EV450 & HE SERIES
COMMERCIAL ERV CATALOG

AUGUST 2019
RENEWAIRE.COM | 800.627.4499
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.
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<tr>
<td>EV450N - STANDARD</td>
<td>Indoor</td>
<td>200-540 CFM</td>
<td>4-5</td>
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<tr>
<td>EV450N - EC MOTOR OPTION</td>
<td>Indoor</td>
<td>200-530 CFM</td>
<td>6-7</td>
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<tr>
<td>EV450RT - STANDARD</td>
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<td>240-500 CFM</td>
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<tr>
<td>EV450RT - EC MOTOR OPTION</td>
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### HE1X - Light Commercial Unitary ERV

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<td>375-1,575 CFM</td>
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<td>HE1.5XRT - EC MOTOR OPTION</td>
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<td>HE2XRTC - STANDARD</td>
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<td>500-1,700 CFM</td>
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### HE3X - Commercial Unitary ERV

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<td>750-3,300 CFM</td>
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<td>750-3,300 CFM</td>
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<td>Rooftop</td>
<td>750-3,300 CFM</td>
<td>88-90</td>
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<td>1,100-2,400 CFM</td>
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### HE4X - Commercial Unitary ERV

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<td>Indoor</td>
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<td>1,000-4,400 CFM</td>
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<td>1,000-4,400 CFM</td>
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<tr>
<td>HE4XR - STANDARD BYPASS OPTION</td>
<td>Rooftop</td>
<td>2,500-3,900 CFM</td>
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### HE6X - Commercial Unitary ERV

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<tr>
<td>HE6XIN - STANDARD</td>
<td>Indoor</td>
<td>1,500-6,500 CFM</td>
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<td>Indoor</td>
<td>1,500-6,500 CFM</td>
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<td>HE6XR - STANDARD</td>
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<td>1,500-6,500 CFM</td>
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### HE8X - Commercial Unitary ERV

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<tbody>
<tr>
<td>HE8XIN - STANDARD</td>
<td>Indoor</td>
<td>2,000-7,950 CFM</td>
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<tr>
<td>HE8XIN - STANDARD BYPASS OPTION</td>
<td>Indoor</td>
<td>2,000-7,950 CFM</td>
<td>116-117</td>
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<tr>
<td>HE8XR - STANDARD</td>
<td>Rooftop</td>
<td>2,000-7,950 CFM</td>
<td>118-119</td>
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ABOUT RENEWAIRE

RENEWAIRE ERVs
ACHIEVE SUSTAINABLE IAQ

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

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

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

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

**EV 450IN**

**INDOOR UNIT**

Download specification at: renewaire.com/specifications

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**Energy Recovery Ventilator**

**Standard**

**SPECIFICATIONS**

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

**Typical Airflow Range:**
200-540 CFM

**AHRI 1060 Certified Core:**
One L85-G5

**Standard Features:**
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

**Filters:**
- Total qty. 2, MERV 8: 14" x 20" x 2"

**Unit Dimensions & Weight:**
- 54 1/2" L x 16 3/8" W x 36 3/4" H
- 137-199 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 62" L x 42" W x 22" H
- 250 lbs.

**Motor(s), choice of:**
- Qty. 1, 0.6 HP (standard single phase)
- Qty. 1, 0.5 HP (standard three phase)

**Options:**
- Qty. 1, Variable Speed/ECM - Direct Drive Motors (see EV450IN EC Motor submittal)
- Qty. 1, 0.5 HP, 0.6 HP: 120V/1Ph/60HZ, 208-230V/1Ph/60HZ
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Qty. 2, Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

**Accessories:**
- Filters - MERV 13, 2" (shipped loose)
- Backdraft damper 10"
- Wall cap 10" - galvanized, paintable galvanneal
- Vibration isolation kit
- Hanging bracket kit
- Transition kit 10" - round, qty. 2
- Flange kit - rectangular 12" x 8", 2 flanges
- Solid state speed control kit - 115V, qty. 1, 208-230V, qty. 1
- 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)
- Louver with 10" round duct connection - 12" (W) x 12" (H)
- Electric duct heater - RH series (1-11.5 kW); EK series (1-175 kW); designed for indoor ductwork installation only

**ELECTRICAL DATA**

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<tr>
<th>HP</th>
<th>Volts</th>
<th>HZ</th>
<th>Phase</th>
<th>FLA</th>
<th>Min. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
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<td>120</td>
<td>60</td>
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<td>7.2</td>
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<tr>
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<td>0.5</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>1.7-1.5</td>
<td>2.1</td>
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<tr>
<td>0.5</td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>0.8</td>
<td>1.0</td>
<td>15</td>
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<table>
<thead>
<tr>
<th>HP</th>
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<th>HZ</th>
<th>Phase</th>
<th>FLA</th>
<th>Min. Cir. Amps</th>
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**UNIT PERFORMANCE**

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<th>ESP in H20</th>
<th>1P Watts</th>
<th>3P Watts</th>
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<tr>
<td>375</td>
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<td>420</td>
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<td>480</td>
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<td>575</td>
<td>0.00</td>
<td>690</td>
<td>610</td>
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**Note:** Watts is for the entire unit.

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

Specifications may be subject to change without notice.
EV450IN Energy Recovery Ventilator Standard

ABBREVIATIONS

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

INSTALLATION ORIENTATION

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

UNIT MOUNTING & APPLICATION

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

UNIT MOUNTING & APPLICATION

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

MODEL: EV450IN

DRAWING TYPE: UNIT DIMENSION

VERSION: MAY17

EV450

Energy Recovery Ventilator

AIRFLOW CONFIGURATION

Available as shown in dimension drawing.
**EV450IN**

**INDOOR UNIT**

**SPECIFICATIONS & DIMENSIONS**

Specifications may be subject to change without notice.

**INDOOR UNIT SPECIFICATIONS**

Accessories:
- Filters - MERV 13, 20" (shipped loose)
- Backdraft damper 10"
- Wall cap 10" - galvanized, paintable galvanneal
- Vibration isolation kit
- Hanging bracket kit
- Transition kit - 10" round, qty. 2
- Flange kit - rectangular 10" x 8", 2 flanges
- Potentiometer speed control - remote installed
- 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)
- Louver with 10" round duct connection - 12" (W) x 12" (H)
- Electric duct heater - RH series (1–11.5 kW); EK series (1–175 kW); designed for indoor ductwork installation only

Ventilation Type:
- Static plate, heat and humidity transfer

Typical Airflow Range: 200-530 CFM

AHRI 1060 Certified Core: One LBS-G5

Standard Features:
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

**FILTERS**
- Total qty. 2, MERV 8: 14" x 20" x 2"

**UNIT DIMENSIONS & WEIGHT**
- 54 1/2" L x 16 3/8" W x 36 3/4" H
- 140-202 lbs., varies by option(s)

**MAX. SHIPPING DIMENSIONS & WEIGHT (ON PALLET):**
- 62" L x 42" W x 22" H
- 250 lbs.

**MOTOR(S):**
- Qty. 1, 0.5 HP, Direct drive EC blower/motor package

**OPTIONS:**
- Fused disconnect
- Integrated programmable controllers - enhanced, premium
- Qty. 2, Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

**EC MOTOR OPTION 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>229</td>
<td>0.07</td>
<td>75</td>
</tr>
<tr>
<td>321</td>
<td>0.16</td>
<td>171</td>
</tr>
<tr>
<td>395</td>
<td>0.25</td>
<td>284</td>
</tr>
<tr>
<td>458</td>
<td>0.34</td>
<td>410</td>
</tr>
<tr>
<td>491</td>
<td>0.40</td>
<td>506</td>
</tr>
<tr>
<td>209</td>
<td>0.20</td>
<td>80</td>
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<tr>
<td>289</td>
<td>0.43</td>
<td>188</td>
</tr>
<tr>
<td>350</td>
<td>0.67</td>
<td>315</td>
</tr>
<tr>
<td>396</td>
<td>0.90</td>
<td>447</td>
</tr>
<tr>
<td>416</td>
<td>1.00</td>
<td>515</td>
</tr>
</tbody>
</table>

Note: Watts is for the entire unit.

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</th>
<th>Min. Circ. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>8.1</td>
<td>10.1</td>
<td>15</td>
</tr>
<tr>
<td>0.5</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>4.8</td>
<td>6.0</td>
<td>15</td>
</tr>
</tbody>
</table>

Note: Volts is for the entire unit.

Download specification at: renewaire.com/specifications

Note: Indirect Gas-Fired Duct Furnace is not available on the EV450IN.
**EV450IN** Energy Recovery Ventilator  EC Motor Option

_**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.

- **AIRFLOW CONFIGURATION**
  Available as shown in dimension drawing.

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

**SPECIFICATIONS**

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

**Typical Airflow Range:** 240-500 CFM

**AHRI 1060 Certified Core:** One L85-G5

**Standard Features:**
- Non-fused disconnect
- 24 VAC transformer/relay package
- Filters: Total qty. 2, MERV 8: 14" x 20" x 2"

**Unit Dimensions & Weight:**
- 75" L x 36 1/2" W x 19 1/4" H
- 184-243 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 96" L x 47" W x 25" H
- 350 lbs.

