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**LOW PROFILE MULTI-FAMILY RESIDENTIAL/LIGHT COMMERCIAL**

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**RESIDENTIAL/LIGHT COMMERCIAL**

<table>
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DEFICIENT INDOOR AIR QUALITY IS A THREAT

As buildings get tighter to seal weather out, they seal in contaminants, causing deficient indoor air quality (IAQ). Typical contaminants include off-gassing from carpeting, furniture and building materials, excess humidity and mold, odors, cooking and cleaning fumes, CO2, hair and fibers, to name a few.

Deficient IAQ is a threat since it can harm occupant health and cognitive function, damage structures and hurt the bottom line. It’s especially concerning since people spend about 90% of their time indoors, and indoor air can be two to five times—and up to 100 times—more polluted than outdoor air. The EPA ranks indoor air pollution as a top-five health risk.¹

ADVERSE EFFECTS OF DEFICIENT IAQ

HEALTH PROBLEMS
Deficient IAQ can cause allergies, headaches, coughs, asthma, skin irritations and breathing difficulties, as well as cancer, liver disease, kidney damage and nervous-system failure.

DISEASE TRANSMISSION
Ventilation with outdoor air is vital to diluting airborne contaminants and decreasing disease transmission rates.

COGNITIVE IMPAIRMENT
Harvard and Berkeley Lab found that CO2—a constituent of exhaled breath—negatively impacts thinking and decision-making at levels commonly found indoors.²

REDUCED PRODUCTIVITY
Berkeley Lab found that deficient IAQ can cost $200 billion in debilitated worker performance and $58 billion in lost sick time.³

ABOUT RENEWAIRE
For over 40 years, RenewAire has been a pioneer in enhancing IAQ in commercial and residential buildings of every size. This is achieved while maximizing sustainability through our fifth-generation, enthalpic-core, static-plate Energy Recovery Ventilators (ERVs) and Dedicated Outdoor Air Systems (DOAS) that optimize energy efficiency, lower capital costs and decrease operational expenses by reducing HVAC loads therefore minimizing equipment needs, resulting in significant energy savings. Our ERVs/DOAS are competitively priced, simple to install, easy to use and maintain, have a quick payback and enjoy the industry’s best warranty with the lowest claims due to long-term reliability. In 2010, RenewAire joined the Soler & Palau (S&P) Ventilation Group, providing direct access to the latest in energy-efficient air-moving technologies. For more information, visit: renewaire.com.

EVERY GEOGRAPHIC REGION
Our ERVs excel in every geographic region.

EVERY CLIMATE
Our ERVs operate in every climate—from Alaska to Florida, and everywhere in between.

EVERY PROJECT
From massive skyscrapers to cozy residential homes, our ERVs can be used in every size project and in every code jurisdiction.

RELEVANT EVERYWHERE
When indoor occupants breathe in unclean air, this harms their health and causes cognitive impairment. Our ERVs can provide cleaner and healthier indoor air for every type of building in the world, thus improving occupants’ wellbeing, while also reducing energy costs.

RESIDENTIAL
The increased airtightness of newer and remodeled homes is causing deficient IAQ, resulting in more health problems for indoor occupants.

COMMERCIAL
As commercial buildings become more airtight, deficient IAQ is increasing and causing sickness, absenteeism and decreased productivity.

HEALTHCARE
The high occupant density of hospitals, nursing homes and other healthcare facilities results in deficient IAQ and ensuing health problems for patients and staff alike.

RESTAURANTS/COFFEE SHOPS
The large volume of indoor occupants in restaurants and coffee shops causes deficient IAQ and subsequent health problems.

RETAIL
The high level of foot traffic in retail stores leads to deficient IAQ and the potential sickness of shoppers, which can negatively impact sales.

DAYCARE
Crowded daycare facilities breed deficient IAQ, thus causing health problems for everyone—especially children who are more vulnerable.

EDUCATION (K-12, COLLEGE/UNIVERSITY)
With students and teachers packed into tight classrooms, instances of deficient IAQ go up, resulting in academic performance and test scores going down.

GOVERNMENT
Aging and crowded government buildings result in deficient IAQ, which can impair worker performance and productivity.

EVERY TYPE OF BUILDING
Every type of building can benefit from the enhanced IAQ generated by RenewAire ERVs, including veterinary clinics, nail salons and manufacturing facilities, among others.
ABOUT RENEWAIRE

RENEWAIRE ERVs

ACHIEVE SUSTAINABLE IAQ

OPTIMIZING ENERGY EFFICIENCY IN EVERY GEOGRAPHIC REGION OR CLIMATE

RenewAire residential ERVs are a sustainable ventilation solution. Our static-plate, cross-flow core separates the outgoing, polluted indoor airstream from the incoming fresh airstream—while simultaneously transferring total energy (heat and water vapor) between the two. Airstreams do not mix and pollutants are not transferred across partition plates. In the winter, that means that the cold, dry outside air is preheated and humidified by the outgoing warm interior air. And in the summer, the warm, humid outside air is precooled and dehumidified by the outgoing air-conditioned interior air.

AIRSTREAMS DO NOT MIX & POLLUTANTS ARE NOT TRANSFERRED ACROSS PARTITION PLATES

GREEN BUILDING TRENDS

High-performance, green-building standards seek to reduce energy use and increase ventilation to improve health, wellness, IAQ and indoor environmental quality (IEQ). Sustainable design initiatives like ASHRAE Standard 189.1, LEED, 2030 Challenge, Living Building Challenge and WELL Building Standard have grown in popularity among architects, engineers, contractors and building owners alike.

RenewAire ventilation technologies create healthier and more comfortable indoor environments, while optimizing energy efficiency. This is done by reusing otherwise-wasted total energy from the exhaust air to condition incoming outdoor air. The results are exceptional IAQ, IEQ, energy reductions and cost savings.
WHY RENEWAIRE IS PREFERRED

BEST VALUE
- Priced competitively against other energy recovery ventilation technology
- Due to competitive pricing and decreased costs, payback is short and ROI is maximized
- Contractors and OEMs can pass these significant savings along to their customers
- End users can benefit from a significantly reduced operating cost

RELIABLE OPERATION
- Built-to-last ERVs have lifespans of 25+ years and operate consistently year-round in every extreme, including frost-free performance in all but the most severe winter climates
- High-efficiency core operates dry in all conditions, meaning no condensate pans
- An industry-leading ten-year warranty for the static-plate core, two-year warranty for commercial products

HIGHEST-QUALITY INDOOR AIR
- Stale indoor air is replaced with fresh, conditioned and filtered air from the outside, resulting in enhanced IAQ by removing harmful contaminants
- Airstreams do not mix and pollutants are not transferred across partition plates
- No biocide used; material does not promote biological growth
- Moderated temperatures and humidity maintain a comfortable indoor environment
- Superior product quality results in paramount reliability and longevity

OPTIMIZED ENERGY EFFICIENCY
- Efficient heat and humidity transfer recaptures up to 70–80% of the energy exhausted in the airstream
- Energy that’s otherwise wasted by conventional ventilation systems (such as bath fans) is reused, thus dramatically reducing monthly operation costs
- Energy-efficient operation decreases HVAC loads, which cuts down on energy use and costs
- The hotter or colder the climate, the more energy is recovered

HIGHLY CERTIFIED
- RenewAire products are highly certified. See individual catalog submittal for certification details:
  - UL
  - cUL
  - ETL
  - AHRI
  - HVI
ENERGY RECOVERY VENTILATOR
EC MOTOR

SPECIFICATIONS

VENTILATION TYPE:
Static plate, heat and humidity transfer

TYPICAL AIRFLOW RANGE:
30–130 CFM

UNIT IS HVI TESTED/CERTIFIED PER CSA C439 PROTOCOL:
Using one L-30-G5 Core

STANDARD FEATURES:
White painted cabinet
Line-cord power supply or hard wired to junction box (H)
Low-voltage circuit for controls
Unit may be mounted in any orientation
Cross-core differential pressure ports
Dial-A-Flow: balance and airflow adjustment
Variable speed
Boost-mode

CONTROLS:
Onboard digital controller with independent variable speeds

FILTERS:
Total qty. 2, MERV 8, spun-polyester media:
7 1/2” x 10 1/2” x 1”

UNIT WEIGHT:
35 lbs.

