Because Indoor Air Quality Matters

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

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

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.
## TABLE OF CONTENTS

### SL SERIES - Unitary ERV

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TYPE</th>
<th>CFM RANGE</th>
<th>PAGE</th>
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<tbody>
<tr>
<td>SL70H - STANDARD</td>
<td>Contractor-Grade, Four-Duct Connection Hard Wiring in Junction Box</td>
<td>51-76 CFM*</td>
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<tr>
<td>SL70L - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection Line-Cord Power Supply</td>
<td>51-76 CFM*</td>
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*Continuous mode range

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

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<td>BR70 - STANDARD</td>
<td>Two-Duct Connection Line-Cord Power Supply</td>
<td>40-70 CFM</td>
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<tr>
<td>BR130 - STANDARD</td>
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### EV SERIES - Unitary ERV

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<tr>
<td>EV Premium M - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection Line-Cord Power Supply</td>
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<td>EV Premium L - STANDARD</td>
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<td>30-280 CFM</td>
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<td>EV90 - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection Line-Cord Power Supply</td>
<td>40-110 CFM</td>
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<td>EV90P - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection Line-Cord Power Supply</td>
<td>40-110 CFM</td>
<td>15</td>
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<tr>
<td>EV130 - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection Line-Cord Power Supply</td>
<td>50-140 CFM</td>
<td>16</td>
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<tr>
<td>EV200 - STANDARD</td>
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<td>100-200 CFM</td>
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<td>EV240 - STANDARD</td>
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<td>100-240 CFM</td>
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<td>EV300 - STANDARD</td>
<td>Consumer-Grade, Four-Duct Connection Line-Cord Power Supply</td>
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### GR SERIES - Unitary ERV

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<tr>
<td>GR90 - STANDARD</td>
<td>Contractor-Grade, Four-Duct Connection Terminal Strip Hard Wiring in Ebox (no line cord)</td>
<td>40-110 CFM</td>
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</table>
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 needs and size can be decreased. 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

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.

REDUCING HVAC LOADS

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

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 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
- RenewAire products are highly certified. See individual catalog submittal for certification details:
  - UL
  - cUL
  - ETL
  - HVI
  - AHRI
SL 70H

INDOOR UNIT

Download specification at: renewaire.com/specifications

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 junction 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.

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)
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.
MERV 13 filter - OA airstream (shipped loose)
Wall bracket kit
Electric duct heater - RH series (1-3 kW);
designed for indoor ductwork installation only

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

EC MOTOR OPERATING RANGE

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>
</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.

ENERGY 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>
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</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. 30 of Single/Multi-Family Catalog.

Download specification at: renewaire.com/specifications

ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Watts</th>
<th>Volts</th>
<th>HZ</th>
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</tr>
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</table>

Note: 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.

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

Dimensions:
- 27 1/4" Overall
- 22 7/8" Case
- 4 3/8" Typ.
- 10 3/4" Typ.
- 4 1/8" Typ.
- 4 3/8" Typ.
- 9 1/8" Case
- 9 1/2" Overall
- 20 3/8" Overall
- 22" Overall
- 22 2/3" Overall (with ceiling brackets)
- 20 3/8" Overall (with ceiling brackets)
- 4 1/4" Typ.
- 4 1/4" Typ.
- 2 1/4" Typ.
- 2 1/4" Typ.
- 2 1/8" Minimum Latch Clearance
- 2 1/8" Minimum Latch Clearance
- 7 5/8" Minimum Service Area (Door can be removed from hinges.)
- 19 7/8" Minimum Service Area
- 21 1/4" Overall (with hanging brackets)
- 21 1/4" Overall (with hanging brackets)
- 18 5/8" Overall
- 19 1/2" Case
- 9 1/8" Case
- 6" Nominal Typ.
- 8" Nominal Typ.
- 22" - 23" Overall (with ceiling brackets)
- 27 1/4" Overall (with ceiling brackets)
- 22 7/8" Case (with ceiling brackets)
- 22 7/8" Case (with hanging brackets)

Control terminals
Power outlet box with 3' of flexible conduit ø 7/8" knockouts
Pressure ports (4) typ.

For the most complete and current information visit renewaire.com

ABBREVIATIONS
EA: Exhaust Air to outside
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SA: Supply Air to inside

NOTE
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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**

**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)
- 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.
- MERV 13 filter - OA airstream (shipped loose)
- Wall bracket kit
- Electric duct heater - RH series (1-3 kW); designed for indoor ductwork installation only

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

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

**Sample Points Depicted in Larger Dots**

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**Continuous Mode**

**Boost Mode**

**EC MOTOR OPERATING RANGE**

**Continuously Mode**

**Boost Mode**

**CORE PERFORMANCE**

<table>
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<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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<td>15</td>
</tr>
</tbody>
</table>

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

**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.
BR 70

INDOOR UNIT
Duct Mounted or Thru-the-Wall

Download specification at: renewaire.com/specifications

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-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:
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):
Ct. 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 (shipped loose)
Electric duct heater - RH series (1-3 kW);
designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the BR70.

