Homeowner **Benefits:**
- Moisture Magnet Core™ moderates humidity in summer/winter extremes
- Helps control mold and mildew
- Elimination of bathroom, pet and tobacco odors
- Affordable / Convenient
- The most efficient way to ventilate

The importance of Fresh Air in the home is well known. But, did you also know how simply and affordably Fresh Air can be provided through Energy Recovery Ventilation (ERV) from RenewAire?

**Contractor Benefits:**
- Models compatible to any HVAC equipment
- Simple installation
- Easy-to-access field support
- Elimination of callbacks
- “Green Building” compliant

**RenewAire reduces indoor air pollution economically.**

RenewAire ventilators come in a range of capacities for any size home. Each RenewAire unit features:
- Year ‘round fresh air flow
- Certified energy efficiency
- Simple, automatic control
- One-step, inexpensive maintenance
- Low cost

[www.renewaire.com](http://www.renewaire.com)
**RenewAire ERV units mount in any orientation.**

Which means less labor and a clean-looking installation.

May be installed in unconditioned locations like attics, crawl spaces and garages.

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**Leaders in the Industry.**

For over 20 years, RenewAire has been a pioneer in the use of heat and humidity transferring plate exchangers for ventilation air in extreme climates. From cold to hot and in between, RenewAire provides a simple, effective solution. Our company and our product line directives of energy efficiency and a safe indoor air environment were founded well before fuel costs and the “green” movement were national concerns. And, by the time the others catch up to where we are today, we’ll be the next step ahead.

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**Choose the ERV Unit that’s best for your site.**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>EV130</th>
<th>EV200</th>
<th>EV300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airflow: 0.2” wg</td>
<td>131 CFM</td>
<td>192 CFM</td>
<td>———</td>
</tr>
<tr>
<td>Airflow: 0.4” wg</td>
<td>118 CFM</td>
<td>178 CFM</td>
<td>302 CFM</td>
</tr>
<tr>
<td>Airflow: 0.6” wg</td>
<td>97 CFM</td>
<td>165 CFM</td>
<td>266 CFM</td>
</tr>
<tr>
<td>Apparent Sensible Effectiveness (32°F)</td>
<td>80% @ 120 CFM</td>
<td>84% @ 120 CFM</td>
<td>73% @ 251CFM</td>
</tr>
<tr>
<td>Sensible Recovery Efficiency (32°F)</td>
<td>72% @ 120 CFM</td>
<td>77% @ 120 CFM</td>
<td>64% @ 251CFM</td>
</tr>
<tr>
<td>Latent Recovery (32°F)</td>
<td>44% @ 120 CFM</td>
<td>63% @ 120 CFM</td>
<td>40% @ 251 CFM</td>
</tr>
<tr>
<td>Total Recovery Efficiency (32°F)</td>
<td>51% @ 63 CFM</td>
<td>59% @ 63 CFM</td>
<td>31% @ 252 CFM</td>
</tr>
<tr>
<td>Watts</td>
<td>124 @ 120 CFM</td>
<td>151 @ 192 CFM</td>
<td>310 @ 251 CFM</td>
</tr>
<tr>
<td>Duct Connections</td>
<td>6” &amp; 8” double collar</td>
<td>6” &amp; 8” double collar</td>
<td>8” round compatible</td>
</tr>
</tbody>
</table>

All units are 120VAC / 60 Hz. / Single Phase and are controlled by opening and closing a switch across 24VAC terminals.
Percent Timer Control
For use with EV130/EV200/EV300

Operation
The Percent Timer Control (PT) automatically turns on your EV130, EV200 or EV300 energy recovery ventilator every hour, ensuring proper ventilation for your home around-the-clock. When the “Runtime %” light is on, the control is telling your energy recovery ventilator to operate. Set the control and your ventilator will run once every hour. How long it runs depends on the runtime percentage setting.

FOR CONSTANT OPERATION: Press the logo until the 100% light is on. The “Runtime %” light turns on. The ERV unit will run continuously.

FOR REGULAR OPERATION: Set the control at the percentage that is right for your home. Press the logo until the light for the percent desired is on. See the "Percent Run Time Table" for guidance. You may wish to adjust this percentage to your specific needs. For example, if you have excess humidity in the winter, increase the ventilation percentage. You may also want to decrease the ventilation percentage when the home will be unoccupied for many days, or increase the ventilation percentage during a party.

FOR NO REGULAR OPERATION: Press the logo until all lights are off. The control is off.

NOTE for ERV systems with more than one control: Another control may be causing your ventilator to run—even if the light on this control is off. If you wish to keep your ventilator from running, check that none of your controls are calling for unit operation.

Installation
1. Install control in a standard 2” x 4” electrical box, with a minimum depth of 1.5”, with the two screws provided.
2. Wire Size: 18-22 gauge, no more than 500 feet. Wiring is non-polar.
3. The two wires from the ERV should be attached to the ‘C’ and ‘R’ positions on the terminal block on the back of the PT Control.
4. Use Lutron Decora™ cover plate to complete installation.