**Motor(s), choice of:**
- Qty. 1, 0.6 HP (standard single phase)
- Qty. 1, 0.5 HP (standard three phase)

**Options:**
- Qty. 1, Variable Speed/ECM - Direct Drive Motors (see EV450IN EC Motor submittal) - 0.5 HP, 120V/1Ph/60Hz
- 0.5 HP, 208-230V/1Ph/60Hz
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Qty. 2, Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

**Accessories:**
- Filters - MERV 13, 2" (shipped loose)
- Solid state speed control kit - 115V, qty. 1
- 208-230V, qty. 1
- RA/FA Horizontal plenum box - RTC/RTF configuration
- RA/FA Vertical and horizontal plenum box - RT/R/RT configuration
- Rooftop adapter transition paint - white, custom colors
- 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 - EK series (1–175 kW); designed for indoor ductwork installation only

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>HP</th>
<th>Volts</th>
<th>HZ</th>
<th>Phase</th>
<th>FLA</th>
<th>Min. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.6</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>7.2</td>
<td>9.0</td>
<td>15</td>
</tr>
<tr>
<td>0.6</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>3.9-3.6</td>
<td>4.9</td>
<td>15</td>
</tr>
<tr>
<td>0.6</td>
<td>277</td>
<td>60</td>
<td>Single</td>
<td>3.5</td>
<td>4.4</td>
<td>15</td>
</tr>
<tr>
<td>0.5</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>1.7-1.5</td>
<td>2.1</td>
<td>15</td>
</tr>
<tr>
<td>0.5</td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>0.8</td>
<td>1.0</td>
<td>15</td>
</tr>
</tbody>
</table>

**UNIT PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow CFM</th>
<th>ESP in H2O</th>
<th>Watts 1P</th>
<th>Watts 3P</th>
</tr>
</thead>
<tbody>
<tr>
<td>240</td>
<td>1.00</td>
<td>425</td>
<td>243</td>
</tr>
<tr>
<td>375</td>
<td>0.75</td>
<td>493</td>
<td>341</td>
</tr>
<tr>
<td>450</td>
<td>0.50</td>
<td>534</td>
<td>412</td>
</tr>
<tr>
<td>500</td>
<td>0.25</td>
<td>563</td>
<td>461</td>
</tr>
<tr>
<td>550</td>
<td>0.00</td>
<td>593</td>
<td>516</td>
</tr>
</tbody>
</table>

**Note:** Watts is for the entire unit.

**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.
EV450RT Energy Recovery Ventilator Standard

ABBREVIATION
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.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams cannot be switched. Rooftop adapter accessories can be used to provide RTR and RTF (45RTRF) or RTH and RTC (45RTCH) airflow.
Ev 450RT

Energy Recovery Ventilator
EC Motor Option

Specifications

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 200-510 CFM

AHRI 1060 Certified Core: One L85-G5

Standard Features:
Non-fused disconnect
24 VAC transformer/relay package

Filters:
Total qty. 2, MERV 8: 14" x 20" x 2"

Unit Dimensions & Weight:
75" L x 36 1/2" W x 19 1/4" H
187-246 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
96" L x 47" W x 25" H
350 lbs.

Motor(s):
Qty. 1, 0.5 HP, Direct drive EC blower/motor package

Options:
Fused disconnect
Integrated programmable controls - enhanced, premium
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:
Filters - MERV 13, 2" (shipped loose)
Potentiometer speed control - remote installed
RA/FA Horizontal plenum box - RTC/RTH configuration
RA/FA Vertical and horizontal plenum box - RTR/RTF configuration
Rooftop adapter transition paint - white, custom colors
Roof curb - standard 14"
Curb wind clip
Engineered combo curb for Trane RTU
Engineered combo curb for Carrier 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 - EK series (1–175 kW); designed for indoor ductwork installation only

Note: Indirect Gas-Fired Duct Furnace is not available on the EV450RT.

EC MOTOR OPTION 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>217</td>
<td>0.07</td>
<td>78</td>
</tr>
<tr>
<td>305</td>
<td>0.16</td>
<td>180</td>
</tr>
<tr>
<td>375</td>
<td>0.25</td>
<td>301</td>
</tr>
<tr>
<td>435</td>
<td>0.34</td>
<td>426</td>
</tr>
<tr>
<td>467</td>
<td>0.40</td>
<td>520</td>
</tr>
<tr>
<td>200</td>
<td>0.20</td>
<td>85</td>
</tr>
<tr>
<td>274</td>
<td>0.43</td>
<td>196</td>
</tr>
<tr>
<td>332</td>
<td>0.67</td>
<td>324</td>
</tr>
<tr>
<td>376</td>
<td>0.90</td>
<td>451</td>
</tr>
<tr>
<td>395</td>
<td>1.00</td>
<td>502</td>
</tr>
</tbody>
</table>

Note: Watts is for the entire unit.
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</th>
<th>Min. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>8.1</td>
<td>10.1</td>
<td>15</td>
</tr>
<tr>
<td>0.5</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>4.8</td>
<td>6.0</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
## EV450RT Energy Recovery Ventilator EC Motor Option

### CURB EV450

**Dimensions:**
- O.D.: 45 3/8" (I.D.: 41 5/8"
- 13" Swing

### TOP VIEW

- **Dimensions:**
  - Overall: 74 3/4"
  - Case: 48 7/8"
- **Service Area:**
  - (Door can be removed from hinges)
  - Minimum: 14 1/4"
  - Maximum: 46"

### CURB CROSS-SECTION A-A (TYP.)

- **Dimensions:**
  - 1 1/2" X 1/4" Neoprene Gasket
  - 3/4" X 3 1/2" Wooden Nailer

### SECTION A-A

- **Dimensions:**
  - 1 7/8"
  - 14"

### LEFT VIEW

- **Dimensions:**
  - 19 1/4" Case
  - Overall: 30 5/8"
  - Lifting Lugs: 5 1/4" (Typ.)

### LEFT VIEW (Continued)

- **Dimensions:**
  - 1 1/2" X 1 1/2" (Typ.)

### RIGHT VIEW

- **Dimensions:**
  - Overall: 36 1/2"
  - Case: 34 1/4"
  - 4 7/8" Control In
  - 4 1/4" Power In

### AIRFLOW CONFIGURATION

Available as shown in dimension drawing.

### 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.

### ABBREVIATION

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

### AIRFLOW CONFIGURATION

Available as shown in dimension drawing.

### UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams can not be switched. Rooftop adapter accessories can be used to provide RTR and RTF (45RTRF) or RTH and RTC (45RTCH) airflow.
**Specs & Dimensions**

**EV 450RT**  
Energy Recovery Ventilator  
Standard or EC Motor Option

### Rooftop Curb (45Curb)

Standard roof curb shown (available option).

**Rooftop Adapter for RTR and RTF Orientations**

For horizontal connection of either the Fresh Air duct or the Return Air duct, stack the optional RTF/RTR Adapter on the standard roof curb. Duct openings to be field cut into adapter. Opening location and size is flexible.

---

**Specifications may be subject to change without notice.**
Rooftop Adapter for RTC and RTH Orientations

The RTH/RTC Adapter allows horizontal connection of both the Fresh Air and the Return Air ducts. It is also possible to connect the adapter directly to the return plenum of most rooftop units (openings must be cut into RTU). Duct openings to be field cut into adapter. Opening location and size is flexible.

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

**EV450RT with Adapter (45RTCH)**

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

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 250-925 CFM

AHRI 1060 Certified Core: One L125-G5

Standard Features:
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

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

Unit Dimensions & Weight:
54 3/4" L x 23 3/4" W x 35 3/4" H
204-275 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
63" L x 30" W x 56" H
325 lbs.

Motor(s):
Qty. 2, 0.75 HP ea., Direct drive blower/standard motor packages

Options:
Qty. 2, Variable Speed/ECM - Direct Drive Motors (see HE1XINH EC Motor submittal) -
0.5 HP, 120V/1Ph/60HZ,
0.5 HP, 208-230V/1Ph/60HZ
Independent blower control
Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper
(dry-bulb temperature controls (standard),
enthalpy controls (option)
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" (shipped loose)
Backdraft damper 12"
Motorized isolation damper - both airstreams
Wall cap 12" - galvanized, paintable galvanneal
Solid state speed control kit - 115V,
208-230V (1 required per motor)
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)
Motor occupancy sensor/control -
ceiling mount (MC-C), wall mount (MC-W)
Smoke Detector - duct mount (SD-D)
Electric duct heater - RH series (1-11.5 kW);
EK series (1–175 kW);
designed for indoor ductwork installation only
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

<table>
<thead>
<tr>
<th>Motor HP Phase</th>
<th>External Static Pressure (Inches Water Column)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.0</td>
</tr>
<tr>
<td>0.75 Single Phase</td>
<td>970 CFM</td>
</tr>
<tr>
<td>0.75 Three Phase</td>
<td>970 CFM</td>
</tr>
</tbody>
</table>

Note: Watts is for the entire unit (two motors).

