

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.



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

www.ecoquest.company

65-00117-002
DW_OM_1004

FCC DECLARATION OF CONFORMITY

Name: EcoQuest

Model: Fresh Air DuctwoRx™


Manufacturer: EcoQuest Manufacturing

This device complies with Part 18 of the FCC Rules.

RESPONSIBLE PARTY

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

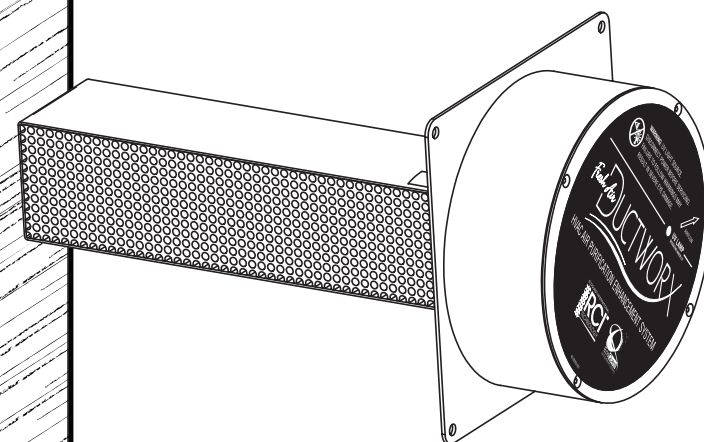
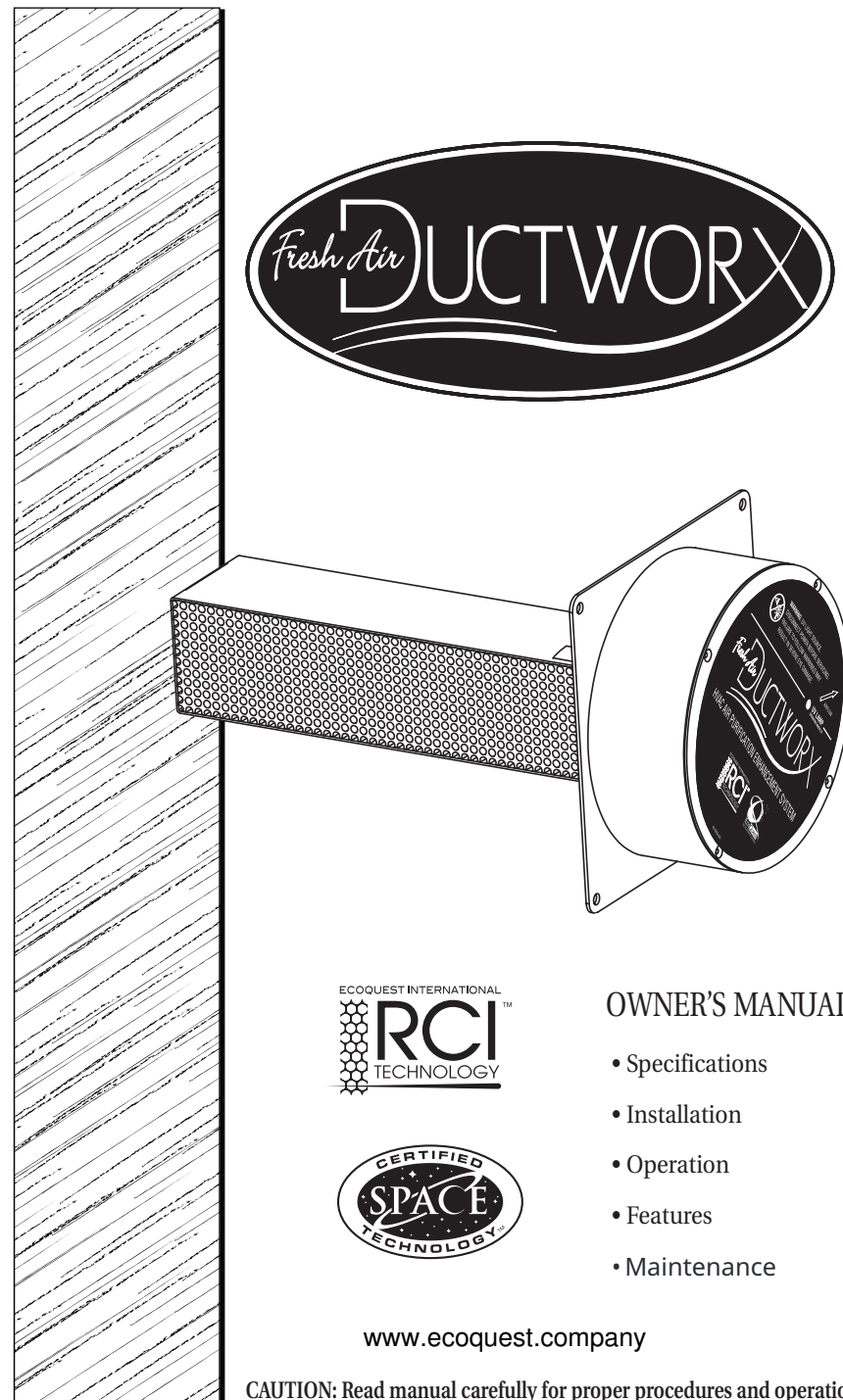
Ph: (888)664-1812