MAX. SHIPPING DIMENSIONS & WEIGHT (IN CARTON):
31 1/4” L x 22 3/8” W x 14 3/8” H
41 lbs.

UNITS PER PALLET:
10

MOTOR(S):
Qty. 2, 120V EC motorized impellers

ACCESSORIES:
Backdraft damper: 6”, 8”
Automatic balancing damper: 4”, 5”, 6”
Motorized dampers: 6”, 8”
Concentric vent: 6” (CV6-110)
Louvered wall vent 6”: white, brown
Louvered wall vent 8”: taupe vinyl, galvanized, paintable galvanneal
Louvered wall vent with 8” round duct connection:
12” W x 8” H
Digital time clock: wall mount (TC7D-W),
in exterior enclosure (TC7D-E)
Carbon dioxide sensor/control: wall mount (CO2-W)
IAQ sensor: wall mount (IAQ-W)
Motion occupancy sensor/control:
Push-button boost timer (PBT)
Percentage timer control (PTL)
Percentage timer control with furnace interlock (FM)
BACnet fan control: wall mount (BACNETFC-W)
Push-button point-of-use controls (PBL), PTL req’d.
MERV 13 filter: OA airstream (shipped loose)
Wall bracket kit
Electric duct heater: RH series (1–4 kW); designed for indoor ductwork installation only

ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Watts</th>
<th>Volts</th>
<th>Hz</th>
<th>Phase</th>
<th>PLA per motor</th>
<th>Minimum Circuit Amps</th>
<th>Max Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>53</td>
<td>120</td>
<td>60</td>
<td>1</td>
<td>0.85</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

Notes:
1. Watts is for the entire unit.
2. Airflow performance includes effect of clean, standard filter supplied with unit.
3. Refer to CORES for specific operating point electrical data.
4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.
**SL75 ENERGY RECOVERY VENTILATOR EC MOTOR**

**SPECIFICATIONS & DIMENSIONS**

**LOW PROFILE MULTI-FAMILY RESIDENTIAL/LIGHT COMMERCIAL**

**AIRFLOW ORIENTATION**
Available as shown in dimension drawing.

**UNIT MOUNTING & APPLICATION**
Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

**ABBREVIATIONS**
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply Air to inside

**INSTALLATION ORIENTATION**
Unit may be installed in any orientation.

**NOTE**
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

**LEFT VIEW**
(Hard Mount Depicted)
(Line Cord Hidden)

**FRONT VIEW**

**RIGHT VIEW**
(Hanging Mount Depicted)

**TOP VIEW**

**MODEL**: SL75

**DRAWING TYPE**: Unit Dimension

**VERSION**: NOV23


**SL75H ENERGY RECOVERY VENTILATOR EC MOTOR**

**SPECIFICATIONS & DIMENSIONS**

LOW PROFILE MULTI-FAMILY RESIDENTIAL/LIGHT COMMERCIAL

**TOP VIEW**

- 30 3/4" Overall
- 26 3/4" Case
- 4 3/8" Typ.
- 2" Typ.

**LEFT VIEW (Hard Mount Depicted)**

- 22 1/4" Overall
- 23 1/4" Overall
- 20 3/8" Overall
- 19" Case
- 13/4" Control Terminals
- 4 3/8" Typ.
- 6" Nominal Typ.
- φ 8" Nominal Typ.

**FRONT VIEW**

- 2" Typ.
- 26 3/4" Case
- 10 3/8" Typ.
- 4 1/8" Typ.
- φ 7/8" Knockouts
- Power Outlet Box
- Pressure Ports (4) Typ.

**RIGHT VIEW (Hanging Mount Depicted)**

- 7 5/8" Minimum Service Area
- (Door can be removed from hinges.)
- 18 3/4"
- 9 1/2" Minimum Service Area
- 9 1/8" Case
- 21 1/4" Overall
- 19 7/8" Minimum Service Area
- 22 1/4" - 23 1/4" Overall
- With Ceiling Brackets
- 20 3/8" Overall
- 19" Case
- 6" Nominal Typ.
- 8" Nominal Typ.
- 22 1/4" - 23 1/4" Overall
- With Ceiling Brackets

**ABBREVIATIONS**

EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply Air to inside

**INSTALLATION ORIENTATION**

Unit may be installed in any orientation.

**NOTE**

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

**UNIT MOUNTING & APPLICATION**

Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

**AIRFLOW ORIENTATION**

Available as shown in dimension drawing.

**SL75H**

ENERGY RECOVERY VENTILATOR

EC MOTOR

MODEL: SL75H

DRAWING TYPE: UNIT DIMENSION

VERSION: NOV23
## ENERGY RECOVERY VENTILATOR
### EC MOTOR

### SPECIFICATIONS

**Ventilation Type:**
- Static plate, heat and humidity transfer

**Typical Airflow Range:**
- 30–130 CFM

**Unit is HVI Tested/Certified per CSA C439 Protocol:**
- Using one L-30-G5 Core

**Standard Features:**
- White painted cabinet
- Line-cord power supply or hard wired to junction box (H)
- Low-voltage circuit for controls
- Unit may be mounted in any orientation
- Cross-core differential pressure ports
- Dial-A-Flow: balance and airflow adjustment
- Variable speed
- Boost-mode

**Controls:**
- Onboard digital controller with independent variable speeds

**Filters:**
- Total qty. 2, MERV 8, spun-polyester media: 7 1/2" x 10 1/2" x 1"

**Motor(s):**
- Qty. 2, 120V EC motorized impellers

**Accessories:**
- Backdraft damper: 6", 8"
- Automatic balancing damper: 4", 5", 6"
- Motorized Dampers: 6", 8"
- Concentric Vent: 6" (CV6-110)
- Louvered wall vent 6": white, brown
- Louvered wall vent 8": taupe vinyl, galvanized, paintable galvanneal
- Louvered wall vent with 8" round duct connection: 12" W x 8" H
- Hooded wall vent 8": galvanized, paintable galvanneal
- Digital time clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)
- Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)
- IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)
- Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)
- Push-button boost timer (PBT)
- Percentage timer control (PTL)
- Percentage timer control with furnace interlock (FM)
- Push-button point-of-use controls (PBL), PTL req’d
- BACnet fan control: wall mount (BACNETFC-W)
- MERV 13 filter: OA airstream (shipped loose)
- Electric duct heater: RH series (1–4 kW)
- Designed for indoor ductwork installation only