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>

UNIT DIMENSIONS

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.

UNIT PERFORMANCE

| Airflow CFM | Temp EFF% | Total EFF%
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Winter</td>
<td>Summer*</td>
</tr>
<tr>
<td>46</td>
<td>80</td>
<td>75/62</td>
</tr>
<tr>
<td>59</td>
<td>77</td>
<td>72/58</td>
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<td>73</td>
<td>75</td>
<td>69/54</td>
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<tr>
<td>86</td>
<td>72</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. 31 of Single/Multi-Family Catalog.

UNIT 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. PRESSURE PORTS FOR EACH AIR STREAM ARE LOCATED ON DOOR OF UNIT.
3. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
TW: Thru Wall
DH: Duct Hung

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>

Note: These are core-only ratings and are not HVI certified.
See performance ratings per CSA C439 on pg. 31 of Single/Multi-Family Catalog.

Specifications may be subject to change without notice.
BR 130

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 (shipped loose)
Electric duct heater - RH series (1-5 kW); designed for indoor ductwork installation only

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

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>
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</table>

UNIT PERFORMANCE

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>ESP in H2O</th>
</tr>
</thead>
<tbody>
<tr>
<td>51</td>
<td>0.70</td>
</tr>
<tr>
<td>68</td>
<td>0.60</td>
</tr>
<tr>
<td>93</td>
<td>0.50</td>
</tr>
<tr>
<td>112</td>
<td>0.40</td>
</tr>
<tr>
<td>131</td>
<td>0.30</td>
</tr>
<tr>
<td>140</td>
<td>0.20</td>
</tr>
<tr>
<td>148</td>
<td>0.10</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. 30 of Single/Multi-Family Catalog.

UNIT DIMENSIONS

Note:
These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 30 of Single/Multi-Family Catalog.

A B B R E V I A T I O N S

EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
TW: Thru Wall
DH: Duct Hung

I N S T A L L A T I O N O R I E N T A T I O N

Unit may be installed in any orientation.

N O T E

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. PRESSURE PORTS FOR EACH AIR STREAM ARE LOCATED ON DOOR OF UNIT.
3. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

Download specification at:
renewaire.com/specifications

FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT: RENEWAIRE.COM
**SPECIFICATIONS & DIMENSIONS**

**EV PREMIUM M**

**INDOOR UNIT**

**Energy Recovery Ventilator**

**EC MOTOR OPERATING RANGE**

<table>
<thead>
<tr>
<th>Sample Points Depicted in Larger Dots</th>
<th>Airflow (CFM)</th>
<th>External Static Pressure (Inches Water Column)</th>
<th>Unit Power Consumption (Watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max. Speed</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>233</td>
<td>0.1</td>
<td>179</td>
<td></td>
</tr>
<tr>
<td>225</td>
<td>0.2</td>
<td>176</td>
<td></td>
</tr>
<tr>
<td>216</td>
<td>0.3</td>
<td>177</td>
<td></td>
</tr>
<tr>
<td>210</td>
<td>0.4</td>
<td>174</td>
<td></td>
</tr>
<tr>
<td>201</td>
<td>0.5</td>
<td>173</td>
<td></td>
</tr>
<tr>
<td>193</td>
<td>0.6</td>
<td>172</td>
<td></td>
</tr>
<tr>
<td>184</td>
<td>0.7</td>
<td>170</td>
<td></td>
</tr>
<tr>
<td>176</td>
<td>0.8</td>
<td>168</td>
<td></td>
</tr>
<tr>
<td>163</td>
<td>0.9</td>
<td>166</td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>1.0</td>
<td>162</td>
<td></td>
</tr>
<tr>
<td>117</td>
<td>1.2</td>
<td>148</td>
<td></td>
</tr>
<tr>
<td>86</td>
<td>1.4</td>
<td>134</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>1.6</td>
<td>112</td>
<td></td>
</tr>
<tr>
<td><strong>Min. Speed</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>0.1</td>
<td>16</td>
<td></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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max. Speed</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>233</td>
<td>58</td>
<td>49/26</td>
</tr>
<tr>
<td>225</td>
<td>59</td>
<td>50/27</td>
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<tr>
<td>216</td>
<td>60</td>
<td>51/28</td>
</tr>
<tr>
<td>210</td>
<td>61</td>
<td>52/30</td>
</tr>
<tr>
<td>201</td>
<td>62</td>
<td>53/32</td>
</tr>
<tr>
<td>193</td>
<td>63</td>
<td>54/34</td>
</tr>
<tr>
<td>184</td>
<td>64</td>
<td>56/36</td>
</tr>
<tr>
<td>176</td>
<td>66</td>
<td>57/38</td>
</tr>
<tr>
<td>163</td>
<td>67</td>
<td>59/40</td>
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<tr>
<td>150</td>
<td>69</td>
<td>61/42</td>
</tr>
<tr>
<td>117</td>
<td>73</td>
<td>67/49</td>
</tr>
<tr>
<td>86</td>
<td>77</td>
<td>72/56</td>
</tr>
<tr>
<td>48</td>
<td>82</td>
<td>78/63</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. 30 of Single/Multi-Family Catalog.**