Signature: 

Printed Name: R. Paul Beam

Title: Engineering Manager

Date: 7/9/04



OWNER'S MANUAL

- Specifications
- Installation
- Operation
- Features
- Maintenance

www.ecoquest.company

CAUTION: Read manual carefully for proper procedures and operation.

CONGRATULATIONS ...

on your purchase of a Fresh Air DuctwoRx™ air purification enhancement system. This unit is designed to be installed into an existing HVAC system, and used as a virtually maintenance-free enhancement to EcoQuest's air purification technology. Please read and follow all service procedures outlined in this manual. 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 DuctwoRx™:

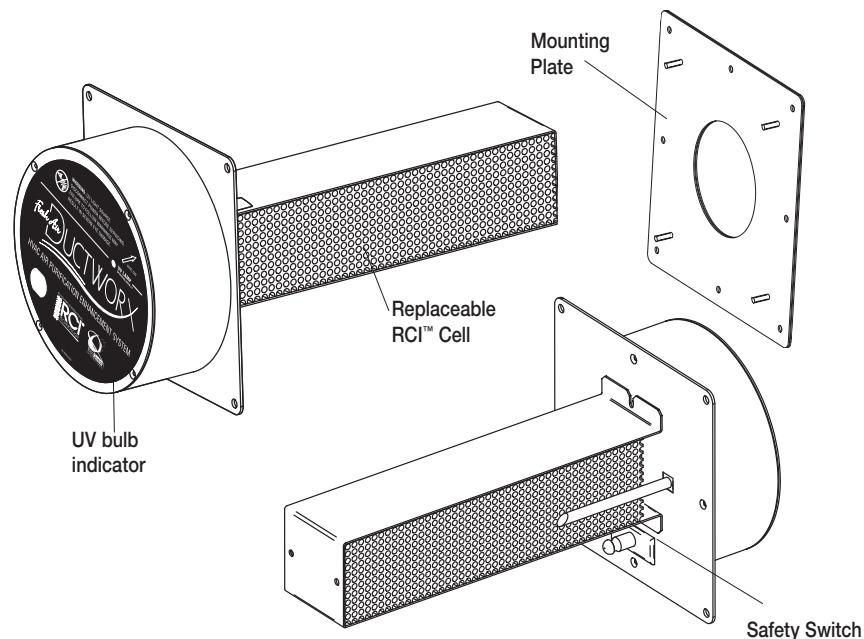
Serial # _____

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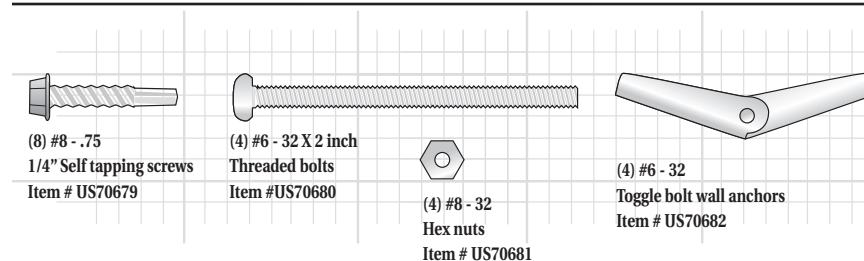
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This owner's manual is also available online at: <http://www.ecoquest.com/ownersmanuals>

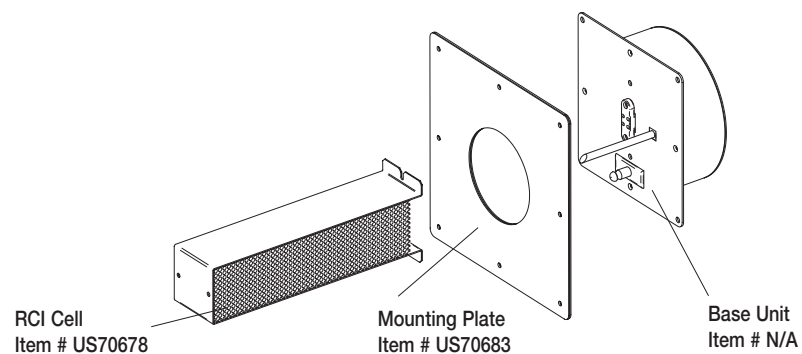
PRODUCT CONTENTS



INSTALLATION HARDWARE



REPLACEMENT PARTS



Features:

- Low level O₃ production: 0.04 ppm maximum.
- Replaceable RCI™ Cell

Electrical:

- 110 VAC 60 hz AC line operation.