### EC MOTOR OPERATING RANGE AND CORE PERFORMANCE

<table>
<thead>
<tr>
<th>Airflow (CFM)</th>
<th>External Static Pressure (Inches Water Column)</th>
<th>Unit Power Consumption (Watts)</th>
<th>Sensible EFF%</th>
<th>Total EFF% Winter/Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Speed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>138</td>
<td>0.10</td>
<td>137</td>
<td>62</td>
<td>54/36</td>
</tr>
<tr>
<td>131</td>
<td>0.20</td>
<td>136</td>
<td>64</td>
<td>55/38</td>
</tr>
<tr>
<td>125</td>
<td>0.30</td>
<td>134</td>
<td>65</td>
<td>57/40</td>
</tr>
<tr>
<td>119</td>
<td>0.40</td>
<td>133</td>
<td>66</td>
<td>58/41</td>
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<tr>
<td>112</td>
<td>0.50</td>
<td>133</td>
<td>67</td>
<td>60/43</td>
</tr>
<tr>
<td>106</td>
<td>0.60</td>
<td>130</td>
<td>68</td>
<td>61/45</td>
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<tr>
<td>97</td>
<td>0.70</td>
<td>128</td>
<td>70</td>
<td>63/48</td>
</tr>
<tr>
<td>91</td>
<td>0.80</td>
<td>124</td>
<td>71</td>
<td>65/49</td>
</tr>
<tr>
<td>83</td>
<td>0.90</td>
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<tr>
<td>35</td>
<td>1.40</td>
<td>85</td>
<td>82</td>
<td>78/65</td>
</tr>
</tbody>
</table>

| Min. Speed   |                                               |                               |               |                          |
| 28           | 0.10                                          | 13                            | 83            | 79/67                    |
| 13           | 0.20                                          | 12                            | 86            | 83/71                    |

**Notes:**
1. Watts is for the entire unit.
2. Airflow performance includes effect of clean, standard filter supplied with unit.
3. Refer to CORES for specific operating point electrical data.
4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.

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<td>15</td>
</tr>
</tbody>
</table>
**EV PREMIUM S ENERGY RECOVERY VENTILATOR EC MOTOR**

**SPECIFICATIONS & DIMENSIONS**

**RESIDENTIAL/LIGHT COMMERCIAL**

**AIRFLOW ORIENTATION**

Available as shown in dimension drawing.

**UNIT MOUNTING & APPLICATION**

Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

**ABBREVIATIONS**

EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply Air to inside

**INSTALLATION ORIENTATION**

Unit may be installed in any orientation.

**NOTE**

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

---

**TOP VIEW**

---

**LEFT VIEW**

---

**FRONT VIEW**

---

**RIGHT VIEW**

---
EV PREMIUM SH ENERGY RECOVERY VENTILATOR EC MOTOR

SPECIFICATIONS & DIMENSIONS

<table>
<thead>
<tr>
<th>Model: EV Premium SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawing Type: Unit Dimension</td>
</tr>
<tr>
<td>Version: NOV23</td>
</tr>
</tbody>
</table>

**Abbreviations**

- EA: Exhaust Air to outside
- OA: Outside Air intake
- RA: Room Air to be exhausted
- SA: Supply Air to inside

**Installation Orientation**

- Unit may be installed in any orientation.

**Note**

- Unless otherwise specified, dimensions are rounded to the nearest eighth of an inch.
- Specifications may be subject to change without notice.

**Airflow Orientation**

Available as shown in dimension drawing.

**Unit Mounting & Application**

Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

**Specifications & Dimensions**

- **Energy Recovery Ventilator**
  - EC Motor

- **Dimensions**
  - 4 1/2" Typ.
  - 9 5/8" Overall (with Hanging Bracket)
  - 18" Case
  - 22 1/4" Overall
  - 2 1/4" Typ.

- **Pressure Ports**
  - (4) Typ.

- **Power Outlet Box**
  - 7/8" Knockouts

- **Service Area**
  - Door can be removed from hinges.

- **Door Swing**
  - 22 1/4" Minimum Service Area
  - 8" Nominal
  - 6" Nominal

- **Case**
  - 26 1/4" Overall (with Hanging Bracket)
  - 21 7/8" Case

Subject to change without notice: RENEAIRE.COM | 1.800.627.4499
**ENERGY RECOVERY VENTILATOR**

**EC MOTOR**

**SPECIFICATIONS**

**Ventilation Type:**
Static plate, heat and humidity transfer

**Typical Airflow Range:** 30–225 CFM

**Unit is HVI Tested/Certified per CSA C439**

**Protocol:** Using one L-50-G5 Core

**Standard Features:**
- White painted cabinet
- Line-cord power supply or hard wired to junction box (H)
- Unit may be mounted in any orientation
- Cross-core differential pressure ports
- Dial-A-Flow: balance and airflow adjustment
- Variable speed
- Boost-mode

**Controls:**
- Onboard digital controller with independent variable speeds

**Filters:**
- Total qty. 2, MERV 8, spun-polyester media:
  - 10 1/2" x 10 1/2" x 1"

**Unit Weight:** 36 lbs.

**Max. Shipping Dimensions & Weight (in carton):**
- 32” L x 22” W x 18” H
- 48 lbs.

**Units Per Pallet:** 8

**Motor(s):**
- Qty. 2, 120V EC motorized impellers

**Accessories:**
- Backdraft damper: 6", 8"
- Automatic balancing damper: 4", 5", 6"
- Motorized Damper: 6", 8"
- Concentric Vent: 6" (CV6-110)
- Louvered wall vent: 6": white, brown
- Louvered wall vent 8": taupe vinyl, galvanized, paintable galvanneal
- Louvered wall vent with 8" round duct connection:
  - 12" W x 8" H
- Hooded wall vent 8": galvanized, paintable galvanneal
- Digital clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)
- Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)
- IAO sensor: wall mount (IAQ-W), duct mount (IAQ-D)
- Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)
- Push-button boost timer (PBT)
- Percentage timer control (PTL)
- Percentage timer control with furnace interlock (FM)
- Push-button point-of-use controls (PBL), PTL req’d.
- BACnet fan control: wall mount (BACNETFC-W)
- MERV 13 filter: OA airstream (shipped loose)
- Electric duct heater: RH series (1–6 kW)
- Designed for indoor ductwork installation only

**EC MOTOR OPERATING RANGE AND CORE PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow (CFM)</th>
<th>External Static Pressure (Inches Water Column)</th>
<th>Unit Power Consumption (Watts)</th>
<th>Sensible EFF%</th>
<th>Total EFF% Winter/Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>242</td>
<td>0.10</td>
<td>191</td>
<td>57</td>
<td>47/28</td>
</tr>
<tr>
<td>233</td>
<td>0.20</td>
<td>190</td>
<td>58</td>
<td>48/29</td>
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<tr>
<td>227</td>
<td>0.30</td>
<td>189</td>
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<td>218</td>
<td>0.40</td>
<td>189</td>
<td>60</td>
<td>50/32</td>
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<td>0.50</td>
<td>191</td>
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<td>52/34</td>
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<td>53/35</td>
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<td>54/37</td>
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<tr>
<td>186</td>
<td>0.80</td>
<td>191</td>
<td>64</td>
<td>56/38</td>
</tr>
<tr>
<td>180</td>
<td>0.90</td>
<td>189</td>
<td>65</td>
<td>57/40</td>
</tr>
<tr>
<td>172</td>
<td>1.00</td>
<td>190</td>
<td>66</td>
<td>58/42</td>
</tr>
<tr>
<td>155</td>
<td>1.20</td>
<td>191</td>
<td>68</td>
<td>61/45</td>
</tr>
<tr>
<td>124</td>
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<td>190</td>
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<td>71/57</td>
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<tr>
<td>75</td>
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<td>79</td>
<td>74/60</td>
</tr>
<tr>
<td>51</td>
<td>0.30</td>
<td>58</td>
<td>82</td>
<td>78/65</td>
</tr>
</tbody>
</table>

**Notes:**
1. Watts is for the entire unit.
2. Airflow performance includes effect of clean, standard filter supplied with unit.
3. Refer to CORES for specific operating point electrical data.
4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/76wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>Watts</th>
<th>Volts</th>
<th>Hz</th>
<th>Phase</th>
<th>FLA per motor</th>
<th>Minimum Circuit Amps</th>
<th>Max Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>85</td>
<td>120</td>
<td>60</td>
<td>1</td>
<td>1.22</td>
<td>15</td>
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</tr>
</tbody>
</table>

---

**AWARD WINNING**

**EV PREMIUM MH**

TechHome Builder’s 2023 Brilliance Award

**Note:** There are multiple control options designed to address individual climate conditions. Please consult your local installer for the best installation controls for your climate.

