

activTek
AP3000 user manual



installation | operation | specifications | features | maintenance

Please read and save these instructions

For commercial use only



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WARNING! - Do not operate this unit without the rear lint screen AND back cover installed.



CAUTION! - The Away Mode feature of this unit is to be operated in unoccupied areas only.



CAUTION! - Disconnect power cord before servicing.



CAUTION! - Do not operate unit near heat sources, open flame, or combustible vapors or gases.

100 & 120 volt models - use 1.6 Amp slow blow fuse.
220/240 volt models - use 1.0 Amp slow blow fuse.

Please record the name and phone number of your activTek Distributor:

Name _____

Phone _____

Please record the serial number of your AP3000 by activTek:

Serial # _____

INTRODUCTION

Congratulations, you have purchased one of the most effective, technologically advanced air purifiers available . Your new AP3000 by activTek is designed to provide years of trouble-free, low maintenance operation. Be sure to read and follow all service procedures outlined in this owner's manual, and use only genuine activTek replacement parts available from your activTek Distributor.

If you have any questions concerning this, or any activTek product, contact your activTek Distributor .

SPECIFICATIONS

Electrical:

- 100 volt 50/60hz, 120 volt 60 hz, 220/240 volt 50/60 hz depending on model
- 70 watts power consumption
- 24 to 30 KV, 20-30 Khz ion generation pulsator
- Fixed 6 .5 KV DC needle ion generator

Size:

- Dimensions:
12" high x 9" wide x 12" deep
- Weight: 16 pounds

Purification Plate Output (High Mode):

- 0-360 mg of ozone per hour.

Coverage:

- Covers a range of 250 ft² (23 m²) to 3000 ft² (279 m²)**

** Depends on variables such as severity and frequency of pollution, humidity, and temperature.

Warranty:

- Length of warranty will vary depending on model
See warranty card for specific details.

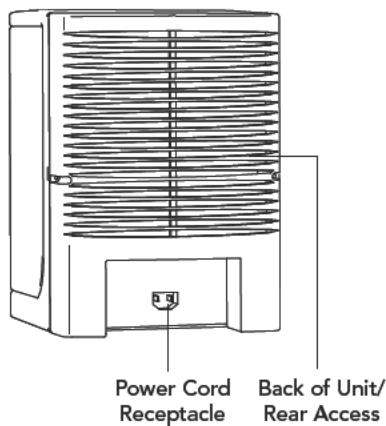
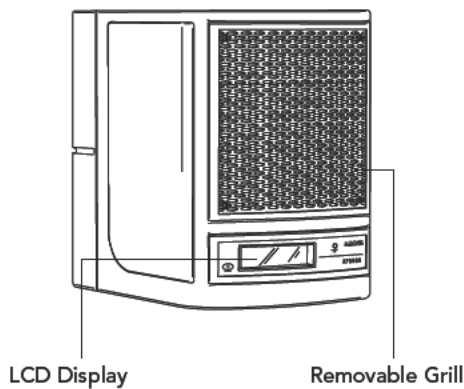
YOUR NEW AP3000 BY activTek

- Eliminates smoke, odors, and tobacco smoke.
- Includes "Certified Space Technology" ActivePure (RCI) Technology, which incorporates the same process NASA uses to scrub the air inside spacecraft.
- Germicidal, broad spectrum, high-intensity UVX lamp (100 - 300 nm).
- Removes odors from a home, office, car, boat, RV, etc.
- Improves the quality of air indoors, up to 3000 ft² (279 m²).
- Customizable to your environment, using the included remote.
- IntelliAir Technology alerts you when normal maintenance needs to be performed or service is required.

INSPECTION & INSTALLATION

1. Remove protective packaging.
2. Remove unit from shipping carton.
3. Remove all protective materials.
4. Check for shipping damage and loose or broken parts.
5. Read owner's manual thoroughly prior to installation.
6. Install batteries in remote.
7. Determine placement location for the unit (See "Placement of Unit" on page 4). Plug the unit into a working electrical outlet.
8. Using either the remote control or the Power button, turn the unit ON.

