As buildings become more airtight due to better construction methodologies, the need for increased and balanced ventilation is critical. Without it, internally generated contaminants accumulate and cause deficient indoor air quality (IAQ), which leads to significant health and cognitive problems for occupants. Industry standards are changing to combat deficient IAQ, and codes that adopt these new standards are driving the application of Energy Recovery in ventilation strategies. Deficient IAQ is a serious problem, especially considering:
- On average, Americans spend 90% of their time indoors
- The EPA found that indoor air may be 2-5 times—and occasionally greater than 100 times—more polluted than outdoor air
- The EPA ranks indoor air pollutants as a top-five environmental health risk to occupants

Health problems: Acute allergies, headaches, coughs, asthma, skin irritations and breathing difficulties, as well as chronic illnesses such as cancer, liver disease, kidney damage and nervous-system failure.

Cognitive impairment: Studies by the Harvard School of Public Health and the Lawrence Berkeley National Laboratory found that carbon dioxide (CO₂)—an indoor air contaminant—negatively impacted thinking and decision-making at levels commonly found inside homes and buildings.

ADVERSE EFFECTS OF DEFICIENT IAQ

Deficient IAQ has numerous adverse effects on the health and cognitive function of building occupants.

ABOUT RENEWAIRE

For over 30 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) & 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.
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SPECIFICATIONS & DIMENSIONS
OPTIONS & ACCESSORIES
CERTIFICATIONS & PERFORMANCE
ORDERING & SUPPORT

---

### BR SERIES - Unitary (Two Duct) ERV

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TYPE</th>
<th>CFM RANGE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR70 - STANDARD</td>
<td>Two-Duct Connection</td>
<td>40-70 CFM</td>
<td>8</td>
</tr>
<tr>
<td>BR130 - STANDARD</td>
<td>Two-Duct Connection</td>
<td>50-140 CFM</td>
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</table>

### SL SERIES - Unitary ERV

<table>
<thead>
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<th>MODEL</th>
<th>TYPE</th>
<th>CFM RANGE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL70H - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection</td>
<td>51-76 CFM*</td>
<td>4-5</td>
</tr>
<tr>
<td>SL70L - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection</td>
<td>51-76 CFM*</td>
<td>6-7</td>
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<tr>
<td></td>
<td><strong>Continuous mode range</strong></td>
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</tbody>
</table>

### GR SERIES - Unitary ERV

<table>
<thead>
<tr>
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<th>TYPE</th>
<th>CFM RANGE</th>
<th>PAGE</th>
</tr>
</thead>
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<tr>
<td>GR90 - STANDARD</td>
<td>Contractor-Grade, Four-Duct Connection</td>
<td>40-110 CFM</td>
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</tr>
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</table>

### EV SERIES - Unitary ERV

<table>
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<th>TYPE</th>
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<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EV90 - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection</td>
<td>40-110 CFM</td>
<td>11</td>
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<tr>
<td>EV90P - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection</td>
<td>40-110 CFM</td>
<td>12</td>
</tr>
<tr>
<td>EV130 - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection</td>
<td>50-140 CFM</td>
<td>13</td>
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<td>EV200 - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection</td>
<td>100-200 CFM</td>
<td>14</td>
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<td>EV240 - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection</td>
<td>100-240 CFM</td>
<td>15</td>
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<tr>
<td>EV300 - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection</td>
<td>150-300 CFM</td>
<td>16</td>
</tr>
</tbody>
</table>

*Continuous mode range
RenewAire is a pioneer in enhancing IAQ while maximizing sustainability through enthalpic-core, static-plate Energy Recovery Ventilators (ERVs) that optimize energy efficiency, lower costs by reducing HVAC loads and therefore reduce environmental footprints. Our ERV technology preconditions incoming air with the otherwise-wasted energy (heat and humidity) of the exhaust air going out—all while the airstreams are kept physically separate as certified by the Air Conditioning, Heating and Refrigeration Institute (AHRI) for low-to-zero Exhaust Air Transfer Ratio (EATR) at typical static pressure differentials. As the pioneer of static-plate core technology in North America, RenewAire is the largest ERV producer in the USA.

OPTIMIZING ENERGY EFFICIENCY
Energy efficiency is optimized by preconditioning the outside air coming in with the otherwise-wasted heat and humidity of the exhaust air going out. This exchange of energy moderates temperatures and moisture, decreases HVAC equipment needs, drives operational efficiencies and conserves energy.

REDUCING HVAC LOADS
RenewAire technology reduces HVAC loads during both winter and summer. In turn, HVAC equipment size and needs can be decreased and furnaces and air conditioners can be smaller. This process ensures efficient operations and keeps both energy use and costs low, while at the same time maintaining high-level IAQ.

MINIMIZING ENVIRONMENTAL IMPACT
The combination of less energy used and HVAC loads being reduced conserves resources. Further, our Madison, WI plant is 100% powered by renewable wind energy, and is one of the few buildings worldwide to be LEED® Gold and Green Globes certified, as well as having achieved ENERGY STAR Building status. This commitment to sustainable manufacturing minimizes our overall production and distribution environmental footprint.
ABOUT RENEWAIRE

ACHIEVE SUSTAINABLE IAQ

Minimizing Environmental Impact

The combination of less energy used and HVAC loads being reduced conserves resources. Further, our Madison, WI plant is 100% powered by renewable wind energy, and is one of the few buildings worldwide to be LEED® Gold and Green Globes certified, as well as having achieved ENERGY STAR Building status. This commitment to sustainable manufacturing minimizes our overall production and distribution environmental footprint.

