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 ERV technologies. 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

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.

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) that optimize energy efficiency, lower capital costs via HVAC load reduction and decrease operational expenses by minimizing equipment needs, resulting in significant energy savings. Our ERVs 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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**LE SERIES - Commercial Unitary ERV**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TYPE</th>
<th>CFM RANGE</th>
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<tr>
<td>LE6XINH - STANDARD</td>
<td>Indoor</td>
<td>1,500-6,600 CFM</td>
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**ORDERING & SUPPORT** | 41-44
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 zero exhaust air transfer at normal balanced operating conditions. 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 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.
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
Energy Recovery Ventilator
Standard

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 1,500-6,600 CFM

AHRI 1060 Certified Core: Six L125-G5

Standard Features:
TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters: Total qty. 12, MERV 8: 20” x 25” x 2”

Unit Dimensions & Weight:
81 1/2” L x 125 1/2” W x 71 1/4” H
Modular (per module) 943-1,367 lbs., varies by option(s)
Assembled (1-piece) 1,975-2,630 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
Modular (2-modules) 80” L x 90” W x 78” H
Module 1 - 1,508 lbs., Module 2 - 1,406 lbs.
Assembled (1-piece) 160” L x 90” W x 78” H - 2,630 lbs.

Motor(s):
Qty. 2, Belt drive blower/standard motor packages with choice of adjustable sheaves for low, medium or high blower speed (see table below)

Options:
Spring vibration isolators
Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls - enhanced, premium
Class 1 low leakage motorized isolation dampers - OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:
Filters - MERV 13, 2” or 4”; MERV 8, 4” (shipped loose)
Digital time clock - wall mount (TC7-D-W), in exterior enclosure (TC7-D-E)
Carbon dioxide sensor/control - wall mount (CO2-W), duct mount (CO2-D)
IAQ sensor - wall mount (IAQ-W), duct mount (IAQ-D)
Motion occupancy sensor/control - ceiling mount (MC-C), wall mount (MC-W)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EF series (1-175 kW)
Indirect gas-fired duct furnace - GH series (50-400 MSH), installed downstream of any fans

AIRFLOW PERFORMANCE

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Note: Airflow performance includes effect of clean, standard filter supplied with unit.

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Specifications may be subject to change without notice.

CORE PERFORMANCE

Airflow (CFM)

At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.
Energy Recovery Ventilator
Standard

**Specifications**

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

**Typical Airflow Range:**
1,500-6,600 CFM

**AHRI 1060 Certified Core:**
Six L125-G5

**Standard Features:**
- TEFC Premium efficiency motors
- Motor starters
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

**Filters:**
Total qty. 12, MERV 8: 20” x 25” x 2”

**Unit Dimensions & Weight:**
- 81 1/2” L x 125 1/2” W x 71 1/4” H
- Modular (per module) 715-1,622 lbs., varies by option(s)
- Assembled (1-piece) 1,964-2,640 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 1,984-2,640 lbs., varies by option(s)

**Motor(s):**
- Qty. 2. Belt drive blower/standard motor packages with choice of adjustable sheaves for low, medium or high blower speed (see table below)

**Options:**
- Spring vibration isolators
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Class 1 low leakage motorized isolation dampers - OA, RA or both airstreams
- Qty. 2. Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

**Accessories:**
- Filters - MERV 13.2” or 4”; MERV 8.4” (shipped loose)
- Digital time clock - wall mount (TC7D-W), in exterior enclosure (TC7D-E)
- Carbon dioxide sensor/control - wall mount (CO2-W), duct mount (CO2-D)
- IAG sensor - wall mount (IAG-W), duct mount (IAG-D)
- Motion occupancy sensor/control - ceiling mount (MC-C), wall mount (MC-W)
- Smoke Detector - duct mount (SD-D)
- Electric duct heater - EX series (1-175 kW)
- Indirect gas-fired duct furnace - GH series
- (50-400 MBH), installed downstream of any fans

**Airflow Performance**

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**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.

**Electrical Data**

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<tr>
<th>HP</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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**Optional Factory Installed VFD Electrical Specifications**

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<th>Min. Cir. Amps</th>
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**Core Performance**

Airflow (CFM)

<table>
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<tr>
<th>Effectiveness (%)</th>
<th>Airflow (CFM)</th>
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<tbody>
<tr>
<td>70%</td>
<td>6000</td>
</tr>
<tr>
<td>50%</td>
<td>4000</td>
</tr>
<tr>
<td>30%</td>
<td>2000</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.

Download specification at: renewaire.com/specifications
**LE6XINV** Energy Recovery Ventilator Standard

---

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

---

**Model:** LE6XINV
**Drawing Type:** Unit Dimension

---

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

**Installation Orientation**
Unit must be installed in orientation shown.

**Note:**
1. Unless otherwise specified, dimensions are rounded to the nearest eighth of an inch.
2. Specifications may be subject to change without notice.
3. Min. duct clearance from damper blades when fully opened to be 2". SMACNA rules apply.

---

**Unit Mounting & Application**
Must be mounted as shown. RA/EA airstream can be switched with OAF/A airstream unless certain options are selected.

---
Energy Recovery Ventilator
Standard

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

**Typical Airflow Range:**
1,500-6,600 CFM

**AHRI 1060 Certified Core:**
Six L125-65

**Standard Features:**
TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24 VAC transformers/relay package
Cross-core differential pressure ports

**Filters:**
Total qty. 12, MERV 8: 20" x 25" x 2"

**Unit Dimensions & Weight:**
111 1/4" L x 125 1/2" W x 71 1/4" H
Modular (per module): 1,069-1,461 lbs., varies by option(s)
Assembled (1-piece): 2,086-2,753 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
Modular (2-modules) 80" L x 90" W x 78" H
Module 1 - 1,602 lbs., Module 2 - 1,491 lbs.
Assembled (1-piece) 160" L x 90" W x 78" H - 3,035 lbs.

**Motor(s):**
Qty. 2. Belt drive blower/standard motor packages with choice of adjustable sheaves for low, medium or high speed (see table below)

**Options:**
Spring vibration isolators
Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls - enhanced, premium
Class 1 low leakage motorized isolation dampers - OA, RA or both airstreams
Qty. 2. Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

**Accessories:**
Filters - MERV 13, 2" or 4"; MERV 8, 4" (shipped loose)
Roof curb - standard 14"
Curb wind clip
Engineered combo curb for Carrier RTU
Engineered combo curb for Trane RTU
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)
Smoke Detector - duct mount (SD-D)
Electric duct heater - EX series (1-175 kW); designed for indoor ductwork installation only
Indirect gas-fired duct furnace - GH series

**Typical Airflow Range:**
1,500-6,600 CFM

---

### AIRFLOW PERFORMANCE

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<tr>
<th>Airflow CFM</th>
<th>External Static Pressure (in.w.g.)</th>
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<td>0.00</td>
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<td>BHP RPM</td>
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<tr>
<td>1500</td>
<td>0.9 840 1.1 920 1.5 990</td>
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<td>2000</td>
<td>0.9 770 1.1 860 1.4 940 1.7 1010</td>
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<tr>
<td>2500</td>
<td>1.1 800 1.3 880 1.7 950</td>
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<tr>
<td>3000</td>
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<tr>
<td>3500</td>
<td>1.6 860 1.8 930 2.1 1000</td>
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<td>4.2 1140 4.4 1310 4.6 1360</td>
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**ELECTRICAL DATA**

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<thead>
<tr>
<th>Standard Electrical Specifications</th>
<th>Optional Factory Installed VFD Electrical Specifications</th>
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<td>HP</td>
<td>Volts</td>
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<td>----</td>
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<td>3.0</td>
<td>208-230</td>
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<td>460</td>
</tr>
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**CORE PERFORMANCE**

<table>
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<th>Airflow (CFM)</th>
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<td>1000</td>
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<tr>
<td>1.50</td>
</tr>
<tr>
<td>1.75</td>
</tr>
<tr>
<td>2.00</td>
</tr>
</tbody>
</table>

**Effectiveness (%)**

Sensible: 70%
Winter Total: 90%
Summer Total: 50%

At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahnret.org.

