Energy Recovery Ventilator

**Standard**

**SPECIFICATIONS**

- **Ventilation Type:** Static plate, heat and humidity transfer
- **Typical Airflow Range:** 40-110 CFM
- **Unit is HVI Tested/Certified per CSA C439 Protocol:** Using one L-35 G5 Core
- **Standard Features:**
  - White painted cabinet
  - Line-cord power supply
  - Low-voltage circuit for controls
  - Unit may be mounted in any orientation
  - Cross-core differential pressure ports
- **Control:**
  - Onboard 24 VAC transformer/relay package with switched dry contacts
- **Filters:**
  - Total qty. 2, MERV 8, spun-polyester media: 9 5/8" x 10 1/2" x 1"
- **Unit Dimensions & Weight:** 22 1/2" L x 11 3/4" W x 23 3/4" H, 36 lbs.

**Max. Shipping Dimensions & Weight (in carton):**
- 29" L x 22" W x 15" H, 40 lbs.

**Motor(s):**
- Qty. 2, Standard motorized impeller blowers

**Accessories:**
- Backdraft damper 6", 8"
- Automatic balancing damper 4", 5", 6"
- Louvered wall vent 6" - white, brown
- Carbon dioxide sensor/control - wall mount (CO2-W)
- Motion occupancy sensor/control - ceiling mount (MC-C), wall mount (MC-W)
- Percentage timer control (PTL)
- Push-button point-of-use controls (PBL), PTL req'd.
- Percentage timer control with furnace interlock (FM)
- MERV 13 filter - OA airstream
- Electric duct heater - RH series (1-11.5 kW);
  - Designed for indoor ductwork installation only

**Note:** Indirect Gas-Fired Duct Furnace is not available on the EV90.

**Download specification at:** renewaire.com/specifications

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**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>HP</th>
<th>Volts</th>
<th>HZ</th>
<th>Phase</th>
<th>Input Watts</th>
<th>FLA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.03</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>46 @ 90 CFM</td>
<td>0.35</td>
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</table>

**UNIT PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>ESP in H₂O</th>
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<tbody>
<tr>
<td>36</td>
<td>0.60</td>
</tr>
<tr>
<td>52</td>
<td>0.50</td>
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<td>67</td>
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</tr>
<tr>
<td>81</td>
<td>0.30</td>
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<tr>
<td>94</td>
<td>0.20</td>
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<tr>
<td>108</td>
<td>0.10</td>
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</table>

**CORE PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>Temp EFF%</th>
<th>Total EFF% Winter/Summer*</th>
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</thead>
<tbody>
<tr>
<td>36</td>
<td>78</td>
<td>75/65</td>
</tr>
<tr>
<td>52</td>
<td>74</td>
<td>69/58</td>
</tr>
<tr>
<td>67</td>
<td>70</td>
<td>65/53</td>
</tr>
<tr>
<td>81</td>
<td>67</td>
<td>61/49</td>
</tr>
<tr>
<td>94</td>
<td>64</td>
<td>58/45</td>
</tr>
<tr>
<td>108</td>
<td>61</td>
<td>55/42</td>
</tr>
</tbody>
</table>

**Note:** These are core-only ratings and are not HVI certified.

HVI ratings apply to complete units only.

See HVI certification ratings on pg. 24 of Single/Multi-Family Catalog.

**UNIT DIMENSIONS**

**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/FA airstream.

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**ABBREVIATIONS**

EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh 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.