Percentage Run Time Table (to achieve 0.35 air changes per hour)
As recommended by the American Society of Heating, Refrigeration, and Air Conditioning Engineers

<table>
<thead>
<tr>
<th>House Living Area (square feet)</th>
<th>House Volume* (cubic feet)</th>
<th>% Setting with EV130@128 cfm</th>
<th>% Setting with EV200@198 cfm</th>
<th>% Setting with EV300@300 cfm</th>
</tr>
</thead>
<tbody>
<tr>
<td>750</td>
<td>6000</td>
<td>27%</td>
<td>18%</td>
<td>12%</td>
</tr>
<tr>
<td>1250</td>
<td>10000</td>
<td>46%</td>
<td>29%</td>
<td>20%</td>
</tr>
<tr>
<td>1750</td>
<td>14000</td>
<td>64%</td>
<td>41%</td>
<td>28%</td>
</tr>
<tr>
<td>2250</td>
<td>18000</td>
<td>82%</td>
<td>53%</td>
<td>35%</td>
</tr>
<tr>
<td>2750</td>
<td>22000</td>
<td>100%</td>
<td>65%</td>
<td>43%</td>
</tr>
<tr>
<td>3250</td>
<td>26000</td>
<td>77%</td>
<td>77%</td>
<td>51%</td>
</tr>
<tr>
<td>3750</td>
<td>30000</td>
<td>88%</td>
<td>88%</td>
<td>59%</td>
</tr>
<tr>
<td>4250</td>
<td>34000</td>
<td>100%</td>
<td>100%</td>
<td>67%</td>
</tr>
<tr>
<td>5125</td>
<td>41000</td>
<td></td>
<td></td>
<td>80%</td>
</tr>
<tr>
<td>5750</td>
<td>46000</td>
<td></td>
<td></td>
<td>90%</td>
</tr>
<tr>
<td>6500</td>
<td>52000</td>
<td></td>
<td></td>
<td>100%</td>
</tr>
</tbody>
</table>

*Based on 8’ ceiling height. If ceiling is other than 8’, recalculate house volume based on your ceiling height. Other standards and local codes should be considered when determining the required ventilation rate.

Wiring Diagram

PT Percent Timer

Remove Jumper across Low-voltage terminals (factory installed).

Use (1) PT and up to (6) PT controls, wired in parallel.

To install one or more additional low-voltage controls other than PT or PB, install a 10k ohm resistor between one terminal on the ventilator and one of the wires to the other controls as shown. Wire the other controls in parallel with each other.
Simple Answers to Smart Questions.

WHAT IS THE RENEWAIRE ENERGY RECOVERY VENTILATOR? AND WHAT DOES IT DO?

RenewAire Energy Recovery Ventilation (ERV) is the technology which completes your customer’s HVAC system.

Our units:

- Exhaust pollutants and excess moisture to the outside of the home;
- Efficiently recover heat from the exhaust stream during cold weather;
- Pre-cool and pre-dehumidify incoming air during hot, muggy weather;
- Are quiet and compact;
- May be installed in a basement, mechanical closet or attic.

HOW DOES THE UNIT WORK?

The key to RenewAire’s extraordinary performance is our renowned static-plate core. Exhaust and outside air streams cross paths in the core, transferring both heat and moisture in the process.

Because moisture is transferred in a gaseous state, no liquid water accumulates, which means that no drain or condensate pan is required! No condensation also means that no defrost mechanism is needed for cold weather operation in most homes.

Decades of extensive use have proven the reliability of our technology. Our 10-year core warranty confirms it.

WHAT ARE THE BENEFITS TO THE HOMEOWNER?

Now more than ever, the need for whole-house ventilation is becoming clear to the homeowner. The benefits of choosing RenewAire are also clear:

- Moisture control
- Protection from mold & mildew
- Elimination of odors from bathrooms, pets and tobacco smoke
- Removal of harmful indoor pollutants
- Convenience
- Affordability
the smart alternative to rotating wheels

The Static-Plate Core is the Key!
Since the early 1980’s RenewAire has pioneered the use of the patented Lossnay® exchange core throughout the Americas. Listed below are some of the many reasons why this technology has become the ERV system preferred by leading HVAC professionals around the world.

Positive Air Stream Separation
In the RenewAire core, fresh air never comes in contact with exhaust air passages. Hydroscopic resin plates separate the two air streams so effectively that ARI certifies zero exhaust air transfer at normal, balanced operating conditions. As a result, RenewAire is perfect for controlled exhaust applications such as toilet areas, as well as for food service and healthcare occupancies.

No Condensate or Active Defrost
Direct water vapor transfer, driven by vapor pressure, eliminates condensation — and frosting — in virtually all applications and climate zones. No condensation allows for closer plate spacing, resulting in higher efficiencies and easier installations. It also means no need for the dampers or electrical defrost elements that reduce ventilation and rob energy efficiency in competing technologies.

Maintenance — Nothing Could Be Easier
The scheduled maintenance for RenewAire is so simple, it can be performed by any janitorial staff. No expensive service contracts are necessary because there is no wheel disassembly and washing, no seal or belt adjustments and no complex controls to calibrate. The result is the lowest maintenance cost of any ERV.

The Unbeatable RenewAire Warranty
An investment in RenewAire is protected by a 10-year core warranty (2 years on the balance of the unit). This commitment—twice as long as coverage on the best wheel products—speaks volumes about RenewAire’s reliability, durability and consistent high performance.

Award-Winning Service and Support
RenewAire’s team of professionals knows ERV. And our nationwide network of Sales Reps and quality Distributors are ready to serve you locally. When you call our support number, you’ll talk to a knowledgeable factory expert — someone who knows not only our product line, but the best ways to integrate RenewAire with your preferred lines of heating and air conditioning equipment.