- 50-90 watts power consumption.

Mechanical:

- Distribution via air handler.

Size:

- Dimensions: 6" x 6" x 11.25"
(15 cm x 15 cm x 28.5 cm)
- Weight: 3 pounds (1.2 kg)

Coverage:

- Covers up to 3000ft² (279 m²).

Warranty:

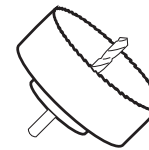
- Length of warranty will vary depending on model.
See warranty card for specific details.

ABOUT DUCTWORX™

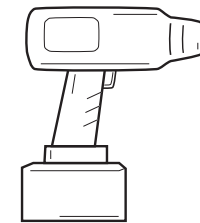
Fresh Air DuctwoRx™ is a new generation HVAC Air System designed to work with Fresh Air by EcoQuest and Breeze^{AT} to reduce odors, smoke, and a broad spectrum of indoor air contaminants.

Fresh Air DuctwoRx™ is easily mounted into air conditioning and heating system air ducts where many problems can start. When the HVAC system is in operation, DuctwoRx™ creates an Advanced Oxidation Process consisting of hydro-peroxides, super-oxide ions, and safe low levels ozone - all friendly oxidizers that revert back to oxygen and hydrogen after the oxidation of a pollutant.

Used in conjunction with other EcoQuest air purification systems, Fresh Air DuctwoRx™ can boost effectiveness and help distribute their benefits throughout your home.