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Stale Room Air Outside Air

INSIDE

Fresh Air Enters

OUTSIDE

Stale Room Air Exits

Fixed Partition and Spacer Plates (proprietary resin and composite media)

RenewAire is a pioneer in enhancing IAQ while maximizing sustainability through enthalpic-core, static-plate Energy Recovery Ventilators (ERVs) that optimize energy efficiency, lower costs by reducing HVAC loads and therefore reduce environmental footprints. Our ERV technology preconditions incoming air with the otherwise-wasted energy (heat and humidity) of the exhaust air going out—all while the airstreams are kept physically separate as certified by the Air Conditioning, Heating and Refrigeration Institute (AHRI) for low-to-zero Exhaust Air Transfer Ratio (EATR) at typical static pressure differentials. As the pioneer of static-plate core technology in North America, RenewAire is the largest ERV producer in the USA.

WHY RENEWAIRE IS PREFERRED

BEST VALUE

- Priced competitively against other ERV models
- Due to competitive pricing and decreased costs, payback is short and ROI is maximized
- Contractors can pass these significant savings along to their customers

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 and a five-year warranty for residential products
- Superior product quality results in paramount reliability and longevity

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

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

- See individual catalog submittal for certification details:
  - UL
  - cUL
  - ETL
  - HVI
  - AHRI
SL 70H

Energy Recovery Ventilator
EC Motor Standard

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Continuous Operation Airflow: 51-76 CFM
Boost Mode Airflow: 76-94 CFM

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

Standard Features:
Gray painted cabinet
Hard wiring in electrical box
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 Dimensions & Weight:
27 1/4" L x 20 3/8" W x 9 1/2" H
32 lbs.

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

Note: Indirect Gas-Fired Duct Furnace is not available on the SL70H.

Download specification at: renewaire.com/specifications

Max. Shipping Dimensions & Weight (in carton):
29 1/2" L x 22 1/2" W x 11 1/2" H
30 lbs.

Motor(s):
Qty. 2, 48V DC motorized impeller packages

EC MOTOR OPERATING RANGE

<table>
<thead>
<tr>
<th>Airflow (CFM)</th>
<th>External Static Pressure (Inches Water Column)</th>
<th>Unit Power Consumption (Watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>82</td>
<td>0.1</td>
<td>62</td>
</tr>
<tr>
<td>77</td>
<td>0.2</td>
<td>60</td>
</tr>
<tr>
<td>72</td>
<td>0.3</td>
<td>59</td>
</tr>
<tr>
<td>67</td>
<td>0.4</td>
<td>58</td>
</tr>
<tr>
<td>61</td>
<td>0.5</td>
<td>56</td>
</tr>
<tr>
<td>54</td>
<td>0.6</td>
<td>54</td>
</tr>
<tr>
<td>45</td>
<td>0.7</td>
<td>51</td>
</tr>
<tr>
<td>34</td>
<td>0.8</td>
<td>47</td>
</tr>
<tr>
<td>108</td>
<td>0.1</td>
<td>104</td>
</tr>
<tr>
<td>102</td>
<td>0.2</td>
<td>102</td>
</tr>
<tr>
<td>95</td>
<td>0.3</td>
<td>100</td>
</tr>
<tr>
<td>91</td>
<td>0.4</td>
<td>99</td>
</tr>
<tr>
<td>89</td>
<td>0.5</td>
<td>97</td>
</tr>
<tr>
<td>85</td>
<td>0.6</td>
<td>96</td>
</tr>
<tr>
<td>81</td>
<td>0.7</td>
<td>94</td>
</tr>
<tr>
<td>76</td>
<td>0.8</td>
<td>92</td>
</tr>
<tr>
<td>70</td>
<td>0.9</td>
<td>89</td>
</tr>
<tr>
<td>61</td>
<td>1.0</td>
<td>85</td>
</tr>
</tbody>
</table>

Note: Watts is for the entire unit.
Note: Airflow performance includes effect of clean, standard filter supplied with unit.
Note: Refer to CORES for specific operating point electrical data.

ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Watts</th>
<th>Volts</th>
<th>HZ</th>
<th>Phase</th>
<th>FLA per motor</th>
<th>Min. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>96</td>
<td>120</td>
<td>60</td>
<td>1</td>
<td>2</td>
<td>10</td>
<td>15</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.

Specifications may be subject to change without notice.
SL70H Energy Recovery Ventilator  EC Motor Standard

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.

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.

SL-SERIES SPECIFICATIONS & DIMENSIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case</td>
<td>9 1/8&quot;</td>
</tr>
<tr>
<td>Overall</td>
<td>9 1/2&quot;</td>
</tr>
<tr>
<td>7 5/8&quot; Minimum Service Area (Door can be removed from hinges.)</td>
<td>18 5/8&quot;</td>
</tr>
<tr>
<td>9 1/2&quot; Overall</td>
<td>21 1/4&quot; Overall (With Ceiling Brackets)</td>
</tr>
<tr>
<td>9 1/8&quot; Case</td>
<td>27 1/4&quot; Overall</td>
</tr>
<tr>
<td>2 1/8&quot; Minimum Latch Clearance</td>
<td>2 1/4&quot; Typ.</td>
</tr>
<tr>
<td>Power Outlet Box with 3' of Flexible Conduit</td>
<td>4 3/8&quot; Typ.</td>
</tr>
</tbody>
</table>

TOP VIEW

LEFT VIEW (Hard Mount Depicted)