**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>85</td>
<td>120</td>
<td>60</td>
<td>1</td>
<td>1.22</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

**Note:** These may be subject to change without notice.
**EV Premium M**  
Energy Recovery Ventilator  EC Motor Standard

---

**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**

**EV Premium M**  
Energy Recovery Ventilator  EC Motor Standard

**Model:** EV Premium M  
**Drawing Type:** Unit Dimension  
**Version:** MAR20

---

**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.
**EV PREMIUM L**

**INDOOR UNIT**

**Energy Recovery Ventilator**
EC Motor Standard

---

**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
  - 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 Dimensions & Weight:** 23 3/4" L x 18" W x 24 1/4" H 52 lbs.
- **Max. Shipping Dimensions & Weight (in carton):** 33" L x 22" W x 29" H 66 lbs.
- **Motor(s):** Qty. 2, 115V EC 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), 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.
  - Dehumidistat control (DH24)
  - 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**

<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>288</td>
<td>0.1</td>
<td>177</td>
</tr>
<tr>
<td>280</td>
<td>0.2</td>
<td>178</td>
</tr>
<tr>
<td>269</td>
<td>0.3</td>
<td>179</td>
</tr>
<tr>
<td>261</td>
<td>0.4</td>
<td>180</td>
</tr>
<tr>
<td>252</td>
<td>0.5</td>
<td>180</td>
</tr>
<tr>
<td>244</td>
<td>0.6</td>
<td>180</td>
</tr>
<tr>
<td>233</td>
<td>0.7</td>
<td>179</td>
</tr>
<tr>
<td>222</td>
<td>0.8</td>
<td>179</td>
</tr>
<tr>
<td>212</td>
<td>0.9</td>
<td>178</td>
</tr>
<tr>
<td>199</td>
<td>1.0</td>
<td>176</td>
</tr>
<tr>
<td>170</td>
<td>1.2</td>
<td>170</td>
</tr>
<tr>
<td>136</td>
<td>1.4</td>
<td>160</td>
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<tr>
<td>93</td>
<td>1.6</td>
<td>142</td>
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<td>1.8</td>
<td>110</td>
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<tr>
<td>67</td>
<td>0.1</td>
<td>19</td>
</tr>
<tr>
<td>36</td>
<td>0.2</td>
<td>17</td>
</tr>
</tbody>
</table>

**CORE PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow (CFM)</th>
<th>Sensible EFF%</th>
<th>Total EFF% Winter/Summer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Speed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>288</td>
<td>71</td>
<td>63/45</td>
</tr>
<tr>
<td>280</td>
<td>71</td>
<td>64/46</td>
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<td>269</td>
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<td>261</td>
<td>72</td>
<td>65/48</td>
</tr>
<tr>
<td>252</td>
<td>73</td>
<td>66/49</td>
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<tr>
<td>244</td>
<td>73</td>
<td>67/50</td>
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<tr>
<td>233</td>
<td>74</td>
<td>68/51</td>
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<td>69/52</td>
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<tr>
<td>212</td>
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<td>69/53</td>
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<td>199</td>
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<td>70/54</td>
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<td>170</td>
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<td>73/57</td>
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<td>136</td>
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<td>75/60</td>
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<td>93</td>
<td>83</td>
<td>79/64</td>
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<tr>
<td>36</td>
<td>86</td>
<td>83/69</td>
</tr>
<tr>
<td>Min. Speed</td>
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<td></td>
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<tr>
<td>67</td>
<td>85</td>
<td>81/67</td>
</tr>
<tr>
<td>36</td>
<td>86</td>
<td>83/69</td>
</tr>
</tbody>
</table>

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

---

**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>85</td>
<td>120</td>
<td>60</td>
<td>1</td>
<td>1.22</td>
<td>10</td>
<td>10</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. 30 of Single/Multi-Family Catalog.

---

Download specification at: renewaire.com/specifications
**EV Premium L**  
Energy Recovery Ventilator  
EC Motor Standard

**Airflow Orientation**  
Available as shown in dimension drawing.

**Specifications & Dimensions**

**Ev & Gr-Series**

**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.

**Unit Mounting & Application**
Can be mounted in any orientation. RA/EA airstream can be switched with GA/FA airstream.
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
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)
Percentage timer control (PTL)
Push-button point-of-use controls (PBL), PTL req’d.
Percentage timer control with furnace interlock (FM)
Dehumidistat control (DH2)
MERV 13 filter - OA airstream (shipped loose)
Electric duct heater - RH series (1-3 kW);
designed for indoor ductwork installation only

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

SPECIFICATIONS

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.

