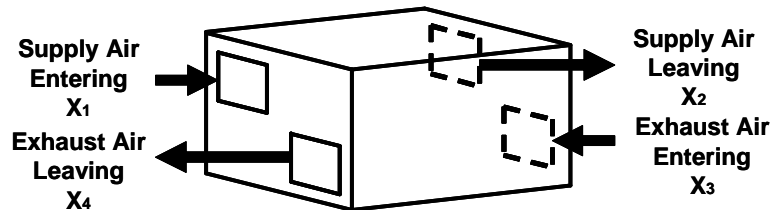




Commercial Rebates

ENERGY RECOVERY VENTILATORS (ERV's)

Diagram and Definitions



EATR (Exhaust Air Transfer Ratio)

The exhaust air transfer ratio shall be the tracer gas concentration in the leaving supply air (defined in ASHRAE Standard 84 as Station 2) divided by the tracer gas concentration in the entering exhaust (return) air (defined in ASHRAE Standard as Station 3) at the rated airflows, expressed as percentage.

OACF (Outside Air Correction Factor)

The entering supply (outdoor) airflow (defined in ASHRAE Standard 84 as Station 1) divided by the measured (gross) leaving supply airflow (defined in ASHRAE Standard 84 as Station 2).



Commercial Rebates

ENERGY RECOVERY VENTILATORS (ERV's)

QUALIFICATIONS/GUIDELINES

1. Qualifying businesses must operate a minimum of four (4) consecutive hours daily between 2 p.m. and 8 p.m. weekdays, May 1 through October 31.
2. The pre-inspection is waived on all ERV installations.
3. All installations require permits as mandated by the City of Austin's Development, Review and Inspection Department (974-6406). All work must be performed in accordance with all applicable national, state, local, and manufacturers' codes and standards.
4. The rebate application must be submitted **no later than 30 days from installation date**. It must be accompanied with the **manufacturer's rating information**, based upon ARI Standards ERV category, and specified operating conditions at the specific site. An equipment warranty statement is also required.
5. New equipment must carry a minimum one-year warranty.
6. After receiving and reviewing the application, an Austin Energy Representative will schedule an inspection to verify the installation and determine the final rebate amount.
7. Qualified small business and non profit customers may be eligible for a 20% bonus on the rebate.
8. A separate rebate application will need to be submitted for each unique ERV unit. Multiple ERV units with the same model number and performance specification can be included on a single application accompanied with an itemized sheet showing the individual unit serial numbers.
9. The rebate payment for each energy project cannot exceed 50% of the total job cost, which includes equipment, installation, and tax less any salvage value.
10. Your rebate check will arrive 4 to 6 weeks from the date the installation passes the final inspection.

SPECIFIC QUALIFICATIONS

1. Back-up or redundant systems are not eligible for rebates.
2. **ERVs that are required by the IECC 2006 Energy Code are not eligible for rebates (per table 503.2.6).**

The Austin Energy guidelines and rebate levels are subject to change at any time, without notice.

Austin Energy – Power SaverTM Program – Commercial Rebate

811 Barton Springs Road, 3rd Floor. Austin, TX 78704. Phone (512) 482-5346. FAX (512) 482-5455
email: conservation@austinenergy.com website: www.austinenergy.com



Power Saver Program Saving Energy Together

Energy Recovery Ventilators (ERV) – Rebate Application

If you have any questions about this rebate application or any other services provided by our Commercial Rebate, please call 482-5346, email us at conservation@austinenergy.com or visit our website at: www.austinenergy.com

CUSTOMER INFORMATION

| | | | |
|--|-----------|---|----------|
| Electric Account Number of Installation Address: | | Office Use Only: Please fill out any information that may apply. | |
| Installation Address (Street, etc.): | Zip Code: | File # | SBQ: |
| Customer/Business Name: | | Day Phone # | |
| | | Alternative Phone # | |
| Contact: | | E-mail address: | |
| Facility Name: | | Installation Date: | |
| Mailing Address (if different from above): | | Permit # If Applies: | |
| City: | State: | Zip Code: | Tax ID # |

VENDOR / INSTALLER INFORMATION

| | | | |
|--------------------------|--|--------------|--------|
| Vendor's Name: | | Day Phone # | |
| Vendor's Representative: | | Alt. Phone # | |
| Vendor's Address: | | City: | State: |
| | | Zip Code: | |

Energy Recovery Ventilators (ERV) – Rebate Application

The following principles are applied to all Energy Recovery Ventilator (ERV) Projects when used with HVAC equipment. The rebate is calculated at \$250 per Direct kW.

Section 1: Summer Design Conditions

X1 Supply Air Entering ERV: Temp: Dry Bulb = **98°** Wet Bulb = **78°** (or justify otherwise)
 X2 Supply Air Leaving ERV: Temp: Dry Bulb = _____ wet Bulb = _____
 X3 Exhaust Air Entering ERV: Temp: Dry Bulb = 76° Wet Bulb = 65° (or justify otherwise)
 X4 Exhaust Air Leaving ERV: Flow Rate (cfm): _____
 Exhaust Air Transfer Rate (%) _____

Outside Air Correction Factor:

Section 2: A/C Equipment after proposed ERV installation New ERV make/model: _____
 Exact complete chiller(s) make/model: _____ Exact ARI (ERV Program) Reference Number: _____
 Capacity of chiller(s) in tonnage: _____
 Square footage of space air conditioned: _____ Type of facility (purpose or usage) _____
 Operating hours of facility: _____ EER of chiller = _____
 Age of chiller = _____

Section 3: Psychrometric Results

Applicant must submit complete, detailed calculations showing resulting estimated kW saved, and all steps leading to that estimate.
 ERV information : Supply fan: cfm _____ hp _____ Exhaust fan: cfm _____ hp _____
 Wheel: hp _____

Section 4: Calculations

Δh = change in enthalpy at ERV = _____ Btu/lb dry air (wt. of dry air = 0.0743 lb/cf) Please show how Δh was calculated.
 X = equivalent ideal cooling (tons) by ERV = $(cfm \times 0.0743 \times \Delta h \times 60) / 12000$ X = equivalent ideal (tons) = _____
 Y = Sum of direct ancillary (parasitic) ERV loads = _____ kW
 Z = equivalent kW of "X" = $(X \times 12) / EER$ of chiller = _____ kW
 R = Rebate kW = "Z" - "Y" = _____ kW
 Rebate = \$250 x "R" = \$ _____

ADDITIONAL CUSTOMER AGREEMENT CLAUSE

As a qualified Austin Energy customer, I understand that the rebate I am applying for will under no circumstances exceed 50% of the installed cost of the work. I also agree to retain all qualifying equipment at the location in which it was originally installed, identified as the "installation address" on this application. The Customer is responsible for maintaining the operational efficiency of a qualifying measures for a period of no less than five (5) years from the date of this agreement. The Customer agrees to allow an Austin Energy Representative to inspect the referenced facility for compliance with this requirement for the duration of this agreement. In consideration of this rebate, customer assigns all rights to any and all environmental attributes and or credits, including any renewable energy credits, carbon offset credits, or similar environmental credits derived from the energy conservation associated with this rebate to Austin Energy for Austin Energy's use as it may choose.

Customer Signature: _____ Date: _____

AUSTIN ENERGY EMPLOYEE

Comments:

Date of Pre-Inspection: Qualified Non-Qualified

Date of Final Inspection: Pass Fail

A.E. Representative Signature: _____

A.E. Representative Signature: _____