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To reduce the risk of electric shock, this equipment has a grounding type plug that has a third (grounding) pin. This plug will only fit into a grounding type power outlet. If the plug does not fit into the outlet, contact qualified personnel to install the proper outlet. Do not alter the plug in any way.



WARNING! - 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.



 ${\it CAUTION!}\ \hbox{-}\ Disconnect\ power\ cord\ before\ servicing.}$

100 & 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.

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:

- 70 100 CFM* fan output
- * Actual CFM will vary depending on condition of rear lint screen.

Size:

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

RCI cell Output (Normal Mode):

• < 0.02 ppm ozone (ambient room concentration)

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.

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 #

YOUR NEW FRESH AIR BY ECOQUEST

- Eliminates smoke, odors, and tobacco smoke.
- Includes "Certified Space Technology" Radiant Catalytic Ionization (RCI), which incorporates the same process NASA uses to scrub the air inside spacecraft.
- Germicidal broad spectrum high-intensity UVX lamp (100 300 nm) 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 up to 3000 ft2 (279 m2).
- 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.





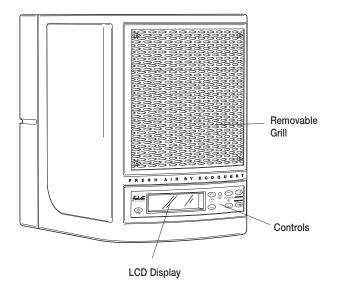


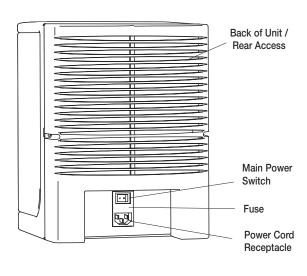
INSPECTION & INSTALLATION

- 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 Owners Manual thoroughly prior to installation.
- 6. Install batteries in remote.
- 7. Determine placement location for the unit (See "Placement of Unit" on page 10), plug the unit into a 110 volt outlet.
- 8. Be sure the main power switch (on back of unit see page 6) is in the ON position.
- 9. Using either the remote control or the *Power* button, turn the unit ON. The display should look similar to below.



UNIT FEATURES





- Exclusive Radiant Catalytic Ionization (RCI)
- Needlepoint and RF Ion Generation
- Five Speed Fan
- Adjustable Purifier control (High Mode only)
- LCD Display

- Away Mode Function w/adjustable digital timer
- IntelliAir Maintenance Reminders
- IntelliAir Service Alerts
- Remote Control or Manual Operation
- Computer style cord

- Uses Standard household current
- Washable Purification Plate
- Washable Rear Lint Screen
- Replaceable RCI cell
- Removable Front Grill

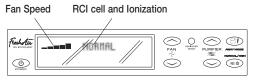
OPERATION

- 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, adjust the purification level to it's 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.

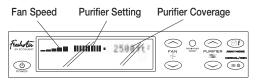
If you are operating your central heating and air conditioning fan or other ventilation system continuously, set the coverage up to the total ventilated indoor area, otherwise set the coverage up to the size of the room. Do not exceed the size of the ventilated indoor area when setting the purifier level.

4. To operate the AWAY MODE feature, **in unoccupied areas only***, press the *Away Mode* button 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.

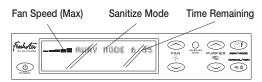
*Please note: "unoccupied areas" includes pets. Some pets, like humans, may experience adverse reactions from exposure to increased levels of ozone and should not be present during AWAY MODEoperation.



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



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.

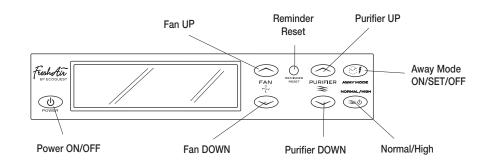


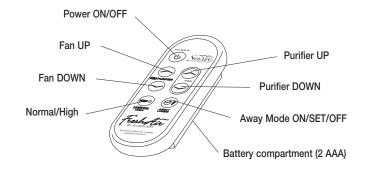
AWAY MODE: The fan will show maximum, and AWAY MODE will replace the purifier setting. The amount of time remaining will depend on how long you have selected for the AWAY MODE function to operate. The colon (:) will flash to indicate time being counted down.

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.

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.







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.



NORMAL / HIGH

Toggles the unit between **NORMAL MODE** (RCI and Ionization) and **HIGH MODE** (RCI, Ionization, and Purification Plate).



REMINDER RESET (CONTROL PANEL ONLY) Clears the maintenance reminders after

performing routine maintenance.