FRONT VIEW

RIGHT VIEW (Hanging Mount Depicted)
**Energy Recovery Ventilator**  
**EC Motor Standard**

### Specifications

**Ventilation Type:** Static plate, heat and humidity transfer  
**Continuous Operation Airflow:** 51-76 CFM  
**Boost Mode Airflow:** 76-94 CFM  
**Unit is HVI Tested/Certified per CSA C439 Protocol:** Using one L-30 G5 Core  
**Standard Features:**  
- Gray painted cabinet  
- Line-cord power supply  
- 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 Dimensions & Weight:**  
- 27 1/4" L x 20 3/8" W x 9 1/2" H  
- 32 lbs.  
**Max. Shipping Dimensions & Weight (in carton):**  
- 29 1/2" L x 22 1/2" W x 11 1/2" H  
- 38 lbs.  
**Motor(s):** Qty. 2, 48V DC motorized impeller packages  
**Accessories:**  
- Backdraft damper 6", 8"  
- Automatic balancing damper 4", 5", 6"  
- Louvered wall vent 6" - white, brown  
- 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 - ceiling mount (MC-C), wall mount (MC-W)  
- Percentage timer control (PTL)  
- Percentage timer control with furnace interlock (FM)  
- Push-button point-of-use controls (PBL), PTL req'd.  
- MERV 13 filter - OA airstream  
- 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>
</tr>
</thead>
<tbody>
<tr>
<td>96</td>
<td>120</td>
<td>60</td>
<td>1</td>
</tr>
</tbody>
</table>

**Note:** Indirect Gas-Fired Duct Furnace is not available on the SL70L.

---

**Sample Points Depicted in Larger Dots**

<table>
<thead>
<tr>
<th>Airflow (CFM)</th>
<th>External Static Pressure (Inches Water Column)</th>
<th>Unit Power Consumption (Watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>82</td>
<td>0.1</td>
<td>62</td>
</tr>
<tr>
<td>77</td>
<td>0.2</td>
<td>60</td>
</tr>
<tr>
<td>72</td>
<td>0.3</td>
<td>59</td>
</tr>
<tr>
<td>67</td>
<td>0.4</td>
<td>58</td>
</tr>
<tr>
<td>61</td>
<td>0.5</td>
<td>56</td>
</tr>
<tr>
<td>54</td>
<td>0.6</td>
<td>54</td>
</tr>
<tr>
<td>45</td>
<td>0.7</td>
<td>51</td>
</tr>
<tr>
<td>34</td>
<td>0.8</td>
<td>47</td>
</tr>
<tr>
<td>108</td>
<td>0.1</td>
<td>104</td>
</tr>
<tr>
<td>102</td>
<td>0.2</td>
<td>102</td>
</tr>
<tr>
<td>95</td>
<td>0.3</td>
<td>100</td>
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<tr>
<td>89</td>
<td>0.4</td>
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<td>70</td>
<td>0.8</td>
<td>92</td>
</tr>
<tr>
<td>61</td>
<td>0.9</td>
<td>89</td>
</tr>
</tbody>
</table>

**Note:** Watts is for the entire unit.  
**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.  
**Note:** Refer to CORES for specific operating point electrical data.

### Core Performance

<table>
<thead>
<tr>
<th>Airflow (CFM)</th>
<th>Sensible EFF%</th>
<th>Total EFF% Winter/Summer*</th>
<th>Airflow (CFM)</th>
<th>Sensible EFF%</th>
<th>Total EFF% Winter/Summer*</th>
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</thead>
<tbody>
<tr>
<td>82</td>
<td>73</td>
<td>67/52</td>
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<td>68</td>
<td>61/44</td>
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<td>82</td>
<td>78/65</td>
<td>76</td>
<td>74</td>
<td>68/53</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.**
**SL70L Energy Recovery Ventilator EC Motor Standard**

**SL-SERIES SPECIFICATIONS & 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.

**ABBRévIATIONS**

- 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** (Hard Mount Depicted)

**FRONT VIEW**

**RIGHT VIEW** (Hanging Mount Depicted)

**PRESSURE PORTS**

- 4 Typ.

**CONTROL TERMINALS**

**CASE**

- 7 7/8" Minimum Service Area
- 9 1/2" Case

**OVERALL**

- 21 1/4" Overall (With Ceiling Brackets)

**LATCH CLEARANCE**

- 2 1/8" Minimum

**SWING**

- 20 3/8" Overall
- 22 7/8" Minimum Service Area
- 19 7/8" Case

**LINE CORD**

- 34" Typ.

**CASE**

- 7 5/8" Minimum Service Area
- 9 1/2" Overall

**SERVICE AREA**

- 18 7/8"

---

**VENTILATOR DIMENSIONS**

- **SL70L**
- **EC Motor Standard**

**MODEL:** SL70L

**DRAWING TYPE:** Unit Dimension

**VERSION:** FEB19

---

**ABBREVIATIONS**

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

**SPECIFICATIONS**

**Ventilation Type:** Static plate, heat and humidity transfer  
**Typical Airflow Range:** 40-70 CFM  
**Unit is Tested to CSA C439 Protocol:** Using one L-30 65 Core  
**Standard Features:** White painted cabinet, Line-cord power supply, Built-in control, Unit may be mounted in any orientation, Cross-core differential pressure ports  
**Control:** Built-in proportional runtime control and switched terminals for furnace/AC interconnect  
**Filters:** Total qty. 2, MERV 8, spun-polyester media: 7 1/2" x 10 1/2" x 1"  

**Unit Dimensions & Weight:**  
- **29 3/4" L x 19 1/4" W x 10 3/4" H**  
- **38 lbs.**  

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

**Motor(s):**  
- Qty. 1, Double-shaft standard motor  

**Accessories:**  
- Backdraft damper 6", 8"  
- Automatic balancing damper 4", 5", 6"  
- Louvered wall vent 6" - white, brown  
- Exterior thru-the-wall installation kit  
- Duct collar kit (two collars)  
- 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 BR70.

