances, basic precautions should always be followed to reduce breakage, risk of fire, electric shock and injury to persons including the following:

- Always unplug the air purifier when it is not in operation, while the filters or ultraviolet light are being changed, and when cleaning.
- After servicing this equipment, both the front and top grill assemblies must be reinstalled in exactly the same manner as prior to removal. If either grill is not reinstalled properly, the air purifier will not turn on. This is a built-in safety feature.
- Before using the air purifier, extend the power cord and inspect for any signs of damage. Do not use the product if the power cord has been damaged.

**Warning:** This appliance is designed to be used on a flat level surface, and may not work properly on an uneven surface. To reduce the risk of electric shock and injury, do not place in a window. Always place the air purifier at least 12 inches (30.48 centimeters) away from heat sources such as stoves, radiators, or heaters.

- Do not move the air purifier while it is in operation. Always unplug prior to moving.
- Do not immerse the air purifier in water, as permanent damage will occur. Refer to the “Performing Maintenance” section in this user’s guide.

**Warning:** To reduce the risk of fire or overheating of the electrical cord, do not run power cord under carpets, and do not cover with throw rugs. Arrange cord such that it will not be tripped over.

- Do not allow foreign objects to enter ventilation or exhaust opening as this may cause electric shock or damage to the air cleaner. Do not block air outlets or intakes.

## APS 2000 AIR PURIFIER

Thank you for purchasing an EnviroMade™ APS 2000 Air Purifier, a health care product developed for home and office use. The APS 2000 embodies unique air-purification technologies not found in any other air purifier.

### **EnviroMade APS 2000 Features:**

Only the APS 2000 hybrid system has all these features:

- A quiet, energy-efficient backward-curved impeller that moves 265 cubic feet of air per minute.
- An advanced electronic control system that monitors air quality, room occupancy, air flow and volume, filter and ultraviolet lamp replacement time.
- A six-stage filtration system with gas-absorption media that absorbs toxic gas, organic hydrocarbons, exhaust fumes, formaldehyde, cleaning chemicals, low level ozone, unpleasant odors, and paint solvents.
- A hospital-grade three-stage HEPA filter removes allergens such as pollen, mold fungal spores, tobacco smoke, insecticide dust, dust mites, and particles down to 0.3 microns (0.00003 inch.)
- A photo-oxidation chamber reduces the spread of airborne disease in the home environment. Ultraviolet light 10,000 times the intensity of that in bright sunlight kills virus and bacteria on contact.
- Oxygen in the air, activated by the ultraviolet light, oxidizes airborne impurities too small to be filtered-out. Small amounts of residual activated oxygen and negative ions keep the air clean and fresh in exactly the same way sunlight and oxygen cleans the air we breathe in the outdoor environment.

# INSTALLING THE ENVIROMADE APS 2000

## Unpacking the Purifier

**NOTE:** Before unpacking the product, inspect the shipping container for visible damage. If you feel that you may have received the product in a damage condition, notify the shipper or supplier before opening the container. Remove the product from the box and inspect it for damage. Handle it carefully. Do not drop it!

## Installing the Purifier

### CAUTION

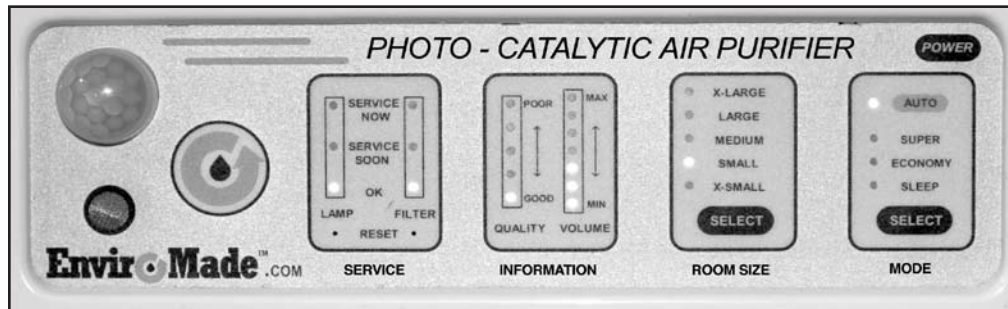
**This product is for indoor use only.**

Place the Purifier in a location that will not restrict air flow through either the air inlet or the air outlet, then plug-in the electrical cord at the nearest electrical wall outlet.

