INTRODUCTION

Congratulations, you have purchased one of the most effective, technologically advanced air purifiers available. Your new Fresh Air by EcoQuest 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 to use only genuine EcoQuest replacement parts available from your EcoQuest Dealer.

If you have any questions concerning this or any EcoQuest product, contact your EcoQuest Dealer.

Please record the name and phone of your EcoQuest Dealer:

Name _______________________________________________
Phone _______________________________________________

Please record the serial number of your Fresh Air by EcoQuest:

Serial # ______________________________________________

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.

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This owner’s manual is also available online at:
http://www.ecoquest.com/ownersmanuals

OPERATION

1. Adjust the fan speed to your preference keeping in mind that higher fan speeds will give better results.
2. Set the purifier controls anywhere from zero up to the total area of the indoor environment. Do not set the area indicated by the purifier above the square footage (or square meters for international models) of the indoor area.
3. To operate the sanitize feature, press the sanitize button until the desired time is reached (2, 4, 6, or 8 hours). The unit will display SANITIZE and the remaining time in hours and minutes (see below). Make sure the area is unoccupied before using the sanitize. To interrupt the sanitize feature before the timer reaches zero, press the Purifier On/Off button.

NORMAL 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.

SANITIZE MODE: The unit’s display will change when the Sanitize function is active. The fan will show maximum and SANITIZE will replace the purifier setting. The amount of time remaining will depend on how long you have selected for the Sanitize function to operate. The colon (:) will flash to indicate time being counted down.

Sanitize Mode: 6:35

Fan Speed (Min) Sanitize Mode Time Remaining

2. 2500 ft² 6:35
**YOUR NEW FRESH AIR BY ECOQUEST:**

- Eliminates smoke, odors, and tobacco smoke.
- Sanitize feature kills mold, mildew, and bacteria in unoccupied spaces.
- UVC light helps kill airborne germs as they pass through the unit.
- Removes odors from your home, office, car, boat, RV, etc.
- Improves the quality of air indoors.
- Helps control additional dust and dander when an optional EcoHelp filter is properly installed.
- Customizable to your environment using either the included remote or the controls on the front of the unit.
- IntelliAir™ Technology alerts you when normal maintenance needs to be performed or service is required.

**SPECIFICATIONS**

**Electrical:**
- 100 volt 50/60hz, 110 volt 60 hz, 220/240 volt 50/60 hz depending on model
- 90 watts power consumption
- 24 to 30 KV, 20-30 Khz ion generation pulsator
- Fixed 6 KV DC needle ion generator

**Mechanical:**
- 400 CFM fan
- Dimensions: 12” high x 9” wide x 12” deep
- Weight: 16 pounds

**Purification Plate Output:**
- 0-360 mg of ozone per hour

**Coverage:**
- Covers a range of 250 ft$^2$ (23 m$^2$) to 3000 ft$^2$ (279 m$^2$)

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

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**S P E C I F I C A T I O N S**

**CAUTION!**
- The sanitizer feature of this unit is to be operated in unoccupied areas only.
- Do not operate this unit without the lint screen and back cover installed.

**CAUTION!**
- Disconnect power cord before servicing.
- 110 & 110 volt models - use 1.6 Amp slow blow fuse.
- 220/240 volt models - use 1.0 Amp slow blow fuse.

**Location for Protective Earth Line.**

**WARNING!**
- The Sanitize feature is to be operated in unoccupied areas only.
- Do not operate this unit without the lint screen and back cover installed.
- Remove the grille to service.
- Use 1.0 Amp slow blow fuse for 100 & 110 volt models and 1.6 Amp slow blow fuse for 220/240 volt models.

**Location for Protective Earth Line.**
**SETTINGS AND ADJUSTMENTS**

Fresh Air by EcoQuest can be turned on or off and adjusted using either the included remote or the control panel on the front of the unit. With the exception of the Reminder Reset button, both the remote and the control panel buttons have the same functions.

- **POWER (STAND BY)**
  - Turns the unit ON and OFF. Works only when the Main Power switch (in back of unit) is turned on.
- **FAN UP / FAN DOWN**
  - Adjusts the five speed fan.
- **PURIFIER UP / PURIFIER DOWN**
  - Sets the purifier level for the indoor area. The level is indicated by both a horizontal bar graph and square footage for U.S. models (or square meters for international models).
- **PURIFIER ON / OFF**
  - Turns the Purifier Plate on and off.
  - NOTE: when the display shows SYNAIRG4 ON, the UV, RCI™ Target, and ionization features continue to operate normally.
- **SANITIZER**
  - Turns on and adjusts the timer for the sanitizer function. Each press of the Sanitizer button will increase the time by two hours, up to eight hours, then OFF.
- **REMINDER RESET (CONTROL PANEL ONLY)**
  - Clears the maintenance reminders after performing routine maintenance.

