NEW!

EV SERIES PREMIUM

SINGLE/MULTI-FAMILY, LIGHT COMMERCIAL

- 50–240 CFM
- Commercial-grade appliance, often used for multi-family units
- Features: EC motors (standard), boost mode capability, Dial-A-Flow controls, Plug-in power
- MERV 13 filter accessory

RenewAire
Energy Recovery Ventilation
### BALANCED VENTILATION & INDOOR AIR QUALITY

Inior bothers get hotter in colder weather and may seal in contaminants, creating definite indoor air quality (IAQ). Since people spend a significant amount of time indoors, and indoor air can be two to five times—and up to 100 times—more polluted than outdoor air, improving indoor air quality can significantly impact health and cognitive function.

### ASHRAE 62.2

The American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) 62.2 committee has established a ventilation standard for buildings three stories and less, known as the 62.2 Ventilation Standard. The goal of the standard and its continuous revisions are to not only emphasize indoor air quality and its relationship with occupant health, but also to ensure that the ventilation provided is adequate for the thermal comfort of its occupants. To calculate the minimum ventilation required for your home, see the chart below. For example, a 2,200 sq. ft. home with 4 bedrooms requires a minimum of 104 CFM (accounts for infiltration).

### ASHRAE 62.2 VENTILATION RANGES

<table>
<thead>
<tr>
<th>SQUARE FEET</th>
<th>1 BEDROOM</th>
<th>2 BEDROOMS</th>
<th>3 BEDROOMS</th>
<th>5 BEDROOMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>501'-1000'</td>
<td>50-75 CFM</td>
<td>75-100 CFM</td>
<td>100-150 CFM</td>
<td>150-200 CFM</td>
</tr>
<tr>
<td>1001'-1500'</td>
<td>100-150 CFM</td>
<td>150-200 CFM</td>
<td>200-250 CFM</td>
<td>250-300 CFM</td>
</tr>
<tr>
<td>1501'-2000'</td>
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</tr>
<tr>
<td>2001'-2500'</td>
<td>200-250 CFM</td>
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<td>350-400 CFM</td>
</tr>
<tr>
<td>2501'-3000'</td>
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</tr>
<tr>
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</tr>
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</tr>
<tr>
<td>4001'-4500'</td>
<td>400-450 CFM</td>
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<td>550-600 CFM</td>
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### RENEWABLE ENERGY TECHNOLOGY

RENAWABLE CORE TECHNOLOGY

**Certification:** Certified by the Air Conditioning, Heating and Refrigeration Institute (AHRI) for an industry-leading Low-to-Zero Exhaust Air Transfer Ratio (ETR) or a 5-year structural warranty. For more information, visit ase.ai.

**Reliability:** More than 10-string structural and performance warranty for the static-plate core, two-year warranty for commercial products and five-year warranty for residential products.

**Maintenance:** RenewAir cores are easy to clean without removing them from the ceiling, and they never require replacing.

**Innovative Construction:** Core exchanger material is cellulose-based and doesn’t contain or use halogenated flame retardants or PVCs. Our technology takes stale indoor air and replaces it with fresh, conditioned and filtered outdoor air.

### EV PREMIUM SERIES

**Commercial Grade** RenewAir® EV Premium Series ERVs offer everything provided by the DVS® Series, plus some extra benefits like single- and multi-family structures, as well as high-performance buildings. These ERVs incorporate high-efficiency EC-motor fans to meet strict California gas codes. The EV Premium Series ERVs also include a new Dial-A-Flow control that allows users to set airflow for maximizing comfort. In addition, these ERVs have inducer mode capabilities with MERV 13 filters as an accessory to further enhance IAQ.

**Innovative Construction:** Core exchanger material is cellulosic-based and doesn’t contain or use halogenated flame retardants or PVCs. ERVs are indoor units for single-family, multi-family and light-commercial applications. With two units available, they are ideal for a wide range of climates and applications.

**Certification:** Certified by the Air Conditioning, Heating and Refrigeration Institute (AHRI) for an industry-leading Low-to-Zero Exhaust Air Transfer Ratio (ETR) or a 5-year structural warranty. For more information, visit ase.ai.

### ENERGY REQUIREMENTS

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<td>500-550 CFM</td>
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</table>

**Accessories Available:**
- **MERV 8 Filter:** Premium multi-stage filter designed for maintaining indoor comfort.
- **MERV 13 Filter:** High-efficiency filter designed for maintaining indoor comfort.
- **Dial-A-Flow:** Indoor airflow control that allows users to set airflow for maximizing comfort.
- **ETR:** Exhaust Air Transfer Ratio (propylene resin and spacer plates)
- **FILTER:** MERV 8, MERV 13 (merchandise only; see www.merv8.com for MERV 13 & MERV 15)
- **CORE WARRANTY:** 2-year warranty for residential products
- **UNIT WARRANTY:** 5-year warranty
- **ESTIMATED WEIGHT:** 30 lbs.
- **ESTIMATED WATTAGE:** Coating, Brackets (small) (10W) Coating, Brackets (large) (30W)
- **CERTIFICATIONS:**
  - **ETV**
  - **ETL**
  - **HVI**
  - **AHRI**
  - **ASHRAE 62.2**
  - **ES_100**

**Applications:**
- **Small:** DVS Series
- **Large:** EV Premium Series ERVs

**Performance:**
- **AIRFLOW RANGES:**
  - 50–210 CFM: 2.00 CFM/watt at 210 CFM (0.2” esp)
  - 50–240 CFM: 2.25 CFM/watt at 108 CFM (0.2” esp)

**Squares Footage:**
- **LINE CORD:** 158 CFM (supply outside air only)
- **DIAL-A-FLOW:** 0.25 CFM/watt at 56 CFM (0.2” esp)
- **ETR GENERATION:** 0.25 CFM/watt at 108 CFM (0.2” esp)

**HIGHEST QUALITY INDOOR AIR**

Our EV Premium Series ERVs can improve indoor air quality by removing contaminants, such as off-gassing from carpeting, furniture and building materials, excess humidity and mold. Our technology takes stale indoor air and replaces it with fresh, conditioned and filtered outdoor air.