## USING THE ENVIROMADE APS 2000

1. Press-in Power ON/OFF button to turn-on the Purifier. Lights on the control panel (figure 1) will turn on and the ultraviolet lamp will be "On".

Figure 1



2. Look into the air outlet at the top of the APS 2000 Air Purifier and confirm that the ultraviolet lamp is operating. You will see a faint blue glow when the lamp is on. If the lamp appears to be "Off", refer to "Maintaining the APS 2000 Purifier."

**When the lamp is "On", the product is ready for operation.**

## Set Purifier For Room Size

1. Measure the room the Purifier is to serve, multiplying length by width to obtain a measurement in square feet (or square meters.)
2. On the table, find the room size and identify the respiratory condition the unit is to serve.
3. Use the “Heavy Duty” chart if you seriously suffer allergic reactions from particulate matter (pollen, dust, dust mites, animal dander, etc.) or airborne chemicals (pesticides, herbicides, cleaning solutions, etc.). Use the “Light Duty” chart if the area you live in is unhealthy from time to time, or you suffer mild allergies occasionally.

<b>Heavy Duty</b>			<b>Light Duty</b>		
People with Severe Respiratory Problems			Average Home		
Super Mode	SQ. FT.	SQ. METERS	Super Mode	SQ. FT.	SQ. METERS
Extra Large	660	61	Extra Large	1980	183
Auto Mode	SQ. FT.	SQ. METERS	Auto Mode	SQ. FT.	SQ. METERS
Extra Large	565	53	Extra Large	1695	159
Large	485	45	Large	1455	135
Medium	400	37	Medium	1200	111
Small	350	33	Small	1050	99
X Small	300	28	X Small	900	84

## Select Operating Mode

Select the desired operating mode. Read the mode descriptions below to determine your selection. To make your selection, press MODE button (figure 3) repeatedly, if necessary, until the appropriate mode light is “On”.

**AUTO MODE** - This is the mode, most commonly used. In this mode the electronic sensors combines the real time chemical sensor with the blower speed. If the chemical sensor detects an unhealthful amount of chemicals present in the air (indicated by the red light on the quality scale) the electronic controls will automatically speed the blower up to the next setting.

**SUPER MODE** - This mode may be selected during periods of high air pollution. For example: high winds which increase airborne dust and pollen. Heavy room loading, such as parties and heavy smoking. Super-Mode operation will increase blower speed approximately 25 percent above auto mode setting.

**ECONOMY MODE** - This mode saves energy cost during hours when the room is unoccupied. When people are moving in the room, operation is the same as that in the Auto Mode. When no motion has been detected in the room for 30 seconds, blower speed is reduced by 35 percent to save electricity costs. The blower returns to normal speed when motion is again detected in the room.

**SLEEP MODE** - This mode reduces the sound level by reducing blower speed by 30 percent, while still purifying room air at 70 percent of normal while the occupant sleeps.