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. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>9.0</td>
<td>20.3</td>
<td>25</td>
</tr>
<tr>
<td>0.75</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>4.5</td>
<td>10.1</td>
<td>15</td>
</tr>
<tr>
<td>0.75</td>
<td>277</td>
<td>60</td>
<td>Single</td>
<td>3.9</td>
<td>8.8</td>
<td>15</td>
</tr>
<tr>
<td>0.75</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>1.7-2.3</td>
<td>5.2</td>
<td>15</td>
</tr>
<tr>
<td>0.75</td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>1.15</td>
<td>2.6</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE1XINH Energy Recovery Ventilator  Standard

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.
3. DAMPERS SHIPPED LOOSE, FIELD INSTALLATION REQUIRED.

AIRFLOW CONFIGURATION
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 unless certain options are selected.
**SPECIFICATIONS & DIMENSIONS**

**Indoor Unit**

**Specifications**

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

**Typical Airflow Range:** 250-1,100 CFM

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

**Standard Features:**
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

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

**Unit Dimensions & Weight:**
- 54 3/4" L x 23 3/4" W x 35 3/4" H
- 207-278 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 63" L x 30" W x 56" H
- 325 lbs.

**Motor(s):**
- Qty. 2, 0.5 HP ea., Direct drive EC blower/motor packages

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

---

**Energy Recovery Ventilator**

**EC Motor Option**

**Options:**
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper - (see bypass DIM drawing)
- dry-bulb temperature controls (standard), enthalpy controls (option)
- 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" (shipped loose)
- Backdraft damper 12"
- Motorized isolation damper - both airstreams
- Wall cap 12" - galvanized, paintable galvanneal
- Potentiometer speed control - remote installed
- 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 - RH series (1-11.5 kW)
- EK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

---

**EC Motor Option Operating Range**

<table>
<thead>
<tr>
<th>HE1XINH EC Motor</th>
<th>Sample Points Depicted in Larger Dots</th>
<th>Unit Power Consumption (Watts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airflow (CFM)</td>
<td>External Static Pressure (Inches Water Column)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>86</td>
</tr>
<tr>
<td>324</td>
<td>0.04</td>
<td></td>
</tr>
<tr>
<td>446</td>
<td>0.07</td>
<td>150</td>
</tr>
<tr>
<td>647</td>
<td>0.15</td>
<td>300</td>
</tr>
<tr>
<td>794</td>
<td>0.24</td>
<td>564</td>
</tr>
<tr>
<td>929</td>
<td>0.33</td>
<td>827</td>
</tr>
<tr>
<td>1019</td>
<td>0.41</td>
<td>1042</td>
</tr>
<tr>
<td>300</td>
<td>0.11</td>
<td>91</td>
</tr>
<tr>
<td>406</td>
<td>0.20</td>
<td>160</td>
</tr>
<tr>
<td>579</td>
<td>0.42</td>
<td>359</td>
</tr>
<tr>
<td>713</td>
<td>0.65</td>
<td>599</td>
</tr>
<tr>
<td>828</td>
<td>0.89</td>
<td>871</td>
</tr>
<tr>
<td>883</td>
<td>1.00</td>
<td>1075</td>
</tr>
</tbody>
</table>

**Note:** Watts is for the entire unit.

**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. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>8.1</td>
<td>18.2</td>
<td>25</td>
</tr>
<tr>
<td>0.5</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>4.8</td>
<td>10.8</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE1XINH Energy Recovery Ventilator  EC Motor Option

**AIRFLOW CONFIGURATION**
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 unless certain options are selected.

**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.
3. DAMPERS SHIPPED LOOSE, FIELD INSTALLATION REQUIRED.
**Energy Recovery Ventilator**

**Standard with Bypass EconoMizer**

**SPECIFICATIONS**

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

**Typical Airflow Range:** 250-925 CFM

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

**Standard Features:**
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

**Filters:**
- Total qty. 2, MERV 8: 20" x 20" x 2"
- Accessories box shipped loose on top of unit.

**Unit Dimensions & Weight:**
- 54 3/4" L x 23 3/4" W x 35 3/4" H
- 204-275 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 63" L x 30" W x 56" H
- 325 lbs.

**Motor(s):**
- Qty. 2, 0.75 HP ea., Direct drive blower/standard motor packages

**Options:**
- Qty. 2, Variable Speed/ECM - Direct Drive Motors (see HE1XINH EC Motor submital)
- One L125-G5
- Independent blower control
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper (see bypass DIM drawing)
- 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" (shipped loose)
- Backdraft damper 12"
- Wall cap 12" - galvanized, paintable galvanneal
- Solid state speed control kit - 115V, 208-230V (1 required per motor)
- Digital time clock - wall mount (TC7D-W), in exterior enclosure (TC7D-E)
- Carbon dioxide sensor/control - wall 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 - RH series (1-11.5 kW); EK series (1-175 kW); designed for indoor ductwork installation only
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

**ELECTRICAL DATA**

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<tr>
<th>HP</th>
<th>Volts</th>
<th>HZ</th>
<th>Phase</th>
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<th>Min. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>9.0</td>
<td>20.3</td>
<td>25</td>
</tr>
<tr>
<td>0.75</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>4.5</td>
<td>10.1</td>
<td>15</td>
</tr>
<tr>
<td>0.75</td>
<td>277</td>
<td>60</td>
<td>Single</td>
<td>3.9</td>
<td>8.8</td>
<td>15</td>
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<tr>
<td>0.75</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>1.7-2.3</td>
<td>5.2</td>
<td>15</td>
</tr>
<tr>
<td>0.75</td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>1.15</td>
<td>2.6</td>
<td>15</td>
</tr>
</tbody>
</table>

**AIRFLOW PERFORMANCE**

<table>
<thead>
<tr>
<th>Motor HP</th>
<th>0.0 CFM</th>
<th>0.25 CFM</th>
<th>0.5 CFM</th>
<th>0.75 CFM</th>
<th>0.9 CFM</th>
<th>1.25 CFM</th>
<th>1.5 CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75 Single Phase</td>
<td>1,490 Watts</td>
<td>1,375 Watts</td>
<td>1,270 Watts</td>
<td>1,160 Watts</td>
<td>1,090 Watts</td>
<td>950 Watts</td>
<td>825 Watts</td>
</tr>
<tr>
<td>0.75 Three Phase</td>
<td>1,246 Watts</td>
<td>1,158 Watts</td>
<td>1,039 Watts</td>
<td>928 Watts</td>
<td>856 Watts</td>
<td>691 Watts</td>
<td>509 Watts</td>
</tr>
</tbody>
</table>

**Note:**
- Watts is for the entire unit (two motors).
- Airflow performance includes effect of clean, standard filter supplied with unit.

**Download specification at:** renewaire.com/specifications
HE1XINH  Energy Recovery Ventilator Standard with Bypass Economizer

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

**UNIT MOUNTING & APPLICATION**
Can be mounted in any orientation. Airstreams cannot be switched.

**ABBREVIATIONS**
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhasted
FA: Fresh Air to Inside
BP: Bypass Air Intake

**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.
3. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
4. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.
5. DAMPERS SHIPPED LOOSE. FIELD INSTALLATION REQUIRED.
**Energy Recovery Ventilator**
**EC Motor with Bypass Economizer**

**SPECIFICATIONS**

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

**Typical Airflow Range:** 250-1,100 CFM

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

**Standard Features:**
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

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

**Unit Dimensions & Weight:**
54 3/4” L x 23 3/4” W x 35 3/4” H
207-278 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
63” L x 30” W x 56” H
325 lbs.

**Motor(s):**
- Qty. 2, 0.5 HP ea., Direct drive EC blower/motor packages

**Options:**
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper - dry-bulb temperature controls (standard), enthalpy controls (option)
- 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” (shipped loose)
- Backdraft damper 12”
- Motorized isolation damper - both airstreams
- Wall cap 12” - galvanized, paintable galvanneal
- Potentiometer speed control - remote installed
- 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 - RH series (1-11.5 kW), EK series (1-175 kW)
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

**EC MOTOR OPTION OPERATING RANGE**

<table>
<thead>
<tr>
<th>HE1XINH EC MOTOR</th>
<th>Sample Points Depicted in Larger Dots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airflow (CFM)</td>
<td>External Static Pressure (Inches Water Column)</td>
</tr>
<tr>
<td>324</td>
<td>0.04</td>
</tr>
<tr>
<td>446</td>
<td>0.07</td>
</tr>
<tr>
<td>647</td>
<td>0.15</td>
</tr>
<tr>
<td>794</td>
<td>0.24</td>
</tr>
<tr>
<td>929</td>
<td>0.33</td>
</tr>
<tr>
<td>1019</td>
<td>0.41</td>
</tr>
<tr>
<td>300</td>
<td>0.11</td>
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<tr>
<td>406</td>
<td>0.20</td>
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<tr>
<td>579</td>
<td>0.42</td>
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<tr>
<td>713</td>
<td>0.65</td>
</tr>
<tr>
<td>828</td>
<td>0.89</td>
</tr>
<tr>
<td>883</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**Note:** Watts is for the entire unit.

**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. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>8.1</td>
<td>18.2</td>
<td>25</td>
</tr>
<tr>
<td>0.5</td>
<td>208–230</td>
<td>60</td>
<td>Single</td>
<td>4.8</td>
<td>10.8</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE1XINH Energy Recovery Ventilator EC Motor with Bypass Economizer

*Abbreviations*

EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
FA: Fresh Air to Inside
BP: Bypass Air Intake

**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.
3. Units with bypass will require additional space for the connection of the bypass duct (by others).
4. For installation details, refer to I&O manual supplement for bypass.
5. DAMPERS SHIPPED LOOSE. FIELD INSTALLATION REQUIRED.