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

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

**Typical Airflow Range:** 2,000-8,800 CFM

**AHRI 1060 Certified Core:** Eight L125-G5

**Standard Features:**
- TECF Premium efficiency motors
- Motor starters
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

**Filters:** Total qty. 16, MERV 8: 20" x 25" x 2"

**Unit Dimensions:**
- 80 1/2" L x 165" W x 71 1/4" H
- Modular (per module) 1,214-1,672 lbs., varies by option(s)
- Assembled (1-piece) 2,479-3,279 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- Modular (2-modules) 100" L x 90" W x 78" H
- Module 1 – 1,852 lbs., Module 2 – 1,789 lbs.
- Assembled (1-piece) 200" L x 90" W x 78" H - 6,368 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with choice of adjustable sheaves for low, medium or high blower speed (see table below)

**Options:**
- Spring vibration isolators
- Onboard variable frequency drives (VFDs) – one or both airstreams
- Shaft grounding ring on motors with VFDs
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Class 1 low leakage motorized isolation dampers - OA, RA or both airstreams
- Qty. 2, Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint – white, custom colors

**Accessories:**
- Filters - MERV 13, 2", or 4"; MERV 8, 4" (shipped loose)
- Digital time clock - wall mount (TC70-W), in exterior enclosure (TC70-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)
- Smoke Detector - duct mount (SD-D)
- Electric duct heater - HK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50–400 MBH), installed downstream of any fans

### Airflow Performance

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<tr>
<th>Airflow CFM</th>
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<th>0.25</th>
<th>0.50</th>
<th>0.75</th>
<th>1.00</th>
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<td>RPM</td>
<td>BHP</td>
<td>RPM</td>
<td>BHP</td>
<td>RPM</td>
<td>BHP</td>
<td>RPM</td>
<td>BHP</td>
<td>RPM</td>
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<td>790</td>
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<td>870</td>
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<td>940</td>
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<td>1050</td>
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<td>1110</td>
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**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.

### Electrical Data

<table>
<thead>
<tr>
<th>HP</th>
<th>Volts</th>
<th>Hz</th>
<th>Phase</th>
<th>FLA per motor</th>
<th>Min. Air.</th>
<th>Max. Overcurrent Protection Device</th>
<th>FLA per motor</th>
<th>Min. Air.</th>
<th>Max. Overcurrent Protection Device</th>
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<td>Three</td>
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<td>14.5-13.4</td>
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<td>21.0-19.0</td>
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</table>

**Specifications** may be subject to change without notice.
**LE8XINH** Energy Recovery Ventilator Standard

---

**AIRFLOW PERFORMANCE**

- 2000 CFM: 1.0 HP, 680 CFM
- 3000 CFM: 1.3 HP, 790 CFM
- 4000 CFM: 1.5 HP, 870 CFM
- 5000 CFM: 1.8 HP, 940 CFM
- 6000 CFM: 2.0 HP, 1000 CFM
- 6250 CFM: 2.2 HP, 1060 CFM
- 7000 CFM: 2.4 HP, 1100 CFM
- 8000 CFM: 3.5 HP, 840 CFM

---

**SPECIFICATIONS & DIMENSIONS**

- **Electrical Data**
  - **7.5 HP**
    - **3.0 HP**
      - 208-230 V
      - 60 Hz
      - 1 phase
  - **2000 CFM**
    - **1.0 HP**
      - 208-230 V
      - 60 Hz
      - 1 phase
  - **3000 CFM**
    - **1.3 HP**
      - 208-230 V
      - 60 Hz
      - 1 phase
  - **4000 CFM**
    - **1.5 HP**
      - 208-230 V
      - 60 Hz
      - 1 phase
  - **5000 CFM**
    - **1.8 HP**
      - 208-230 V
      - 60 Hz
      - 1 phase
  - **6000 CFM**
    - **2.0 HP**
      - 208-230 V
      - 60 Hz
      - 1 phase
  - **6250 CFM**
    - **2.2 HP**
      - 208-230 V
      - 60 Hz
      - 1 phase
  - **7000 CFM**
    - **2.4 HP**
      - 208-230 V
      - 60 Hz
      - 1 phase
  - **8000 CFM**
    - **3.5 HP**
      - 208-230 V
      - 60 Hz
      - 1 phase

---

**ABBRVIATIONS**

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

**INSTALLATION ORIENTATION**

Unit must be installed in orientation shown.

**NOTE**

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2".

---

**ACCESSORIES**

- Electric duct heater - EK series (1–175 kW)
- Smoke Detector - duct mount (SD-D), ceiling mount (MC-C), wall mount (MC-W)
- Motion occupancy sensor/control - duct mount (IAQ-D), wall mount (CO2-W), duct mount (CO2-D)
- Carbon dioxide sensor/control - digital time clock - wall mount (TC7D-W)
- Filters - MERV 13, 2" or 4"; MERV 8, 4" (shipped loose)
- Motor(s): Assembled (1-piece) 200" L x 90" W x 78" H - 2,479-3,279 lbs., varies by option(s)
- Cross-core differential pressure ports
- Non-fused disconnect
- TEFC Premium efficiency motors
- Eight L125-G5 AHRI 1060 Certified Core:
  - 2,000-8,800 CFM
  - Typical Airflow Range:
  - Static plate, heat and humidity transfer
  - Ventilation Type:
    - PER THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEWAIRE.COM

---

**DATA SHEET**

- **Maximum Inlet Pressures**
  - 575 in.w.g.
  - 5.3 in.w.g.
  - 6.7 in.w.g.
  - 3.3 in.w.g.

---

**UNIT MOUNTING & APPLICATION**

Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.

---

**FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEWAIRE.COM**
### Energy Recovery Ventilator Standard

#### SPECIFICATIONS

- **Ventilation Type:** Static plate, heat and humidity transfer
- **Typical Airflow Range:** 2,000-8,800 CFM
- **AHRI 1060 Certified Core:** Eight L125-G5
- **Standard Features:**
  - TEFC Premium efficiency motors
  - Motor starters
  - Non-fused disconnect
  - 24 VAC transformer/relay package
  - Cross-core differential pressure ports
- **Filters:** Total qty. 16, MERV 8.20” x 25” x 2”

#### UNIT DIMENSIONS & WEIGHT

- **Unit Dimensions & Weight:** 81 1/2” L x 165” W x 71 1/4” H
- **Max. Weight (per module):** 918-1,984 lbs., varies by option(s)

#### AIRFLOW PERFORMANCE

<table>
<thead>
<tr>
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<th>0.50</th>
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<th>1.00</th>
<th>1.25</th>
<th>1.50</th>
<th>1.75</th>
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#### ELECTRICAL DATA

### CORE PERFORMANCE

- **Airflow (CFM):**
  - **900:** 30%
  - **1200:** 45%
  - **1500:** 60%
  - **1800:** 75%
  - **2100:** 90%

- **Effective (CFM):**
  - **30%:**
  - **60%:**
  - **90%:**
  - **120%:**
  - **150%:**

- **Total:**
  - **75%:**
  - **100%:**
  - **125%:**

**Specifications may be subject to change without notice.**
LE8XINV Energy Recovery Ventilator Standard

**SPECIFICATIONS & DIMENSIONS**

**ELECTRICAL DATA**

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**INDOOR UNIT**

- **Energy Recovery Ventilator**
  - Standard
  - Available as shown in dimension drawing.