**INDOOR UNIT**

**SPECIFICATIONS**

- **Ventilation Type:** Static plate, heat and humidity transfer
- **Typical Airflow Range:** 30–225 CFM
- **Unit is HVI Tested/Certifiedper CSA C439**
- **Protocol:** Using one L-50-G5 Core
- **Standard Features:**
  - White painted cabinet
  - Line-cord power supply or hard wired to junction box (H)
  - Unit may be mounted in any orientation
  - Cross-core differential pressure ports
  - Dial-A-Flow: balance and airflow adjustment
  - Variable speed
  - Boost-mode
- **Controls:**
  - Onboard digital controller with independent variable speeds
- **Filters:**
  - Total qty. 2, MERV 8, spun-polyester media:
    - 10 1/2" x 10 1/2" x 1"
- **Unit Weight:** 36 lbs.
- **Max. Shipping Dimensions & Weight (in carton):**
  - 32” L x 22” W x 18” H
  - 48 lbs.
- **Units Per Pallet:** 8

**Motor(s):**
- Qty. 2, 120V EC motorized impellers

**Accessories:**
- Backdraft damper: 6", 8"
- Automatic balancing damper: 4", 5", 6"
- Motorized Damper: 6", 8"
- Concentric Vent: 6" (CV6-110)
- Louvered wall vent: 6": white, brown
- Louvered wall vent 8": taupe vinyl, galvanized, paintable galvanneal
- Louvered wall vent with 8" round duct connection:
  - 12" W x 8" H
- Hooded wall vent 8": galvanized, paintable galvanneal
- Digital clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)
- Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)
- IAO sensor: wall mount (IAQ-W), duct mount (IAQ-D)
- Motion occupancy sensor/control: ceiling mount (MC-C), wall mount (MC-W)
- Push-button boost timer (PBT)
- Percentage timer control (PTL)
- Percentage timer control with furnace interlock (FM)
- Push-button point-of-use controls (PBL), PTL req’d.
- BACnet fan control: wall mount (BACNETFC-W)
- MERV 13 filter: OA airstream (shipped loose)
- Electric duct heater: RH series (1–6 kW)
- Designed for indoor ductwork installation only

**Notes:**
1. Watts is for the entire unit.
2. Airflow performance includes effect of clean, standard filter supplied with unit.
3. Refer to CORES for specific operating point electrical data.
4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/76wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>Watts</th>
<th>Volts</th>
<th>Hz</th>
<th>Phase</th>
<th>FLA per motor</th>
<th>Minimum Circuit Amps</th>
<th>Max Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>85</td>
<td>120</td>
<td>60</td>
<td>1</td>
<td>1.22</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

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Scan QR code to see life size version of EV Premium M, or view here: https://QR.Marketscale.com/EVPremiumM

AUGMENTED REALITY (AR)

Scan QR code to see life size version of EV Premium M, or view here: https://QR.Marketscale.com/EVPremiumM
EV PREMIUM M ENERGY RECOVERY VENTILATOR EC MOTOR

SPECIFICATIONS & DIMENSIONS
RESIDENTIAL/LIGHT COMMERCIAL

AIRFLOW ORIENTATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply Air to inside

INSTALLATION ORIENTATION
Unit may be installed in any orientation.

NOTE
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
EV PREMIUM MH
ENERGY RECOVERY VENTILATOR
EC MOTOR

SPECIFICATIONS & DIMENSIONS

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

AIRFLOW ORIENTATION
Available as shown in dimension drawing.

SPECIFICATIONS & DIMENSIONS

RESIDENTIAL/LIGHT COMMERCIAL

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

NOTES
- UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
- SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

Drawings Type: Unit Dimension
Version: NOV23

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply Air to inside

INSTALLATION ORIENTATION
Unit may be installed in any orientation.

MODEL: EV Premium MH

22 1/4" Minimum Service Area
(Door can be removed from hinges.)

22 1/4" Overall
Case 22 1/4" Minimum
Service Area

23 3/8" Overall
Case 22 1/4" Minimum
Service Area

26 1/4" Overall
(with hanging bracket)

TOP VIEW

INLET RING

2 1/4" Typ.
6" Nominal
Typ.

24 VAC Control Terminal

HEATING COIL

2 1/4" Typ.
6" Nominal
Typ.

7/8" Typ.
2 5/8" 21 7/8"
Case 26 1/4" Overall
(with hanging bracket)

FRONT VIEW

2 1/4" Typ.
6" Nominal
Typ.

Pressure Ports
(4) Typ.

0.75" Nominal
Typ.

Power Outlet Box
0.75" Knockouts

0.75" Nominal
Typ.

LEFT VIEW

2 5/8" 21 7/8"
Case 26 1/4" Overall
(with hanging bracket)
ENERGY RECOVERY VENTILATOR
EC MOTOR

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 30–280 CFM

Unit is HVI Tested/Certified per CSA C439
Protocol: Using one L-100-G5 Core

Standard Features:
White painted cabinet
Line-cord power supply or hard wired to junction box (H)
Low-voltage circuit for controls
Unit may be mounted in any orientation
Cross-core differential pressure ports
Dial-A-Flow: balance and airflow adjustment
Variable speed
Boost-mode

Controls:
Onboard digital controller with independent variable speeds

Filters:
Total qty. 2, MERV 8, spun-polyester media:
10 1/2" x 21 3/4" x 1"

Unit Weight: 52 lbs.

Max. Shipping Dimensions & Weight (in carton):
33" L x 22" W x 29" H
66 lbs.

Units Per Pallet: 4

Motor(s):
Qty. 2, 120V EC motorized impellers

Accessories:
Backdraft damper: 6", 8"
Automatic balancing damper: 4", 5", 6"
Motorized Dampers: 6", 8"
Concentric Vent: 6" (CV-6-110)
Louvered wall vent 6": white, brown
Louvered wall vent 8": taupe vinyl, galvanized, paintable galvanneal
Louvered wall vent with 8" round duct connection:
12" W x 8" H
Hooded wall vent 8": galvanized, paintable galvanneal
Digital time clock: wall mount (TC7-D-W), in exterior enclosure (TC7-D-E)
Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)
IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)
Motion occupancy sensor/control:
ceiling mount (MC-C), wall mount (MC-W)
Push-button boost timer (PBT)
Percentage timer control (PTL)
Percentage timer control with furnace interlock (FM)
Push-button point-of-use controls (PBL), PTL req’d.
BACnet fan control: wall mount (BACNETFC-W)
MERV 13 filter: OA airstream (shipped loose)
Electric duct heater: RH series (1–8 kW)
designed for indoor ductwork installation only

