



Fresh Ideas in Fresh Air Ventilation



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?

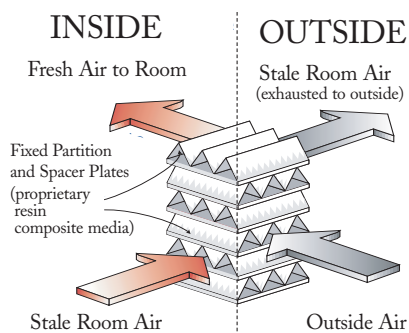
Contractor *Benefits:*

- 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.

The Core is Key:

- Efficient transfer of heat and moisture
- No liquid is accumulated, so no drain pan or defrost mechanism is required!



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

*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.*



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.

Take Control

Our simple, attractive controls allow you to dictate your levels of fresh air ventilation. A single touch of the button allows 10% runtime additions. The matching point-of-use control allows for 20/40/60 minute manual operation.

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

MODEL	EV130	EV200	EV300
Airflow: 0.2” wg	131 CFM	192 CFM	—
Airflow: 0.4” wg	118 CFM	178 CFM	302 CFM
Airflow: 0.6” wg	97 CFM	165 CFM	266 CFM
Apparent Sensible Effectiveness (32°F)	80% @ 120 CFM	84% @ 120 CFM	73% @ 251CFM
Sensible Recovery Efficiency (32°F)	72% @ 120 CFM	77% @ 120 CFM	64% @ 251CFM
Latent Recovery (32°F)	44% @ 120 CFM	63% @ 120 CFM	40% @ 251 CFM
Total Recovery Efficiency (32°F)	51% @ 63 CFM	59% @ 63 CFM	31% @ 252 CFM
Watts	124 @ 120 CFM	151 @ 192 CFM	310 @ 251 CFM
Dimensions H x W x D (in.)	20-1/8 x 28-3/4 x 13	20-1/8 x 28-3/4 x 23-7/8	20-1/8 x 28-3/4 x 23-7/8
Duct Connections	6” & 8” double collar	6” & 8” double collar	8” round compatible
All units are 120VAC / 60 Hz. / Single Phase and are controlled by opening and closing a switch across 24VAC terminals			



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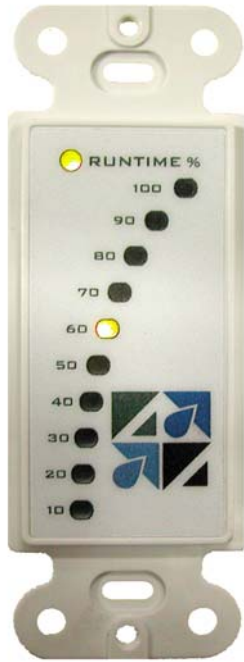
4510 Helgesen Drive

Madison, Wisconsin 53718



Percent Timer Control

For use with EV130/EV200/EV300



FRONT



BACK

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.

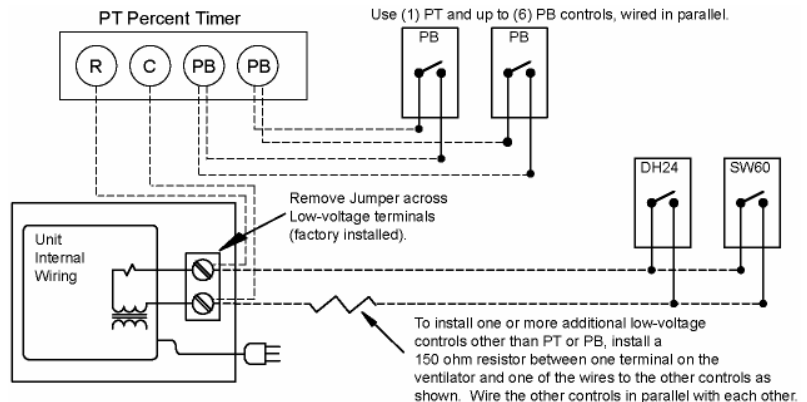
Percentage Run Time Table (to achieve 0.35 air changes per hour)

As recommended by the American Society of Heating, Refrigeration, and Air Conditioning Engineers

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

*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



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.

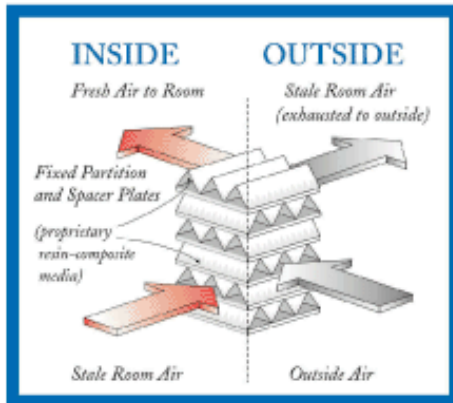
WHAT ARE THE BENEFITS TO THE HOMEOWNER?

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 health care 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.

- No wonder RenewAire means Trouble-Free ERV.*
- No rotating wheel*
 - No condensation pan*
 - No defrost dampers*
 - No purge air losses*
 - No exhaust air transfer**
 - No labyrinth seals*
 - No complex maintenance*

*At balanced pressure. See website for complete certification report.
** Registered trademark of Mitsubishi Electric Corporation.

RenewAire's remarkable performance is independently certified by:





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Trouble-Free **ERV**