RECOMMENDED INSTALLATION TOOLS

3 1/2" Hole Saw
for wood or metal
(recommended)



Drill/Power Driver



Phillips Screwdriver



3/8" Drill Bit
(if installing into fiberglass
ducting with toggle bolts)



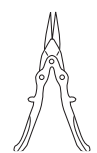
11/32 Open-End Wrench



1/4" Nut Driver Bit

You may also need:

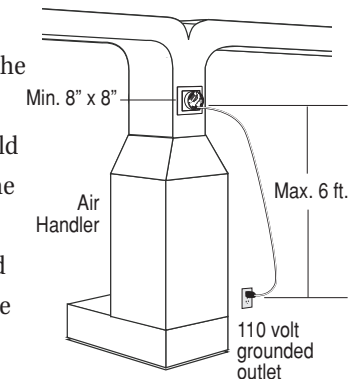
Utility Knife



Tin Snips
(for metal ductwork)

INSTALLATION REQUIREMENTS**Installation Requirements**

1. Unit should be installed after the air handler in the HVAC system.
2. The duct work around the installation area should be clean and dry to insure proper adhesion of the gasket materials and any tape used.
3. An approximate 3.5" (8.89 cm) opening will need to be cut into the existing duct work to install the unit properly.

**Electrical Requirements**

- To use the 110 volt plug, be sure to locate the unit within 6 ft. of a standard 110 volt grounded outlet. Long term use of an extension cord is not recommended due to safety considerations.
- Permanent wiring of the unit into your HVAC system should be done by a licensed HVAC installer or electrical contractor only.

For 110 volt units: Black = L1, White = Neutral, Green = Ground



WARNING! - UV Light in operation. Disconnect unit from power supply before servicing. Failure to follow warnings may result in severe eye damage.

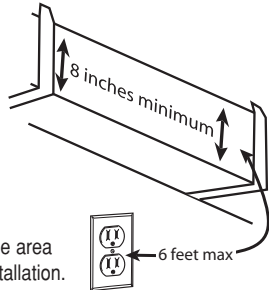
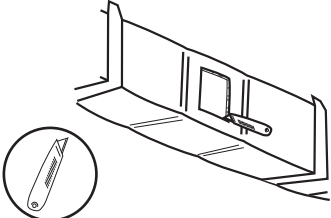
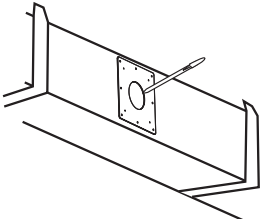
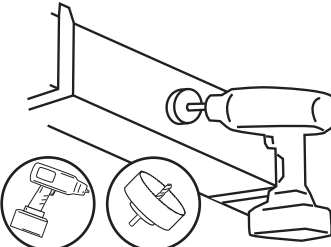


To reduce the risk of electric shock, this equipment has a grounding type plug that has a third (grounding) pin. This plug will only fit into a grounding type power outlet. If the plug does not fit into the outlet, contact qualified personnel to install the proper outlet. Do not alter the plug in any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

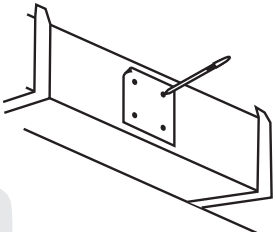
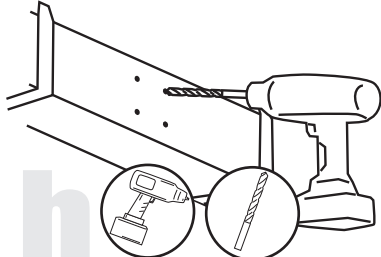
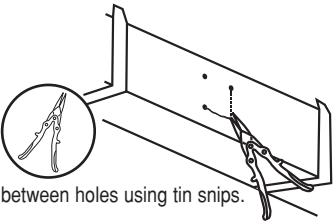