EC MOTOR OPERATING RANGE AND CORE PERFORMANCE

<table>
<thead>
<tr>
<th>Airflow (CFM)</th>
<th>External Static Pressure (Inches Water Column)</th>
<th>Unit Power Consumption (Watts)</th>
<th>Sensible EFF%</th>
<th>Total EFF% Winter/Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>Max. Speed</td>
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<tr>
<td>278</td>
<td>0.40</td>
<td>183</td>
<td>71</td>
<td>64/49</td>
</tr>
<tr>
<td>267</td>
<td>0.50</td>
<td>185</td>
<td>72</td>
<td>65/50</td>
</tr>
<tr>
<td>256</td>
<td>0.60</td>
<td>184</td>
<td>73</td>
<td>66/51</td>
</tr>
<tr>
<td>244</td>
<td>0.70</td>
<td>184</td>
<td>73</td>
<td>67/52</td>
</tr>
<tr>
<td>233</td>
<td>0.80</td>
<td>184</td>
<td>74</td>
<td>68/53</td>
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<tr>
<td>222</td>
<td>0.90</td>
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<td>75</td>
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<td>1.00</td>
<td>184</td>
<td>76</td>
<td>70/56</td>
</tr>
<tr>
<td>197</td>
<td>1.20</td>
<td>185</td>
<td>77</td>
<td>72/58</td>
</tr>
<tr>
<td>141</td>
<td>1.60</td>
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<td>80</td>
<td>75/62</td>
</tr>
<tr>
<td>100</td>
<td>2.00</td>
<td>185</td>
<td>82</td>
<td>78/66</td>
</tr>
</tbody>
</table>

| Min. Speed   |                                               |                               |               |                           |
| 122          | 0.10                                          | 80                            | 81            | 77/64                     |
| 98           | 0.20                                          | 79                            | 83            | 78/66                     |
| 67           | 0.30                                          | 70                            | 85            | 81/69                     |

Notes:
1. Watts is for the entire unit.
2. Airflow performance includes effect of clean, standard filter supplied with unit.
3. Refer to CORES for specific operating point electrical data.
4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 47 of Single/Multi-Family Catalog and at hvi.org.

ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Watts</th>
<th>Volts</th>
<th>Hz</th>
<th>Phase</th>
<th>FLA per motor</th>
<th>Minimum Circuit Amps</th>
<th>Max Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>85</td>
<td>120</td>
<td>60</td>
<td>1</td>
<td>1.22</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>
**EV PREMIUM L ENERGY RECOVERY VENTILATOR EC MOTOR**

**SPECIFICATIONS & DIMENSIONS**

**RESIDENTIAL/LIGHT COMMERCIAL**

**AIRFLOW ORIENTATION**
Available as shown in dimension drawing.

**UNIT MOUNTING & APPLICATION**
Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

**ABBREVIATIONS**
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply Air to inside

**INSTALLATION ORIENTATION**
Unit may be installed in any orientation.

**NOTE**
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

**TOP VIEW**

- 24V AC Control Terminal
- 2 1/4" Typ.
- 22 1/4" Overall (with Hanging Bracket)
- 2 23/32" Typical
- 23 3/4" Overall

**LEFT VIEW**

- Inlet Ring
- 25 1/2" Overall (with Hanging Bracket)
- 2 1/2" Case
- 2 5/8" Typical

**FRONT VIEW**

- Pressure Ports (4) Typ.
- 6 1/4" Typ.
- 5 3/4" Typ.
- 22 1/4" Minimum Service Area (Door can be Removed from Hinges.)

**RIGHT VIEW**

- 22 1/4" Minimum Service Area
- 23 5/8" Case
- 24 1/4" Overall
- 2 4 1/4" Typical
**SPECIFICATIONS & DIMENSIONS**

**RESIDENTIAL/LIGHT COMMERCIAL**

**AIRFLOW ORIENTATION**
Available as shown in dimension drawing.

**UNIT MOUNTING & APPLICATION**
Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

**ABBREVIATIONS**
- EA: Exhaust Air to outside
- OA: Outside Air intake
- RA: Room Air to be exhausted
- SA: Supply Air to inside

**NOTES**
- Unless otherwise specified, dimensions are rounded to the nearest eighth of an inch.
- Specifications may be subject to change without notice.

**INSTALLATION ORIENTATION**
Unit may be installed in any orientation.

**NOTE**
- 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
- 2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

**ENERGY RECOVERY VENTILATOR**

- **Model:** EV Premium LH
- **Drawing Type:** Unit Dimension
- **Version:** NOV23

**EV PREMIUM LH ENERGY RECOVERY VENTILATOR EC MOTOR**

**SPECIFICATIONS & DIMENSIONS**

**UNIT MOUNTING & APPLICATION**
Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

**AIRFLOW ORIENTATION**
Available as shown in dimension drawing.

**ABBREVIATIONS**
- EA: Exhaust Air to outside
- OA: Outside Air intake
- RA: Room Air to be exhausted
- SA: Supply Air to inside

**NOTES**
- Unless otherwise specified, dimensions are rounded to the nearest eighth of an inch.
- Specifications may be subject to change without notice.

**INSTALLATION ORIENTATION**
Unit may be installed in any orientation.

**NOTE**
- 1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
- 2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
**ENERGY RECOVERY VENTILATOR**

**EC MOTOR**

### SPECIFICATIONS

**Ventilation Type:**
Static plate, heat and humidity transfer

**Typical Airflow Range:** 100–390 CFM

**Unit is HVI Tested/Certified per CSA C439 Protocol:** Using one L-100-G5 Core

**Standard Features:**
- White painted cabinet
- Line-cord power supply or hard wired to junction box (H)
- Unit may be mounted in any orientation
- Cross-core differential pressure ports
- Dial-A-Flow: balance and airflow adjustment
- Variable speed
- Boost-mode

**Controls:**
- Onboard digital controller with independent variable speeds

**Filters:**
- Total qty. 2, MERV 8, spun-polyester media:
  - 10 1/2" x 21 3/4" x 1"

**Unit Weight:** 65 lbs.

**Max. Shipping Dimensions & Weight (in carton):**
- 33" L x 24" W x 29" H
- 72 lbs.

**Units Per Pallet:** 4

**Motor(s):**
- Qty. 2, 120V EC motorized impellers

**Accessories:**
- Backdraft damper: 8"
- Automatic balancing damper: 4", 5", 6"
- Motorized Dampers: 8"
- Louvered wall vent 8": taupe vinyl, galvanized, paintable galvanized
- Louvered wall vent with 8" round duct connection: 12" W x 8" H
- Hooded wall vent 8": galvanized, paintable galvanized
- Digital time clock: wall mount (TC7D-W), in exterior enclosure (TC7D-E)
- Carbon dioxide sensor/control: wall mount (CO2-W), duct mount (CO2-D)
- IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)
- Motion occupancy sensor/control:
  - ceiling mount (MC-C), wall mount (MC-W)
- Push-button boost timer (PBT)
- Percentage timer control (PTL)
- Percentage timer control with furnace interlock (FM)
- Push-button point-of-use controls (PBL), PTL req’d.
- BACnet fan control: wall mount (BACNETFC-W)
- MERV 13 filter: OA airstream (shipped loose)
- Electric duct heater: RH series (1–11.5 kW); designed for indoor ductwork installation only

**NEW! INDOOR UNIT**

**Note:** There are multiple control options designed to address individual climate conditions. Please consult your local installer for the best installation controls for your climate.

**AUGMENTED REALITY (AR)**

Scan QR code to see life size version of EV Premium X, or view here: https://AR.Marketscale.com/EVPremiumX

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**EC MOTOR OPERATING RANGE AND CORE PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow (CFM)</th>
<th>External Static Pressure (Inches Water Column)</th>
<th>Unit Power Consumption (Watts)</th>
<th>Sensible EFF%</th>
<th>Total EFF% Winter/Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<tr>
<td>400</td>
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<td>339</td>
<td>64</td>
<td>55/38</td>
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<td>390</td>
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<td>381</td>
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<td>340</td>
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<td>57/40</td>
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<td>373</td>
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<td>337</td>
<td>65</td>
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<td>362</td>
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<td>337</td>
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<td>0.10</td>
<td>41</td>
<td>80</td>
<td>75/62</td>
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<tr>
<td>122</td>
<td>0.20</td>
<td>37</td>
<td>81</td>
<td>77/64</td>
</tr>
<tr>
<td>93</td>
<td>0.30</td>
<td>32</td>
<td>83</td>
<td>79/66</td>
</tr>
</tbody>
</table>

**Min. Speed**

<table>
<thead>
<tr>
<th>Airflow (CFM)</th>
<th>External Static Pressure (Inches Water Column)</th>
<th>Unit Power Consumption (Watts)</th>
<th>Sensible EFF%</th>
<th>Total EFF% Winter/Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>93</td>
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<td>32</td>
<td>83</td>
<td>79/66</td>
</tr>
</tbody>
</table>

**Notes:**
1. Watts is for the entire unit.
2. Airflow performance includes effect of clean, standard filter supplied with unit.
3. Refer to CORES for specific operating point electrical data.
4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 47 of Single/Multi-Family Catalog and at hvi.org.