Download specification at: renewaire.com/specifications

---

**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>0.08</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>94 @ 69 CFM</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**UNIT PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>ESP in H₂O</th>
</tr>
</thead>
<tbody>
<tr>
<td>46</td>
<td>0.40</td>
</tr>
<tr>
<td>59</td>
<td>0.30</td>
</tr>
<tr>
<td>73</td>
<td>0.20</td>
</tr>
<tr>
<td>86</td>
<td>0.10</td>
</tr>
</tbody>
</table>

**CORE PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>Temp EFF% Winter/Summer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>46</td>
<td>75/62</td>
</tr>
<tr>
<td>59</td>
<td>72/58</td>
</tr>
<tr>
<td>73</td>
<td>69/54</td>
</tr>
<tr>
<td>86</td>
<td>66/51</td>
</tr>
</tbody>
</table>

**Note:** These are core-only ratings and are not HVI certified. See performance ratings per CSA C439 on pg. 25 of Single/Multi-Family Catalog.

---

**UNIT DIMENSIONS**

**AIRFLOW ORIENTATION**

Available as shown in dimension drawing.

**UNIT MOUNTING & APPLICATION**

Can be mounted in any orientation. If duct-mounted, airstreams cannot be switched. If mounted with exterior Thru-the-wall installation kit, the RA/EA airstreams are switched with the OA/FA airstreams. If four ducts are connected using duct collar kit, airstreams may be switched.

---

Specifications may be subject to change without notice.
Energy Recovery Ventilator
Standard

**SPECIFICATIONS**

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

**Typical Airflow Range:** 50-140 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
Built-in control
Unit may be mounted in any orientation
Cross-core differential pressure ports

**Control:**
Built-in proportional runtime control and switched terminals for furnace/AC interconnect

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

**Unit Dimensions & Weight:**
33 1/2" L x 19 1/4" W x 13 1/2" H
48 lbs.

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

**Motor(s):**
Qty. 1, Double-shaft standard motor

**Accessories:**
Backdraft damper 6", 8"
Automatic balancing damper 4", 5", 6" Louvered wall vent 6" - white, brown
Exterior thru-the-wall installation kit
Duct collar kit (two collars)
MERV 13 filter - OA airstream
Electric duct heater - RH series (1-11.5 kW); designed for indoor ductwork installation only

**Specifications may be subject to change without notice.**

**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>0.1</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>121 @ 124 CFM</td>
<td>1.3</td>
</tr>
</tbody>
</table>

**UNIT PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>ESP in H₂O</th>
</tr>
</thead>
<tbody>
<tr>
<td>52</td>
<td>0.70</td>
</tr>
<tr>
<td>69</td>
<td>0.60</td>
</tr>
<tr>
<td>94</td>
<td>0.50</td>
</tr>
<tr>
<td>113</td>
<td>0.40</td>
</tr>
<tr>
<td>132</td>
<td>0.30</td>
</tr>
<tr>
<td>141</td>
<td>0.20</td>
</tr>
<tr>
<td>148</td>
<td>0.10</td>
</tr>
</tbody>
</table>

**CORE PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>Temp EFF% Winter/Summer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>52</td>
<td>82</td>
</tr>
<tr>
<td>69</td>
<td>80</td>
</tr>
<tr>
<td>94</td>
<td>76</td>
</tr>
<tr>
<td>113</td>
<td>74</td>
</tr>
<tr>
<td>132</td>
<td>71</td>
</tr>
<tr>
<td>141</td>
<td>70</td>
</tr>
<tr>
<td>148</td>
<td>69</td>
</tr>
</tbody>
</table>

**UNIT MOUNTING & APPLICATION**

Can be mounted in any orientation. If duct-mounted, airstreams cannot be switched. If mounted with exterior Thru-the-wall installation kit, the RA/EA airstreams are switched with the OA/FA airstreams.

If four ducts are connected using duct collar kit, airstreams may be switched.

**Note:** Indirect Gas-Fired Duct Furnace is not available on the BR130.

**UNIT DIMENSIONS**

**UNIT MOUNTING & APPLICATION**

Available as shown in dimension drawing.

**UNIT MOUNTING & APPLICATION**

Can be mounted in any orientation. If duct-mounted, airstreams cannot be switched. If mounted with exterior Thru-the-wall installation kit, the RA/EA airstreams are switched with the OA/FA airstreams.

If four ducts are connected using duct collar kit, airstreams may be switched.

**Note:** Indirect Gas-Fired Duct Furnace is not available on the BR130.

**Download specification at:** renewaire.com/specifications
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:**
Galvanized cabinet
Terminal strip hard wiring in ebox (no line cord)
Unit may be mounted in any orientation
Cross-core differential pressure ports

**Control:**
Can use any switched line-voltage power supply (no low-voltage controls)

**Filters:**
Total qty. 2, MERV 8, spun-polyester media: 9 5/8" x 10 1/2" x 1"

**Unit Dimensions:**
22 1/2" L x 11 3/4" W x 23 3/4" H

**Unit Weight:**
36 lbs.

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

**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

120V line voltage Honeywell control
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 GR90.