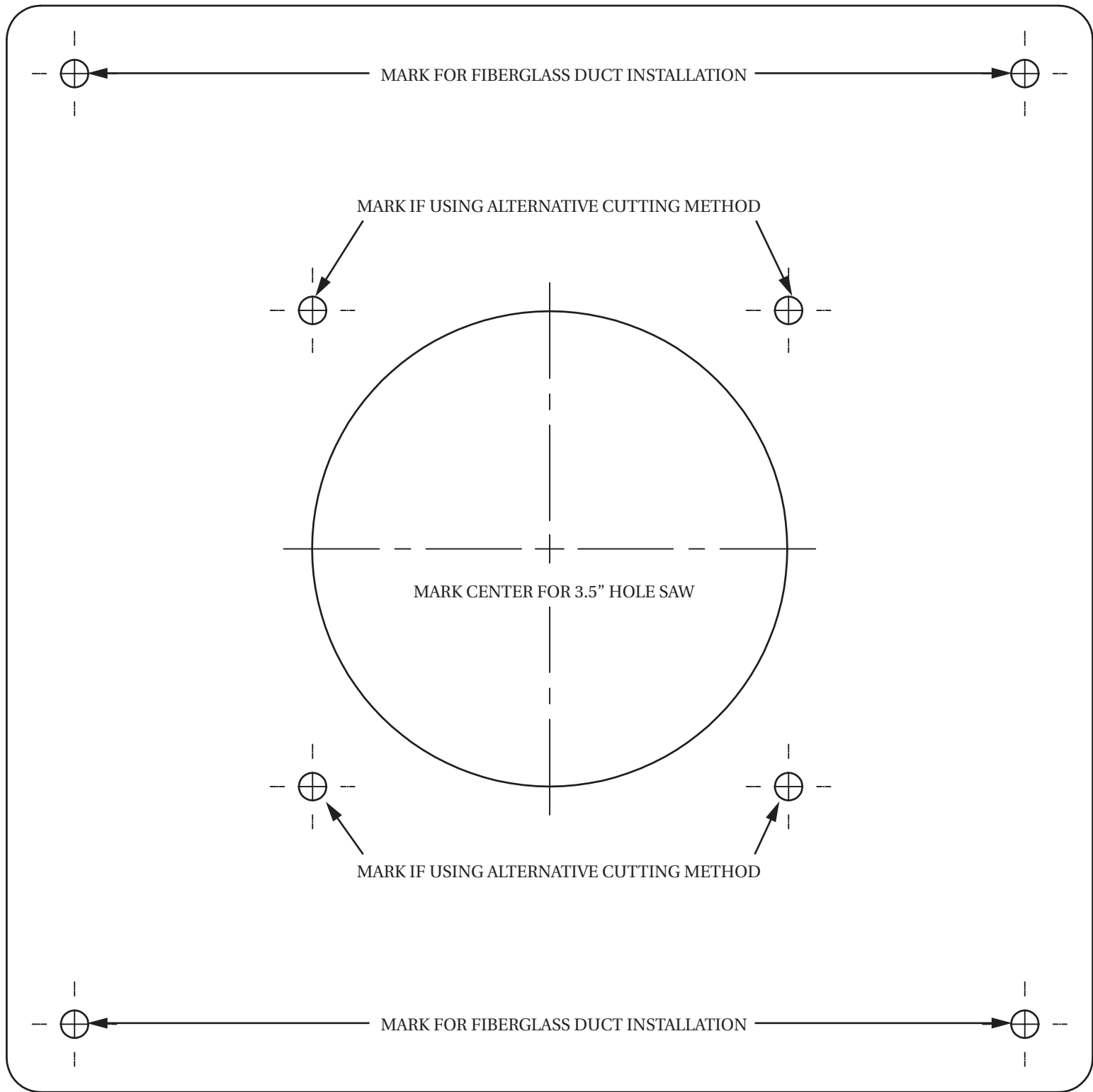
Location for Protective Earth Line.

METAL DUCTWORK INSTALLATION

1. Locate suitable area of duct for installation.

2. Cut away insulation to expose metal duct (if needed).

3. Mark location for 3.5" opening using either the mounting plate or included template.

4. Cut hole in duct using 3.5" hole saw.


ALTERNATIVE CUTTING METHOD

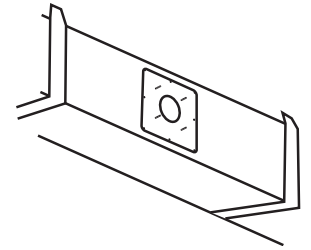
- a. Using template, mark 4 holes on duct.