Download specification at: renewaire.com/specifications
**Ev & Gr-Series Specifications & Dimensions**

**Indoor Unit**

**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
- Digital time clock - wall mount (TCD-W), in exterior enclosure (TCD-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)
- Percentage timer control (PTL)
- Push-button point-of-use controls (PBL), PTL req’d
- Percentage timer control with furnace interlock (FM)
- Dehumidistat control (DH24)
- MERV 13 filter - OA airstream (shipped loose)
- Electric duct heater - RH series (1-3 kW); designed for indoor ductwork installation only

**Note:** Indirect Gas-Fired Duct Furnace is not available on the EV90P.

**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>

**Electrical Requirements**

- **HP Volts HZ Phase Input Watts FLA**
  - 0.03 120 60 Single 44 @ 90 CFM 0.35

**Unit Performance**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>ESP in H₂O</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>0.60</td>
</tr>
<tr>
<td>55</td>
<td>0.50</td>
</tr>
<tr>
<td>74</td>
<td>0.40</td>
</tr>
<tr>
<td>87</td>
<td>0.30</td>
</tr>
<tr>
<td>100</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% Winter/Summer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>86</td>
<td>83/71</td>
</tr>
<tr>
<td>55</td>
<td>85</td>
<td>82/70</td>
</tr>
<tr>
<td>74</td>
<td>84</td>
<td>80/68</td>
</tr>
<tr>
<td>87</td>
<td>83</td>
<td>79/67</td>
</tr>
<tr>
<td>100</td>
<td>82</td>
<td>78/66</td>
</tr>
<tr>
<td>108</td>
<td>82</td>
<td>78/65</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. 30 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 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.

**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
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 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
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 -
celling 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)
Dehumidistat control (DH24)
MERV 13 filter - OA airstream (shipped loose)
Electric duct heater - RH series (1-5 kW);
designed for indoor ductwork installation only

**Note:** Indirect Gas-Fired Duct Furnace is not available on the EV130.

**UNIT PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>ESP in H₂O</th>
</tr>
</thead>
<tbody>
<tr>
<td>78</td>
<td>0.60</td>
</tr>
<tr>
<td>104</td>
<td>0.50</td>
</tr>
<tr>
<td>125</td>
<td>0.40</td>
</tr>
<tr>
<td>136</td>
<td>0.30</td>
</tr>
<tr>
<td>153</td>
<td>0.20</td>
</tr>
<tr>
<td>163</td>
<td>0.10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>Temp EFF%</th>
<th>Total EFF% Winter/Summer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>78</td>
<td>78</td>
<td>73/59</td>
</tr>
<tr>
<td>104</td>
<td>75</td>
<td>69/54</td>
</tr>
<tr>
<td>125</td>
<td>72</td>
<td>66/50</td>
</tr>
<tr>
<td>136</td>
<td>71</td>
<td>64/48</td>
</tr>
<tr>
<td>153</td>
<td>68</td>
<td>61/45</td>
</tr>
<tr>
<td>163</td>
<td>67</td>
<td>59/42</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. 30 of Single/Multi-Family Catalog.

**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>

**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 MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.**

**DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.**

**Note:**
1. Unless otherwise specified, dimensions are rounded to the nearest eighth of an inch.
2. 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:**
- 100-200 CFM

**Unit is HVI Tested/Certified per CSA C439 Protocol:**
- Using one L-100-65 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
- Total qty. 2, MERV 8, spun-polyester media:
  - 10 1/2" x 21 3/4" x 1"

**Unit Dimensions & Weight:**
- 33 1/2" L x 24" W x 20" H
- 68 lbs.
- Max. Shipping Dimensions & Weight (on pallet):
  - 34" L x 44" W x 34" H
  - 110 lbs.

**Electrical Data**

- **HP** | **Volts** | **HZ** | **Phase** | **Input Watts** | **FLA**
- 0.1 | 120 | 60 | Single | 157 @ 181 CFM | 1.5

**UNIT PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>ESP in H(_2)O</th>
</tr>
</thead>
<tbody>
<tr>
<td>121</td>
<td>0.70</td>
</tr>
<tr>
<td>148</td>
<td>0.60</td>
</tr>
<tr>
<td>167</td>
<td>0.50</td>
</tr>
<tr>
<td>176</td>
<td>0.40</td>
</tr>
<tr>
<td>186</td>
<td>0.30</td>
</tr>
<tr>
<td>191</td>
<td>0.20</td>
</tr>
<tr>
<td>206</td>
<td>0.10</td>
</tr>
</tbody>
</table>

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

**Accessories:**
- Backdraft damper 6", 8" automatic balancing damper 4", 5", 6"
- Louvered wall vent 5" - white, brown
- Louvered wall vent 8" - taupe, vinyl, galvanized, paintable galvanized
- 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 (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)
- Dehumidistat control (DH24)
- MERV 13 filter - OA airstream (shipped loose)
- Electric duct heater - RH series (1-6 kW); designed for indoor ductwork installation only