**LCD DISPLAY**

- **LCD SCREEN**
  - The LCD Screen is used to display all current settings as well as any maintenance reminders and service messages.

**Fan Speed**

- **Purifier Setting**
- **Purifier Coverage**

**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.

**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 display CLEARED, then clear the message). All the other service reminders will clear automatically once the unit has been turned off and back on and the problem has been corrected.

**MAINTENANCE AND SERVICE REMINDERS**

- **PERFORM CLEANING** (approx. every 30 days)
  - Vacuum Lint Screen
  - Clean Purifier Plate
  - Clean the RCI™ Target
  - Vacuum Front and Rear Grill openings

- **REPLACE PLATE**
  - The purifier plate is not functioning properly.
  - Replace the old purifier plate with a new purifier plate (available from your EcoQuest Dealer)

- **REPLACE LAMP**
  - The germicidal UV lamp is no longer working correctly.
  - Replace the UV lamp and starter (new lamps and starters are available from your EcoQuest Dealer)

**SEE PAGES 10 - 13 FOR REMOVAL AND INSTALLATION INSTRUCTIONS**
Periodic maintenance is required to ensure that your Fresh Air by EcoQuest operates properly. The unit will display a PERFORM CLEANING reminder when it is time to perform regular maintenance. If you are operating your unit in a severely polluted environment, cleaning of the unit, purifier plate, and RCI™ Target should be done more frequently. Shown here are basic procedures that should be carried out to keep your unit running at top performance.

CAUTION: Unplug the unit before performing any maintenance procedures.

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

Cleaning the RCI™ Target:
Remove the RCI Target and rinse with warm water. Allow to dry completely before reinstalling.

Rear lint-screen cleaning:
You have two options to clean the lint screen:
1. When visibly dirty, simply remove the rear lint screen from the unit (see pages 10 - 13) and, with a hand-held vacuum, remove the heavy particulate. This method will extend the life of the filter.
2. When visibly dirty, remove the rear lint screen from the unit (see pages 10 - 13) and wash in hot water, brushing gently with a toothbrush to remove particulate. Allow to dry prior to re-installing. Note: do not use soap - it will damage the carbon material in the lint screen. If an EcoHelp filter has been installed, replace if necessary - do not wash.

Rear lint-screen replacement:
Contact your EcoQuest Dealer for replacement lint screens.

Purifier Plate:
Remove the rear filter (see pages 10 - 13). 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 with cleaning with denatured alcohol and a soft bristle brush. This will cut the grease without leaving a residue. For all applications - Clean with ammonia to remove contaminates. Put the plate(s) into a shallow dish and pour enough ammonia into the dish to just cover plate(s). Allow the plate(s) to soak for 10-20 minutes. Remove 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 UV Lamp
The UV lamp should be changed when REPLACE LAMP appears on the display. To change the lamp follow the instructions on pages 10 - 13.

Changing the fuse:
The fuse may be accessed by unplugging the cord from the back of the unit and gently pulling the fuse holder straight out.

100 & 110 volt models - use 1.6 Amp slow blow fuse.
220/240 volt models - use 1.0 Amp slow blow fuse.

OPTIONAL ECOCHELP FILTER
For removal of additional dust and allergens, your Fresh Air by EcoQuest will accommodate an optional EcoHelp filter. The EcoHelp filter replaces the standard lint screen and is completely covered when the unit is properly assembled. See page 13 for filter installation instructions. Contact your EcoQuest Dealer to order an EcoHelp filter.

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Note:
• The rear of the unit should always have at least one inch of open area to allow unrestricted airflow.
• Be sure the power cord is not accessible to small children to prevent injury.

PLACEMENT OF UNIT
Place the unit as high as possible to insure 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 clean air throughout the area.
3. In the area most heavily used to achieve maximum benefit.
REMOVING THE LINT SCREEN

1. Unplug unit.
2. Remove the two (2) back cover screws.
3. Remove back cover.

WARNING: DO NOT OPERATE Fresh Air by EcoQuest without the lint screen and back cover properly installed.

To Remove:
Lint Screen
follow steps 1 - 5
Purifier Plate
follow steps 1 - 6
RCI™ Target
follow steps 1 - 7
UV Bulb
follow steps 1 - 10

4. Remove two (2) screws securing the top of the lint screen holder.

5. Remove the lint screen holder and the lint screen together by pulling back and lifting up and out.

TIP: Hot water and ammonia work well to clean your Purification Plates. Ask your EcoQuest Dealer for more information. (See page 8 for complete cleaning instructions.)