**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>
</tr>
</tbody>
</table>

**UNIT PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>ESP in H₂O</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>0.60</td>
</tr>
<tr>
<td>52</td>
<td>0.50</td>
</tr>
<tr>
<td>67</td>
<td>0.40</td>
</tr>
<tr>
<td>81</td>
<td>0.30</td>
</tr>
<tr>
<td>94</td>
<td>0.20</td>
</tr>
<tr>
<td>108</td>
<td>0.10</td>
</tr>
</tbody>
</table>

**CORE PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>Temp EFF%</th>
<th>Total EFF%</th>
</tr>
</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.

**ABBREVIATIONS**
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to be introduced

**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.

Specifications may be subject to change without notice.
**EV & GR-SERIES**

**SPECIFICATIONS & DIMENSIONS**

---

### EV 90 Indoor Unit

**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)
- 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

**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>
</tr>
</tbody>
</table>

**UNIT PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>ESP in H₂O</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>0.60</td>
</tr>
<tr>
<td>52</td>
<td>0.50</td>
</tr>
<tr>
<td>67</td>
<td>0.40</td>
</tr>
<tr>
<td>81</td>
<td>0.30</td>
</tr>
<tr>
<td>94</td>
<td>0.20</td>
</tr>
<tr>
<td>108</td>
<td>0.10</td>
</tr>
</tbody>
</table>

**UNIT MOUNTING & APPLICATION**

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

**UNSTATED OR OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.”
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-100 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

Controls:
Onboard 24 VAC transformer/relay package
with switched dry contacts

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

Unit Dimensions & Weight:
22 1/2" L x 24" W x 23 3/4" H
51 lbs.

Max. Shipping Dimensions & Weight (in carton):
33" L x 22" W x 29" H
65 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)
IAQ sensor - wall mount (IAQ-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

Download specification at:
renewaire.com/specifications

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>44 @ 90 CFM</td>
<td>0.35</td>
</tr>
</tbody>
</table>

Unit Performance

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>ESP in H₂O</th>
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</thead>
<tbody>
<tr>
<td>42</td>
<td>0.60</td>
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<tr>
<td>56</td>
<td>0.50</td>
</tr>
<tr>
<td>73</td>
<td>0.40</td>
</tr>
<tr>
<td>87</td>
<td>0.30</td>
</tr>
<tr>
<td>99</td>
<td>0.20</td>
</tr>
<tr>
<td>108</td>
<td>0.10</td>
</tr>
</tbody>
</table>

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.

Energy Recovery Ventilator
Standard

Specifications & Dimensions

Specifications may be subject to change without notice.
**EV 130**

**INDOOR UNIT**

Download specification at: renewaire.com/specifications

---

**Energy Recovery Ventilator**

**Standard**

**SPECIFICATIONS**

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

**Typical Airflow Range:** 50-140 CFM

**Unit is HVI Tested/Certified per CSA C439**
Protocol: Using one L-50 GS 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

**Controls:**
Onboard 24 VAC transformer/relay package

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

**Unit Dimensions & Weight:**
- 33 1/2" L x 13 1/4" W x 20" H
- 48 lbs.

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

**Motor(s):**
- Qty. 1, Double-shaft standard motor

**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)
- IAQ sensor - wall mount (IAQ-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);**
- MERV 13 filter - OA airstream

**Accessories:**
- 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);**
- MERV 13 filter - OA airstream

**Core Performance**

**Total EFF% Winter/Summer**

**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>0.1</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>102 @ 130 CFM</td>
<td>1.3</td>
</tr>
</tbody>
</table>

---

**Energy Recovery Ventilation**

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

**Typical Airflow Range:** 50-140 CFM

**Unit is HVI Tested/Certified per CSA C439**
Protocol: Using one L-50 GS 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

**Controls:**
- Onboard 24 VAC transformer/relay package

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

**Unit Dimensions & Weight:**
- 33 1/2" L x 13 1/4" W x 20" H
- 48 lbs.

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

**Motor(s):**
- Qty. 1, Double-shaft standard motor

**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)
- IAQ sensor - wall mount (IAQ-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);**
- MERV 13 filter - OA airstream

**Accessories:**
- 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);**
- MERV 13 filter - OA airstream

**Core Performance**

**Total EFF% Winter/Summer**

---

**UNIT PERFORMANCE**

**Aerflow CFM**

<table>
<thead>
<tr>
<th>ESP in H₂O</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.60</td>
</tr>
<tr>
<td>0.50</td>
</tr>
<tr>
<td>0.40</td>
</tr>
<tr>
<td>0.30</td>
</tr>
<tr>
<td>0.20</td>
</tr>
<tr>
<td>0.10</td>
</tr>
</tbody>
</table>

**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.

---

**SPECIFICATIONS & DIMENSIONS**

---

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

**Ev200 Standard**

**Specifications**

- **Ventilation Type:** Static plate, heat and humidity transfer
- **Typical Airflow Range:** 100-200 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
  - Low-voltage circuit for controls
  - Unit may be mounted in any orientation
  - Cross-core differential pressure ports
- **Controls:**
  - Onboard 24 VAC transformer/relay package
  - Filters: Total qty. 2, MERV 8, spun-polyester media:
    - 10 1/2" x 21 3/4" x 1 1/2"
- **Unit Dimensions & Weight:**
  - 33 1/2" L x 1/4" W x 20" H
  - 68 lbs.
- **Max. Shipping Dimensions & Weight (on pallet):**
  - 34" L x 44" W x 34" H
  - 110 lbs.
- **Motor(s):**
  - Qty. 1, Double-shaft standard motor
- **Accessories:**
  - Backdraft damper 6", 8"
  - Automatic balancing damper 4", 5", 6"
  - 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
  - Carbon dioxide sensor/control - wall mount (CO2-W)
  - IAQ sensor - wall mount (IAQ-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**

