



# WHOLE HOUSE COMFORT VENTILATOR

MODELEC 1450

## PRODUCT MANUAL & INSTALLATION GUIDE

### WHAT THE WHOLE HOUSE COMFORT VENTILATOR DOES

The WHCV is used to assist the natural cooling process in the house. When the outside temperature drops below the inside temperature, the cooler outside air can be used to cool the house. The WHCV will pull the cooler air from the outside, through the house, up into the attic and push the hot air outside. The WHCV is a fan product and will not cool the house below the outside air temperature or create a noticeable breeze. The WHCV can be used any time, for as long as needed, to cool or change the air in the house.

### WHAT IS THE BEST LOCATION FOR WHCV

The WHCV should be located as central as possible to the area that you want to

cool. Above a central hallway or at the top of a stairwell provide the best airflow. The fan can also be mounted vertically, exhausting through a knee wall into an under-the-attic space. Cooler outside air should be able to move through the window, the space that needs to be cooled, and exhaust out through the fan into the attic.

### WARNING

Do Not use over cooking appliances.

### READ ALL INSTRUCTIONS BEFORE INSTALLING

- Some state and local electrical code require fan products to be installed by a licensed electrician. Check with your local code officials before installation.
- Make sure that you have adequate net free exhaust area out of your attic. A minimum of 2 1/2 square feet for the WHCV. This is accomplished with a

combination of roof, ridge, soffit and gable end vents, or other attic exhaust points.

- Make sure that there aren't any pipes, wires, rafters, or air conditioning or heating ducts running through the space where the WHCV will be installed and will face an unoccupied area.

### UNPACKING THE WHCV

When you have unpacked your WHCV carefully you will find the following:

- One (1) Whole House Comfort Ventilator
- One (1) Metal electrical box cover with (2) screws.
- One (1) White Metal grille w/(6) screws

Please note the serial number, date of purchase, and the point of purchase below for handy reference. The serial number is located on a label affixed to the WHCV next to the junction/utility box.

Serial Number \_\_\_\_\_ Date of Purchase \_\_\_\_\_ Point of Purchase \_\_\_\_\_

**LIMITED WARRANTY** IF, WITHIN THE PERIOD OF 90 DAYS FROM DATE OF PURCHASE THE WHCV (THE PRODUCT) IS DEFECTIVE OR MALFUNCTIONS IN NORMAL HOME USE, EVERGREEN WILL REPAIR OR REPLACE THE WHCV AT ITS DISCRETION WITHOUT CHARGE FOR LABOR OR MATERIALS. CUSTOMER IS RESPONSIBLE FOR SHIPPING CHARGES. NOTE: SOME STATE CODES REQUIRE FANS TO BE HARD WIRED. HARDWIRING THE WHCV WILL NOT VOID WARRANTY PROVIDING THE WIRING IS PERFORMED BY A LICENSED ELECTRICIAN.

**CONDITIONS, EXCLUSIONS, AND LIMITATIONS** -THIS WARRANTY IS SUBJECT TO THE FOLLOWING CONDITIONS, EXCLUSIONS AND LIMITATIONS. THIS WARRANTY DOES NOT COVER PROBLEMS RESULTING FROM INSTALLATION, OPERATION OR MAINTENANCE THAT HAS BEEN UNDERTAKEN OTHER THAN IN ACCORDANCE WITH THE INSTRUCTIONS. THIS WARRANTY DOES NOT COVER PROBLEMS RESULTING FROM DEFECTS IN OR CAUSED BY ASSOCIATED EQUIPMENT (FURNACES, SOLARIA, ETC.) ; FROM REPAIRS OR MODIFICATIONS ATTEMPTED BY PERSONS OTHER THAN EVERGREEN.; FROM ABUSE, ACCIDENTAL OR SHIPPING DAMAGE, ACTS OF GOD. THIS WARRANTY DOES NOT APPLY TO THE PRODUCT USED OUTSIDE THE UNITED STATES, ITS TERRITORIAL POSSESSIONS AND CANADA. EXCEPT AS SET FORTH ABOVE, NO EXPRESS OR IMPLIED WARRANTY IS GIVEN OR AUTHORIZED BY EVERGREEN. AND ALL OTHER SUCH WARRANTIES ARE EXPRESSLY DISCLAIMED. ANY WARRANTY OR MERCHANTABILITY OF FITNESS FOR ANY PARTICULAR PURPOSE SHALL BE LIMITED TO THE WARRANTY HEREUNDER. MOREOVER, ANY LIABILITY OF EVERGREEN FOR THE PRODUCT SHALL BE LIMITED TO THE REPLACEMENT OF THE PRODUCT. IN NO EVENT SHALL EVERGREEN BE LIABLE FOR ANY INCIDENTAL DAMAGES OR FOR ANY CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGES, IRRESPECTIVE OF THE CAUSE THEREOF, OCCURRING EITHER DURING OR AFTER THE WARRANTY PERIOD. INCLUDING WITHOUT LIMITATION ANY DAMAGE TO ANY PART OF A BUILDING OR ITS CONTENTS. NOTE: SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES AND SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

## INSTALLATION: (tools and supplies needed)

You will need two pieces of 2x stock to match your existing framing, a saw to cut the hole in the ceiling, a hammer or screw gun to attach the blocking to the existing joists and both a flat head and a Phillips head screw driver to attach the grille and for the electrical work.