**VENTILATION TYPE**

- Static plate, heat and humidity transfer

**VFD ELECTRICAL SPECIFICATIONS**

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**OPTIONS**

- See all AHRI certified ratings at www.ahrinet.org.
- At AHRI 1060 standard conditions.

**INSTALLATION ORIENTATION**

- Unit must be installed in orientation shown.

**NOTE**

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. DUCT CLEARANCE FROM DAMPER BLADES WHEN FULLY OPENED TO BE 2": SMACNA RULES APPLY.

**ABBREVIATIONS**

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

**UNITS MOUNTING & APPLICATION**

- Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.
**SPECSIFICATIONS & DIMENSIONS**

**LE 8XRT ROOFTOP UNIT**

**LE10XRT shown**

Download specification at: renewaire.com/specifications

---

**SPECIFICATIONS**

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

**Typical Airflow Range:** 2,000-8,800 CFM

**AHRI 1060 Certified Core:** Eight L125-G5

**Standard Features:**
- TEFC Premium efficiency motors
- Motor starters
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

**Filters:**
- Total qty. 16, MERV 8: 20" x 25" x 2"

**Unit Dimensions & Weight:**
- 111 1/4" L x 165 1/2" W x 71 1/4" H
- Modular (per module) 1,311-1,806 lbs., varies by option(s)
- Assembled (1-piece) 2,631-3,453 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- Modular (2-modules) 100" L x 90" W x 78" H, Module 1 - 1,986 lbs., Module 2 - 1,917 lbs.
- Assembled (1-piece) 200" L x 90" W x 78" H - 3,612 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with choice of adjustable sheaves for low, medium or high blower speed (see table below)

**AIRFLOW PERFORMANCE**

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**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.

**ELECTRICAL DATA**

**Standard Electrical Specifications**

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<th>Max. Overcurrent Protection Device</th>
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**Optional Factory Installed VFD Electrical Specifications**

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**Effectiveness (%)**

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**At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.
**ROOFTOP UNIT SPECIFICATIONS**

| Capacity       | CFM     | Speed  | BHP RPM BHP RPM BHP RPM BHP RPM BHP RPM BHP RPM BHP RPM BHP RPM BHP RPM |
|----------------|---------|--------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 2000           | 6500    | 3 HP   | 1.7 660 2.1 750 2.5 830 3.0 910 3.5 970 4.0 1030 4.5 1090 5.1 1140 5.6 1190 |
| 2500           | 7500    | MED    | 2.8 800 3.4 880 4.0 950 4.5 1010 5.1 1060 5.7 1110 6.3 1160 6.8 1210 7.4 1250 |
| 3000           | 5750    | MED    | 3.5 970 4.0 1030 4.5 1090 5.1 1140 5.6 1190 6.3 1240 |
| 5000           | 7750    | HIGH   | 4.5 1090 5.1 1140 5.7 1190 6.3 1240 |
| 6000           | 8000    | HIGH   | 5.1 1140 5.7 1190 6.3 1240 |
| 7000           | 8500    | MED    | 5.4 990 6.0 1050 6.7 1100 7.3 1140 |
| 8000           | 8800    | MED    | 5.9 1020 6.5 1070 7.1 1120 |

**Abbreviations**
- EA: Exhaust Air to outside
- OA: Outside Air intake
- RA: Room Air to be exhausted
- RTV: Rooftop Vertical RA & FA
- RTR: Rooftop Vertical RA Only

**Installation Orientation**
Unit must be installed in orientation shown.

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

**Curb Cross-Section A-A (Typ.)**
- Neoprene Gasket
- 3/4" x 3 1/2" Wooden Nailer

**Section A-A**
- 3" Neoprene Gasket
- 1 1/2" x 1 1/4"

**Airflow Configuration**
Available as shown:

**Unit Mounting & Application**
Must be mounted as shown. Airstreams can not be switched.
**LE10XINH**

**INDOOR UNIT**

Download specification at: renewaire.com/specifications

**AERIAL PERFORMANCE**

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</table>

**VENTILATION**

- Static plate, heat and humidity transfer
- Includes effect of clean, standard filter supplied with unit.

**INDOOR UNIT SPECIFICATIONS & DIMENSIONS**

- **3 HP LOW SPEED**
  - Airflow: 1,170 CFM
  - Voltage: 208-230 V
  - Hertz: 60
  - Phase: Single
- **3 HP MEDIUM SPEED**
  - Airflow: 1,760 CFM
  - Voltage: 208-230 V
  - Hertz: 60
  - Phase: Single
- **3 HP HIGH SPEED**
  - Airflow: 2,350 CFM
  - Voltage: 208-230 V
  - Hertz: 60
  - Phase: Single

**External Static Pressure (in.w.g.)**

- **0.00**
  - 3 HP LOW SPEED: 1.170 in.w.g.
  - 3 HP MEDIUM SPEED: 1.760 in.w.g.
  - 3 HP HIGH SPEED: 2.350 in.w.g.
- **0.25**
  - 3 HP LOW SPEED: 1.314 in.w.g.
  - 3 HP MEDIUM SPEED: 1.855 in.w.g.
  - 3 HP HIGH SPEED: 2.435 in.w.g.
- **0.50**
  - 3 HP LOW SPEED: 1.557 in.w.g.
  - 3 HP MEDIUM SPEED: 2.106 in.w.g.
  - 3 HP HIGH SPEED: 2.694 in.w.g.
- **0.75**
  - 3 HP LOW SPEED: 1.800 in.w.g.
  - 3 HP MEDIUM SPEED: 2.350 in.w.g.
  - 3 HP HIGH SPEED: 2.937 in.w.g.
- **1.00**
  - 3 HP LOW SPEED: 1.954 in.w.g.
  - 3 HP MEDIUM SPEED: 2.513 in.w.g.
  - 3 HP HIGH SPEED: 3.101 in.w.g.
- **1.25**
  - 3 HP LOW SPEED: 2.108 in.w.g.
  - 3 HP MEDIUM SPEED: 2.672 in.w.g.
  - 3 HP HIGH SPEED: 3.259 in.w.g.
- **1.50**
  - 3 HP LOW SPEED: 2.262 in.w.g.
  - 3 HP MEDIUM SPEED: 2.836 in.w.g.
  - 3 HP HIGH SPEED: 3.423 in.w.g.
- **1.75**
  - 3 HP LOW SPEED: 2.416 in.w.g.
  - 3 HP MEDIUM SPEED: 3.000 in.w.g.
  - 3 HP HIGH SPEED: 3.600 in.w.g.
- **2.00**
  - 3 HP LOW SPEED: 2.570 in.w.g.
  - 3 HP MEDIUM SPEED: 3.164 in.w.g.
  - 3 HP HIGH SPEED: 3.763 in.w.g.