**Airflow Configuration**

Available as shown in dimension drawing.

**Unit Mounting & Application**

Can be mounted in any orientation. Airstreams cannot be switched.
Energy Recovery Ventilator
Standard

**SPECIFICATIONS**

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

**Typical Airflow Range:** 250-925 CFM

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

**Standard Features:**
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

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

**Unit Dimensions & Weight:**
40 1/2" L x 23 3/4" W x 50 3/4" H
201-272 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
30" L x 42" W x 71" H
325 lbs.

**Motor(s):**
Qty. 2, 0.75 HP ea., Direct drive blower/standard motor packages

**Options:**
- Qty. 2, Variable Speed/ECM - Direct Drive Motors (see HE1XINV EC Motor submittal) - 0.5 HP 120V/1Ph/60HZ, 0.5 HP 208-230V/1Ph/60HZ
- Independent blower control
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
- 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" (shipped loose)
- Backdraft damper 12"
- Motorized isolation damper - both airstreams
- Wall cap 12" - galvanized, paintable galvanneal
- Solid state speed control kit - 115V, 208-230V (1 required per motor)
- 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 - RH series (1-11.5 kW); EK series (1–175 kW); designed for indoor ductwork installation only
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

**AIRFLOW PERFORMANCE**

<table>
<thead>
<tr>
<th>Motor HP Phase</th>
<th>External Static Pressure (Inches Water Column)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.0</td>
</tr>
<tr>
<td>0.75 Single Phase</td>
<td>970 CFM</td>
</tr>
<tr>
<td></td>
<td>1,490 Watts</td>
</tr>
<tr>
<td>0.75 Three Phase</td>
<td>970 CFM</td>
</tr>
<tr>
<td></td>
<td>1,246 Watts</td>
</tr>
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</table>

**ELECTRICAL DATA**

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<tr>
<th>HP</th>
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<tr>
<td>0.75</td>
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<td>0.75</td>
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Specifications may be subject to change without notice.
**HE1XINV** Energy Recovery Ventilator Standard

**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.
3. DAMPERS SHIPPED LOOSE, FIELD INSTALLATION REQUIRED

**UNIT MOUNTING & APPLICATION**
Can be mounted in any orientation. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.

**AIRFLOW CONFIGURATION**
Available as shown in dimension drawing.
**Energy Recovery Ventilator**

**EC Motor Option**

**SPECIFICATIONS**

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

**Typical Airflow Range:**
250-1,100 CFM

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

**Standard Features:**
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

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

**Unit Dimensions & Weight:**
40 1/2” L x 23 3/4” W x 50 3/4” H
204-275 lbs., varies by option(s)

**Shipping Dimensions & Weight (on pallet):**
30” L x 42” W x 71” H
325 lbs.

**Motor(s):**
Qty. 2, 0.5 HP ea., Direct drive EC blower/motor packages

**Options:**
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper (see bypass DIM drawing)
- Dry-bulb temperature controls (standard), enthalpy controls (option)
- 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" (shipped loose)
- Backdraft damper 12"
- Motorized isolation damper - both airstreams
- Wall cap 12" - galvanized, paintable galvanneal
- Potentiometer speed control - remote installed
- 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 - RH series (1-11.5 kW); EK series (1-175 kW); designed for indoor ductwork installation only
- Indirect gas-fired duct furnace - GH series (50–400 MBH), installed downstream of any fans

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<tr>
<th>HP</th>
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<td>Single</td>
<td>4.8</td>
<td>10.8</td>
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</tr>
</tbody>
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Note: Watts is for the entire unit.

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

Download specification at: renewaire.com/specifications

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**EC MOTOR OPTION OPERATING RANGE**

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</table>

Note: Watts is for the entire unit.

Note: Airflow performance includes effect of clean, standard filter supplied with unit.
HE1XINV Energy Recovery Ventilator  EC Motor Option

**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.
3. DAMPERS SHIPPED LOOSE, FIELD INSTALLATION REQUIRED

**Airflow Configuration**
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 unless certain options are selected.
Energy Recovery Ventilator
Standard with Bypass Economizer

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 250-925 CFM

AHRI 1060 Certified Core: One L125-G5

Standard Features:
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

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

Unit Dimensions & Weight:
40 1/2" L x 23 3/4" W x 50 3/4" H
201-272 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
30" L x 42" W x 71" H
325 lbs.
Accessories box shipped loose on top of unit.

Motor(s):
Qty. 2, 0.75 HP ea., Direct drive blower/standard motor packages

Options:
Qty. 2, Variable Speed/ECM - Direct Drive Motors (see HE1XINV EC Motor submittal) -
0.5 HP 120V/1Ph/60HZ,
0.5 HP 208-230V/1Ph/60HZ
Independent blower control
Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper
(dry-bulb temperature controls (standard),
enthalpy controls (option)
Low-leakage motorized isolation dampers -
OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction

Accessories:
Filters - MERV 13, 2" (shipped loose)
Backdraft damper 12"
Motorized isolation damper - both airstreams
Wall cap 12" - galvanized, paintable galvanneal
Solid state speed control kit - 115V,
208-230V (1 required per motor)
Digital time clock - wall mount (TC7D-E),
in exterior enclosure (TC7D-W)
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 - RH series (1-11.5 kW);
EK series (1–175 kW);
designed for indoor ductwork installation only
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

<table>
<thead>
<tr>
<th>Motor HP</th>
<th>Single Phase</th>
<th>Three Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75</td>
<td>970 CFM 1,490 Watts</td>
<td>970 CFM 1,246 Watts</td>
</tr>
<tr>
<td>0.75</td>
<td>925 CFM 1,375 Watts</td>
<td>925 CFM 1,158 Watts</td>
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<tr>
<td>0.75</td>
<td>860 CFM 1,270 Watts</td>
<td>860 CFM 1,039 Watts</td>
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<tr>
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<td>795 CFM 1,160 Watts</td>
<td>795 CFM 928 Watts</td>
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<tr>
<td>0.75</td>
<td>750 CFM 1,090 Watts</td>
<td>750 CFM 856 Watts</td>
</tr>
</tbody>
</table>

Note: Watts is for the entire unit (2 motors).
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. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>9.0</td>
<td>20.3</td>
<td>25</td>
</tr>
<tr>
<td>0.75</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>4.5</td>
<td>10.1</td>
<td>15</td>
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<tr>
<td>0.75</td>
<td>277</td>
<td>60</td>
<td>Single</td>
<td>3.9</td>
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</tr>
<tr>
<td>0.75</td>
<td>208-230</td>
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<td>Three</td>
<td>1.7-2.3</td>
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<td>15</td>
</tr>
<tr>
<td>0.75</td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>1.15</td>
<td>2.6</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
**HE1XINV** Energy Recovery Ventilator  Standard with Bypass Economizer

**ABBREVIATIONS**

EA: Exhaust Air to Outside  
OA: Outside Air Intake  
RA: Room Air to be Exhausted  
FA: Fresh Air to Inside  
BP: Bypass Air Intake

**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.  
3. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).  
4. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.  
5. DAMPERS SHIPPED LOOSE, FIELD INSTALLATION REQUIRED

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

**UNIT MOUNTING & APPLICATION**  
Can be mounted in any orientation. Airstreams cannot be switched.
Energy Recovery Ventilator
EC Motor with Bypass Economizer

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range:
250-1,100 CFM

AHRI 1060 Certified Core:
One L125-G5

Standard Features:
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

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

Unit Dimensions & Weight:
- 40 1/2" L x 23 3/4" W x 50 3/4" H
- 204-275 lbs., varies by option(s)

Shipping Dimensions & Weight (on pallet):
- 30" L x 42" W x 71" H
- 325 lbs.

Motor(s):
- Qty. 2, 0.5 HP ea., Direct drive EC blower/motor packages

Options:
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper
- 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" (shipped loose)
- Backdraft damper 12"
- Motorized isolation damper - both airstreams
- Wall cap 12" - galvanized, paintable galvanneal
- Potentiometer speed control - remote installed
- 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 - RH series (1-11.5 kW); EK series (1-175 kW); designed for indoor ductwork installation only
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

<table>
<thead>
<tr>
<th>HE1XINV EC MOTOR</th>
<th>Sample Points Depicted in Larger Dots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airflow (CFM)</td>
<td>External Static Pressure (Inches Water Column)</td>
</tr>
<tr>
<td>324</td>
<td>0.04</td>
</tr>
<tr>
<td>446</td>
<td>0.07</td>
</tr>
<tr>
<td>647</td>
<td>0.15</td>
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<tr>
<td>794</td>
<td>0.24</td>
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<td>929</td>
<td>0.33</td>
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<tr>
<td>1019</td>
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<tr>
<td>300</td>
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<td>406</td>
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<td>579</td>
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<td>713</td>
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<td>828</td>
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<tr>
<td>883</td>
<td>1.00</td>
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</tbody>
</table>

Note: Watts is for the entire unit.
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>
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<td>0.5</td>
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<td>8.1</td>
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<td>Single</td>
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Specifications may be subject to change without notice.
HE1XINV Energy Recovery Ventilator EC Motor with Bypass Economizer

Airflow Configuration
Available as shown in dimension drawing.