UNIT FEATURES

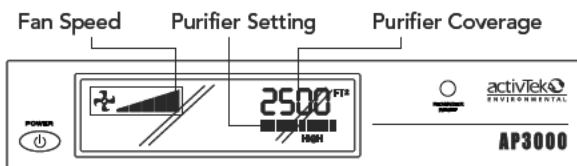


- Exclusive ActivePure (RCI) Technology
- Needlepoint and RF Ion Generation
- Five Speed Fan (Remote Only)
- Reset (Manual Operation)
- Adjustable Purifier Control (High Mode - Remote Only)
- LCD Display
- Away Mode Function w/Adjustable Digital Timer (Remote Only)
- IntelliAir Maintenance Reminders
- Computer Style Cord
- Washable Purification Plate
- Washable Rear Lint Screen
- Replaceable ActivePure (RCI) Cell
- Removable Front Grill

OPERATION

1. Adjust the fan speed to your preference, keeping in mind that higher fan speeds will give better results.
2. Using the *Normal/High* button, set the unit to NORMAL, for typical use, or HIGH, for increased smoke and odor control.
3. For HIGH MODE, using the PURIFIER UP and PURIFIER DOWN buttons on the remote control, adjust the purification level to its lowest setting (250ft² (23 m²)) for the first 24 hours of operation, then gradually adjust up (if needed) to the square footage (or square meters) of the indoor area.

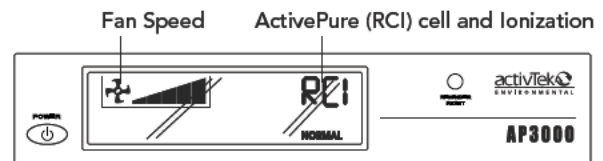
If you are operating your central heating and air conditioning fan, or other ventilation system, continuously, set the coverage up to the total ventilated indoor area. Otherwise, set the coverage up to the size of the room. Do not exceed the size of the ventilated indoor area when setting the purifier level.



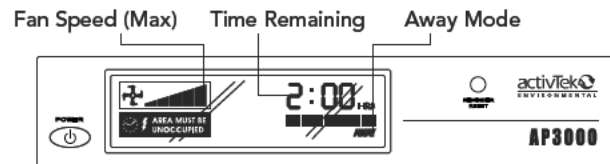
HIGH MODE: The unit's display shows the fan speed (low to high), the purifier setting (1 bar to 12 bars), and the purifier coverage in square feet, for U.S. models, and square meters, for international units.

4. To operate the AWAY MODE feature, in **unoccupied areas only**,* press the *Away Mode* button on remote control until the desired time is reached (2, 4, 6, or 8 hours). The unit will display AWAY MODE and the remaining time. To interrupt the AWAY MODE, press the *Normal/High* button.

**Please note: "unoccupied areas" includes pets. Some pets, like humans, may experience adverse reactions from exposure to increased levels of ozone and should not be present during AWAY MODE operation.*

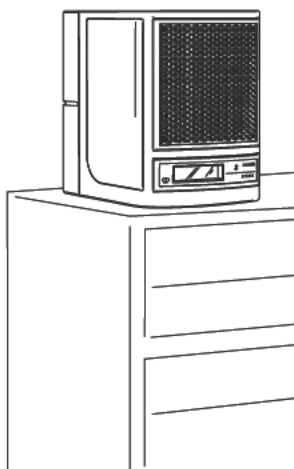


NORMAL MODE: The unit's display shows the fan speed (low to high) and NORMAL to indicate that the ActivePure (RCI) cell and ionization are both functioning normally.



AWAY MODE: The fan will show maximum, and AWAY MODE will replace the purifier setting. The amount of time remaining will depend on how long you have selected for the AWAY MODE function to operate. The colon (:) will flash to indicate time being counted down.

PLACEMENT OF UNIT



Place the unit as high as possible to ensure complete purification (On top of a bookshelf, high cabinet, etc.).

Suggested locations listed in the order of preference:

1. Nearest the source of the worst pollution.
2. Near a cold-air return to thoroughly circulate the benefits of your AP3000 by activTek throughout the area.
3. In the area most heavily used to achieve maximum benefit.

Note:



- The rear of the unit should always have at least one inch of open area to allow unrestricted airflow.
- Point the unit towards the center of the room for maximum dispersion of ions.
- To prevent injury, be sure the power cord is not accessible to small children.

SETTINGS AND ADJUSTMENTS






AP3000 by activTek can be turned on or off and adjusted using the included remote.