**Options:**

- Spring vibration isolators
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Class 1 low leakage motorized isolation dampers - OA, RA or both
- Qty. 2 Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>HP</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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<tr>
<td>3.0</td>
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<td>33.1</td>
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<td>60.8</td>
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</table>

**Effectiveness (%):**

- **Sensible**
  - At AHRI 1060 standard conditions.
  - See all AHRI certified ratings at www.ahrinet.org.
- **Winter Total**
  - **Summer Total**

**CORE PERFORMANCE**

**Energy Recovery Ventilator**

**Useful for:**

- Large commercial building
- Residential and commercial
- Institutional

**Ratings:**

- AHRI 1060 Certified Core: Ten L125-G5
- Energy Star certified

**Performance:**

- Indoor temperature control
- Outdoor temperature control
- Humidity control
- Airflow control
- Fan speed control
- Energy management
- CATV control

**Features:**

- Modular design
- Quiet operation
- Durable construction
- Easy maintenance

**Applications:**

- Office buildings
- Schools
- Hospitals
- Hotels
- Shopping centers

**Accessories:**

- Filters - MERV 13, 2" or 4"; MERV 8, 4" (shipped loose)
- Smoke Detector - duct mount (SD-D), ceiling mount (MC-C), wall mount (MC-W)
- Motion occupancy sensor/control - indoor enclosure (TC7D-E), digital time clock - wall mount (TC7D-W), carbon dioxide sensor/control - wall mount (CO2-W), duct mount (CO2-D)
- Shaft grounding ring on motors with VFDs

**Additional Options:**

- Enhanced, premium
- Overcurrent Protection
- Non-fused disconnect
- Rubber vibration isolators
- Exterior paint - standard colors
- Double wall construction
- One or both airstreams
- Flow restoration dampers
- External static pressure (in.w.g.)
- Spring vibration isolators
- Onboard variable frequency drives (VFDs)
## ELECTRA PERFORMANCE

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>External Static Pressure (in.w.g.)</th>
<th>3 HP LOW SPEED</th>
<th>3 HP MEDIUM SPEED</th>
<th>3 HP HIGH SPEED</th>
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Note: Airflow performance includes effect of clean, standard filter supplied with unit.

## ELECTRICAL DATA

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<tr>
<th>HP</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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<th>Max. Overcurrent Protection Device</th>
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<td>Single</td>
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## CORE PERFORMANCE

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<th>Summer Total</th>
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<td>75%</td>
<td>70%</td>
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<td>55%</td>
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<td>8000</td>
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<td>45%</td>
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</tr>
<tr>
<td>10000</td>
<td>40%</td>
<td>35%</td>
<td>30%</td>
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Specifications may be subject to change without notice.

Accessories:
- Filters
- VFDs
- IAQ sensors
- Motion occupancy sensors
- Carbon dioxide sensors
- Digital time clocks
- Electric duct heaters
- Gas-fired duct furnaces
- Marine ventilation systems
- Air handling units

Options:
- Variable air volume systems
- Centrifugal fans
- Vane dampers
- Motorized dampers
- Heat recovery systems
- Humidity control systems
- Energy conservation systems

## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Indoor Unit Specifications &amp; Dimensions</th>
</tr>
</thead>
</table>

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

**SPECIFICATIONS**

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

**Typical Airflow Range:** 2,500-11,000 CFM

**AHRI 1060 Certified Core:** Ten LT25-G5

**Standard Features:**
- TEC Premium efficiency motors
- Motor starters
- Non-fused disconnect
- 24 VAC transformer/relay package
- Rubber vibration isolators
- Cross-core differential pressure ports

**Filters:**
- Total qty. 20, MERV 8; 20" x 25" x 2"

**Unit Dimensions & Weight:**
- 111 1/4" L x 205 1/2" W x 71 1/4" H Moduar (per module) 1,400-2,057 lbs., varies by option(s)
- (2-modules) 120" L x 90" W x 78" H - 4,433 lbs.

**Max. Shipment Dimensions & Weight (on pallet):**
- Modular (per module) 1,493-2,057 lbs., varies by option(s)

**Motor(s):**
- Qty. 2. Belt drive blower/standard motor packages with choice of adjustable sheaves for low, medium or high blower speed. (see table below)

**Options:**
- Spring vibration isolators
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Class 1 low leakage motorized isolation dampers - OA, RA or both
- Qty. 2. Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

**Accessories:**
- Filters - MERV 13, 2" or 4"; MERV 8, 4" (shipped loose)
- Motion occupancy sensor/control - enhanced, premium
- Carbon dioxide sensor/control - wall mount (C7D-W), duct mount (C02-D)
- Smoke Detector - duct mount (SD-D)
- Electric duct heater - ED (series (1-750 kW); designed for indoor ductwork installation only
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

**ELECTRICAL DATA**

**Standard Electrical Specifications**

<table>
<thead>
<tr>
<th>HP</th>
<th>Volts</th>
<th>HZ</th>
<th>Phase</th>
<th>FLA per motor</th>
<th>Min. Cir. Amps</th>
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**Optional Factory Installed VFD Electrical Specifications**

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<th>Volts</th>
<th>HZ</th>
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<td>60</td>
<td>Three</td>
<td>27.0-24.4</td>
<td>60.8</td>
<td>80</td>
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</tbody>
</table>

**CORE PERFORMANCE**

**Airflow (CFM)**

<table>
<thead>
<tr>
<th>HP</th>
<th>Volts</th>
<th>HZ</th>
<th>Phase</th>
<th>FLA per motor</th>
<th>Min. Cir. Amps</th>
<th>Overcurrent Protection Device</th>
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</thead>
<tbody>
<tr>
<td>3.0</td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>9.38-8.48</td>
<td>21.1</td>
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<tr>
<td>3.0</td>
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<td>60</td>
<td>Three</td>
<td>9.38-8.48</td>
<td>21.1</td>
<td>25</td>
</tr>
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<td>5.0</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>14.5-13.4</td>
<td>32.6</td>
<td>45</td>
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<tr>
<td>5.0</td>
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<td>60</td>
<td>Three</td>
<td>14.5-13.4</td>
<td>32.6</td>
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<tr>
<td>7.5</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>21.0-19.0</td>
<td>47.3</td>
<td>60</td>
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<tr>
<td>7.5</td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>21.0-19.0</td>
<td>47.3</td>
<td>60</td>
</tr>
<tr>
<td>7.5</td>
<td>575</td>
<td>60</td>
<td>Three</td>
<td>21.0-19.0</td>
<td>47.3</td>
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</tr>
<tr>
<td>10.0</td>
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<td>27.0-24.4</td>
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</tr>
<tr>
<td>10.0</td>
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<td>27.0-24.4</td>
<td>60.8</td>
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<tr>
<td>10.0</td>
<td>575</td>
<td>60</td>
<td>Three</td>
<td>27.0-24.4</td>
<td>60.8</td>
<td>80</td>
</tr>
</tbody>
</table>

**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.

**Download specification at:** renewaire.com/specifications
**LE10XRT (RTV/RTR) Energy Recovery Ventilator Standard**

**CURB LE10X**

- **TOP VIEW**
  - 64 1/4" O.D.
  - 60 1/2" I.D.
  - 64 1/4" O.D.
  - 19 1/2" I.D.
  - 20"
  - 25°
  - 4°
  - 36° E-Box Minimum Service Area
  - FA (RTV)
  - (2) 16 1/8" X 16 3/8" Openings
  - 69 3/4" Minimum Service Area
  - RA Damper Location (Optional)
  - Door Swing / Swing
  - Door Swing
  - 18 1/4"
  - 111" Minimum Service Area

- **LEFT VIEW**
  - 13 3/8" X 15 1/2" Electrical Connection Cover
  - E-Box Disconnect Switch
  - 84 5/8" 44 5/8"
  - 47 1/4"
  - 53 1/2"
  - 49 3/8"
  - 51 1/4"
  - 47 1/4"
  - 29 5/8"
  - 22 1/2"
  - 16 1/8"
  - 11 3/8"
  - 11 3/8"