- b. Drill 4 holes where marked.

- c. Cut between holes using tin snips.




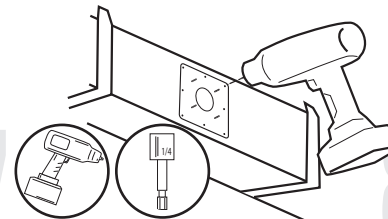
METAL DUCTWORK INSTALLATION (CONTINUED)



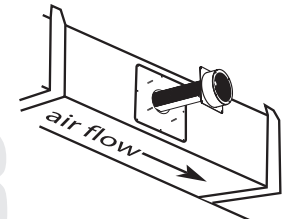
5. Remove backing from mounting plate adhesive gasket.



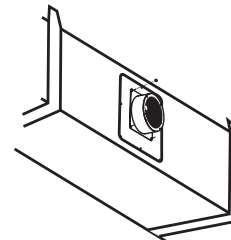
6. Center openings and press mounting plate onto duct. The adhesive gasket will hold the mounting plate in place.



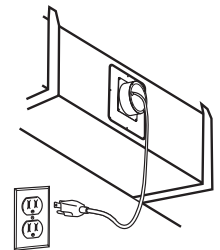
7. Secure the mounting plate using (8) #8 self-tapping screws.



8. Insert unit into opening. Be sure the air will pass through the RCI cell honeycomb matrix.

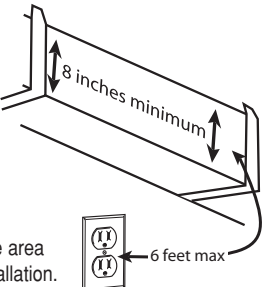
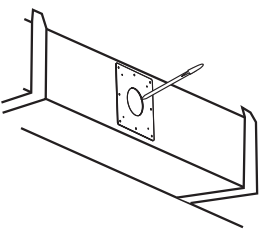
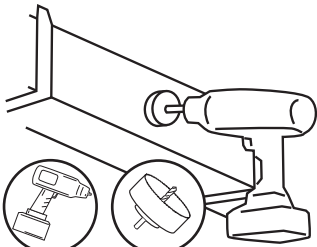
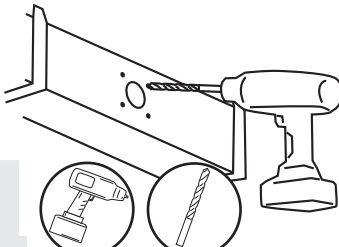


9. Secure the unit to the mounting plate with (4) #8-32 nuts.

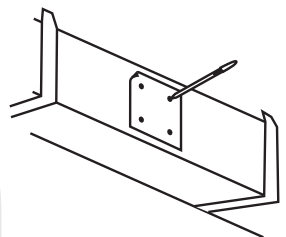
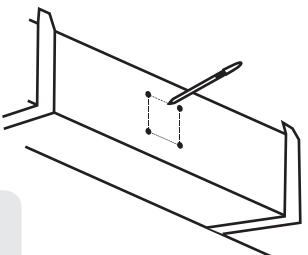



10. Plug unit into working power receptacle. Hard wiring unit into HVAC system should be done by a licensed HVAC installer or electrical contractor only.