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 $\rm ft^2$ (23 $\rm m^2$).

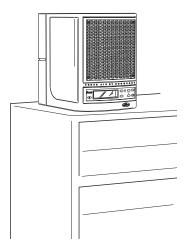


AWAY MODE

Turns on and adjusts the timer for the **AWAY MODE** function. Each press of the *Away Mode* button will increase the time by two hours, up to eight hours, then OFF. The AWAY MODE should be operated in unoccupied areas only*.

*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.

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.
- Near a cold-air return to thoroughly circulate clean air throughout the area.
- In the area most heavily used to achieve maximum benefit.

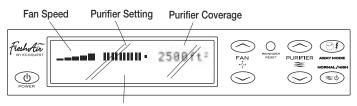
Note:

- 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.

LCD DISPLAY

LCD SCREEN

The LCD Screen is used to display all current settings (see page 5), as well as any maintenance reminders and service messages.



Reminders (normally blank - reminders appear here when unit needs maintenance)

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 AND SERVICE REMINDERS

REPLACE PUR PLATE

REPLACE PUR PLATE

The purifier plate is not functioning properly.

• Replace the old purifier plate with a new purifier plate (available from your local EcoQuest Dealer).

REPLACE RCI CELL

REPLACE RCI CELL

The RCI cell is no longer working correctly.

- Replace the RCI cell (replacement RCI cells are available from your local EcoQuest Dealer).
- Please Note: The RCI cell should be replaced every three (3) years, even if the unit does not display this message.

PERFORM CLEANING

PERFORM CLEANING

(approx. every 30 days)

- Clean the rear lint screen (see page 12).
- Vacuum the RCI cell.
- Clean purifier plate (see page 12).
- 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 display CLEARED to let you know the reminder has been cleared). 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 insure 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, RCI cell, and rear lint screen 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 (not wet) with water. Do not use chemicals or solvents. Vacuum the front and rear grills periodically to remove any lint buildup.

CLEANING THE RCI CELL:

Remove the RCI cell and carefully vacuum accumulated lint. **Do not** wash the 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 14 17), 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 14 17), carefully vacuum then wash in hot water (do not use soap). Allow to dry prior to re-installing. Replace if damaged.

REAR LINT SCREEN REPLACEMENT:

Contact your EcoQuest Dealer for replacement lint screens.

OPTIONAL ECOHELP FILTER

The EcoHelp filter is not available for Fresh Air By EcoQuest 2.0 and later models. Check the serial label on your unit for model identification.

PURIFIER PLATE:

Remove the rear lint screen (see pages 14 - 17). 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 longer than 10 minutes.

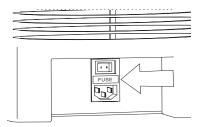
Remove plate and scrub with a soft bristle brush. Rinse thoroughly. Let air dry for 24 hours or use a blow dryer to dry thoroughly. The unit will display a REPLACE PLATE message if the purification plate needs to be replaced.

CHANGING THE RCI CELL:

The RCI cell should be changed when REPLACE RCI CELL appears on the display, or **every three (3) years**, whichever comes first. To change the RCI cell, follow the instructions on pages 14 - 17.

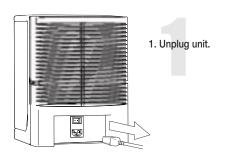
CHANGING THE FUSE:

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



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

REMOVING THE REAR LINT SCREEN



To Remove:

Rear Lint Screen follow steps 1 - 5

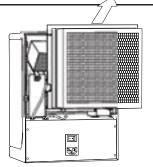
Purifier Plate

follow steps 1 - 6

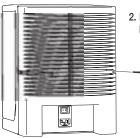
RCI cell

follow steps 1 - 10

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

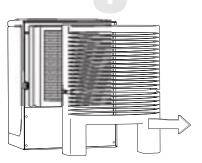


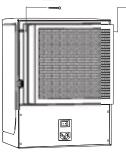
4. Remove two (2) screws securing the top of the lint screen.



2. Remove the two (2) back cover screws.

3. Remove back cover.





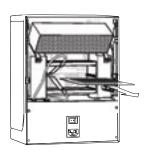
To remove the purification plate, continue to step 6.

To remove the RCI cell, skip to step 7.

For installation of the lint screen, go to page 16.

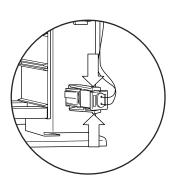
WARNING: DO NOT OPERATE Fresh Air by EcoQuest without the rear lint screen and back cover properly installed.