If you are operating your central heating and air conditioning fan, or other ventilation system, continuously, set the coverage up to the total ventilated indoor area. Otherwise, set the coverage up to the size of the room. Do not exceed the size of the ventilated indoor area when setting the purifier level.

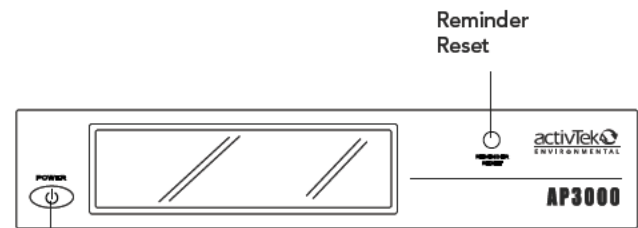
Functions on Unit and Remote

-  **Power (stand by)** Turns the unit ON and OFF.
-  **Reminder Reset (control panel only)**
Clears the maintenance reminders after performing routine maintenance.

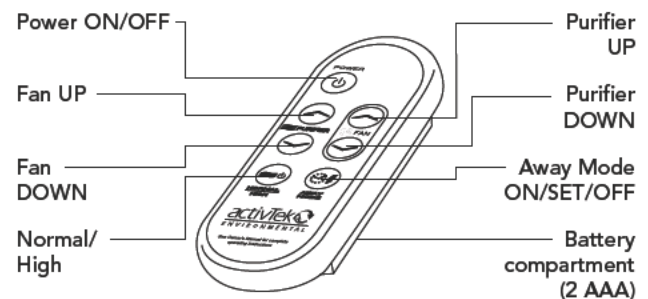
Functions on Remote Only

-  **Fan Up/Fan Down** Adjusts the five speed fan.
-  **Away mode**
When the AP3000 is switched to the "Away Mode," the Corona Discharge Ozone Plate is operated at maximum output, which is 125% of the 3,000 square foot setting. This mode is to be used only in unoccupied spaces; all humans and pets should be removed from the area during operation and for one hour after treatment completes or until the ozone has sufficiently dissipated. For optimal results, use the "Away Mode" to treat individual rooms where the square footage is under 500 square feet, thereby allowing the ozone level to sufficiently rise to treat the area in the 2, 4, 6 or 8 hour programmed setting.
-  **Normal Mode**
When the AP3000 is operated in the "Normal Mode," no ozone is produced by the ActivePure (RCI) Cell. What is produced is a low level of Hydrogen Peroxide gas (H2O2) and Super Oxides (O2-), as well as positive and negative ionization which forms Hydroxyls.
-  **High Mode**
When the AP3000 is switched to the "High Mode," the Corona Discharge Ozone Plate becomes operational, producing a low level of ozone based upon the area being treated in square feet. The AP3000 is designed to produce .03 to .045 parts per million (ppm) of ozone when the square footage setting is equal to the ventilated area.
-  **Purifier Up/Purifier Down (high mode only)**
Works when unit is in High Mode to set the purifier level for the indoor area.
The level is indicated by both a horizontal bar graph and square footage (U.S. models) or square meters (international models). The unit will switch to Normal Mode, if the PURIFIER DOWN button is pressed when the square footage is set to 250 ft² (23 m²).

**Please note: "unoccupied areas" includes pets. Some pets, like humans, may experience adverse reactions from exposure to increased levels of ozone and should not be present during Away Mode operation.*

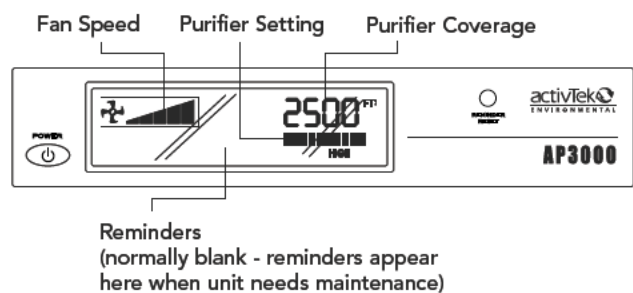


Power ON/OFF



LCD DISPLAY

The LCD Screen is used to display all current settings (see page 4) as well as any maintenance reminders.



LCD SCREEN BACKLIGHT

As adjustments are being made, the LCD screen backlight will brighten and the settings on the screen will change. After 3 seconds without change, the backlight will return to normal.