**Core Performance**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>Temp EFF%</th>
<th>Total EFF% Winter/Summer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>121</td>
<td>81</td>
<td>77/64</td>
</tr>
<tr>
<td>148</td>
<td>79</td>
<td>75/61</td>
</tr>
<tr>
<td>167</td>
<td>78</td>
<td>73/59</td>
</tr>
<tr>
<td>176</td>
<td>78</td>
<td>72/58</td>
</tr>
<tr>
<td>186</td>
<td>77</td>
<td>72/58</td>
</tr>
<tr>
<td>191</td>
<td>77</td>
<td>71/57</td>
</tr>
<tr>
<td>206</td>
<td>76</td>
<td>70/56</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. 31 of Single/Multi-Family Catalog.

**Abbreviations**

- RA: Room Air to be exhausted
- OA: Outside Air intake
- EA: Exhaust Air to outside
- 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 eight of an inch.
   - Specifications may be subject to change without notice.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

**ELECTRICAL DATA**

- **HP** | **Volts** | **HZ** | **Phase** | **Input Watts** | **FLA**
- 0.1 | 120 | 60 | Single | 157 @ 181 CFM | 1.5

**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.
**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-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 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
- Digital time clock - wall mount (TC7D-W), in exterior enclosure (TC7D-E)
- Carbon dioxide sensor/control - wall mount (CO2-W), duct mount (MC-W)
- Percentage timer control (PTL)
- Push-button point-of-use controls (PBL), PTL req’d.
- Percentage timer control with furnace interlock (FM)
- Dehumidistat control (DH24)
- MERV 13 filter - OA airstream (shipped loose)

**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>0.2</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>216 @ 236 CFM</td>
<td>3.3</td>
</tr>
</tbody>
</table>

**UNIT PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>ESP in H₂O</th>
<th>Temp EFF%</th>
<th>Total EFF% Winter/Summer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>170</td>
<td>0.80</td>
<td>78</td>
<td>73/59</td>
</tr>
<tr>
<td>195</td>
<td>0.70</td>
<td>76</td>
<td>71/57</td>
</tr>
<tr>
<td>214</td>
<td>0.60</td>
<td>75</td>
<td>69/55</td>
</tr>
<tr>
<td>229</td>
<td>0.50</td>
<td>74</td>
<td>68/54</td>
</tr>
<tr>
<td>242</td>
<td>0.40</td>
<td>73</td>
<td>67/52</td>
</tr>
<tr>
<td>250</td>
<td>0.30</td>
<td>73</td>
<td>67/52</td>
</tr>
<tr>
<td>256</td>
<td>0.20</td>
<td>73</td>
<td>66/51</td>
</tr>
<tr>
<td>265</td>
<td>0.10</td>
<td>72</td>
<td>66/50</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.

**CORE PERFORMANCE**

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Control</th>
<th>Total EFF% Winter/Summer*</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA</td>
<td>4&quot;</td>
<td>78</td>
</tr>
<tr>
<td>EA</td>
<td>4&quot;</td>
<td>73</td>
</tr>
<tr>
<td>OA</td>
<td>6&quot;</td>
<td>78</td>
</tr>
<tr>
<td>EA</td>
<td>6&quot;</td>
<td>73</td>
</tr>
</tbody>
</table>

**Abbreviations**

OA: Outside Air intake
EA: Exhaust Air to outside
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.
Energy Recovery Ventilator
Standard

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.

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

Note: Indirect Gas-Fired Duct Furnace is not available on the EV300.

UNIT PERFORMANCE

Note: These are core-only ratings and are not HVI certified.
HVI ratings apply to complete units only.
See HVI certification ratings on pg. 31 of Single/Multi-Family Catalog.

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>0.2</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>315 @ 297 CFM</td>
<td>3.3</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.

Note: Specifications may be subject to change without notice.

 carcass is designed for indoor ductwork installation only

Specs. 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-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 & 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
- Electric duct heater - RH series (1-3 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>53</td>
<td>0.50</td>
</tr>
<tr>
<td>68</td>
<td>0.40</td>
</tr>
<tr>
<td>81</td>
<td>0.30</td>
</tr>
<tr>
<td>93</td>
<td>0.20</td>
</tr>
<tr>
<td>108</td>
<td>0.10</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. 30 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 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.
BR Series (BR70 and BR130)

**Top Hung Lengthwise**

**Top Hung Crosswise**

**Bottom 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**

**Furnace Return Air Back into Return Air**

**Furnace Return Air Back into Supply Air**

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

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

**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.

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

**EV Series (EV90, EV90P and EV Premium)**

**Furnace Return Air Back into Return Air**

**Furnace Return Air Back into Supply 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
CONTROL STRATEGIES

See individual submittal pages for compatibility by model.