**RENEWABLE ERWERS TEMPER THE AIR**

Our ERVs moderate the extremes of outdoor supply-air temperature and humidity year-round, providing a sustainable ventilation solution for every climate.

**ERWERS MODERATE THE EXTREMES OF OUTDOOR SUPPLY-AIR TEMPERATURE AND HUMIDITY**

IN SUMMER, THE WARM, HUMID OUTSIDE AIR IS PRECOOLED AND HUMIDIFIED BY THE OUTGOING WARM INTERIOR AIR

IN WINTER, THE COLD, DRY OUTSIDE AIR IS WARMED AND DEHUMIDIFIED BY THE OUTGOING WARM INTERIOR AIR

**ERWERS MODERATE THE EXTREMES OF OUTDOOR SUPPLY-AIR TEMPERATURE AND HUMIDITY**

IN SUMMER, THE WARM, HUMID OUTSIDE AIR IS PRECOOLED AND HUMIDIFIED BY THE OUTGOING WARM INTERIOR AIR

IN WINTER, THE COLD, DRY OUTSIDE AIR IS WARMED AND DEHUMIDIFIED BY THE OUTGOING WARM INTERIOR AIR
The EV Premium Series ERVs are indoor units for single-family, multi-family and light-commercial applications. With two units available, a wide airflow range and boost mode, these ERVs are the perfect choice for a variety of applications.

### Applications

<table>
<thead>
<tr>
<th>Feature</th>
<th>SMALL</th>
<th>LARGE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POWER SUPPLY</strong></td>
<td>Line cord</td>
<td>Line cord</td>
</tr>
<tr>
<td><strong>AIRFLOW RANGE</strong></td>
<td>50–210 CFM</td>
<td>50–240 CFM</td>
</tr>
<tr>
<td><strong>BOOST MODE COMPATIBLE</strong></td>
<td>Yes*</td>
<td>Yes*</td>
</tr>
<tr>
<td><strong>LENGTH</strong></td>
<td>22”</td>
<td>22”</td>
</tr>
<tr>
<td><strong>WIDTH</strong></td>
<td>18”</td>
<td>18”</td>
</tr>
<tr>
<td><strong>HEIGHT</strong></td>
<td>12”</td>
<td>24”</td>
</tr>
<tr>
<td><strong>ESTIMATED WEIGHT</strong></td>
<td>36 lbs.</td>
<td>52 lbs.</td>
</tr>
<tr>
<td><strong>MOUNT</strong></td>
<td>Ceiling Bracket/Wall Bracket</td>
<td>Ceiling Bracket/Wall Bracket</td>
</tr>
<tr>
<td><strong>EC MOTOR</strong></td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>FILTER</strong></td>
<td>MERV 8, MERV 13 (supply outside air only for MERV 13)</td>
<td>MERV 8, MERV 13 (supply outside air only for MERV 13)</td>
</tr>
<tr>
<td><strong>CORE WARRANTY</strong></td>
<td>10-year</td>
<td>10-year</td>
</tr>
<tr>
<td><strong>UNIT WARRANTY</strong></td>
<td>5-year</td>
<td>5-year</td>
</tr>
<tr>
<td><strong>FAN EFFICIENCY</strong></td>
<td>2.25 CFM/watt at 108 CFM (0.2” esp)</td>
<td>2.00 CFM/watt at 210 CFM (0.2” esp)</td>
</tr>
</tbody>
</table>
| **CERTIFICATIONS****     | ![HVI Certified](image) | ![HVI Certified](image) | **HVI and ETL testing underway.

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*Boost mode: Maxed airflow achievable in boost mode when continous airflow set point is below max rating.

**HVI and ETL testing underway.
ACCESSORIES

FILTERS
- MERV 13 Filters
- OA Airstream

MOUNTS
- Wall-Bracket Kit

LOUVERED WALL VENT
- 6’ White or Brown

CONTROLS
- Percentage Timer (PTL)
- Percentage Timer with Furnace Interlock (FM)
- Push-Button, Point-Of-Use Timer (PBL)
- IAQ Sensor Wall Mount
- CO2 Sensor Wall Mount
- Occupancy Sensor Wall Mount
- Occupancy Sensor Ceiling Mount
- Digital Time Clock Wall Mount
- Digital Time Clock Exterior Enclosure

DAMPERS
- Automatic Balancing Valve
  4”, 5”, 6”
- Backdraft Damper

HEATERS
- RH Series Electric Duct Heater
  1 kW, 2 kW, 3 kW, 4 kW
INSTALLATION & MAINTENANCE

INSTALLATION
Installation of the EV Premium Series ERVs is simple and straightforward. Similar to the EV130, the EV Premium Series can be mounted in any orientation. Further, the RA/EA airstream can be switched with OA/FA the airstream.

The furnace blower must be operated any time the ERV is operated. Use furnace fan “on” continuous low speed or optional FM control to cycle furnace fan on ERV.

MAINTENANCE
Disposable filters should be checked and replaced as needed. Additionally, once a year, vacuum the four core faces using a soft brush. The RenewAire core does not need to be washed, as particulates do not accumulate in the core.

RENEWAIRE EVERYWHERE
RenewAire ERVs can be applied everywhere across all residential and commercial buildings, and everything in between. Our technology excels in every geographic region, every climate and every size project.