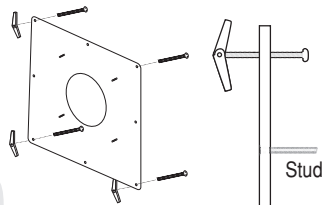
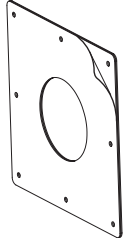
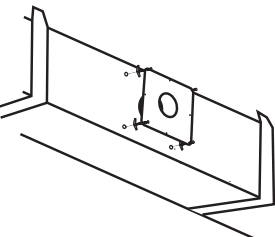
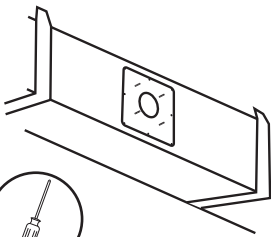
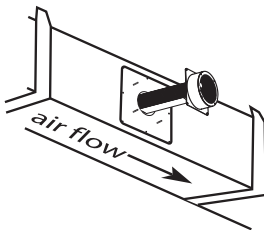
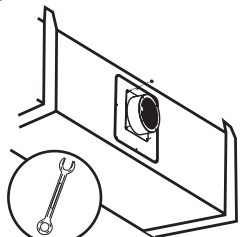
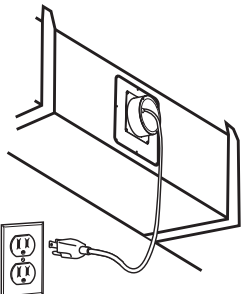
FIBERGLASS DUCTWORK INSTALLATION

1. Locate suitable area of duct for installation. 
2. Mark location for 3.5" opening using either the mounting plate or included template. Also mark the locations of 4 screw holes in corners (see template). 
3. Cut hole in duct using 3.5" hole saw. 
4. Drill 4 holes (at corner screw locations) using a 3/8" drill bit. 

ALTERNATIVE CUTTING METHOD

- a. Using template, mark 4 holes on duct. 
- b. Draw a line between each corner mark. 
- c. Cut between holes using a utility knife. Continue with #4 (above) 

FIBERGLASS DUCTWORK INSTALLATION (CONTINUED)

5. Insert (4) 2" Threaded bolts into screw holes at corners of mounting plate. Attach (4) toggle bolt anchors to ends of threaded bolts. 
6. Remove backing from mounting plate adhesive gasket. 
7. Insert (4) toggle bolts into 3/8" holes in duct. Be sure toggle anchors open after inserting. 
8. Center large opening in mounting plate over 3.5" opening in duct and press plate to duct. The adhesive gasket will hold the mounting plate into place. Tighten toggle bolts - DO NOT OVERTIGHTEN. 
9. Insert unit into opening. Be sure the air will pass through the RCI cell honeycomb matrix. 
10. Secure the unit to the mounting plate with (4) #8-32 nuts. 
11. Plug unit into working power receptacle. Hard wiring unit into HVAC system should be done by a licensed HVAC installer or electrical contractor only. 

MAINTENANCE/UV LAMP INDICATOR

Your DuctwoRx™ unit requires no periodic maintenance beyond normal replacement of the RCI cell every 3 years.

Note: For optimal performance, EcoQuest recommends the replacement of the RCI cell every 3 years, even if the UV lamp appears to be operating normally.

The UV lamp operation indicator on the face of the unit will glow when the UV lamp is in use. If the indicator does not glow and the unit has power, the RCI cell should be replaced.

UV lamp operation indicator



DISPOSAL OF THE RCI™ CELL

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

EcoQuest International
RCI Disposal
55 Marley Drive
Greeneville, TN 37743



Did you forget to register your Fresh Air DuctwoRx™?

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 DuctwoRx™, please see your local EcoQuest Dealer.

For help, visit www.EcoQuest.com.

CHANGING THE RCI™ CELL



WARNING! - UV Light in operation. Disconnect unit from power supply before servicing. Failure to follow warnings may result in severe eye damage.

1. Unplug unit. If the unit is hard wired, be sure the power to the unit is off.
2. Remove the 4 mounting nuts.
3. Remove the unit from the mounting plate.
4. Remove the 2 screws holding the RCI Cell.
5. Separate the used RCI cell from the base unit and dispose of properly.
6. Plug the new RCI cell into the base unit.
7. Secure with 2 screws.
8. Insert the unit into the mounting plate.
9. Secure unit with 4 nuts.
10. Reconnect power supply.