Unit Mounting & Application
Can be mounted in any orientation. Airstreams cannot be switched.

Abbreviations
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
FA: Fresh Air to Inside
BP: Bypass Air Intake

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.
3. Units with bypass will require additional space for the connection of the bypass duct by others.
4. For installation details, refer to I&O Manual Supplement for bypass.
5. Dampers shipped loose, field installation required.
**Energy Recovery Ventilator**

**Standard**

**SPECIFICATIONS**

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

**Typical Airflow Range:** 250-870 CFM

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

**Standard Features:**
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

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

**Unit Dimensions & Weight:**
81" L x 40 1/4" W x 44" H
243-346 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
96" L x 47" W x 50" H
441 lbs.

**Motor(s):**
Qty. 2, 0.75 HP ea., Direct drive blower/standard motor packages

**Options:**
- Qty. 2, Variable Speed/ECM - Direct Drive Motors (see HE1XRT EC Motor submittal) -
  - 0.5 HP 120V/1Ph/60HZ,
  - 0.5 HP 208-230V/1Ph/60HZ
- Independent blower control
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Fused disconnect
- Integrated programmable controllers - 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" (shipped loose)
- Backdraft damper 12"
- Solid state speed control kit - 115V, 208-230V (1 required per motor)
- Roof curb - standard 14"
- Curb wind clip
- Engineered combo curb for Trane RTU
- Engineered combo curb for Carrier 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 - EK series (1–175 kW); designed for indoor ductwork installation only
- Indirect gas-fired duct furnace - GH series (50–400 MBH), installed downstream of any fans

**AIRFLOW PERFORMANCE**

<table>
<thead>
<tr>
<th>Motor HP</th>
<th>Phase</th>
<th>External Static Pressure (Inches Water Column)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0.0</td>
</tr>
<tr>
<td>0.75</td>
<td>Single Phase</td>
<td>950 CFM</td>
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<td></td>
<td>Three Phase</td>
<td>1,430 Watts</td>
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</table>

**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>
<th>Max. Overcurrent Protection Device</th>
</tr>
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<tbody>
<tr>
<td>0.75</td>
<td>120</td>
<td>60</td>
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<td>20.3</td>
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<td>0.75</td>
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<td>60</td>
<td>Three</td>
<td>1.15</td>
<td>2.6</td>
<td>15</td>
</tr>
</tbody>
</table>

### Optional Factory Installed VFD 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>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75</td>
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<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Note: Watts is for the entire unit (2 motors).

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

Specifications may be subject to change without notice.
HE1XRT (RTV/RTR) Energy Recovery Ventilator  Standard

**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

**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.

**Airflow Configuration**
Available as shown:

- Right View
- Front View
- Top View
- Left View

**Curb Cross-Section A-A (Typ.)**
- 1 7/8" Neoprene Gasket
- 3/4" X 3 1/2" Wooden Nailer

**Unit Mounting & Application**
Must be mounted as shown. Airstreams cannot be switched.
HE1XRT (RTH/RTF) Energy Recovery Ventilator Standard

SPECIFICATIONS & DIMENSIONS

35 1/4" Minimum Service Area

61 1/8" Minimum Service Area

RTF

ONLY

FA

RTH

ONLY

FRONT VIEW

DisConnect

Switch

Pressure Ports


45 3/4" Lift Lugs

8 1/2" Overall

Section A-A

Curb Cross-section A-A (Typ.)

Curb

1 1/2" x 1/4"

Neoprene Gasket

3/4" x 3 1/2"

Wooden Nailer

17/8"

1 7/8"

EA Outlet at Back

E-Box

EA

OA

RA

FACE

OA Damper Location (Optional)

RA Damper Location (Optional)

Lift Lugs

40 1/4" Overall

20 1/8"

RAFT (RTH/RTF)

Energy Recovery Ventilator Standard

UNIT MOUNTING & APPLICATION

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

AIRFLOW CONFIGURATION

Available as shown:

LEFT VIEW

UNIT MOUNTING & APPLICATION

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

AIRFLOW CONFIGURATION

Available as shown:

1.800.627.4499

RENEWAIRE.COM

SPECIFICATIONS & DIMENSIONS

Specifications may be subject to change without notice.

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
RTF: Rooftop Vertical FA Only
RTH: Rooftop Horizontal RA & FA

LEFT VIEW

11/2" Power In

5/8" Control In

(2) 7/8" holes for wiring in bottom of E-Box

Door Swing

Door Swing

Case

5 1/4" Power In

15 1/4" Wiring

16" x 12" Duct Receiving Flange

FRONT VIEW

OA Outlet at Back

E-Box

Pressure Ports


5" Damper Frames Typ.

Door Swing

Door Swing

Case

5 1/4" Power In

15 1/4" Wiring

16" x 12" Duct Receiving Flange

CURB 1X

CURB CROSS-SECTION A-A (Typ.)

Curb

1 1/2" x 1/4"

Neoprene Gasket

3/4" x 3 1/2"

Wooden Nailer

17/8"

1 7/8"

1 1/2" x 1/4"

Neoprene Gasket

3/4" x 3 1/2"

Wooden Nailer

17/8"

1 7/8"
Energy Recovery Ventilator
EC Motor Option

**SPECIFICATIONS**

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

**Typical Airflow Range:** 250-1,100 CFM

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

**Standard Features:**
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

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

**Unit Dimensions & Weight:**
81" L x 40 1/4" W x 42 1/4" H
246-366 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
96" L x 47" W x 50" H
458 lbs.

**Motor(s):**
Qty. 2, 0.5 HP ea., Direct drive EC blower/motor packages

**Options:**
- 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" (shipped loose)
- Backdraft damper 12"
- Potentiometer speed control - remote installed
- Roof curb - standard 14"
- Curb wind clip
- Engineered combo curb for Trane RTU
- Engineered combo curb for Carrier 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 - EK series (1–175 kW); designed for indoor ductwork installation only
- Indirect gas-fired duct furnace - GH series (50–400 MBH), installed downstream of any fans

**ELECTRICAL DATA**

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<th>HP</th>
<th>Volts</th>
<th>HZ</th>
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<th>FLA per motor</th>
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<td>60</td>
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<td>8.1</td>
<td>18.2</td>
<td>25</td>
</tr>
<tr>
<td>0.5</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>4.8</td>
<td>10.8</td>
<td>15</td>
</tr>
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</table>

Specifications may be subject to change without notice.
HE1XRT (RTV/RTR) Energy Recovery Ventilator EC Motor Option

ABBRÉVIATIONS
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

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.

AIRFLOW CONFIGURATION
Available as shown:

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams cannot be switched.
HE1XRT (RTH/RTF) Energy Recovery Ventilator EC Motor Option

SPECIFICATIONS & DIMENSIONS

**35 1/4" Minimum Service Area**

**61 1/8" Minimum Service Area**

**RTF ONLY**

**FA 81" Overall**

**45 3/4" Lift Lugs**

**Typ. 5" Damper Frames**

**OA Outlet at Back**

**E-Box**

**Disconnect Switch**

**FA (RTH) 16"x12" Duct Receiving Range**

**FA (RTF) 7 1/4"x6 1/8" Opening**

**Case**

**6 5/8" OA Damper Location (Optional)**

**1 7/8" x 1/4" Neoprene Gasket**

**3/4" x 3 1/2" Wooden Nailer**

**UNIT MOUNTING & APPLICATION**

Must be mounted as shown. Airstreams cannot be switched.

**SECTION A-A**

**Curb 1X**

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

**Curb 1x**

**Top View**

**Front View**

**Left View**

**Right View**

**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.

**AIRFLOW CONFIGURATION**

Available as shown:

**RT** (RTH/RTF) Energy Recovery Ventilator EC Motor Option

**RTH**

**RTF**

**EA**

**OA**

**RA**

**FA**

**RT (RTH/RTF)** Energy Recovery Ventilator Standard or EC Motor Option
**SPECIFICATIONS**

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

**Typical Airflow Range:** 500-900 CFM

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

**Standard Features:**
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports
- Filters: Total qty. 2, MERV 8; 20” x 20” x 2”

**Unit Dimensions & Weight:**
- 73 1/4” L x 40 1/4” W x 50” H
- 269-356 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 96” L x 47” W x 50” H
- 450 lbs.

**Motor(s):**
- Qty. 2, 0.75 HP ea., Direct drive blower/standard motor packages

**Options:**
- Qty. 2, Variable Speed/ECM - Direct Drive Motors - (see HE1XRTC EC Motor submittal) - 0.5 HP 120V/1Ph/60HZ, 0.5 HP 208-230V/1Ph/60HZ
- Independent blower control
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Qty. 2, Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

**Accessories:**
- Filters - MERV 13, 2” (shipped loose)
- Solid state speed control kit - 115V, 208-230V (1 required per motor)
- RTC transition kit - for vertical RTU, for horizontal RTU
- Rooftop RTC transition paint - white, custom colors
- 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)

**ELECTRICAL DATA**

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<th>Volts</th>
<th>HZ</th>
<th>Phase</th>
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</tr>
<tr>
<td>0.75</td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>1.15</td>
<td>2.6</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.