**ELECTRICAL DATA**

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<th>Hz</th>
<th>Phase</th>
<th>FLA per motor</th>
<th>Minimum Circuit Amps</th>
<th>Max Overcurrent Protection Device</th>
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<tbody>
<tr>
<td>220</td>
<td>120</td>
<td>60</td>
<td>1</td>
<td>2.7</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

Subject to change without notice: RENEWAIRE.COM | 1.800.627.4499
**SPECIFICATIONS & DIMENSIONS**

**RESIDENTIAL/LIGHT COMMERCIAL**

**UNIT MOUNTING & APPLICATION**

Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

**SPECIFICATIONS & DIMENSIONS**

**RESIDENTIAL/LIGHT COMMERCIAL**

**AIRFLOW ORIENTATION**

Available as shown in dimension drawing.

**UNIT MOUNTING & APPLICATION**

Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

**ABBREVIATIONS**

EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply Air to inside

**INSTALLATION ORIENTATION**

Unit may be installed in any orientation.

**NOTE**

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

---

**EV PREMIUM X**

**ENERGY RECOVERY VENTILATOR**

**EC MOTOR**

**MODEL**: EV Premium X

**DRAWING TYPE**: Unit Dimension

**VERSION**: NOV23

---

**SPECIFICATIONS & DIMENSIONS**

**RESIDENTIAL/LIGHT COMMERCIAL**

**UNIT MOUNTING & APPLICATION**

Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

**SPECIFICATIONS & DIMENSIONS**

**RESIDENTIAL/LIGHT COMMERCIAL**

**AIRFLOW ORIENTATION**

Available as shown in dimension drawing.

**UNIT MOUNTING & APPLICATION**

Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

**ABBREVIATIONS**

EA: Exhaust Air to outside
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RA: Room Air to be exhausted
SA: Supply Air to inside

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**EV PREMIUM X**

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**MODEL**: EV Premium X

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**SPECIFICATIONS & DIMENSIONS**

**RESIDENTIAL/LIGHT COMMERCIAL**

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**SPECIFICATIONS & DIMENSIONS**

**RESIDENTIAL/LIGHT COMMERCIAL**

**AIRFLOW ORIENTATION**

Available as shown in dimension drawing.

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Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream.

**ABBREVIATIONS**

EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply Air to inside

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APPLICATIONS
COMMON INSTALLATION APPROACHES

SL AND EV PREMIUM SERIES

SEPARATE RETURN AIR PICK-UP
SUPPLY AIR TO FURNACE RETURN AIR TRUNK*

Note: ERV blower may be operated separate from furnace blower.

FURNACE RETURN AIR BACK INTO RETURN AIR*

Note: 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.

Conditioned Air (CA); Exhaust Air (EA); Outside Air (OA); Room Air (RA); Supply Air (SA)

*Installation orientation may result in logo being displayed upside down. This does not affect performance and is an acceptable installation orientation.

SEPARATE RETURN AIR AND SUPPLY AIR*

Note: ERV blower may be operated separate from furnace blower.

FURNACE RETURN AIR BACK INTO SUPPLY AIR*

Note: ERV blower may be operated separate from furnace blower.

Separate return air and supply air.*

Note: ERV blower may be operated separate from furnace blower.

Separate return air pick-up.
Supply air to furnace return air trunk.*
CONTROL STRATEGIES

See individual submittal pages for compatibility by model.

CONTINUOUS VENTILATION

*Note: There are multiple control options designed to address individual climate conditions. Please consult your local installer for the best installation controls for your climate.

ONE-SPEED

Standalone
- No additional controls required
- Models run at the set low-speed when powered

TWO-SPEED

Low Speed with a Single On Demand Boost Mode Activation Location (e.g. bathroom)
- Models run at the set low-speed when powered and operate at set high-speed only when activated by signal

TWO-SPEED

Low Speed with Multiple On Demand Boost Mode Activation Locations (e.g. bathrooms, kitchen, etc.)
- Models run at the set low-speed when powered and operate at set high-speed when activated by signal

TWO-SPEED

Low Speed with Set % of Hour Boost Mode Activation
- Models run at the set low-speed when powered and operate at high-speed only when activated by PTL for set % of each hour

TWO-SPEED

Low Speed with Set % of Hour Boost Mode Activation and Additional On Demand Boost Mode Activation Locations (e.g. bathrooms, kitchen, etc.)
- Models run at the set low-speed when powered and operate at high-speed only when activated by PTL for set % of each hour or PBL timer-based override

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CONTROL STRATEGIES

INTERMITTENT VENTILATION

Note: There are multiple control options designed to address individual climate conditions. Please consult your local installer for the best installation controls for your climate.

ONE-SPEED

Furnace Interlock
- Low-Speed set to 0, and High-Speed set for desired CFM
- Models are off when powered and operate at High-Speed only when activated by signal, which also turns furnace blower on

Models run at the set low-speed when powered and operate at high-speed only when activated by PTL for set % of each hour or PBL timer-based override

Low-speed set to 0, and high-speed set for desired CFM

ONE-SPEED

Single On Demand Activation Location (e.g. bathroom)
- Low-Speed set to 0, and High-Speed set for desired CFM
- Models are off when powered and operate at High-Speed only when activated by signal

Models are off when powered and operate at high-speed only when activated by signal

ONE-SPEED

Multiple On Demand Activation Locations (e.g. bathrooms, kitchen, etc.)
- Low-Speed set to 0, and High-Speed set for desired CFM
- Models are off when powered and operate at High-Speed only when activated by signal

ONE-SPEED

Set % of Hour Activation
- Low-Speed set to 0, and High-Speed set for desired CFM
- Models are off when powered and operate at High-Speed only when activated by PTL for set % of each hour

ONE-SPEED

Set % of Hour Activation and Additional On Demand Activation Locations (e.g. bathrooms, kitchen, etc.)
- Low-Speed set to 0, and High-Speed set for desired CFM
- Models are off when powered and operate at High-Speed only when activated by PTL for set % of each hour or PBL timer-based override
ACCESSORIES

See controls accessory table on next page or individual submittal pages for compatibility by model.

CONTROLS

PERCENTAGE TIMER (PTL)

Primary control
- Units can run an adjustable amount of time each hour
- Two-wire, low-voltage connection

PERCENTAGE TIMER WITH FURNACE INTERLOCK (FM)

Primary control
- Low-voltage wire connects to EV unit and either thermostat or furnace control to turn on furnace blower
- Six-wire, low-voltage connection

PUSH-BUTTON BOOST TIMER (PBT)

Primary control
- Push-button control sends unit to boost mode from bathrooms or other intermittent exhaust locations
- Push once for 20 minutes, twice for 40 minutes, and 3 times for 60 minutes of run-time.
- Two-wire, low-voltage connection

PUSH-BUTTON POINT OF USE TIMER (PBL)

Secondary control used in combination with PTL or PBT control
- Push-button control turns on unit from bathrooms or other intermittent exhaust locations
- Push once for 20 minutes, twice for 40 minutes, and 3 times for 60 minutes of run-time.
- Two-wire, low-voltage connection to PTL or PBT control

DIGITAL TIME CLOCK (TC7D-W, TC7D-E)

- Up to 8 on/off cycles per day or 56 per week
- Battery back-up
- Wall mount or outdoor enclosure options
- Wall mount fits any 4" x 4" electrical box

CO2 SENSORS (CO2-W, CO2-D)

- Adjustable control from 400–2000 PPM
- Digital display
- Computer/BAS interface for information and control
- Self calibrates during periods of low occupancy
- Wall mount or add duct mount accessory

IAQ SENSORS (IAQ-W, IAQ-D)

- Measures TVOC
- Direct correlation to CO2 levels
- 0–2000 ppm CO2 equivalent output signal
- Digital display on wall mount
- Selectable 0–5 or 0–10V dc signal
- Internal menu for easy set-up

MOTION OCCUPANCY SENSORS (MC-C, MC-W)

- Passive infrared sensor
- Adjustable time-off delay to 30 minutes
- Ceiling mount or directable wall mount
- Coverage floor space
  - Ceiling mount: 1500 sq. ft.
  - Wall mount: 2500 sq. ft.
- Major motion area
  - Ceiling mount: 50 ft. diameter
  - Wall mount: 68 x 50 ft.