**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>0.1</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>157 @ 181 CFM</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**UNIT PERFORMANCE**

- **Airflow CFM:**
  - 122
  - 149
  - 168
  - 176
  - 186
  - 192
  - 207
- **ESP in H₂O:**
  - 0.70
  - 0.60
  - 0.50
  - 0.40
  - 0.30
  - 0.20
  - 0.10

**CORE PERFORMANCE**

- **Airflow CFM:**
  - 122
  - 149
  - 168
  - 176
  - 186
  - 192
  - 207
- **Temp EFF%:**
  - 81
  - 79
  - 78
  - 78
  - 77
  - 77
  - 76
- **Total EFF% Winter/Summer*:**
  - 77/64
  - 75/61
  - 73/59
  - 72/58
  - 72/58
  - 71/57
  - 70/56

**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.

**Note:** Indirect Gas-Fired Duct Furnace is not available on the Ev200.

Specifications may be subject to change without notice.

Download specification at: renewaire.com/specifications
Energy Recovery Ventilator
Standard

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 100-240 CFM

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

Standard Features:
White painted cabinet
Line-card power supply
Low-voltage circuit for controls
Unit may be mounted in any orientation
Cross-core differential pressure ports

Controls:
Onboard 24 VAC transformer/relay package
with switched dry contacts

Filters:
Total qty. 8, MERV 8, spun-polyester media:
10 1/2" x 23 3/4" x 1"

Unit Dimensions & Weight:
33 1/2" L x 24" W x 20" H
70 lbs.

Max. Shipping Dimensions & Weight (on pallet):
34" L x 44" W x 34" H
112 lbs.

Motor(s):
Qty. 1, Double-shaft standard motor

Accessories:
Backdraft damper 6", 8"
Automatic balancing damper 4", 5", 6"
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
Carbon dioxide sensor/control - wall mount (CO2-W)
IAQ sensor - wall mount (IAQ-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 EV240.

ELECTRICAL DATA

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<tr>
<th>HP</th>
<th>Volts</th>
<th>HZ</th>
<th>Phase</th>
<th>Input Watts</th>
<th>FLA</th>
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NOTE

Specifications may be subject to change without notice.

Download specification at: renewaire.com/specifications

UNIT PERFORMANCE

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<thead>
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<th>Airflow CFM</th>
<th>ESP in H₂O</th>
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<td>0.80</td>
</tr>
<tr>
<td>195</td>
<td>0.70</td>
</tr>
<tr>
<td>214</td>
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<td>265</td>
<td>0.10</td>
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</table>

UNIT DIMENSIONS

ABBREVIATIONS
EA: Exhauet 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. LESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
**Ev 300**

**Indoor Unit**

Download specification at: renewaire.com/specifications

---

**Specifications**

- **Ventilation Type:** Static plate, heat and humidity transfer
- **Typical Airflow Range:** 150-300 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
  - Low-voltage circuit for controls
  - Unit may be mounted in any orientation
  - Cross-core differential pressure ports
- **Controls:**
  - Onboard 24 VAC transformer/relay package with switched dry contacts
- **Filters:**
  - Total qty. 2, MERV 8, spun-polyester media:
  - 10 1/2" x 21 3/4" x 1"
- **Unit Dimensions & Weight:**
  - 33 3/4" L x 24" W x 20" H
  - 72 lbs.

**Core Performance**

- **Max. Shipping Dimensions & Weight (on pallet):**
  - 34" L x 44" W x 34" H
  - 115 lbs.
- **Motor(s):**
  - Qty. 1, Double-shaft standard motor
- **Accessories:**
  - Backdraft damper 6", 8"
  - Automatic balancing damper 4", 5", 6"
  - Louvered wall vent 8" - taupe vinyl, galvanized, paintable galvanal
  - Louvered wall vent with 8" round duct connection - 12" W x 8" H
  - Carbon dioxide sensor/control - wall mount (CO2-W)
  - IAQ sensor - wall mount (IAQ-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

**Electrical Data**

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<thead>
<tr>
<th>HP</th>
<th>Volts</th>
<th>HZ</th>
<th>Phase</th>
<th>Input Watts</th>
<th>FLA</th>
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</thead>
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**Unit Performance**

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<td>295</td>
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<td>311</td>
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**Core Performance**

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<th>Temp EFF%</th>
<th>Total EFF% Winter/Summer*</th>
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<tr>
<td>191</td>
<td>77</td>
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<td>256</td>
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<tr>
<td>311</td>
<td>69</td>
<td>62/46</td>
</tr>
</tbody>
</table>

**Notes:**
- 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 Mouting & Application**

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

**Abbreviations**

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

**Installation Orientation**

Unit may be installed in any orientation.

**Note:**
1. Unless otherwise specified, dimensions are rounded to the nearest eight of an inch.
2. Specifications may be subject to change without notice.

**Specifications may be subject to change without notice.**
BR Series (BR70 and BR130)

- Bottom Hung Lengthwise
- Bottom Hung Crosswise
- Side Hung
- Return Drop Hung

EV Series (EV130, EV200, EV240, and EV300)

- Separate Room Air Pick-up - Fresh Air to Furnace Return Air Trunkline
- Separate Air and Fresh Air Supply

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.