If a maintenance reminder or a service reminder appears, the backlight will brighten and stay bright until the Reminder Reset button is pressed or the service problem is corrected.

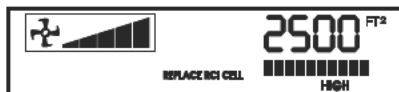
MAINTENANCE REMINDERS



REPLACE PLATE

The purifier plate is not functioning properly.

- Replace the old purifier plate with a new purifier plate (available from your local activTek Distributor).



REPLACE RCI CELL

The ActivePure (RCI) cell is no longer working correctly.

- Replace the ActivePure (RCI) cell (replacement cells are available from your local activTek Distributor).
- *Please Note: The ActivePure (RCI) cell should be replaced every two (2) years, even if the unit does not display this message.*



PERFORM CLEANING

(approx. every 30 days)

- Clean the rear lint screen (see page 6).
- Vacuum the ActivePure (RCI) cell.
- Clean the purifier plate (see page 7).
- Vacuum front and rear grill openings.

Be sure to press the Reminder Reset button to clear the reminder following regular maintenance (see below).

RESETTING THE REMINDERS

The only reminder you need to reset is the PERFORM CLEANING reminder (after performing maintenance, press the Reminder Reset button and the screen will momentarily light up, then return to its original mode). All the other service reminders will clear automatically once the unit has been turned off and back on and the problem has been corrected.

GENERAL MAINTENANCE

Periodic maintenance is required to ensure that your AP3000 by activTek operates properly. The unit will display a PERFORM CLEANING reminder when it's time to perform regular maintenance. If you are operating your unit in a severely polluted environment, cleaning of the unit, purifier plate, ActivePure (RCI) cell, and rear lint

GENERAL MAINTENANCE (CONT.)

screen should be done more frequently. Shown here are basic procedures that should be carried out to keep your unit running at top performance.

For optimal performance, and to prevent damage not covered by your warranty, install the optional AP3000 purifier prefilter.

Failure to perform routine maintenance could adversely affect the proper function of the unit or cause it to fail prematurely.

NOTE: If a unit is returned for repair, and it is determined that neglect of the unit or unauthorized tampering with any mechanical or electronic component of the unit caused the failure, activTek reserves the right to void the product warranty. This will require the owner to pay for any required repairs.

CLEANING THE CASE:

Wipe the unit with a soft cloth dampened (not wet) with water. Do not use chemicals or solvents. Vacuum the front and rear grills periodically to remove any lint buildup.

CLEANING THE ACTIVEPURE (RCI) CELL:

Remove the ActivePure (RCI) cell and carefully vacuum accumulated lint. Do not wash the ActivePure (RCI) cell. Damage from water may result.

REAR LINT SCREEN CLEANING:

You have two options to clean the rear lint screen:

1. When visibly dirty, simply remove the rear lint screen from the unit (see pages 8 - 9), and with a hand-held vacuum, remove the heavy particulate. This method will extend the life of the lint screen.
2. When visibly dirty, remove the lint screen from the unit (see pages 8 - 9), carefully vacuum, then wash in hot water (do not use soap). Allow to dry prior to reinstalling. Replace if damaged.

REAR LINT SCREEN REPLACEMENT:

Contact your activTek Distributor for replacement lint screens. See pages 8 - 9 for removal and installation instructions.

CAUTION: Unplug the unit before performing any maintenance procedures.

GENERAL MAINTENANCE (CONT.)

CLEANING THE PURIFIER PLATE:

Remove the rear lint screen (see pages 8 - 9). Carefully remove the purifier plate from the card cage by grasping the middle of the edge nearest to you, and slowly pull it straight out.

If you are in an environment where there are fats, oils, or grease, such as in a kitchen, start by cleaning with denatured alcohol and a soft bristle brush. This will cut the grease without leaving a residue.

For all applications - Clean with a mixture of one part water and one part ammonia to remove contaminants. Place the plate into a shallow dish, and pour enough of the water/ammonia solution into the dish to just cover plate. Allow the plate to soak for no more than 10 minutes.

CAUTION: Damage may result from soaking the purifier plate in the ammonia solution longer than 10 minutes.

Remove plate and scrub with a soft bristle brush. Rinse thoroughly. Let air-dry for 24 hours or use a blow dryer to dry thoroughly.