BACNET FAN CONTROL

- Adds remote fan control functionally
- Set unit on/off status or turn on high speed—functionally model dependent
- Local control without opening unit and/or BMS override via BACnet MS/TP
- 24VAC power requirement
- Wired connection to unit and BMS
- LCD display
- Wall mount

BACNETFC-W Wall Mount

NEW!
ACCESSORIES

See controls accessory table below or individual submittal pages for compatibility by model.

CONTROLS

Standard controls are intended to turn RenewAire single/multi-family energy recovery ventilation systems on and off at appropriate times. Installation and set-up is an easy process.

CONTROLS AVAILABLE BY MODEL

<table>
<thead>
<tr>
<th></th>
<th>SL75</th>
<th>BR70, BR130</th>
<th>EV Premium S, M, L, X</th>
<th>EV90</th>
<th>EV130</th>
<th>EV200</th>
<th>EV240</th>
<th>EV300</th>
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<td>Percentage Timer with Furnace Interlock (FM)</td>
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<td>🟢</td>
<td>Built-in 🟢</td>
<td>🟢</td>
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<td></td>
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<tr>
<td>Push-Button Point of Use Timer (PBL)</td>
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<td>🟢</td>
<td>🟢</td>
<td>🟢</td>
<td></td>
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<tr>
<td>Push-Button Boost Timer (PBT)</td>
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<td>🟢</td>
<td>🟢</td>
<td>🟢</td>
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<td>🟢, 🟢</td>
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<td>🟢, 🟢</td>
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<td>IAQ Sensors (IAQ-W, IAQ-D)</td>
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<td>🟢, 🟢</td>
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<tr>
<td>Motion Occupancy Sensors (MC-C, MC-W)</td>
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<td>🟢, 🟢</td>
<td>🟢</td>
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<td>BACnet Fan Control (BACNETFC-W)</td>
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<td>🟢</td>
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</tbody>
</table>

Notes
1. 24VAC power requirement, external power supply must be provided.
2. 24VAC power requirement, ERV internal transformer supplied.
3. Turns on high speed either with ERV operating continuously at low speed or intermittently with low speed at 0. Speeds set on ERV.
4. Turns on ERV intermittently at single speed. Speed set with dampers.

MOUNTING

WALL BRACKET KIT (SL ONLY)

- For vertical installation on stud walls or field-supplied support/backing panels

![Wall Bracket Kit]

FILTERS

MERV 13 FILTERS

- Electrostatically charged filter fibers
- Single die-cut construction frame
- Moisture-resistant construction
- High holding capacity design
- Expanded metal reinforcement
- Shipped loose

![MERV 13 Filter]
ACCESSORIES

See individual submittal pages for compatibility by model.

6" & 8" BACKDRAFT DAMPERS (BD6 & BD8)
- Mechanical “butterfly” design
- Male/female ends

PRESSURE DROP PERFORMANCE

![Graphs showing pressure drop performance for BD6 and BD8 dampers.]

AUTOMATIC BALANCING DAMPER (ABV-4, ABV-5 & ABV-6)
- 4", 5" and 6"
- Maintains a constant airflow volume with calibrated set points
- Set point range ABV-4 & ABV-5: 30 to 125 CFM, ABV-6: 60 to 240 CFM
- Recommended use with static pressures under 1.0 in. w.g.

6" & 8" MOTORIZED DAMPERS
- 24VAC powered to open
- Prevent unwanted airflow through ERV when adverse outdoor air conditions, such as wildfire smoke are present or to meet local codes
- Range of kits to accommodate different installation applications. Use the table below to identify the correct kit for a particular installation

<table>
<thead>
<tr>
<th>Damper Kits</th>
<th>MD6-FM</th>
<th>MD6-PT</th>
<th>MD6</th>
<th>MD8</th>
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<tr>
<td>Diameter</td>
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<td>8&quot;</td>
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<td>Yes</td>
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<tr>
<td>Furnace interlock required</td>
<td>Yes</td>
<td>No*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Furnace interlock may still be used, but must be purchased separately.

CONCENTRIC VENT (CV6-110)
- Maximum airflow 110 CFM
- Simplifies installation with only one 6” diameter hole through exterior walls
- Fits both 5" or 6" diameter insulated flexible ducts
- Complies with ASHRAE 62.2-2019

PRESSURE DROP PERFORMANCE

![Graphs showing pressure drop performance for intake and exhaust.]
OPTIONS & ACCESSORIES

See individual submittal pages for compatibility by model.

6" VINYL LOUVERED WALL VENTS (VB106 & VW106)
- Brown (VB) or white (VW)
- Low pressure drop design
- Cleanable metal screen

PRESSURE DROP PERFORMANCE

VW/VB106 Used in Supply Mode

VW/VB106 Used in Exhaust Mode

8" VINYL LOUVERED WALL VENTS (VT8)
- Taupe
- 1 1/2" channel for siding
- 4 removable flaps
- 1/4" plastic screen

PRESSURE DROP PERFORMANCE

VT8 Used in Supply Mode

VT8 Used in Exhaust Mode

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ACCESSORIES

See individual submittal pages for compatibility by model.

12" x 8" GALVANIZED LOUVERED WALL VENTS (VW12 x 8)

- Round duct connect
- Flush mount
- 1/2" metal screen

PRESSURE DROP PERFORMANCE

VW12X8 Used in Supply Mode

VW12X8 Used in Exhaust Mode

8" GALVANIZED HOODED WALL VENTS (FA8-G) & W8" GALVANNEAL HOODED WALL VENTS (FA8-P)

- Paintable (galvanneal only)
- 1/4" metal screen

PRESSURE DROP PERFORMANCE

FA8 Used in Supply Mode

FA8 Used in Exhaust Mode

RD20200402 Collected Test Data for Chart Generation.1.xlsx
ACCESSORIES

See individual submittal pages for compatibility by model.

ELECTRIC DUCT HEATERS
RH SERIES

RenewAire offers the highest-efficiency energy recovery ventilators (ERVs) on the market. However, during winter conditions, supply air from the ERV may be less than optimal for space conditions. By adding RenewAire’s round electric duct heater as an option to our single/multi-family and light commercial ERVs or configurable electric duct heaters as an accessory to our commercial ERVs, RenewAire can now heat supply air during cooler months to enhance indoor comfort, all via one package for ERVs and heaters from a single source.

Available on single/multi-family and light commercial units (some exceptions apply).

KEY BENEFITS

- **A single source reduces time and costs**: A single information source, a single purchase point and a single approval package for ERVs and heaters reduces design time and costs, and streamlines logistics for design engineers and contractors.

- **More flexibility**: RenewAire offers design engineers the capacity to specify ERVs with a matching heater to boost flexibility and provide heated air to a single space or multiple spaces.