**AIRFLOW PERFORMANCE**

<table>
<thead>
<tr>
<th>Damper Position</th>
<th>Total Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Phase</td>
<td>3 Phase</td>
</tr>
<tr>
<td>100% Open</td>
<td>1,295</td>
</tr>
<tr>
<td>65% Open</td>
<td>1,285</td>
</tr>
<tr>
<td>55% Open</td>
<td>1,275</td>
</tr>
<tr>
<td>45% Open</td>
<td>1,265</td>
</tr>
<tr>
<td>35% Open</td>
<td>1,265</td>
</tr>
<tr>
<td>25% Open</td>
<td>1,265</td>
</tr>
<tr>
<td>15% Open</td>
<td>1,260</td>
</tr>
</tbody>
</table>

**Note:** Watts is for the entire unit (2 motors).

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

**Download specification at:** renewaire.com/specifications
HE1XRTC Energy Recovery Ventilator  Standard

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.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.
RENEWAIRE.COM 1.800.627.4499

SPECIFICATIONS & DIMENSIONS

Energy Recovery Ventilator
EC Motor Option

Ventilation Type: Static plate, heat and humidity transfer
Typical Airflow Range: 500-1,100 CFM
AHRI 1060 Certified Core: One L125-G5
Standard Features:
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports
Filters:
- Total qty. 2, MERV 8: 20" x 20" x 2"
Unit Dimensions & Weight:
- 73 1/4" L x 40 1/4" W x 50" H
- 272-358 lbs., varies by option(s)
Max. Shipping Dimensions & Weight (on pallet):
- 96" L x 47" W x 50" H
- 450 lbs.
Motor(s):
- Qty. 2, 0.5 HP, Direct drive EC blower/motor packages

Options:
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Qty. 2, Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

Accessories:
- Filters - MERV 13, 2" (shipped loose)
- RTC transition kit - for vertical RTU, for horizontal RTU
- Rooftop RTC transition paint - white, custom colors
- 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)

Note: Electric Duct Heater and Indirect Gas-Fired Duct Furnace are not available on RTC units.

Download specification at: renewaire.com/specifications

EC MOTOR OPTION OPERATING RANGE

Tie-In Directly to Rooftop A/C Unit*

<table>
<thead>
<tr>
<th>Airflow (cfm)</th>
<th>External Static Pressure (in. w.g.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>0.00</td>
</tr>
<tr>
<td>625</td>
<td>-0.25</td>
</tr>
<tr>
<td>750</td>
<td>-0.50</td>
</tr>
<tr>
<td>875</td>
<td>-0.75</td>
</tr>
<tr>
<td>1000</td>
<td>-1.00</td>
</tr>
<tr>
<td>1125</td>
<td>-1.25</td>
</tr>
<tr>
<td>1250</td>
<td>-1.50</td>
</tr>
</tbody>
</table>

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

* See page 38 for installation details.

EC MOTOR OPTION OPERATING RANGE

Unit Ducted Independently*

<table>
<thead>
<tr>
<th>Airflow (cfm)</th>
<th>External Static Pressure (in. w.g.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>0.00</td>
</tr>
<tr>
<td>375</td>
<td>0.25</td>
</tr>
<tr>
<td>500</td>
<td>0.50</td>
</tr>
<tr>
<td>625</td>
<td>0.75</td>
</tr>
<tr>
<td>750</td>
<td>1.00</td>
</tr>
<tr>
<td>875</td>
<td>1.25</td>
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<tr>
<td>1000</td>
<td>1.50</td>
</tr>
<tr>
<td>1125</td>
<td>1.75</td>
</tr>
<tr>
<td>1250</td>
<td>2.00</td>
</tr>
</tbody>
</table>

Note: Actual tested sample points

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>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>8.1</td>
<td>18.2</td>
<td>25</td>
</tr>
<tr>
<td>0.5</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>4.8</td>
<td>10.8</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE1XRTC Energy Recovery Ventilator  EC Motor Option

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

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.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.
Energy Recovery Ventilator
Standard

**SPECIFICATIONS**

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

**Typical Airflow Range:**
375–1,575 CFM

**AHRI 1060 Certified Core:**
One L62-G5 and one L125-G5

**Standard Features:**
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

**Filters:**
Total Qty. 4, MERV 8: (2) 14” x 20” x 2” and (2) 16” x 20” x 2”

**Unit Dimensions & Weight:**
48 3/4” L x 34 1/2” W x 53 3/4” H
337-504 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
70” L x 47” W x 53” H
571 lbs.

**Motor(s):**
Qty. 2, 1.0 HP ea., Direct drive standard motorized impeller packages

**Options:**
Qty. 2, Variable Speed/ECM - Direct drive motors (see HE1.5XINH EC Motor submittal) - 1.0 HP 120V/1Ph/60HZ, 1.0 HP 208-230V/1Ph/60HZ
Independent blower control
Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
Class 1 low leakage motorized isolation dampers - FA, EA or both airstreams
Gravity backdraft dampers
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

**Accessories:**
Filters - MERV 13, 2” (shipped loose)
Backdraft damper - OA or EA
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 - EK series (1–175 kW)
Indirect gas-fired duct furnace - GH series (50–400 MBH), installed downstream of any fans

**AIRFLOW PERFORMANCE**

<table>
<thead>
<tr>
<th>Motor HP Phase</th>
<th>0.0</th>
<th>0.25</th>
<th>0.50</th>
<th>0.75</th>
<th>1.00</th>
<th>1.25</th>
<th>1.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Phase</td>
<td>1.575 CFM</td>
<td>1.470 CFM</td>
<td>1.350 CFM</td>
<td>1.225 CFM</td>
<td>1.090 CFM</td>
<td>950 CFM</td>
<td>795 CFM</td>
</tr>
<tr>
<td>Three Phase</td>
<td>1.675 CFM</td>
<td>1.570 CFM</td>
<td>1.435 CFM</td>
<td>1.280 CFM</td>
<td>1.115 CFM</td>
<td>940 CFM</td>
<td>760 CFM</td>
</tr>
</tbody>
</table>

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>HP</th>
<th>V</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>1.0</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>6.5</td>
<td>14.6</td>
<td>20</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>3.3-3.4</td>
<td>7.7</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>277</td>
<td>60</td>
<td>Single</td>
<td>2.7</td>
<td>6.1</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>2.2-2.2</td>
<td>5.0</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>1.1</td>
<td>2.5</td>
<td>15</td>
</tr>
</tbody>
</table>

**Note:** Watts is for the entire unit (2 motors).

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

Specifications may be subject to change without notice.
HE1.5XINH  Energy Recovery Ventilator  Standard

**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.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.

**AIRFLOW CONFIGURATION**
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 unless certain options are selected. Duct configuration is field convertible.
Energy Recovery Ventilator
EC Motor Option

INDOOR UNIT

Download specification at: renewaire.com/specifications

SPECIFICATIONS & DIMENSIONS

Ventilation Type: Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Core: One L62-G5 and one L125-G5

Standard Features:
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

Filters:
- Total qty. 4, MERV 8: (2) 14” x 20” x 2” and (2) 16” x 20” x 2”

Unit Dimensions & Weight:
- 48 3/4” L x 34 1/2” W x 53 3/4” H
- 336-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
- 70” L x 47” W x 53” H
- 571 lbs.

Motor(s):
- Qty. 2, 1.0 HP ea., Direct drive EC motorized impeller packages

Note:
- Watts is for the entire unit.
- 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. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>8.0</td>
<td>18.0</td>
<td>20</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>6.2</td>
<td>14.0</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE1.5XINH  Energy Recovery Ventilator  EC Motor Option

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.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.

AIRFLOW CONFIGURATION
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 unless certain options are selected. Duct configuration is field convertible.
Energy Recovery Ventilator
Standard with Bypass Economizer

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range:
375–1,575 CFM

AHRI 1060 Certified Core:
One L62-G5 and one L125-G5

Standard Features:
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:
Total Qty. 4, MERV 8: (2) 14” x 20” x 2” and
(2) 16” x 20” x 2”

Unit Dimensions & Weight:
48 3/4” L x 34 1/2” W x 53 3/4” H
337-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
70” L x 47” W x 53” H
571 lbs.

Motor(s):
Qty. 2, 1.0 HP ea., Direct drive standard motorized
impeller packages

Options:
Qty. 2, Variable Speed/ECM - Direct drive motors
(see HE1.5XINH EC Motor submittal) -
1.0 HP 120V/1Ph/60HZ,
1.0 HP 208-230V/1Ph/60HZ
Independent blower control
Fused disconnect
Integrated programmable controls -
enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) -
dry-bulb temperature controls (standard),
enthalpy controls (option)
Class 1 low leakage motorized isolation dampers -
FA, EA or both airstreams
Gravity backdraft dampers
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:
Filters - MERV 13, 2” (shipped loose)
Backdraft damper - OA or EA
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 - EK series (1–175 kW)
Indirect gas-fired duct furnace - GH series
(50-400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

<table>
<thead>
<tr>
<th>Motor HP Phase</th>
<th>External Static Pressure (Inches Water Column)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.0</td>
</tr>
<tr>
<td>1.0 Single Phase</td>
<td>1,575 CFM</td>
</tr>
<tr>
<td>1.0 Three Phase</td>
<td>1,675 CFM</td>
</tr>
</tbody>
</table>

Note: Watts is for the entire unit (2 motors).