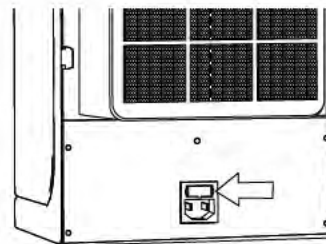
The unit will display a REPLACE PLATE message if the purification plate needs to be replaced.

CHANGING THE ACTIVEPURE (RCI) CELL:

The ActivePure (RCI) cell should be changed when REPLACE RCI CELL appears on the display, or **every two (2) years**, whichever comes first. To change the ActivePure (RCI) cell, follow the instructions on pages 8 - 9.

CHANGING THE FUSE:

The fuse may be accessed by unplugging the cord from the back of the unit, removing the back cover of the unit, then pulling, or if necessary, gently prying the fuse out using a small, straight screwdriver.



100 & 120 volt models - use 1.6 Amp slow blow fuse.
220/240 volt models - use 1.0 Amp slow blow fuse.

SEE PAGES 8 - 9 FOR REMOVAL AND INSTALLATION INSTRUCTIONS

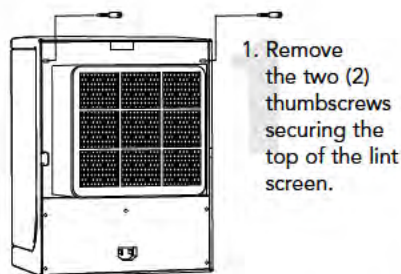
* See next page for back cover removal instructions

OPTIONAL PREFILTER

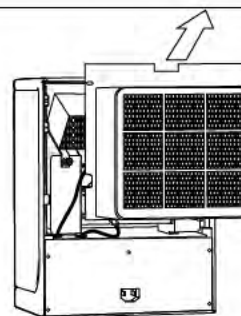
To Remove:

Rear Back Panel
follow steps 1 - 3,
pg. 8

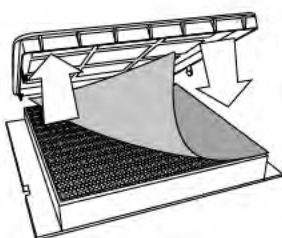
Prefilter
follow steps 4 - 5
pg. 8



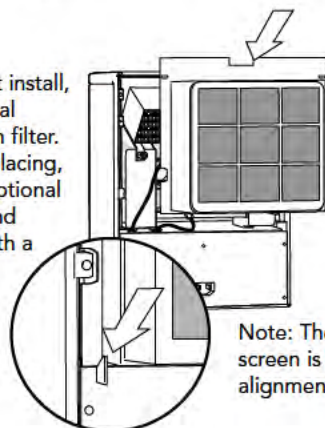
1. Remove the two (2) thumbscrews securing the top of the lint screen.



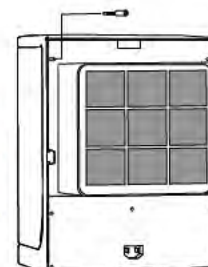
2. Remove the lint screen by pulling back the top, then lifting up and out.



3. (a) For first install, lay Optional Prefilter on filter.
(b) For replacing, remove Optional Prefilter and replace with a new one.



4. Replace the rear lint screen, inserting the bottom of the lint screen first.

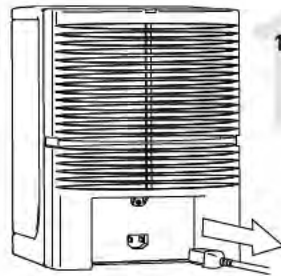


5. Secure the top of the lint screen by replacing the two (2) lint screen holder thumbscrews.

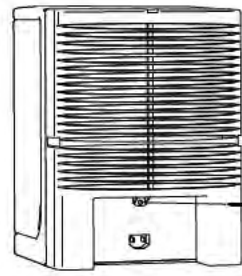
Note: The bottom of the rear lint screen is held into place by two alignment guides (see inset).