- **Easy installation**: A ZERO clearance rating to combustibles allows designers and contractors to apply RenewAire heaters with less restrictions onsite.

- **Ultimate reliability**: RenewAire heaters come with our two-year warranty and unmatched reliability. Single-source responsibility offers contractors and end users peace of mind and a single call location for technical, start-up and commissioning questions.

- **Highly certified**: CSA certified and evaluated to the applicable ANSI/UL and CSA Standards, for use in the U.S. and Canada.
ELECTRIC DUCT HEATER (1–11.5 KW)

OPTIONS & ACCESSORIES

SERIES

ELECTRIC DUCT HEATER

SPECIFICATIONS

Heater Type:
Electric Duct Heater

Typical kW Range:
1–11.5 kW (1, 2, 3, 4, 5, 6, 8, 10, 11.5 kW)

Voltagess & Phase:
Single phase: 120, 208 and 240V

Control Voltage:
24VAC

Controllable Output Temperature Range:
RH-D: 5 to 131°F  
RH-W: -3 to 130°F

Standard Features:
Open-coil element
High-grade, nickel-chrome element wire
Modulating heat output (SCR control)
Vertical or horizontal operation
Automatic limit switch for primary
over-temperature protection
Manual reset limit switch for secondary
over-temperature protection
Airflow sensor
Standard control transformer: 24VAC
Corrosion-resistant galvanized steel
Round duct collars
High-voltage terminal block connections
Grounding lug
Mounting flanges

Accessories:
Temperature sensor: Duct mount (DS-600)
Digital time clock: wall mount (TC7D-W),
in exterior enclosure (TC7D-E)
Motion occupancy sensor/control:
  ceiling mount (MC-C), wall mount (MC-W)

Note: Electric duct heater designed for indoor ductwork installation only.

<table>
<thead>
<tr>
<th>Duct Collar Sizes (in.)</th>
<th>kW</th>
<th>Volts</th>
<th>Size</th>
<th>Width (X) (in.)</th>
<th>Height (Y) (in.)</th>
<th>Depth (Z) (in.)</th>
<th>Max. Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>1.2</td>
<td>120, 208, 240</td>
<td>A</td>
<td>11 1/2</td>
<td>8</td>
<td>11 1/2</td>
<td>10</td>
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<tr>
<td>8</td>
<td>3.4</td>
<td>208</td>
<td>B</td>
<td>11 1/2</td>
<td>10</td>
<td>13 1/2</td>
<td>15</td>
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<tr>
<td>8</td>
<td>3.4, 5</td>
<td>240</td>
<td>B</td>
<td>11 1/2</td>
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<td>13 1/2</td>
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<tr>
<td>10</td>
<td>3.4</td>
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<td>12</td>
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RH SERIES HEATER CAPACITY

<table>
<thead>
<tr>
<th>Minimum Airflow (CFM)</th>
<th>Heater Capacity (kW)</th>
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<tr>
<td>30</td>
<td>1.00</td>
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<tr>
<td>60</td>
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<td>345</td>
<td>11.50</td>
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SAFE OPERATING RANGE

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## RH SERIES CONFIGURATIONS

<table>
<thead>
<tr>
<th>Duct Collar Size (in)</th>
<th>Voltage (1P, 60 Hz)</th>
<th>Heater Capacity (kW)</th>
<th>Line Amps</th>
<th>Wire Gauge</th>
<th>Fuse Amps</th>
<th>Thermostat</th>
<th>Part Number</th>
<th>Configuration</th>
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Subject to change without notice: RENEWAIRE.COM | 1.800.627.4499
# SOUND DATA

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**Note:** *Hard ducted 1m to measurement area.
**Insulated flex duct 5’ to measurement area.

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**Note:** *Hard ducted 1m to measurement area.
**Insulated flex duct 5’ to measurement area.

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**Sound Data:** Actual sound levels in living spaces will vary and be dependent on installation conditions including unit location, duct type, duct size, and duct run length. Sones calculated using HVI 915 method from Lw values.

**Testing Method:** Testing conducted per the following standards: AHRI 230 & 260, ISO 9614-1 & 9614-2. Testing conducted internally at RenewAire.
**SOUND DATA**

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**Note:** *Hard ducted 1m to measurement area.*  
**Insulated flex duct 5' to measurement area.*

### EV PREMIUM L/LH

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**Note:** *Hard ducted 1m to measurement area.*  
**Insulated flex duct 5' to measurement area.*

---

Sound Data: Actual sound levels in living spaces will vary and be dependent on installation conditions including unit location, duct type, duct size, and duct run length. Sones calculated using HVI 915 method from Lw values.

### SOUND DATA

#### EV PREMIUM X/XH

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</table>

**Note:**
*Hard ducted 1m to measurement area.
**Insulated flex duct 5’ to measurement area.

**Sound Data:** Actual sound levels in living spaces will vary and be dependent on installation conditions including unit location, duct type, duct size, and duct run length. Sones calculated using HVI 915 method from Lw values.

**Testing Method:** Testing conducted per the following standards: AHRI 230 & 260, ISO 9614-1 & 9614-2.

Testing conducted internally at RenewAire.
### SL75H/SL75 – Ventilation Performance

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<th>Gross Airflow</th>
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### SL75H/SL75 – Energy Performance

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<th>Average Power Watts</th>
<th>Sensible Recovery Efficiency %</th>
<th>Adjusted Sensible Recovery Efficiency %</th>
<th>Net Moisture Transfer %</th>
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<td>L/s</td>
<td>CFM</td>
<td>Watts</td>
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### EV Premium SH/EV Premium S – Ventilation Performance

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### EV Premium MH/EV Premium M – Ventilation Performance

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### EV Premium MH/EV Premium M – Energy Performance

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### EV Premium LH/EV Premium L – Energy Performance

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### EV Premium XH/EV Premium X – Ventilation Performance

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<td>150</td>
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<td>300</td>
<td>1.2</td>
<td>141</td>
</tr>
<tr>
<td>350</td>
<td>1.4</td>
<td>133</td>
</tr>
<tr>
<td>400</td>
<td>1.6</td>
<td>124</td>
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<tr>
<td>500</td>
<td>2</td>
<td>107</td>
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<tr>
<td>600</td>
<td>2.4</td>
<td>90</td>
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</table>

### EV Premium XH/EV Premium X – Energy Performance

<table>
<thead>
<tr>
<th>Supply Temperature</th>
<th>Net Airflow</th>
<th>Average Power Watts</th>
<th>Sensible Recovery Efficiency %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L/s CFM</td>
<td></td>
<td>Adjusted Sensible Recovery Efficiency %</td>
</tr>
<tr>
<td></td>
<td>Watts</td>
<td></td>
<td>Net Moisture Transfer %</td>
</tr>
<tr>
<td>Heating</td>
<td>C° F°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0° 32°</td>
<td>48 102 13</td>
<td>78 80 65</td>
<td></td>
</tr>
<tr>
<td>0° 32°</td>
<td>93 197 116</td>
<td>71 75 53</td>
<td></td>
</tr>
<tr>
<td>0° 32°</td>
<td>115 244 193</td>
<td>67 73 45</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cooling</th>
<th>Total Recovery Efficiency %</th>
<th>Adjusted Total Recovery Efficiency %</th>
</tr>
</thead>
<tbody>
<tr>
<td>35° 95°</td>
<td>43</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Deficient IAQ is an EPA top-five health risk
People spend 90% of their time indoors
Indoor air can be 2–5 times and up to 100 times more polluted than outdoor air
ERVs improve IAQ and reduce costs

INCREASED VENTILATION BENEFITS

- Better Health
- Reduced Viral Spread
- Improved Cognitive Function
- Increased Productivity

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