Figure 2

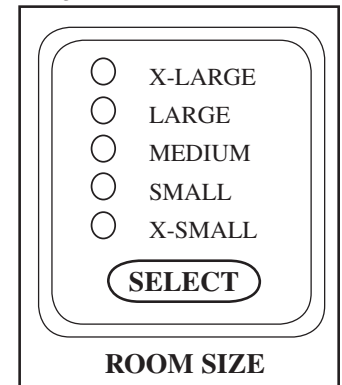
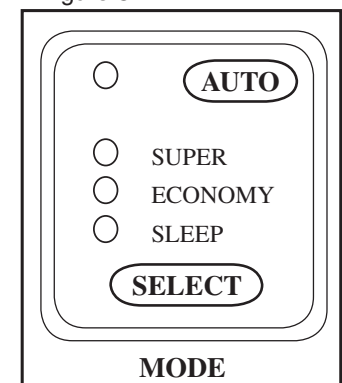


Figure 3



## Monitoring Operation

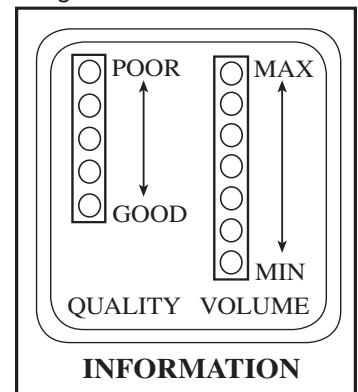
You can always monitor the quality of room air, and make sure that the Purifier is set to move a volume of air appropriate for present conditions. Note that measurements are relative to the selected room size. Make sure that the “Room Size” panel is always set for the room in which the unit operates. “Quality” and “Volume” are shown on the Information display.

Air quality is sensed by the chemical-detection sensor (see figure 1) which continually evaluates air quality. Air quality is expressed by one of five lights expressing a range from GOOD to POOR.

Air volume is shown by one of seven lights (figure 4) representing a range from greater than normal air flow, to reduced air flow (energy-saving Sleep Economy Mode). The light shows that air volume is just right for the selected room size.

You should also keep an eye on the Service Panel which tells you if maintenance will soon be required, or if maintenance is required for further operation. The Service Panel is described in Maintaining the EnviroMade APS 2000.

Figure 4



## MAINTAINING THE ENVIROMADE APS 2000

### What The Service Panel Indicator Lights Mean

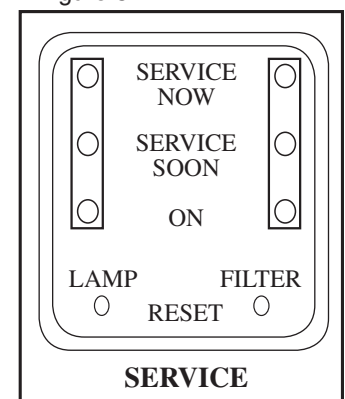
Indicator lights on the Service Panel tell you if either the ultraviolet lamp, or the air filters, will soon need to be replaced, or if they must be replaced before using the Purifier again.

### UV Lamp Indicator Lights

The ultraviolet lamp has a useful life on one year (9,000 hours) with a one-month grace period.

- Green light is On - the lamp has been in service for less than 12 months.
- Yellow SERVICE SOON light is On - the lamp has been in service for more than 12 months. It's time to order a new lamp.
- Red SERVICE NOW light is On - the lamp has been in service for more than 13 months. The lamp may not be effective and must be replaced.

Figure 5



### Filter Indicator Lights

The filters have a useful life of two years in a typical residential environment.

The three Filter lights on the Service Panel mean:

- Green light is On - the lamp has been in service for less than 24 months.
- Yellow SERVICE SOON light is On - the filters have been in service for more than 24 months. It's time to order new filter package.
- Red SERVICE NOW light is On - the filters have been in service for more than 25 months. The filters may not be effective and must be replaced.

## Performing Maintenance

Maintenance procedures are:

- Replacing the ultraviolet (UV) lamp.
- Replacing the filters.

### Replacing The UV Lamp

When the Yellow UV Lamp indicator lights, the ultraviolet lamp should be replaced within 30 days. Here's the step-by-step procedure.