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

ELECTRICAL DATA

<table>
<thead>
<tr>
<th>HP</th>
<th>V</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>1.0</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>6.5</td>
<td>14.6</td>
<td>20</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>3.3-3.4</td>
<td>7.7</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>277</td>
<td>60</td>
<td>Single</td>
<td>2.7</td>
<td>6.1</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>2.2-2.2</td>
<td>5.0</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>1.1</td>
<td>2.5</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE1.5XINH Energy Recovery Ventilator  Standard with Bypass Economizer

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air outlet

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.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. Airstreams can not be switched.

Airflow Configuration
Available as shown in dimension drawing.
Energy Recovery Ventilator
EC Motor with Bypass Economizer

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Core:
One L62-G5 and one L125-G5

Standard Features:
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:
Total qty. 4, MERV 8: (2) 14” x 20” x 2” and (2) 16” x 20” x 2”

Unit Dimensions & Weight:
48 3/4” L x 34 1/2” W x 53 3/4” H
336-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
70” L x 47” W x 53” H
571 lbs.

Motor(s):
Qty. 2, 1.0 HP ea., Direct drive EC motorized impeller packages

Options:
Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalphy controls (option)
Class 1 low leakage motorized isolation dampers - FA, EA or both airstreams
Gravity backdraft dampers
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:
Filters - MERV 13, 2” (shipped loose)
Backdraft damper - OA or EA
Potentiometer speed control - remote installed
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 - EK series (1–175 kW)
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

Download specification at: renewaire.com/specifications

EC MOTOR OPTION OPERATING RANGE

<table>
<thead>
<tr>
<th>HE1.5XINH EC MOTOR</th>
<th>Sample Points Depicted in Larger Dots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airflow (CFM)</td>
<td>External Static Pressure (Inches Water Column)</td>
</tr>
<tr>
<td>630</td>
<td>0.07</td>
</tr>
<tr>
<td>807</td>
<td>0.12</td>
</tr>
<tr>
<td>1014</td>
<td>0.20</td>
</tr>
<tr>
<td>1222</td>
<td>0.28</td>
</tr>
<tr>
<td>1430</td>
<td>0.39</td>
</tr>
<tr>
<td>513</td>
<td>0.20</td>
</tr>
<tr>
<td>656</td>
<td>0.33</td>
</tr>
<tr>
<td>825</td>
<td>0.52</td>
</tr>
<tr>
<td>994</td>
<td>0.74</td>
</tr>
<tr>
<td>1163</td>
<td>1.01</td>
</tr>
</tbody>
</table>

Note: Watts is for the entire unit.
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. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>8.0</td>
<td>18.0</td>
<td>20</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>6.2</td>
<td>14.0</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE1.5XINH Energy Recovery Ventilator EC Motor with Bypass Economizer

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air outlet

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.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. Airstreams can not be switched.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.
Energy Recovery Ventilator
Standard & Bypass Economizer Option

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Core:
One L62-G5 and one L125-G5

Standard Features:
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:
Total qty. 4, MERV 8: (2) 14" x 20" x 2" and
(2) 16" x 20" x 2"

Unit Dimensions & Weight:
59 1/2" L x 34 1/2" W x 46 1/4" H
337-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
70" L x 47" W x 59" H
571 lbs.

Motor(s):
Qty. 2, 1.0 HP ea., Direct drive standard motorized
impeller packages

Options:
Qty. 2, Variable Speed/ECM - Direct drive motors
(see HE1.5XINV EC Motor submittal) -
1.0 HP 120V/1Ph/60HZ,
1.0 HP 208-230V/1Ph/60HZ
Independent blower control
Fused disconnect
Integrated programmable controls -
enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) -
dry-bulb temperature controls (standard),
enthalpy controls (option)
Class 1 low leakage motorized isolation dampers -
FA, EA or both airstreams
Gravity backdraft dampers
Qty. 2, Factory mounted filter alarms -
both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:
Filters - MERV 13, 2" (shipped loose)
Backdraft damper - OA or EA
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 - EK series (1–175 kW)
Indirect gas-fired duct furnace - GH series
(50–400 MBH), installed downstream of any fans

AIRFLOW PERFORMANCE

<table>
<thead>
<tr>
<th>Motor HP Phase</th>
<th>0.0</th>
<th>0.25</th>
<th>0.50</th>
<th>0.75</th>
<th>1.00</th>
<th>1.25</th>
<th>1.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Phase</td>
<td>1,575 CFM</td>
<td>1,470 CFM</td>
<td>1,350 CFM</td>
<td>1,225 CFM</td>
<td>1,090 CFM</td>
<td>950 CFM</td>
<td>795 CFM</td>
</tr>
<tr>
<td>Three Phase</td>
<td>1,675 CFM</td>
<td>1,570 CFM</td>
<td>1,435 CFM</td>
<td>1,340 CFM</td>
<td>1,280 CFM</td>
<td>1,210 CFM</td>
<td>1,135 CFM</td>
</tr>
</tbody>
</table>

Note: Watts is for the entire unit (2 motors).
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. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>6.5</td>
<td>14.6</td>
<td>20</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>3.3-3.4</td>
<td>7.7</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>277</td>
<td>60</td>
<td>Single</td>
<td>2.7</td>
<td>6.1</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>2.2-2.2</td>
<td>5.0</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>1.1</td>
<td>2.5</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE1.5XINV Energy Recovery Ventilator Standard

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.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2", SMACNA RULES APPLY.

AIRFLOW CONFIGURATION
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 unless certain options are selected. Duct configuration is field convertible.
**SPECIFICATIONS & DIMENSIONS**

**RENEWAIRE.COM**

**1.800.627.4499**

**52**

**SPECIFICATIONS**

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

**Typical Airflow Range:** 375-1,575 CFM

**AHRI 1060 Certified Core:**
One L62-G5 and one L125-G5

**Standard Features:**
Non-fused disconnect
Cross-core differential pressure ports

**Filters:**
Total qty. 4, MERV 8: (2) 14" x 20" x 2" and (2) 16" x 20" x 2"

**Unit Dimensions & Weight:**
59 1/2" L x 34 1/2" W x 46 1/4" H
336-504 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
70" L x 47" W x 59" H
571 lbs.

**Motor(s):**
Qty. 2, 1.0 HP ea., Direct drive EC motorized impeller packages

---

**EC MOTOR OPTION OPERATING RANGE**

<table>
<thead>
<tr>
<th>HE1.5XINV EC MOTOR</th>
<th>Sample Points Depicted in Larger Dots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airflow (CFM)</td>
<td>External Static Pressure (Inches Water Column)</td>
</tr>
<tr>
<td>630</td>
<td>0.07</td>
</tr>
<tr>
<td>807</td>
<td>0.12</td>
</tr>
<tr>
<td>1014</td>
<td>0.20</td>
</tr>
<tr>
<td>1222</td>
<td>0.28</td>
</tr>
<tr>
<td>1430</td>
<td>0.39</td>
</tr>
<tr>
<td>513</td>
<td>0.20</td>
</tr>
<tr>
<td>656</td>
<td>0.33</td>
</tr>
<tr>
<td>825</td>
<td>0.52</td>
</tr>
<tr>
<td>994</td>
<td>0.74</td>
</tr>
<tr>
<td>1163</td>
<td>1.01</td>
</tr>
</tbody>
</table>

**Note:** Watts is for the entire unit.

**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. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>8.0</td>
<td>18.0</td>
<td>20</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>6.2</td>
<td>14.0</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
**HE1.5XINV** Energy Recovery Ventilator  EC Motor Option

**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.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2", SMACNA RULES APPLY.

**AIRFLOW CONFIGURATION**
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 unless certain options are selected. Duct configuration is field convertible.
 Specifications & Dimensions

Energy Recovery Ventilator
Standard with Bypass Economizer

 Specifications

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 375-1,575 CFM

AHRI 1060 Certified Core:
One L62-G5 and one L125-G5

Standard Features:
Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:
Total qty. 4, MERV 8: (2) 14” x 20” x 2” and (2) 16” x 20” x 2”

Unit Dimensions & Weight:
59 1/2” L x 34 1/2” W x 46 1/4” H
337-504 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
70” L x 47” W x 59” H
571 lbs.

Motor(s):
Qty. 2, 1.0 HP ea., Direct drive standard motorized impeller packages

Options:
Qty. 2, Variable Speed/ECM - Direct drive motors (see HE1.5XINV EC Motor submittal) -
1.0 HP 120V/1Ph/60HZ,
1.0 HP 208-230V/1Ph/60HZ
Independent blower control
Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
Class 1 low leakage motorized isolation dampers - FA, EA or both airstreams
Gravity backdraft dampers
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:
Filters - MERV 13, 2” (shipped loose)
Backdraft damper - OA or EA
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 - EK series (1–175 kW)
Indirect gas-fired duct furnace - GH series (50–400 MBH), installed downstream of any fans

Download specification at:
renewaire.com/specifications

Airflow Performance

<table>
<thead>
<tr>
<th>Motor HP</th>
<th>Phase</th>
<th>0.0</th>
<th>0.25</th>
<th>0.50</th>
<th>0.75</th>
<th>1.00</th>
<th>1.25</th>
<th>1.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>Single Phase</td>
<td>1,575 CFM</td>
<td>1,470 CFM</td>
<td>1,350 CFM</td>
<td>1,225 CFM</td>
<td>1,090 CFM</td>
<td>950 CFM</td>
<td>795 CFM</td>
</tr>
<tr>
<td>1.0</td>
<td>Three Phase</td>
<td>1,675 CFM</td>
<td>1,570 CFM</td>
<td>1,435 CFM</td>
<td>1,280 CFM</td>
<td>1,115 CFM</td>
<td>940 CFM</td>
<td>760 CFM</td>
</tr>
</tbody>
</table>

Note: Watts is for the entire unit (2 motors).