- **FRONT VIEW**
  - 4 1/2"
  - 4 1/2"
  - 3/4" X 3 1/2"
  - 73 3/8"
  - 73 3/8"

- **RIGHT VIEW**
  - 79 5/8"
  - 69 1/8" Case

**Curb Cross-Section A-A (Typ.)**

- 1 1/2" X 1/4" Neoprene Gasket
- 3/4" X 3 1/2" Wooden Nailer
- 3" 14" 3/4"
- 3/4"

**Installation Orientation**
- Unit must be installed in orientation shown.

**Note:**
- 1. Unless otherwise specified, dimensions are rounded to the nearest eighth of an inch.
- 2. 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
- RTV: Rooftop Vertical RA & FA
- RTR: Rooftop Vertical RA Only

**Airflow Configuration**
Available as shown:

- RTV
- RTR

**Unit Mounting & Application**
Must be mounted as shown. Airstreams cannot be switched.
**LE10XRT (RTH/RTF)**  
Energy Recovery Ventilator  
Standard

---

### Specifications & Dimensions

**CURB LE10X**

- **64 1/4" O.D.**
- **19 1/2" I.D.**
- **41 1/8" H.**
- **60 1/2" L.**

**TOP VIEW**

- **13 3/8" X 15 1/2"**
- **Electrical Connection Cover**
- **Disconnect Switch**
- **Service Area**

**E-Box**

- **Minimum Service Area**
- **Cover**

**PORTS & HOLES**

- **(4) Pressure Ports**
- **(5) Knockouts**

**Duct Receiving Flange**

- **48" X 24"**

**FRONT VIEW**

- **2" Duct Flange**
- **RTH, RTF only**

**SIDE VIEW**

- **29 5/8"**
- **53 1/2"**

**OPTIONS & ACCESSORIES**

- **Disconnect fuses and motor starters**
- **Independent blower control (IBC) - available as an option for HE1X and HE1.5X**
- **Class 1, low leakage**
- **Robust, reliable actuators for highest dependability**
- **Automatic operation with spring return in event of power loss**
- **Damper(s) are factory mounted and wired (except in HE1XIN - shipped loose)**
- **Factory mounted airflow switches - one for each airstream**
- **Allows for remote indication of loaded (dirty) filter**
- **White and custom colors available**
- **EXTERIOR PAINT**
- **FILTER ALARM**
- **VARIABLE FREQUENCY DRIVE**
- **Factory supplied and mounted variable frequency drives (VFDs)**

**UNIT MOUNTING & APPLICATION**

- **Must be mounted as shown. Airstreams can not be switched.**

---

**ABBREVIATIONS**

- EA: Exhaust Air to outside
- OA: Outside Air intake
- RA: Room Air to be exhausted
- FA: Fresh Air to inside
- RTF: Rooftop Vertical FA Only
- RTH: Rooftop Horizontal RA & FA

**INSTALLATION ORIENTATION**

Unit must be installed in orientation shown.

**NOTE**

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

See individual submittal pages for availability by model.

ELECTRICAL

- Disconnect fuses and motor starters
- Independent blower control (IBC) - available as an option for HE1X and HE1.5X

VARIABLE FREQUENCY DRIVE

- Factory supplied and mounted variable frequency drives (VFDs) - one or both airstreams
- Provides additional control options
- Separate VFD for each airstream
- Display/control in electrical box - can be remotely mounted
- Pre-programmed speeds or variable speed
- Easy airflow setup using RenewAire’s standard pressure ports - cuts commissioning time
- Shaft grounding ring on motors with VFDs

MOTORIZED ISOLATION DAMPERS

- Class 1, low leakage
- Robust, reliable actuators for highest dependability
- Automatic operation with spring return in event of power loss
- Damper(s) are factory mounted and wired (except in HE1XIN - shipped loose)

FILTER ALARM

- Factory mounted airflow switches - one for each airstream
- Allows for remote indication of loaded (dirty) filter

EXTERIOR PAINT

- White and custom colors available

Specifications may be subject to change without notice.
## Integrated Programmable Controls

**AVAILABLE ON ALL EV450, HE, LE, RD AND DN-SERIES UNITS**

RenewAire’s **INTEGRATED PROGRAMMABLE CONTROLS** optimize the usability and performance of our commercial ERVs by improving functionality, enabling intelligent controls, streamlining operations and boosting efficiencies. This is accomplished via sophisticated factory-installed microprocessor controls and sensors that provide stand-alone ERVs with Direct Digital Control (DDC) and/or Building Management System (BMS) control interface.

### KEY BENEFITS

**Optimize usability:**
- Maximize ERV functionality and intelligent control via remote Ethernet accessibility and BMS connectivity without third-party interface.
- Streamline operations by easily managing and changing ERV control parameters via an advanced user interface.
- Increase uptime reliability through constant system monitoring.
- Achieve cleaner and healthier indoor air via IAQ-based ERV control.

**Increase capabilities:**
- Expand ERV connectivity via access to a wide range of open standard protocols, including BACnet and Modbus.
- Broaden ERV interoperability by connecting to third-party equipment and receiving third-party signals for unit control.
- Expand ERV-application scope by meeting new code requirements and the needs of institutional customers requiring DDC controls in mechanical equipment.

**Improve performance:**
- Support effective and efficient ERV performance with real-time data trending and logging capabilities.
- Enhance ERV control via access to real-time airflow rates, airstream temperature and airstream humidity.
- Facilitate fast and easy ERV upkeep and maintenance with real-time fan, filter and bypass status.

**Simplify operations:**
- Achieve easier ERV setup, commissioning and balancing via simple-to-install controls.
- Improve operational efficiencies by easily communicating ERV status, airflows, temperatures and humidity.
- Allow for more flexible installations by enabling ERVs to be interconnected with a BMS, operated independently or run in concert with other ERVs.

## ACCESSORIES

**AVAILABLE WITH INTEGRATED PROGRAMMABLE CONTROLS**

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Standard Controls</th>
<th>Enhanced Controls</th>
<th>Premium Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO2 sensor (wall or duct mount)*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IAQ sensor (wall or duct mount)*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupancy sensor (ceiling or wall mount)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smoke detector (duct mount)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BACnet factory activation (MS/TP or TCP/IP)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote display (handheld or wall mount)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Room Pressure Sensor (with or without display)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Duct Static Pressure Sensor (with or without display)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature Sensor Kit (wall or duct mount)**</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES**

*Sensor output is 0-10 vdc, for use as on/off or modulating control.

**Temperature Sensor Kit is for use with non-integrated heating.

Specifications may be subject to change without notice.
## OPTIONS

### Integrated Programmable Controls

#### MODELS

**STANDARD CONTROLS**
via dry contact and relays

Our ERV units are provided with a dry contact that can be used to control the unit with a variety of low-voltage (24VAC) control devices such as remote switches or relays. In addition, third-party analog output can be used to operate the ERV.

**ENHANCED CONTROLS**

Carel [c.pCOMini] with or without BACnet

Enhanced controls offer automated control, including temperature and humidity control with data trending via microprocessor controls and sensors that enable BMS connectivity.

**PREMIUM CONTROLS**

Carel [c.pCOMini] with expansion module with or without BACnet

Premium controls include all functionality of Enhanced-controls capabilities, as well as airflow and IAQ monitoring, demand control, electric or gas heating options, as well as RD-Series cooling and heating control.