1. Unplug the Purifier's power cord from the electrical outlet.
2. Using index fingers, squeeze the locking tabs (figure 6) inwards towards the center of the grill on top of the Purifier. Lift the grill up and remove.
3. Rotate the UV Lamp one-quarter turn, top-to-rear, (figure 7) and remove lamp.
4. Insert the new UV Lamp in place and install by rotating one-quarter turn (top-to-front).
5. Replace grill removed in previous step 2. by pressing it into position until it locks. The aluminum reflector must be positioned over the lamp, nearest the front of the unit. (figure 7a).
6. Reset UV Lamp timer by lightly pressing the related RESET button on the Service Panel with a pin or similar object. The UV Lamp OK light will return to green and time will again be counted to zero.

**This completes lamp replacement procedures.**

### Replacing Filters

When the Yellow Filter indicator lights, filter should be replaced within 30 days. Here's the step-by-step procedure:

1. Unplug the Purifier's power cord from the electrical outlet.
2. Rest the Purifier on its back (figure 8) to access the bottom of the unit.
3. Press-in locking clip at each end of the front grill.
4. Lift bottom of grill upwards and slide-out the grill from the top of the unit. (figure 9)
5. Pull out the two filters, individually, and discard them.
6. Install new HEPA filter in lower slot with its white layer facing upwards.
7. Install the new pre-filter in the remaining slot with its green side facing upwards.
8. Replace grill. Slide its upper end into grill slot and snap the bottom into place until it locks.
9. Reset the Filter Replacement timer by lightly pressing the related RESET button on the Service Panel with a pin or similar object. The Filter OK light will become green and time will again be counted from zero.

**This completes filter replacement procedures.**

Figure 6



Figure 7



Figure 7a



Figure 8

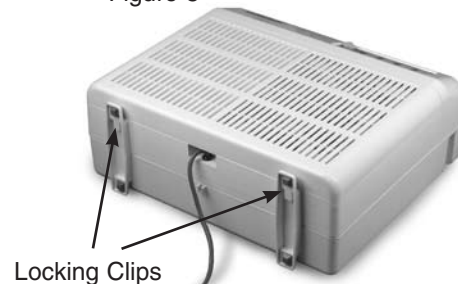


Figure 9



Restore the Purifier to normal operation as follows:

1. Set the unit in its normal operation as follows:
2. Plug the power cord into the wall outlet.

## **SPECIFICATIONS - THE ENVIROMADE APS 2000**

Dimensions (inches) .....	21.5" wide x 18.0" high x 8.0" deep
Weight .....	23 lbs.
Maximum Air Volume .....	400 CFM free flow
.....	265 CFM loaded
UV Lamp .....	254 nanometers (germicidal)
Line Voltage.....	115V-60Hz/230V-50Hz
Maximum Watts.....	110 watts
Maximum Amperes.....	0.93 amperes
Blower.....	Backward-curved motorized impeller

## **ENVIROMADE APS 2000 - 2 YEAR LIMITED WARRANTY**

This product has been engineered and crafted with great care for your satisfaction. Be sure to fill out and return the enclosed warranty card within 14 days of purchase. Each EnviroMade APS 2000 Air Purifier comes with a limited two year warranty, excluding expendable parts such as filters and UV lamp.

This exceptional warranty provides for repair or replacement of parts or components found to be defective for two years from the date of purchase at no charge for labor or materials. This warranty does not cover the expendable ultraviolet lamp, which must be replaced on an annual basis (1-year) or the expendable filter cartridge media, which must be replaced on a biannual basis (2-year) or sooner depending on environmental conditions.

All warranty repair work must be performed either at the factory or by a factory certified service center. Shipping costs to and from the factory or service center is the responsibility of the owner of the EnviroMade APS 2000 Air Purifier. This warranty is provided to the original purchaser of the EnviroMade APS 2000 Air Purifier and may not be transferred, sold or bartered.

This product is not warranted against freight damage, unreasonable use, failure resulting from misuse, connection to incorrect voltage, or acts of God such as fires, earthquakes, or floods. This warranty gives you specific legal rights which vary from region to region. This warranty applies only to the original Purchaser of this product.

**EnviroMade™**

**Portable Indoor Air Purifier  
For The Home & Office**