Furnace Return Air Back into Supply Air

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

EV Series (EV90 and EV90P)

- 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.

SL Series (SL70H and SL70L)

- Furnace Return Air Back into Return Air

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

EA Exhaust Air; OA Outside Air; RA Room Air; SA Supply Air; FA Fresh Air
## Accessories

See individual submittal pages for availability 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. RenewAire single/multi-family units are available standard with interface and controls.

**BR Series:** Built-in percentage run-time with furnace interlock

**GR Series:** 120V line voltage controls

**EV Series:** Percentage run timer or percentage run timer with furnace interlock and push button lighted controls

- **Digital time clock, CO2 sensors, IAQ sensors and motion occupancy sensors** - Can be applied with external 24V supply

**SL Series:** Built-in low voltage transformer for use with percentage run timer or push button lighted controls for on/off, continuous and/or boost mode operation

- **Digital time clock, CO2 sensors, IAQ sensors and motion occupancy sensors** - Can be applied with internal low voltage transformer

### Percentage Timer

**Percentage Timer (PTL)**

Primary control for SL70, EV90, EV90P, EV130, EV200, EV240 & EV300

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

![PTL Control](image)

### Percentage Timer with Furnace Interlock (FM)

Alternate primary control for SL70, EV90, EV90P, EV130, EV200, EV240 & EV300

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

![FM Control](image)

### Push-Button Point of Use Timer (PBL)

Secondary control used in combination with PTL control for SL70, EV90, EV90P, EV130, EV200, EV240 & EV300

- Push-button control turns on unit from bathrooms or other intermittent exhaust locations
- One-touch, 20-minute run-time
- Push 2 times for 40 minutes or 3 times for 60 minutes
- Two-wire, low-voltage connection to PTL control

![PBL Control - requires PTL Control](image)

Specifications may be subject to change without notice.
**ACCESSORIES**

See individual submittal pages for availability by model.

### Controls

**DIGITAL TIME CLOCK (TC7D-W, TC7D-E)**
- Up to 8 on/off cycles per day or 56 per week
- 24 VAC power requirement
- 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
- 24 VAC power requirement
- 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
- 24 VAC power required
- Internal menu for easy set-up

### MOTION OCCUPANCY SENSORS (MC-C, MC-W)
- Passive infrared sensor
- Adjustable time-off delay to 30 minutes
- 24 VAC power requirement
- 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.

Specifications may be subject to change without notice.
OPTIONS & ACCESSORIES

ACCESSORIES

See individual submittal pages for availability by model.

Paint

EXTERIOR PAINT

• Custom colors available

Filters

MERV 13 FILTERS

• Available on all single/multi-family ERVs
• Electrostatically charged filter fibers
• Single die-cut construction frame
• Moisture-resistant construction
• High holding capacity design
• Expanded metal reinforcement

OPTIONS & ACCESSORIES

Paint

EXTERIOR PAINT

• Custom colors available

Filters

MERV 13 FILTERS

• Available on all single/multi-family ERVs
• Electrostatically charged filter fibers
• Single die-cut construction frame
• Moisture-resistant construction
• High holding capacity design
• Expanded metal reinforcement

Mounting

WALL BRACKET KIT (SL ONLY)

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

Specifications may be subject to change without notice.
ACCESSORIES

See individual submittal pages for availability by model.

Louvered Wall Vents

6" VINYL (VB106 & VW106)

- Brown (VB) or white (VW)
- Low pressure drop design
- Cleanable metal screen

8" VINYL (VT8)

- Taupe
- 1-1/2" channel for siding
- 4 removable flaps
- 1/4" plastic screen

12"X 8"X 8" GALVANIZED (VW12X8)

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

Hooded Wall Vents

8" GALVANIZED (FA8-G)

- 1/4" metal screen

8" GALVANNEAL (FA8-P)

- Paintable
- 1/4" metal screen

Dampers

6" & 8" BACKDRAFT (BD6 & BD8)

- Mechanical "butterfly" design
- Male/female ends

4", 5" & 6" AUTOMATIC BALANCING (ABV-4, ABV-5 & ABV-6)

- Adaptability
- Steri-Balance™
- Sealed tight
- Bi-directional
- Total control
- UL classified

Specifications may be subject to change without notice.
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, 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.

### 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.
**RH SERIES**

**ELECTRIC DUCT HEATER**

**Electric Duct Heater (1-11.5 kW)**

**Accessory**

**SPECIFICATIONS**

- **Heater Type:** Electric Duct Heater
- **Typical KW Range:** 1–11.5 kW (1, 2, 3, 4, 5, 6, 8, 10, 11.5 kW)
- **Volatges & Phase:** Single phase - 120, 208, and 240V
- **Control Voltage:** 24 VAC
- **Controllable Output Temperature Range:**
  - RH-D: 32 to 108°F
  - RH-W: -3 to 130°F
- **Standard Features:**
  - Open-coil element
  - High-grade, nickel-chrome element wire
  - Thermostat - Integral (RH-D), Wall mount (RH-W)
  - 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 - 24 VAC
  - Corrosion-resistant galvanized steel
  - Round duct collars
  - High-voltage terminal block connections
  - Mounting flanges
  - 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)

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

**Duct Collars** | **kW** | **V** | **Size** | **Width (X)** | **Height (Y)** | **Depth (Z)** | **Max. Wt. (lbs.)**
--- | --- | --- | --- | --- | --- | --- | ---
6” | 1, 2 | 120, 208, 240 | A | 11 1/2” | 8” | 11 1/2” | 10
8” | 3, 4, 5 | 208 | B | 11 1/2” | 10” | 13 1/2” | 15
8” | 3, 4, 5, 6 | 240 | B | 11 1/2” | 10” | 13 1/2” | 15
10” | 3, 4, 5 | 208 | B | 11 1/2” | 10” | 13 1/2” | 15
10” | 3, 4, 5, 6 | 240 | B | 11 1/2” | 10” | 13 1/2” | 15
10” | 8, 10, 11.5 | 240 | C | 15 1/2” | 12” | 15 1/2” | 20
12” | 6, 8, 10, 11.5 | 240 | C | 15 1/2” | 12” | 15 1/2” | 20

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

**SAFETY OPERATING RANGE**

Specifications may be subject to change without notice.