INTERLOCK WITH AIR Handler

SINGLE CONTROL

MULTIPLE CONTROLS

PBT OR PTL WITH PBL

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

See 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. 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 (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

**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

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**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

**PUSH-BUTTON BOOST TIMER (PBT)**

Optional boost control for SL70 & EV Premium models only

- Push-button control sends unit to boost mode 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

Controls are continued on the next page.
OPTIONS & ACCESSORIES

ACCESSORIES

See individual submittal pages for compatibility 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 requirement
- Internal menu for easy set-up

DEHUMIDISTAT (DH24)
- Adjustable set point from 20-80% relative humidity
- 24 VAC power requirement
- Wall mounted fits any 2" x 3" electrical box

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.

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
- Shipped loose

Specifications may be subject to change without notice.
ACCESSORIES

See individual submittal pages for compatibility by model.

Dampers

6" & 8" BACKDRAFT DAMPERS (BD6 & BD8)

- Mechanical “butterfly” design
- Male/female ends

BD6 & BD8 PRESSURE DROP PERFORMANCE

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

- Using physics, they will constrain the airflow volume to precise factory-calibrated volumes as marked on the front of the dampers.
  1. First the desired airflow is set by moving the set-point adjustment arm to the desired airflow in CFM (cubic feet per minute).
  2. Then the fixed stator blade applies the exact amount of tension on the moving damper blade to hold the airflow at its target.
  3. Lastly, the pressure differential across the moving damper blade gives the blade lift to automatically adjust to changes in static pressure and air velocity. This is what gives it “pressure independence.”

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

ACCESSORIES

See individual submittal pages for compatibility by model.

Louvered Wall Vents

6" VINYL (VB106 & VW106)

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

VB106 & VW106 PRESSURE DROP PERFORMANCE

8" VINYL (VT8)

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

VT8 PRESSURE DROP PERFORMANCE
ACCESSORIES

See individual submittal pages for compatibility by model.

Louvered Wall Vents

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

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

VW12X8 PRESSURE DROP PERFORMANCE

Hooded Wall Vents

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

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

FA8-G & FA8-P PRESSURE DROP PERFORMANCE

Specifications may be subject to change without notice.
RH Series Electric Duct Heater
AVAILABLE ON SINGLE/MULTI-FAMILY AND LIGHT COMMERCIAL UNITS (SOME EXCEPTIONS APPLY)

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 RENEAIRE’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.

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

Rh Series Electric Duct Heater (1-11.5 kW)

**Options & Accessories**

- **Specifications**

  - **Heater Type:** Electric Duct Heater
  - **Typical KW Range:** 1–11.5 kW (1, 2, 3, 4, 5, 6, 8, 10, 11.5 kW)
  - **Voltages & Phase:** Single phase - 120, 208 and 240V
  - **Control Voltage:** 24 VAC
  - **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
    - 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
    - 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.

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

---

**Minimum Airflow (CFM) vs. Heater Capacity (kW):**

<table>
<thead>
<tr>
<th>Minimum Airflow (CFM)</th>
<th>Heater Capacity (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>1.00</td>
</tr>
<tr>
<td>60</td>
<td>2.00</td>
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<td>300</td>
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**Duct Collars:**

<table>
<thead>
<tr>
<th>Duct Collars</th>
<th>kW</th>
<th>V</th>
<th>Size</th>
<th>Width (X)</th>
<th>Height (Y)</th>
<th>Depth (Z)</th>
<th>Max. WL (lbs.)</th>
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</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>
</tr>
<tr>
<td>8”</td>
<td>3, 4, 5</td>
<td>208</td>
<td>B</td>
<td>11 1/2”</td>
<td>10”</td>
<td>13 1/2”</td>
<td>15</td>
</tr>
<tr>
<td>8”</td>
<td>3, 4, 5, 6</td>
<td>240</td>
<td>B</td>
<td>11 1/2”</td>
<td>10”</td>
<td>13 1/2”</td>
<td>15</td>
</tr>
<tr>
<td>10”</td>
<td>3, 4, 5</td>
<td>208</td>
<td>C</td>
<td>15 1/2”</td>
<td>12”</td>
<td>15 1/2”</td>
<td>20</td>
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<tr>
<td>10”</td>
<td>3, 4, 5, 6, 8, 10, 11.5</td>
<td>240</td>
<td>C</td>
<td>15 1/2”</td>
<td>12”</td>
<td>15 1/2”</td>
<td>20</td>
</tr>
<tr>
<td>12”</td>
<td>6, 8, 10, 11.5</td>
<td>240</td>
<td>C</td>
<td>15 1/2”</td>
<td>12”</td>
<td>15 1/2”</td>
<td>20</td>
</tr>
</tbody>
</table>

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**Heater Capacity vs. Safe Operating Range:**

- **Heater Capacity:** kW
- **Safe Operating Range:** Safe operating range may vary depending on specific application requirements.