REMOVING THE REAR LINT SCREEN

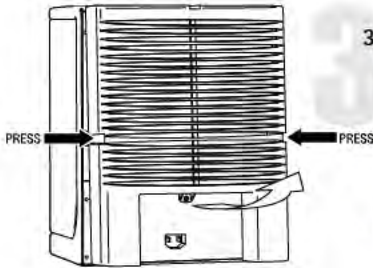
To Remove:
 Rear Lint Screen
 follow steps 1 - 5
 Purifier Plate
 follow steps 1 - 6
 ActivePure (RCI) cell
 follow steps 1 - 10



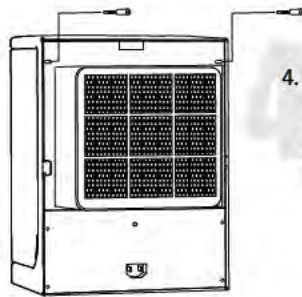
1. Unplug unit.



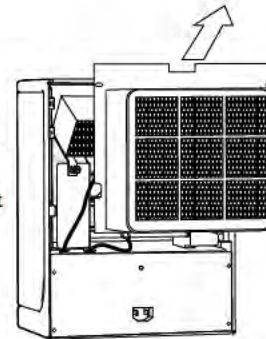
2. Remove the back cover screw.



3. Remove back cover. Press the sides to unlatch, then tilt the bottom out to remove.



4. Remove two thumbscrews securing the top of the lint screen.



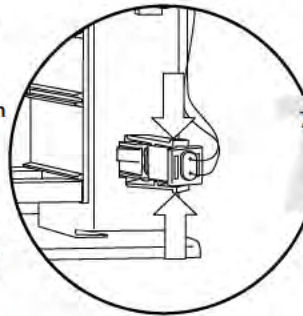
5. Remove the lint screen by pulling back the top, then lifting up and out.

REMOVING THE PURIFIER PLATE & ACTIVEPURE (RCI) CELL

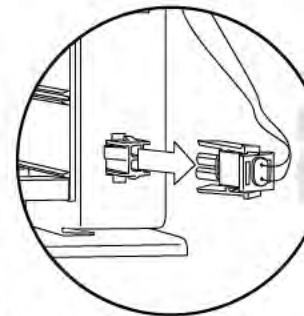


6. To remove the purification plate, grasp edge of plate in the center and gently pull out.

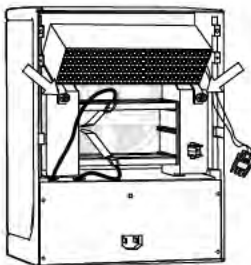
NOTE: If the plate is difficult to remove, gently press down on the lower metal contact tab.



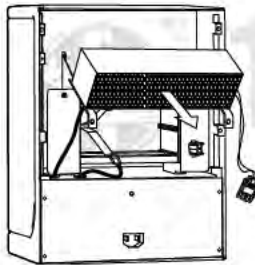
7. Unlock the ActivePure (RCI) cell connector by pressing on the connector's locking tabs.



8. Pull the connector straight out to unplug.



9. Remove two (2) thumbscrews.



10. Slide the ActivePure (RCI) cell down and out of unit.

WARNING: Do not operate AP3000 by activTek without the rear lint screen and back cover properly installed.

INSTALLING THE ACTIVEPURE (RCI) CELL & PURIFIER PLATE

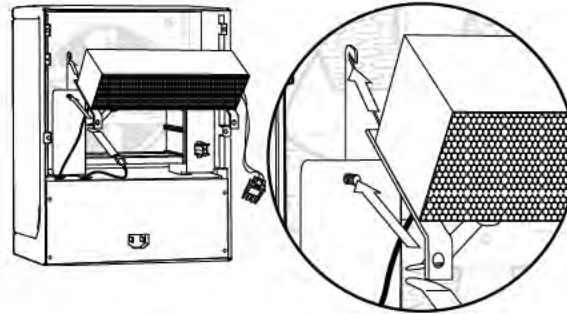
To Install:

Rear Lint Screen
follow steps 5 - 9

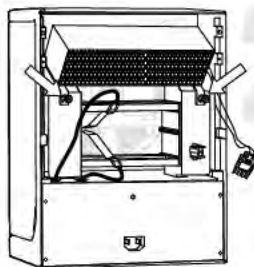
Purifier Plate
follow steps 4 - 9

ActivePure (RCI) cell
follow steps 1 - 9

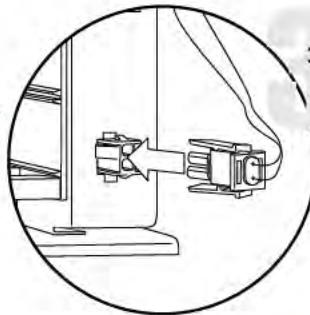
When installing the purification plate, be sure the metal tabs are making contact with the screen on each side of the plate.