1. Cut a hole in the ceiling under where the WHCV will be installed. Suggested methods for making the proper sized hole in the ceiling are; cut a pilot hole under where the fan will be installed. Cut toward the edge to find the joist pattern and layout the fan opening on the ceiling; OR the four corners of the opening from the attic side and draw a line between each of the four corners to layout the fan opening; OR use a stud finder to locate the joists, cut a template from the fan packaging material and use the template to layout the fan opening. The dimensions of the hole should be no greater than 23-1/2" x14-1/2". This will allow for the grille to cover the exposed sheetrock edges.

2. The fan housing will fit either 16" or 24" on-center framing. Cut two pieces of 2x stock (2x6 or 2x8 etc.) of the same dimension as the existing joists. Add these pieces of framing to form a box between the joists.

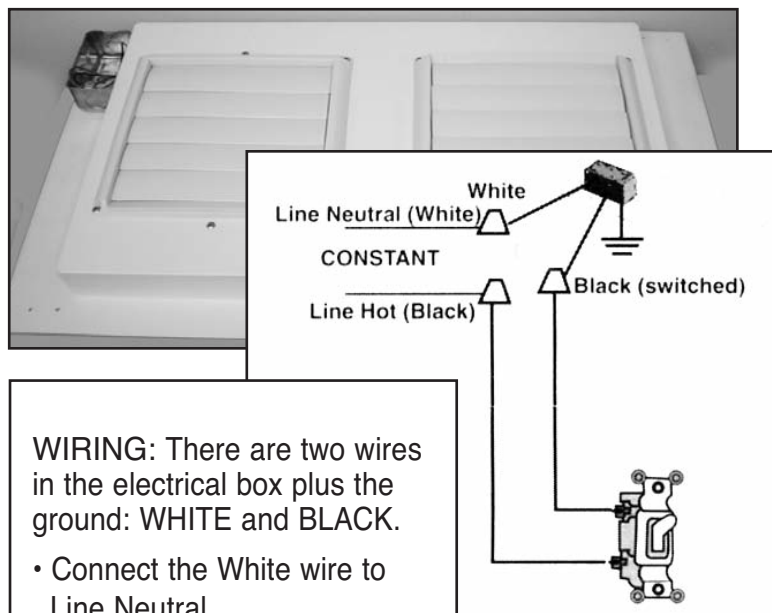
3. Install foam weatherstrip material (not supplied) on the top of the joists and added framing. Caulk the joint between the ceiling and the 2x stock. Some types of ceilings are spaced away from the joists. Any gap between the 2x's and the ceiling should be sealed prior to final installation. Use a low expansion spray foam sealant (not supplied).

4. Set the WHCV on the gasket with the louvers facing into the attic. The lower housing will fit into the box with the mounting flanges over lapping the joists.

5. If desired, secure the WHCV to the top of the joists using wood screws (not provided). When fastening the mounting flange to the joists, care should be taken that all screws are tightened evenly.

6. Wire the WHCV as shown in the wiring diagram. It is recommended wiring of the WHCV be done by licensed electrician.

7. Install grille (6 screws included) on the ceiling below the fan.



**WIRING:** There are two wires in the electrical box plus the ground: WHITE and BLACK.

- Connect the White wire to Line Neutral
- Connect the BLACK wire to a Switched Hot Feed or the output leg of your variable speed control.
- Connect the ground wire to the screw in the electrical box

The WHCV can be used with most light dimmers and speed controls.

## SPECIFICATIONS:

Voltage . . .115VAC 60Hz  
Power . . . . .276 Watts  
Airflow @ Full . . . . .  
speed . . . . .1450 CFM  
Weight . . . . .21 Lbs.  
Rough Opening  
. . . . .14 1/2" x 22 1/2"  
Grille Outside Dimensions  
. . . . .15 3/4" x 25 3/4"  
Grille Color . . . . .White

**CARE:** All the motors are permanently sealed and do not require oiling. To keep dirt, dust and debris from fan, we recommend you periodically remove the grille from within the living space and dust the fan blades. Please remember to make sure that the fan is OFF before dusting the fan blades.

**TROUBLE SHOOTING:** The most common problem with the WHCV is caused by incorrect wiring. Before you check anything else make sure WHITE wire in WHCV is connected to 115 VAC line neutral: BLACK wire is connected to a switch that will make it hot when the switch is closed.

SWITCH	FANS	CAUSE	TRY
On	Do not run	No power	Check connections and circuit breakers
On	One fan runs.	Something blocking fan rotation	Turn the power off and check for foreign matter blocking blade rotation. Call for service.