For the most complete and current information visit RENEWAIRE.COM
### HVI TESTED/CERTIFIED

**PER CSA C439**

#### BR130 - Ventilation Performance

<table>
<thead>
<tr>
<th>Ext. Static Pressure</th>
<th>Net Supply Airflow</th>
<th>Gross Airflow</th>
<th>Supply</th>
<th>Exhaust</th>
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<tbody>
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<td>L/S</td>
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#### EV90/GR90 - Ventilation Performance

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#### EV240 - Ventilation Performance

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#### EV300 - Ventilation Performance

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<tr>
<th>Ext. Static Pressure</th>
<th>Net Supply Airflow</th>
<th>Gross Airflow</th>
<th>Supply</th>
<th>Exhaust</th>
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<tbody>
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<td>L/S</td>
<td>CFM</td>
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#### SL70L/SL70H - Ventilation Performance

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<td>CFM</td>
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#### BR130 - Energy Performance

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<th>Net Moisture Transfer %</th>
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#### EV130 - Energy Performance

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<th>Net Moisture Transfer %</th>
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#### SL70L/SL70H - 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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</thead>
<tbody>
<tr>
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### Certifications & Performance

- HVI TESTED/CERTIFIED
- PER CSA C439

For more complete and current information, visit RenewAire.com or call 1.800.627.4499.
## INDEPENDENTLY TESTED

**PER** CSA C439

### BR70 - Ventilation Performance

<table>
<thead>
<tr>
<th>Ext. Static Pressure</th>
<th>Net Supply Airflow</th>
<th>Gross Airflow</th>
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Electrical Requirements: Volts 120 Amps 1.0

### BR70 - Energy Performance

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<tr>
<th>Supply Temperature</th>
<th>Net Airflow</th>
<th>Average Power</th>
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<th>Gross Airflow (CFM)</th>
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</table>

Electrical Requirements: Volts 120 Amps 1.0
SL SERIES
- Residential ERVs—four-duct design
- Indoor
- 51-76 CFM continuous mode
- 76-94 CFM boost mode

BR SERIES
- Residential ERVs—two-duct design
- Indoor
- 40-140 CFM

EV SERIES
- Residential and light commercial ERVs—four-duct design
- Indoor/outdoor (varies by model)
- 40-540 CFM

HE SERIES
- Commercial ERVs—packaged solutions
- Indoor/outdoor
- 250-7,950 CFM

LE SERIES
- Commercial ERVs—large capacity
- Indoor/outdoor
- 1,500-11,000 CFM

FOR CERTIFICATION DETAILS SEE UNIT SUBMITTALS ON RENEWAIRE.COM
CA SERIES
- Applied ERVs—modular cabinets
- Indoor/outdoor
- 500-4,400 CFM
- Stackable to 20,000 CFM

PA SERIES
- Applied ERVs—modular panels
- Indoor
- 1500-unlimited CFM

RD SERIES
- Commercial—Dedicated Outdoor Air System (DOAS)
- Indoor/outdoor
- 500-4,250 CFM

DN SERIES
- Commercial—Dedicated Outdoor Air System (DOAS)
- Indoor/outdoor
- 375-4,950 CFM

OPTIONS & ACCESSORIES
- ECM motors
- Variable frequency drives
- Motorized isolation dampers
- Combo curbs
- Bypass economizers
- Electric duct heaters
- Indirect gas-fired duct furnace
- Filter alarms

FOR CERTIFICATION DETAILS SEE UNIT SUBMITTALS ON RENEWAIRE.COM
INDOOR AIR QUALITY MATTERS

- 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

BENEFITS OF INCREASED VENTILATION

INCREASED PRODUCTIVITY
IMPROVED COGNITIVE FUNCTION
BETTER HEALTH

TECHNICAL/APPLICATIONS SUPPORT

The goal of our technical-support team is to provide the BEST CUSTOMER SERVICE in the HVAC industry. You can count on our knowledgeable and seasoned staff for all your technical, application and service needs, and we’ll respond quickly and effectively to answer any of your questions.

CONTACT RENEWAIRE

PHONE: 1.800.627.4499
FAX: 608.221.2824
FOR TECHNICAL SUPPORT: RenewaireSupport@renewaire.com
TO PLACE AN ORDER: RenewaireOrders@renewaire.com
EVERY GEOGRAPHIC REGION
Our ERVs function perfectly across the world 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

RENEWAIRE TEMPERATURES THE AIR

Our ERVs moderate the extremes of outdoor supply-air temperature and humidity year-round, providing a sustainable solution for fresh air that feels like a perfect spring day.

APPLIED 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 (LOWER AND HIGHER)
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.
RenewAire ERVs can be applied everywhere across all commercial, educational, institutional, light industrial and residential buildings. Our technology excels in every geographic region, every climate, and every size project.