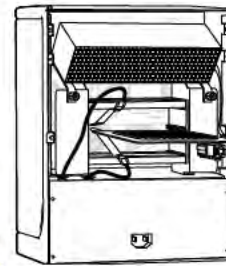
1. Slide the ActivePure (RCI) cell up and into the unit. Be sure the back lip of the ActivePure (RCI) cell engages the two slotted protrusions at the rear of the plate cage, and that the angle brackets and studs are correctly aligned.



2. Replace the two (2) thumbscrews and tighten.

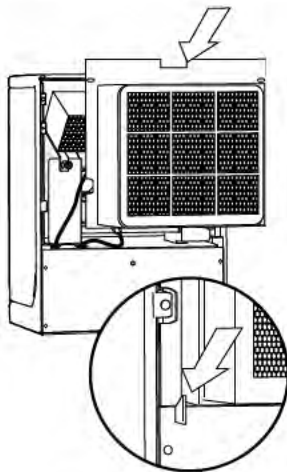


3. Insert the ActivePure (RCI) cell connector into the plug on the plate cage. Press the connector firmly until the two tabs lock into place.



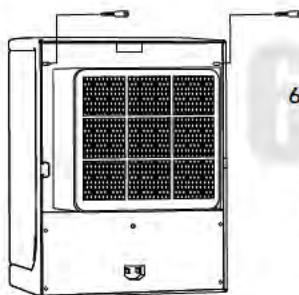
4. Gently insert the purifier plate between the guides (inside the cage) until it stops.

INSTALLING THE REAR LINT SCREEN

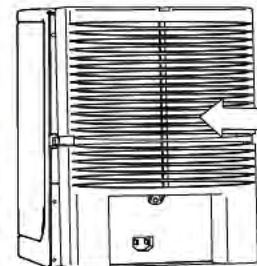


5. Replace the rear lint screen, inserting the bottom of the lint screen first.

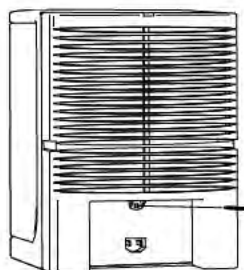
Note: The bottom of the rear lint screen is held into place by two alignment guides (see inset).



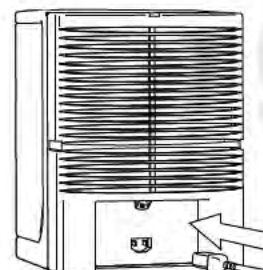
6. Secure the top of the lint screen by replacing the two (2) lint screen holder thumbscrews.



7. Replace the back cover by snapping into place.



8. Replace the back cover screw.



9. Reinstall the power cord.

WARNING: Do not operate AP3000 by activTek without the rear lint screen and back cover properly installed.

For disassembly instructions, see page 8.

TROUBLESHOOTING

INDICATORS OF OPERATION:

When the unit is on, the LCD display will show either the fan setting and NORMAL, or the fan setting, purifier setting, and square footage. If the unit is in Away Mode, it will display AWAY MODE plus the hours and minutes remaining. See page 4 for more information.

TROUBLESHOOTING - WHAT TO LOOK FOR FIRST.

1. *I have plugged in the unit, pressed the ON button on the remote (or the unit), and nothing happens... what's wrong?*

- Make sure the power cord is inserted completely into the receptacle on the back of the unit.
- Make sure the electrical outlet is capable of providing power to the unit.
- Check to see if the proper fuse is installed and that it is operational.

If you are operating your central heating and air conditioning fan, or other ventilation system continuously, set the coverage up to the total ventilated indoor area. Otherwise, set the coverage up to the size of the room. Do not exceed the size of the ventilated indoor area when setting the purifier level.

Please note: The AWAY MODE should be operated in unoccupied areas only. "Unoccupied areas" includes pets. Some pets, like humans, may experience adverse reactions from exposure to increased levels of ozone and should not be present during Away Mode operation.