#### FEATURE COMPARISON

<table>
<thead>
<tr>
<th></th>
<th>STANDARD CONTROLS</th>
<th>ENHANCED CONTROLS</th>
<th>PREMIUM CONTROLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ability to automatically enable and disable unit</td>
<td>🟢</td>
<td>🟢</td>
<td>🟢</td>
</tr>
<tr>
<td>Enable the exhaust fan only (See note 1)</td>
<td>🟢</td>
<td>🟢</td>
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</tr>
<tr>
<td>Filter alarm for both sets of filters (See note 2)</td>
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<td>🟢</td>
<td>🟢</td>
</tr>
<tr>
<td>Bypass controls† (See note 3)</td>
<td>🟢</td>
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<tr>
<td>Control isolation dampers† (See note 4)</td>
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<tr>
<td>Supply fan only modulation for VFD/EC Motor units† (See note 5 and 6)</td>
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<td>Exhaust fan only modulation for VFD/EC Motor units† (See note 5 and 6)</td>
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<tr>
<td>Internal time clock (See note 7)</td>
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<td>🟢</td>
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<tr>
<td>Defrost controls - Canada only</td>
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<tr>
<td>Smoke detection - sensor required (See note 8)</td>
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<td>Demand control ventilation using CO2 - sensor required</td>
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<tr>
<td>Occupancy-based ventilation - sensor required</td>
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<tr>
<td>IAQ control ventilation using VOC - sensor required</td>
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<td>Microprocessor controller</td>
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<tr>
<td>Provide supply and exhaust air temperatures</td>
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<td>Provide outside and return air temperature and humidity†</td>
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<td>Fan status on both fans††</td>
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<tr>
<td>Enable the supply fan only†</td>
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</tr>
<tr>
<td>Enable the exhaust fan only†</td>
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<tr>
<td>Micro USB port</td>
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<td>Modbus</td>
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<tr>
<td>Space pressure control</td>
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<td>Duct pressure control</td>
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<tr>
<td>Unit supply air temp</td>
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<tr>
<td>Heating enable</td>
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<tr>
<td>Heating modulation - staged or modulating</td>
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<tr>
<td>Cooling modulation* - staged or modulating</td>
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</tr>
</tbody>
</table>

*RD-Series units only  †Not available on EV450  ††EF fan status not available on EV450

### NOTES FOR STANDARD CONTROLS ONLY

1. Relays and terminal block (option).
2. Differential pressure sensing tube and pressure switch with manual trip point adjustment (option), wiring to switch and alarm indication provided by others.
3. Option on HE-Series (IN) and standard on RD-Series.
4. 24V transformer contactors and relays (option).
5. VFD (option). Factory installed and wired.
6. EC Motor (option) Potentiometer control factory wired.
7. Independent time clock (option).
8. External smoke detector (option), field installed in series to shut off unit in adverse conditions.

Specifications may be subject to change without notice.
ACCESSORIES

Standard Controls
Standard controls are intended to turn RenewAire commercial energy recovery ventilation systems on and off at appropriate times.Specification, installation and set-up is an easy process. RenewAire HE, LE, and RD Series units come standard with a 24 volt transformer/relay package for easy interface with all controls.

It is not necessary that RenewAire controls be used to operate RenewAire units. A wide range of controls or building automation systems may be used.

*Available with Standard or Integrated Programmable Controls.
**Only available with Integrated Programmable Controls.

DIGITAL TIME CLOCK*
- 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

CO2 SENSORS*
- 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*
- 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*
- 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.

SMOKE DETECTOR*
- Photoelectric type detector
- Plug-in sensor
- Round, square or rectangular duct mounting options
- Easy access test/reset button and LED display
- For 100-4000 fpm duct air velocity applications
- 24 VAC power requirement
- Interconnect feature for multi-fan shutdown
- Built-in short circuit protection

Specifications may be subject to change without notice.
ACCESSORIES

Controls Continued

REMOTE DISPLAY**

- Hand held or wall mount
- LED display
- Keypad for easy programming

PRESSURE SENSORS (ROOM PRESSURE/DUCT STATIC PRESSURE)**

- With or without display
- Differential pressure transmitter
- 4-20 mA or field selectable 0-10 & 0.5V output signal
- Integral barbed tubing connections that fit 1/8" and 3/16" ID tubing

BACNET FACTORY ACTIVATION**

- Allows for communication to a BAS via Bacnet NS/TP
- Factory programmed and tested

TEMPERATURE SENSOR KIT**

- Duct temperature sensors
- Hermetically sealed 304SS probe
- Operating range -40F to 210F
- Easy installation with integral mounting plate

Engineered Combo Curbs

Exclusively designed for select Trane (Voyager and Precedent) and Carrier (WeatherExpert, WeatherMaster, and Weathermaker) models, RenewAire’s engineered combo curb makes it easy to combine standard Air Handling Unit (AHU) rooftop applications with the benefits of RenewAire energy recovery ventilation. They eliminate the need for transitional ductwork between the RTU and the ERV, reducing the time and costs of installation. Simply install the curb, run the return and supply duct to the curb openings, then install the AHU and RenewAire units onto the curb. Additionally, the curbs allow the AHU unit to function in its standard operation as well as full-flow economizer modes.

Standard Construction

- Prime G-90, 18-gauge galvanized steel
- Fully welded and mitered corners (single piece curb lift)
- Base flange attachments for securing to the building structure
- 1 1/2" 3 lb. density fiberglass insulation
- Reinforced with cross channel supports on center
- Conforms to ASTM A653/A653M (standard specification for sheet metal)

Available Options (Special Order)

- Seismic and/or wind load applications
- Pitched roof applications
- High vibration applications
- Custom curb heights
- Heavier metal gauges
- Aluminum liners

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 CONFIGURABLE ELECTRIC DUCT HEATERS as an accessory to our commercial ERVs, RenewAire can now heat supply air during cooler months to enhance indoor comfort, all via one package for ERVs and heaters from a single source.

**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:** UL Listed (UL1996 Standard) and CSA certified.
Electric Duct Heater (1-175 kW)
Accessory

**SPECIFICATIONS**

**Heater Type:**
Electric Duct Heater

**Typical KW Range:**
1–175 kW

**Standard Features:**
- A disconnecting magnetic control contactor per stage or each 48 Amp circuit within a stage
- Open-coil element
- Staged on/off
- Control terminal board
- Grounding lugs
- Automatic limit switch for primary over-temperature protection
- Manual reset limit switch for secondary over-temperature protection
- Non-adjustable airflow switch
- Standard control transformer - 24 VAC
- Disconnect switch
- Duct thermostat with sensor for on/off control
- 60-20-20 (Ni/Cr/Fe) C Grade element wire with nickel-plated terminals
- Slip-in mount
- No left/right hand
- Vertical up/down flow

**Voltagess & Phase:**
- Single phase - 120, 208, 240, 277
- Three phase - 208, 240, 480, 600

**Control Voltage:**
- 24 VAC

**Dimensions:**
- Minimum - 8” x 8” (W x H)
- Maximum - 99” x 99” (W x H)

**Options:**
- Flange mount
- 80-20 (Ni/Cr) A Grade element wire with stainless steel terminals
- Recessed control box 1"
- Gasketed cover - dust tight
- Power fusing, standard for heaters drawing more than 48 Amps
- 2-stage
- Electronic step controller (4-stage)
- SCR (up to 96 Amps)
- SCR Vernier (over 96 Amps)
- Pilot light
- Accessory:
  - Room thermostat
  - Room/duct thermostat-sensor kit for SCR control

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

---

**FLIPPABLE CAPABILITIES**

Unique to the EK series, this unit has the ability to flip 180°. Additionally, EK heaters feature both vertical up and vertical down airflow.