REMOVING THE PURIFIER PLATE & RCI CELL



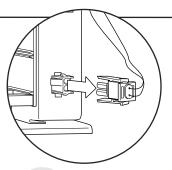
To remove the purification
 plate, grasp edge of plate in
 the center and gently pull out.

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



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

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.)

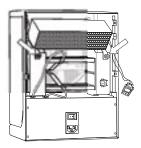


8. Pull the connector straight out to unplug.

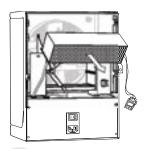
DISPOSAL OF A USED RCI CELL

Please do not throw a used RCI cell into the garbage. The special germicidal UVX bulb used in the RCI cell contains a very small amount of mercury. You may return your used RCI cell to EcoQuest for proper disposal. Send the used cell to:

EcoQuest International RCI Disposal 55 Marley Drive Greeneville, TN 37743

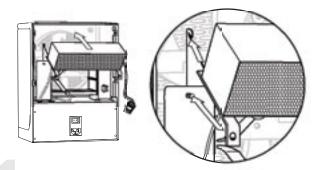


9. Remove two (2) thumbscrews.

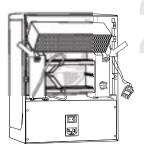


Slide the RCI cell down and out of unit.

INSTALLING THE RCI CELL & PURIFIER PLATE



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



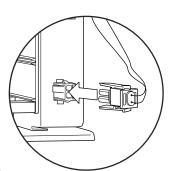
2. Replace the two (2) thumbscrews and tighten.

To Install:

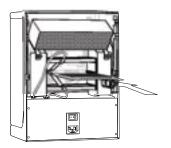
Rear Lint Screen follow steps 7 - 11

Purifier Plate follow steps 4 - 11

RCI cell follow steps 1 - 11



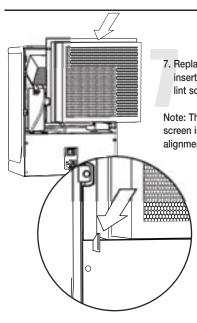
Insert the RCI cell connector into the plug on the plate cage. Press the connector firmly until the two tabs lock into place



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

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

INSTALLING THE REAR LINT SCREEN

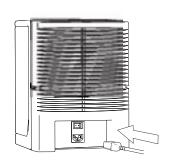


Replace the rear lint screen, inserting the bottom of the lint screen first.

Note: The bottom of the rear lint screen is held into place by two alignment guides (see inset). For disassembly instructions see pages 14 - 15.

Reinstall the power cord.

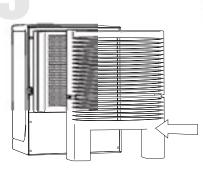
10. Replace two (2)

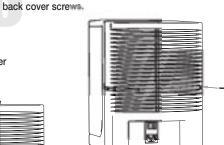


8. Secure the top of the lint screen by replacing the two (2) lint screen holder screws.



9. Replace the back cover





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

TROUBLESHOOTING

Indicators of Operation:

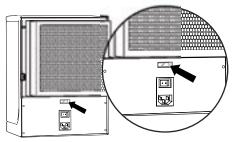
When the unit is on, the LCD display will show either the fan setting and NORMAL, or the fan setting, purifier setting, and square footage. If the unit is in Away Mode, it will display AWAY MODE plus the hours and minutes remaining. See page 7 for more information.

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.
- Make sure the rear lint screen and back cover are properly installed. The tab on the back cover must depress the safety switch inside the unit (see inset).
- 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.



Rear safety switch location

- 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 EcoQuest Dealer.
- 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 RCI cell for proper installation.
- Replace the RCI cell.

Continued on next page >

TROUBLESHOOTING

- 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. 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 RCI cell clean?
- 7. How can I tell if the RCI cell is functioning?
- The RCI cell will produce a glow that is visible through the front grill under low light conditions

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. Fresh Air by EcoQuest emits UV light wich 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.

8. Unit does not operate.

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

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.

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.

FCC DECLARATION OF CONFORMITY

Name: EcoQuest

Model: Fresh Air by EcoQuest

Manufacturer: EcoQuest Manufacturing

This device complies with Part 18 of the FCC Rules.

RESPONSIBLE PARTY



EcoQuest International 310 T. Elmer Cox Drive Greeneville, TN 37743

Ph: (800) 989-2299

Signature

Printed Name: R. Paul Beam **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 Dealer or an experienced radio/TV technician for help.



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.