2. *The fan is operating but the purifier plate is not working... what's wrong?*

- The unit is in Normal Mode (press the Normal/High switch to change to High Mode).
- If the unit is displaying a REPLACE PLATE message, check the purifier plate for serviceability. If it is cracked or broken, the purifier plate will require replacement. Ensure maintenance procedures required for the purifier plate have been performed according to the "Maintenance" section of this owner's manual. Order new purifier plates from your activTek Distributor.

- The electrical stainless steel contacts are not contacting the screen portion of the purifier plate. Unplug and inspect the unit for any loose connections.
- Do not attempt to disassemble the unit. This will void the warranty of the product.

3. *The purifier plate is making a noise, has a burning smell, and/or appears to arc or spark. What is the problem?*

- The purifier plate is most likely cracked. The unit will display a REPLACE PLATE message. Refer to the answers for question # 2, as it would apply to this question also.

4. *The UV lamp is not functioning/I'm getting a "Replace RCI Cell" message.*

- Check ActivePure (RCI) cell for proper installation by removing the back cover and rear lint screen. Be sure the RCI cell is properly connected.
- Replace the ActivePure (RCI) cell.

CAUTION: *Do not look directly at the glowing lamp. Prolonged exposure, even to reflected UV light, can cause eye damage according to the American Conference of Governmental Industrial Hygienists (ACGIH) Standards. AP3000 by activTek emits UV light which can cause eye damage if the light were looked at continuously, for 20 minutes or more, at a distance of one (1) inch or less.*

5. *What are the most typical application problems?*

- A belief that the proper equipment is placed in the environment and the equipment appears unsuccessful. This can be caused by lack of air movement or improper placement of the unit.
- Strong odors still remain within the environment after placement. The purifier setting may be too low, the unit may not be placed properly, or the source of the odor has not been eliminated.
- A strong odor of ozone is present within the environment. There is too much ozone accumulation within the

TROUBLE SHOOTING

environment as a result of improper purifier control setting, and/or lack of air movement .

- Visual haze of smoke and/or particulate remain within the environment .

This can result from lack of ionization and/or air movement .

6. Air flow is restricted or reduced.

- Is the unit properly placed away from objects that may obstruct air flow?
- Are the rear lint screen, back cover, and front grill clean?
- Is the ActivePure (RCI) cell clean?

7. How can I tell if the ActivePure (RCI) cell is functioning?

- The ActivePure (RCI) cell will produce a glow that is visible through the front grill under low light conditions (if the bulb and catalyst coated honeycomb are not contaminated with deposits of foreign material such as tar or nicotine) . PLEASE NOTE : The UV output of the RCI cell bulb will decrease over time and should be changed every two (2) years, even if the bulb is still producing light .

8. Unit does not operate.

- Is the unit plugged in?
- Are you sure the outlet is active?
- Are the rear lint screen and back cover installed properly?
- Does the fuse need to be replaced?

WARRANTY INFORMATION

This product is of solid state construction and is under warranty by:

activTek Environmental
310 T. Elmer Cox Drive
Greenville, TN 37743

to the original purchaser, depending on model, to be free from defect in materials and workmanship for a limited time.

Length of warranty will vary depending on model.

See warranty card for specific details .

If you have any questions concerning your AP3000 by activTek, please see your local activTek Distributor.

For help, visit www.activTek.eu

If your unit fails to operate properly after performing trouble-shooting, contact your activTek Distributor for further assistanc. Contact activTek at:

activTek Environmental
Moscatel, 48
29631 Benalmádena, Málaga, Spain
+34 952 004 975

or visit www.activTek.eu for additional support.

FCC DECLARATION OF CONFORMITY


Name: activTek
Model: AP3000 by activTek

This device complies with Part 18 of the FCC Rules .

RESPONSIBLE PARTY



activTek Environmental
310 T. Elmer Cox Drive
Greeneville, TN 37743

Signature: 
Printed Name: David Blackwell
Title: Engineering Manager
Date: 3/1/05

This equipment has been tested and found to comply with the limits for Industrial, Scientific, and Medical Equipment (ISM), pursuant to Part 18 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Business Owner or an experienced radio/TV technician for help.

REPLACEMENT PARTS LIST

- Item # US71090 : Ozone-Free ActivePure (RCI) Cell output (Normal Mode):
0 ppm ozone (produces no ozone).
- Item # US70078 : Purification Plate.