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

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FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEWAIRE.COM
### SL70L/SL70H - 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>
</tr>
</thead>
<tbody>
<tr>
<td>Pa</td>
<td>L/S</td>
<td>CFM</td>
<td>L/S</td>
<td>CFM</td>
</tr>
<tr>
<td>25</td>
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### BR130 - Ventilation Performance

<table>
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<th>Ext. Static Pressure</th>
<th>Net Supply Airflow</th>
<th>Gross Airflow</th>
<th>Supply</th>
<th>Exhaust</th>
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</thead>
<tbody>
<tr>
<td>Pa</td>
<td>L/S</td>
<td>CFM</td>
<td>L/S</td>
<td>CFM</td>
</tr>
<tr>
<td>25</td>
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<td>0.4</td>
<td>102</td>
<td>216</td>
<td>510</td>
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<tr>
<td>125</td>
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<td>495</td>
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</table>

### EV Premium Medium - Ventilation Performance

<table>
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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>
<tr>
<td>Pa</td>
<td>L/S</td>
<td>CFM</td>
<td>L/S</td>
<td>CFM</td>
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<tr>
<td>25</td>
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<td>110</td>
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### EV Premium Large - Ventilation Performance

<table>
<thead>
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<th>Ext. Static Pressure</th>
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<tbody>
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<td>Pa</td>
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<td>CFM</td>
<td>L/S</td>
<td>CFM</td>
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<td>81</td>
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<td>0.4</td>
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<td>74</td>
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<tr>
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<td>53</td>
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<td>36</td>
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</table>

### EV90/GR90 - Ventilation Performance

<table>
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<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>
<tr>
<td>Pa</td>
<td>L/S</td>
<td>CFM</td>
<td>L/S</td>
<td>CFM</td>
</tr>
<tr>
<td>25</td>
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<td>100</td>
<td>0.4</td>
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<tr>
<td>150</td>
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</table>

### EV90P - Ventilation Performance

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<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pa</td>
<td>L/S</td>
<td>CFM</td>
<td>L/S</td>
<td>CFM</td>
</tr>
<tr>
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<td>51</td>
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<td>52</td>
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<tr>
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<tr>
<td>150</td>
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<td>18</td>
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</tbody>
</table>

### EV130 - Ventilation Performance

<table>
<thead>
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<th>Ext. Static Pressure</th>
<th>Net Supply Airflow</th>
<th>Gross Airflow</th>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pa</td>
<td>L/S</td>
<td>CFM</td>
<td>L/S</td>
<td>CFM</td>
</tr>
<tr>
<td>25</td>
<td>0.1</td>
<td>51</td>
<td>108</td>
<td>52</td>
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<tr>
<td>75</td>
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<td>0.4</td>
<td>35</td>
<td>74</td>
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<td>125</td>
<td>0.5</td>
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<td>53</td>
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</tr>
<tr>
<td>150</td>
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<td>36</td>
<td>18</td>
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### EV200 - Ventilation Performance

<table>
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<th>Exhaust</th>
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<td>L/S CFM</td>
<td>L/S CFM</td>
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<td>97 206</td>
<td>100 212</td>
<td>109 231</td>
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<td>90 191</td>
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<td>85 180</td>
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<td>75 172</td>
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<td>68 184</td>
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### EV200 - Energy Performance

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<tr>
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<th>Net Airflow</th>
<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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<tbody>
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<td></td>
<td></td>
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<td>85 180</td>
<td>157</td>
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<td>84</td>
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<td>Cooling</td>
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<tr>
<td>35° 90°</td>
<td>85 180</td>
<td>155</td>
<td>72</td>
<td>62</td>
<td>54</td>
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### EV240 - 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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</thead>
<tbody>
<tr>
<td></td>
<td>Ps in. wg</td>
<td>L/S CFM</td>
<td>L/S CFM</td>
<td>L/S CFM</td>
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<tr>
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<tr>
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<td>100</td>
<td>0.4</td>
<td>114 243</td>
<td>116 246</td>
<td>117 248</td>
</tr>
<tr>
<td>125</td>
<td>0.5</td>
<td>108 239</td>
<td>111 243</td>
<td>119 233</td>
</tr>
<tr>
<td>150</td>
<td>0.6</td>
<td>101 234</td>
<td>103 238</td>
<td>102 236</td>
</tr>
<tr>
<td>175</td>
<td>0.7</td>
<td>96 230</td>
<td>98 234</td>
<td>97 237</td>
</tr>
<tr>
<td>200</td>
<td>0.8</td>
<td>89 220</td>
<td>91 224</td>
<td>88 229</td>
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</table>

### EV240 - Energy Performance

<table>
<thead>
<tr>
<th>Supply Temperature</th>
<th>Net Airflow</th>
<th>Average Power Watts</th>
<th>Sensible Recovery Efficiency %</th>
<th>Adjusted Sensible Recovery Efficiency %</th>
<th>Net Moisture Transfer %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating</td>
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<tr>
<td>0° 32°</td>
<td>111 235</td>
<td>216</td>
<td>75</td>
<td>80</td>
<td>57</td>
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<td>Cooling</td>
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<tr>
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<td>213</td>
<td>53</td>
<td>56</td>
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</table>