---

**Download specification at:**
renewaire.com/specifications
RenewAire offers some of 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 providing an indoor and outdoor INDIRECT GAS-FIRED DUCT FURNACE as an accessory for our commercial ERVs, in addition to the Electric Duct Heater, RenewAire ERVs now have increased flexibility for controlling supply-air temperature during cooler months. This enhances indoor comfort, makes ERV installations easier and is possible via a single source for ERVs and furnaces.

**KEY BENEFITS**

- A single source for your ERV and furnace 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, as well as streamlines logistics for design engineers and contractors.

- Increased capabilities and flexibility: RenewAire offers design engineers the capacity to specify ERVs with a matching indoor or outdoor gas-fired furnace to increase ERV capabilities and flexibility for providing a single space or multiple spaces with tempered air conditions to equal wintertime loads.

- More and easier applications: The addition of the indoor and outdoor indirect gas-fired duct furnace as an option ensures that RenewAire ERVs can be easily specified on more applications that require gas heating of the recovered air.

- Expert guidance: The RenewAire customer-support team will provide detailed and expert guidance for how best to install the indoor and outdoor gas-fired duct furnace with an ERV.

- Ultimate reliability: RenewAire furnaces 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: ETL-listed to the requirements of ANSI Z83.8/CSA 2.6.
ACCESSORIES

Indirect Gas-Fired Duct Furnace
AVAILABLE ON ALL COMMERCIAL UNITS (SOME EXCEPTIONS APPLY)

RenewAire offers some of 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 providing an indoor and outdoor INDIRECT GAS-FIRED DUCT FURNACE as an accessory for our commercial ERVs, in addition to the Electric Duct Heater, RenewAire ERVs now have increased flexibility for controlling supply-air temperature during cooler months. This enhances indoor comfort, makes ERV installations easier and is possible via a single source for ERVs and furnaces.

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Specifications may be subject to change without notice.

FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEAIRE.COM
Indirect Gas-Fired Duct Furnace
Accessory

**SPECIFICATIONS**

**Heater Type:**
Indirect Gas-Fired Duct Furnace

**Typical Input Capacity (MBH):**
50, 75, 100, 125, 150, 175, 200, 250, 300, 350, 400

**Standard Features:**
- Tubular heaters
- Indirect natural gas fired
- Indoor installation
- 80% thermal efficiency
- Horizontal airflow
- Rated for elevations from 0 – 2,000 ft.
- 409 stainless steel heat exchanger
- 409 stainless steel burners
- Flue/combustion air – indoor models
  - Vertical (separated indoor)
  - Vertical top exhaust with louvered intake
- Direct spark ignition
- 1-stage/2-stage gas controls
- Induced draft venting
- Terminal block for power and control wiring
- Automatic high limit safety shut-off
- Auxiliary manual high limit switch
- Combustion air pressure switch
- Air proving switch
- Combination gas valve with shutoff

**Standard Features (continued):**
- Flame rollout switch
- Manual shut off valve
- 3/8” condensate drain connection

**Voltages & Phase:**
- Single phase - 120V, 208V, 230V

**Control Voltage:**
- 24 VAC

**Dimensions:**
See table 2

**Shipping:**
- Shipped loose with base unit and installed in the field

**Options:**
- Indirect propane fired fuel
- Elevation correction for elevation > 2,000 ft.
- 304 stainless steel heat exchanger
- 5:1 continuous electronic modulation for all furnaces
- 10:1 continuous electronic modulation for furnaces
  - 200 MBH and larger
- Duct thermostat for modulation control
- Disconnect switch
- Power fusing

**Accessory:**
- Duct thermostat for 1-stage/2-stage control
- Duct thermostat for modulation control

**FLUE AND COMBUSTION AIR CONFIGURATION**

**Note:** The total equivalent length of vent pipe must not exceed 50 feet. If equivalent length exceeds 50 feet refer to IOM for recommendations.

**Caution:** All indirect gas-fired duct furnaces to be installed downstream of the ERV and on the positive side of the supply fan.

**TEMPERATURE RISE AND PRESSURE DROP**

**FIGURE 1 GAS FURNACE 50-200 MBH**

**FIGURE 2 GAS FURNACE 250-400 MBH**

Specifications may be subject to change without notice.
### FIGURE 3 IN-KI (TOP EXHAUST INDOOR)

### FIGURE 4 IN-SI (SEPARATE INLET EXHAUST INDOOR)

### TABLE 2

<table>
<thead>
<tr>
<th>Size (MBH)</th>
<th>Qty Btuh</th>
<th>Input Rate</th>
<th>Output Btuh</th>
<th>Nom. Duct Opening Airflow (CFM)</th>
<th>Min/Max Temperature Rise through Furnace (°F)</th>
<th>Vent Locations</th>
<th>Diameter (in.)</th>
<th>Unit Weight (lb)</th>
<th>Shipping Weight (lb)</th>
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</table>

**Note:** For a single furnace, 20° F minimum temperature rise, 60° F maximum temperature rise.

### INDIRECT GAS-FIRED DUCT FURNACE DIMENSIONS

**NOTES**

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
ROOFTOP
Indirect Gas-Fired Duct Furnace

Download specification at:
renewaire.com/specifications

SPECIFICATIONS

Heater Type:
Indirect Gas-Fired Duct Furnace

Typical Input Capacity (MBH):
50, 75, 100, 125, 150, 175,
200, 250, 300, 350, 400

Standard Features:
Tubular heaters
Indirect natural gas fired
Outdoor installation
80% thermal efficiency
Horizontal airflow
Rated for elevations from 0 – 2,000 ft.
409 stainless steel burners
Flue/combustion air – outdoor models
   · Horizontal separated outdoor with hoods
   · Vertical top exhaust with intake hood
Direct spark ignition
2-stage gas controls
Induced draft venting
Terminal block for power and control wiring
Automatic high limit safety shut-off
Auxiliary manual high limit switch
Combustion air pressure switch
Air proving switch

Standard Features (continued):
Combination gas valve with shutoff
Flame rollout switch
Manual shut off valve
3/8" condensate drain connection

Voltages & Phase:
Single phase - 120V, 208V, 230V

Control Voltage:
24 VAC

Dimensions:
See table 1

Shipping:
Shipped loose with base unit and installed in the field

Options:
Indirect propane fired fuel
Elevation correction for elevation > 2,000 ft.
304 stainless steel heat exchanger
5:1 continuous electronic modulation for all furnaces
10:1 continuous electronic modulation for furnaces
200 MBH and larger
Duct thermostat for modulation control
Disconnect switch
Power fusing

Accessory:
Duct thermostat for 2-stage control
Duct thermostat for modulation control
Duct curb

Caution: All indirect gas-fired duct furnaces to be installed downstream of the ERV and on the positive side of the supply fan.

FLUE AND COMBUSTION AIR CONFIGURATION

TEMPERATURE RISE AND PRESSURE DROP

FIGURE 1  GAS FURNACE 50-200 MBH

FIGURE 2  GAS FURNACE 250-400 MBH

Specifications may be subject to change without notice.
INDIRECT GAS-FIRED DUCT FURNACE DIMENSIONS

TABLE 1

<table>
<thead>
<tr>
<th>MBH</th>
<th>Qty.</th>
<th>Btuh Input</th>
<th>Output</th>
<th>Nom. Duct Opening Airflow (CFM)</th>
<th>Min/Max Temperature Rise through Furnace (°F)</th>
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<th>Unit Weight</th>
<th>Shipping Weight</th>
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<td>50</td>
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<td>50,000</td>
<td>40,000</td>
<td>1852 1481 1235 1058 926 823 741 673 617</td>
<td>20 25 30 35 40 45 50 55 60 RT-NO, RT-WO, RT-ND, RT-WD</td>
<td>Diameter (W)</td>
<td>20 25 30 35 40 45 50 55 60</td>
<td>5 6</td>
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<td>75</td>
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<td>14</td>
<td>394 499</td>
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</tr>
</tbody>
</table>

Note: For a single furnace, 20°F minimum temperature rise, 60°F maximum temperature rise.