REMOVING THE PURIFIER PLATE & RCI™ TARGET

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. To remove the RCI™ Target, grasp the frame and gently pull screen out of unit.

8. Disconnect the two (2) lead wires attached to the purifier plate cage.

9. Loosen two (2) screws holding the plate cage. Slide the cage forward, lift and remove.

10. Rotate starter and lift to remove.

11. Rotate UV Bulb 1/4 turn, lift out of holders, and remove from unit.

For installation of the lint screen or EcoHelp filter, go to page 13.

To remove the purification plate, continue to step 6.

REMOVING THE UV BULB AND STARTER

10.
INSTALLING THE UV LAMP

1. Insert UV bulb into holder then rotate to lock into place. NOTE: Do not touch glass areas of UV bulb. To install, hold bulb by ends only.

2. Replace starter and turn to lock.

3. Replace cage by lowering and sliding back into place. Tighten two (2) screws securely.

4. Connect the two (2) lead wires attached to the purifier plate cage.

INSTALLING RCI™ TARGET & PURIFIER PLATE

5. Replace the RCI™ Target by gently inserting into the large guides until the screen stops.

To Install:

- Lint Screen or EcoHelp Filter
  - follow steps 7 - 11
- RCI™ Target
  - follow steps 5 - 11
- Purifier Plate
  - follow steps 6 - 11
- UV Bulb
  - follow steps 1 - 11

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

INSTALLING THE LINT SCREEN

7. Replace lint screen and the top of the lint screen holder at the same time.

8. Be sure the lint screen depresses the metal tab.

10. Replace two (2) back cover screws.

11. Reinstall the power cord.

For disassembly instructions see pages 10 - 11.

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

NOTE: Do not touch glass areas of UV bulb. To install, hold bulb by ends only.

WARNING: DO NOT OPERATE Fresh Air by EcoQuest without the lint screen and back cover properly installed.
Indicators of Operation
When the unit is on the LCD display will show the fan setting, purifier setting, and square footage. If the unit is in sanitizer mode, it will display SANITIZE and the hours and minutes remaining.

Troubleshooting - What to look for first.
1. I have plugged in the unit, turned “on” the main power switch, 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 the lint screen located at the back of the machine to ensure that the safety switch activator clip depresses the safety switch.
   • Do not attempt to disassemble the unit, this will void the warranty of the product.

2. The fan is operating but the Purifier Plate is not working…what’s wrong?
   • The unit will display 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 plates from your EcoQuest Dealer.
   • 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 Lamp” message.
   • Check lamp for proper installation.
   • Replace UV Lamp.
   • PLEASE NOTE: If unit has been recently transported check lamp for proper installation, remove Lamp and reinstall.

5. What are the most typical application problems?
   • Symptom: A belief that the proper equipment is placed in the environment and the equipment appears unsuccessful.
     Problem: Lack of air movement, improper placement of the unit.
   • Symptom: Strong odors still remain within the environment after placement.
     Problem: Purifier setting is too low or improper placement of the unit.
   • Symptom: A strong odor of ozone is present within the environment.
     Problem: Too much ozone accumulation within the environment as a result of improper purifier control setting, and / or lack of air movement.
   • Symptom: Visual haze of smoke and / or particulate remain within the environment.
     Problem: Lack of ionization and / or air movement.

6. How can I tell if the UV lamp is functioning?
   • The UV lamp will produce a glow that is visible through the front grill under low light conditions
   CAUTION: Do not look directly at the glowing lamp.

7. Unit does not operate -
   • Is the unit plugged in?
   • Are you sure the outlet is active?
   • Is the main power switch turned on?
   • Is the rear lint screen installed properly to depress the safety switch downward?
   • Does the fuse need to be replaced?

8. Air flow is restricted or reduced -
   • Is the unit properly placed away from objects that may obstruct air flow?
   • Are the lint screen (or EcoHelp filter) and front grill housing clean?
   • Is the RCI™ Target clean?

If your unit fails to operate properly after performing trouble-shooting, contact your EcoQuest Dealer for further assistance, contact EcoQuest at the address located on the front of the manual, or visit www.EcoQuest.com for additional support.
Did you forget to register your Fresh Air by EcoQuest?

By registering, you'll activate your warranty, and your privacy is guaranteed. Just fill out your warranty card and drop it in the mail.

WARRANTY INFORMATION

This product is of solid state construction and is warrantied by EcoQuest International 310 T. Elmer Cox Drive Greeneville, 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 Fresh Air by EcoQuest, please see your local EcoQuest Dealer.

For help, visit www.EcoQuest.com.

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 dealer or an experienced radio/TV technician for help.