### EV300 - 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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</thead>
<tbody>
<tr>
<td></td>
<td>Ps in. wg</td>
<td>L/S CFM</td>
<td>L/S CFM</td>
<td>L/S CFM</td>
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<tr>
<td>25</td>
<td>0.1</td>
<td>139 295</td>
<td>142 301</td>
<td>135 292</td>
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<tr>
<td>50</td>
<td>0.2</td>
<td>131 278</td>
<td>133 283</td>
<td>129 279</td>
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<tr>
<td>75</td>
<td>0.3</td>
<td>118 250</td>
<td>119 253</td>
<td>120 256</td>
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<tr>
<td>100</td>
<td>0.4</td>
<td>114 243</td>
<td>116 246</td>
<td>117 248</td>
</tr>
<tr>
<td>125</td>
<td>0.5</td>
<td>108 239</td>
<td>111 243</td>
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<tr>
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<td>0.8</td>
<td>89 220</td>
<td>91 224</td>
<td>88 229</td>
</tr>
</tbody>
</table>

### EV300 - Energy Performance

<table>
<thead>
<tr>
<th>Supply Temperature</th>
<th>Net Airflow</th>
<th>Average Power Watts</th>
<th>Sensible Recovery Efficiency %</th>
<th>Adjusted Sensible Recovery Efficiency %</th>
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<tr>
<td>Heating</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>0° 32°</td>
<td>138 295</td>
<td>315</td>
<td>67</td>
<td>73</td>
<td>54</td>
</tr>
<tr>
<td>Cooling</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>35° 90°</td>
<td>138 292</td>
<td>313</td>
<td>46</td>
<td>49</td>
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</tr>
</tbody>
</table>

### BR70 - 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ps in. wg</td>
<td>L/S CFM</td>
<td>L/S CFM</td>
<td>L/S CFM</td>
</tr>
<tr>
<td>25</td>
<td>0.1</td>
<td>41 86</td>
<td>42 89</td>
<td>46 97</td>
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<tr>
<td>50</td>
<td>0.2</td>
<td>34 76</td>
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<td>39 84</td>
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<tr>
<td>75</td>
<td>0.3</td>
<td>28 61</td>
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<tr>
<td>100</td>
<td>0.4</td>
<td>21 46</td>
<td>22 47</td>
<td>25 53</td>
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</table>

### BR70 - Energy Performance

<table>
<thead>
<tr>
<th>Supply Temperature</th>
<th>Net Airflow</th>
<th>Average Power Watts</th>
<th>Sensible Recovery Efficiency %</th>
<th>Adjusted Sensible Recovery Efficiency %</th>
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<td>Heating</td>
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<td></td>
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<td>0° 32°</td>
<td>32 69</td>
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<td>53</td>
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<tr>
<td>Cooling</td>
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<tr>
<td>35° 90°</td>
<td>30 64</td>
<td>94</td>
<td>42</td>
<td>47</td>
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</tr>
</tbody>
</table>

Electrical Requirements Volts 120 Amps 1.0
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

- Better Health
- Improved Cognitive Function
- Increased Productivity

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
Deficient IAQ has numerous adverse effects on the health and cognitive problems for occupants. Industry indoor air quality (IAQ), which leads to significant deficient generated contaminants accumulate and cause and balanced ventilation is critical. Without it, internally construction methodologies, the need for increased application of Energy Recovery in ventilation strategies.

On average, Americans spend 90% of their time indoors. The EPA ranks indoor air pollutants as a top-five environmental health risk to occupants. The EPA found that indoor air may be 2-5 times—and occasionally greater than 100 times—more polluted than outdoor air. The high level of foot traffic in retail stores leads to deficient IAQ and the potential sickness of shoppers, which can negatively impact sales. The large volume of indoor occupants in restaurants and coffee shops causes deficient IAQ and subsequent health problems. Crowded daycare facilities breed deficient IAQ, thus causing health problems for everyone—especially children who are more vulnerable. 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.

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

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.

Our ERVs function perfectly across the world in every geographic region. Our ERVs operate in every climate—from Alaska to Florida, and everywhere in between. From massive skyscrapers to cozy residential homes, our ERVs can be used in every size project and in every code jurisdiction. Our ERVs can be used in every size project and in every code jurisdiction.

RenewAire’s ERVs are specifically designed to provide cleaner and healthier indoor air for every type of building in the world, thus improving occupants’ wellbeing, while also reducing energy costs. Our ERVs function perfectly across the world in every geographic region. Our ERVs operate in every climate—from Alaska to Florida, and everywhere in between. From massive skyscrapers to cozy residential homes, our ERVs can be used in every size project and in every code jurisdiction.

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.