INDIRECT GAS-FIRED DUCT FURNACE DIMENSIONS

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

Specifications may be subject to change without notice.
Energy recovery component certified in accordance with AHRI Standard 1060-2013. Actual performance in packaged equipment may vary.

### AHRI 1060 CERTIFIED PERFORMANCE

AHRI 1060 Certified Performance - Model Number L125-G5

<table>
<thead>
<tr>
<th>Type</th>
<th>Tilt Angle</th>
<th>Nominal Airflow</th>
<th>Pressure Drop</th>
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<td>100% - 750 SCFM</td>
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<td>75% - 563 SCFM</td>
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</table>

<table>
<thead>
<tr>
<th>Leakage Ratings</th>
<th>Thermal Effectiveness Ratings at 0° Pressure Differential</th>
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<tbody>
<tr>
<td>Pressure</td>
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<td>0 in. H₂O</td>
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<td>1 in. H₂O</td>
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</table>

**NOTE:** SCFM = Standard Cubic Feet per Minute  OACF = Outdoor Air Correction Factor  EATR = Exhaust Air Transfer Ratio  N/A = Not Applicable
# LE SERIES MODEL CONFIGURATION GUIDE

Note: Not all options are available on every model.

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</tbody>
</table>

*NOTES:*
- Digit 6 = G5 Core Type
- Digits 16 and 17 are not used in these models.

**Restrictions:**
1. Voltage Codes "A" & "B" only available with Phase Code "3" (Three-Phase).
2. Phase Code "1" only available in Motor Codes "D", "F" & "G".
3. Motor Code "P" (7.5 HP High Speed) not available in LE-6X.
4. Motor Codes "Q" and "R" (all 10 HP Speeds) not available in LE-6X & LE-8X.
5. Some units with Customization Code "X" are not safety listed.
6. Unit Control Codes "V", "E" & "F" only available with Motor Codes "G", "L" & "N" in LE-6X.
7. Unit Control Codes "V", "E" & "F" only available with Motor Codes "G", "L", "P" & "R" in LE-8X & LE-10X.
8. Filter Code "F" not available with Unit Control Enhancements Codes "1", "2", "3" & "4". Filter Monitor is provided with those options.

For Technical Support E-mail: RenewaireSupport@renewaire.com
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EK SERIES ELECTRIC DUCT HEATER
CONFIGURATION GUIDE

Note: Not all options are available on every model.

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>DIGIT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

**DIGIT NUMBER**

<table>
<thead>
<tr>
<th>Digit 1 - 2:</th>
<th>Heater Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;EK&quot; = Electric Heater (Standard)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 4 - 5:</th>
<th>Width in Inches (see Restriction 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08-99</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 6 - 7:</th>
<th>Height in Inches (see Restriction 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08-99</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 8 - 10:</th>
<th>Capacity in kW (see Restrictions 3, 4 &amp; 5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-175</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 11:</th>
<th>Mount</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;S&quot; = Slip In (Standard)</td>
<td></td>
</tr>
<tr>
<td>&quot;F&quot; = Flanged</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 12:</th>
<th>Element Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;C&quot; = Open Coil (Standard)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 13:</th>
<th>Element Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;C&quot; = 60-20-20 Ni-Cr-Fe with Nickel Plate Terminal Pins (Standard)</td>
<td></td>
</tr>
<tr>
<td>&quot;A&quot; = 80-20 Ni-Cr with Stainless Steel Terminal Pins</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 14:</th>
<th>Airflow Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;H&quot; = Horizontal (Standard)</td>
<td></td>
</tr>
<tr>
<td>&quot;V&quot; = Vertical</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 15:</th>
<th>Control Box Offset</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;L&quot; = Left Hand (Standard)</td>
<td></td>
</tr>
<tr>
<td>&quot;R&quot; = Right Hand</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 16:</th>
<th>Control Box Recessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;*-&quot; = None (Standard)</td>
<td></td>
</tr>
<tr>
<td>&quot;R&quot; = Recessed 1&quot;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 17:</th>
<th>Control Box Dust Tight</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;*-&quot; = None (Standard)</td>
<td></td>
</tr>
<tr>
<td>&quot;D&quot; = Dust Tight</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
Digit 3 is not used in this model.
All heaters come with standard features: Disconnect Switch, Air Flow Switch (non-adjustable), Control Transformer
Descriptions of feature and options are found in the installation and operation manual.

**Restrictions:**

1. Width inches entered as a whole number.
2. Height inches entered as a whole number.
3. Heater density should be less than 30kW/ft². \( \text{DENSITY} = \frac{\text{HEATER CAPACITY (kW)}}{\text{(W" x H")/144}} < 30 \)
4. Heater capacity kW entered as a whole number.
5. Formulas for calculating kW and temperature rise: \( \text{kw} = \frac{\text{CFM} \times \Delta T}{3150} \), \( \Delta T = \frac{\text{kW} \times 3150}{\text{CFM}} \)
6. Voltage Codes "1" & "9" only available with Phase Code "1" (Single-Phase).
7. Voltage Codes "4" & "8" only available with Phase Code "3" (Three-Phase).
8. Power Fusing Code "F" required when amperage is >96A, if based on kW and voltage
9. Control Type Code "D" only available with Stage Code "1" & "2". 
10. Control Type Code "E" only available with Stage Code "4".
11. Control Type Code "S" & "V" only available with Stage Code "1", unless Stage Code is greater than or equal to 96A, then Stage Code "4" is automatically selected.
# GH SERIES INDIRECT GAS-FIRED DUCT FURNACE CONFIGURATION GUIDE

Note: Not all options are available on every model.

| MODEL NUMBER | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DIGIT NUMBER | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Digits 1 - 2: | Duct Furnace Type | "GH" = Gas Furnace 50-400 MBH |
| Digits 4 - 5: | Location | "IN" = Indoor |
| Digits 6 - 7: | Vent Location | "SI" = Separated Top Indoor |
| Digits 8 - 10: | Input Capacity in MBH | "050", "075", "100", "125", "150", "175", "200", "250", "300", "350", "400" |
| Digits 11: | Fuel Type | "N" = Natural Gas (Standard) |
| Digits 12 - 13: | Tube Material | "SS" = 409 Stainless Steel (Standard) |
| Digits 14: | Airflow Orientation | "H" = Horizontal |
| Digits 15: | Thermal Efficiency | "S" = 80% |
| Digits 16: | Elevation | "S" = 0 - 2000' (Standard) |

*NOTE: Digits 3, 21, 24 & 25 are not used in this model. All heaters come with standard features: Air Piping Switch, Auxiliary High Temperature Limit Switch Descriptions of features and options are found in the installation and operation manual.

### Restrictions:

1. Control Type Code "V" & "W" not available with Input Capacity in MBH Codes "050", "075", "100", "125", "150" & "175".
2. System/Inducer Voltage Code "2" not available with Input Capacity in MBH Codes "050", "075", "100", "125", "150", "175" & "200".
3. Power Fusing Code "F" only available with Disconnect Switch Code "D". Power Fusing Code "F" always selected when Disconnect Switch Code "D" is selected.

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FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEAIRE.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

- 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

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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
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.

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.

RENEWAIRE TEMPSERS 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.
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.