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. Circ. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>6.5</td>
<td>14.6</td>
<td>20</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>3.3-3.4</td>
<td>7.7</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>277</td>
<td>60</td>
<td>Single</td>
<td>2.7</td>
<td>6.1</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>2.2-2.2</td>
<td>5.0</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>1.1</td>
<td>2.5</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE1.5XINV Energy Recovery Ventilator  Standard with Bypass Economizer

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. 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
BP: Bypass Air outlet

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.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.
SPECIFICATIONS & DIMENSIONS

**Energy Recovery Ventilator**
EC Motor with Bypass Economizer

**SPECIFICATIONS**

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

**Typical Airflow Range:** 375-1,575 CFM

**AHRI 1060 Certified Core:** One L62-G5 and one L125-G5

**Standard Features:**
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

**Filters:**
- Total qty. 4, MERV 8: (2) 14” x 20” x 2” and (2) 16” x 20” x 2”

**Unit Dimensions & Weight:**
- 59 1/2" L x 34 1/2" W x 46 1/4" H
- 336-504 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 70” L x 47” W x 59” H
- 571 lbs.

**Motor(s):**
- Qty. 2, 1.0 HP ea., Direct drive EC motorized impeller packages

**Options:**
- fused disconnect
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
- Class 1 low leakage motorized isolation dampers - FA, EA or both airstreams
- Gravity backdraft dampers
- Qty. 2, Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

**Accessories:**
- Filters - MERV 13, 2” (shipped loose)
- Backdraft damper - OA or EA
- Potentiometer speed control - remote installed
- 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 - EK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50–400 MBH), installed downstream of any fans

**EC MOTOR OPTION OPERATING RANGE**

<table>
<thead>
<tr>
<th>HE1.5XINV EC MOTOR</th>
<th>H1.5XINV OPERATING RANGE</th>
<th>H1.5XINV OPERATING RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample Points Depicted in Larger Dots</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Airflow (CFM)</td>
<td>External Static Pressure (Inches Water Column)</td>
<td>Unit Power Consumption (Watts)</td>
</tr>
<tr>
<td>630</td>
<td>0.07</td>
<td>189</td>
</tr>
<tr>
<td>807</td>
<td>0.12</td>
<td>314</td>
</tr>
<tr>
<td>1014</td>
<td>0.20</td>
<td>502</td>
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<tr>
<td>1222</td>
<td>0.28</td>
<td>735</td>
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<td>1430</td>
<td>0.39</td>
<td>1015</td>
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<tr>
<td>513</td>
<td>0.20</td>
<td>185</td>
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<tr>
<td>656</td>
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<td>310</td>
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<tr>
<td>825</td>
<td>0.52</td>
<td>498</td>
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<td>994</td>
<td>0.74</td>
<td>735</td>
</tr>
<tr>
<td>1163</td>
<td>1.01</td>
<td>1017</td>
</tr>
</tbody>
</table>

**Note:** Watts is for the entire unit.

**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. Cir. Amps</th>
<th>max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>8.0</td>
<td>18.0</td>
<td>20</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>6.2</td>
<td>14.0</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.

Download specification at: renewaire.com/specifications
HE1.5XINV Energy Recovery Ventilator  EC Motor with Bypass Economizer

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air outlet

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.
3. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2”. SMACNA RULES APPLY.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. Airstreams can not be switched.
SPECIFICATIONS & DIMENSIONS

Download specification at: renewaire.com/specifications

Energy Recovery Ventilator
Standard

**SPECIFICATIONS**

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

**Typical Airflow Range:** 375-1,575 CFM

**AHRI 1060 Certified Core:**
One L62-G5 and one L125-G5

**Standard Features:**
- Non-fused disconnect
- 24 VAC transformer/relay package
- Cross-core differential pressure ports

**Filters:**
- Total qty. 4, MERV 8: (2) 14" x 20" x 2" and (2) 16" x 20" x 2"

**Unit Dimensions & Weight:**
86" L x 33 1/4" W x 56 3/4" H
387-548 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
70" L x 47" W x 83" H
615 lbs.

**Motor(s):**
- Qty. 2, 1.0 HP ea., Direct drive standard motorized impeller packages

**Options:**
- Qty. 2, Variable Speed/ECM - Direct drive motors (see HE1.5XRT EC Motor submittal) - 1.0 HP 120V/1Ph/60HZ, 1.0 HP 208-230V/1Ph/60HZ
- Independent blower control
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Class I low leakage motorized isolation dampers - FA, EA or both airstreams
- Gravity backdraft dampers
- Qty. 2, Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

**Accessories:**
- Filters - MERV 13, 2" (shipped loose)
- Backdraft damper - OA or EA
- 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 - EK series (1–175 kW); designed for indoor ductwork installation only
- Indirect gas-fired duct furnace - GH series (50–400 MBH), installed downstream of any fans

**AIRFLOW PERFORMANCE**

<table>
<thead>
<tr>
<th>Motor HP Phase</th>
<th>External Static Pressure (Inches Water Column)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.0</td>
</tr>
<tr>
<td>1.0 Single Phase</td>
<td>1,535 CFM</td>
</tr>
<tr>
<td>1.0 Three Phase</td>
<td>1,630 CFM</td>
</tr>
</tbody>
</table>

**Note:** Watts is for the entire unit (2 motors).

**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. Cir. Amps</th>
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<tbody>
<tr>
<td>1.0</td>
<td>120</td>
<td>60</td>
<td>Single</td>
<td>6.5</td>
<td>14.6</td>
<td>20</td>
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<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Single</td>
<td>3.3-3.4</td>
<td>7.7</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>277</td>
<td>60</td>
<td>Single</td>
<td>2.7</td>
<td>6.1</td>
<td>15</td>
</tr>
<tr>
<td>1.0</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>2.2-2.2</td>
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<tr>
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<td>Three</td>
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<td>15</td>
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</tbody>
</table>

Specifications may be subject to change without notice.
HE1.5XRT (RTV/RTR) Energy Recovery Ventilator  Standard

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

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.

Airflow Configuration
Available as shown:

Unit Mounting & Application
Must be mounted as shown. Airstreams cannot be switched. Duct configuration is field convertible.
HE1.5XRT (RTH/RTF) Energy Recovery Ventilator

SPECIFICATIONS & DIMENSIONS

**86” Overall**

**CL 2 1/2” Control In**

**CL 5 5/8” Power In**

**42 7/8” Lift Lugs**

**OA**

**EA**

**RA**

**RTF**

**FA**

**FRONT VIEW**

**TOP VIEW**

**LEFT VIEW**

**RIGHT VIEW**

**CURB 1.5X**

**CURB CROSS-SECTION A-A (TYP.)**

**SECTION A-A**

**DETAILED DIAGRAMS**

**TOP VIEW**

**FRONT VIEW**

**RIGHT VIEW**

**UNIT MOUNTING & APPLICATION**

Must be mounted as shown. Airstreams cannot be switched. Duct configuration is field convertible.

**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.
 Specifications & Dimensions

 Specifications

 Ventilation Type:
 Static plate, heat and humidity transfer

 Typical Airflow Range: 375-1,525 CFM

 AHRI 1060 Certified Core:
 One L62-G5 and one L125-G5

 Standard Features:
 Non-fused disconnect
 24 VAC transformer/relay package
 Cross-core differential pressure ports

 Filters:
 Total qty. 4, MERV 8: (2) 14” x 20” x 2” and
 (2) 16” x 20” x 2”

 Unit Dimensions & Weight:
 86” L x 33 1/4” W x 56 3/4” H
 386-548 lbs., varies by option(s)

 Max. Shipping Dimensions & Weight (on pallet):
 70” L x 47” W x 83” H
 615 lbs.

 Motor(s):
 Qty. 2, 1.0 HP ea., Direct drive EC motorized
 impeller packages

 Options:
 Fused disconnect
 Integrated programmable controls -
 enhanced, premium
 Class 1 low leakage motorized isolation dampers -
 FA, EA or both airstreams
 Gravity backdraft dampers
 Qty. 2, Factory mounted filter alarms -
 both airstreams
 Double wall construction
 Exterior paint - white, custom colors

 Accessories:
 Filters - MERV 13, 2" (shipped loose)
 Backdraft damper - OA or EA
 Potentiometer speed control - remote installed
 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 - EK series (1–175 kW);
 designed for indoor ductwork installation only
 Indirect gas-fired duct furnace - GH series
 (50-400 MBH), installed downstream of any fans

 EC Motor Option Operating Range

 Note: Watts is for the entire unit.
 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. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
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<tr>
<td>1.0</td>
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 Specifications may be subject to change without notice.
HE1.5XRT (RTH/RTF) Energy Recovery Ventilator  EC Motor Option

**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.

**AIRFLOW CONFIGURATION**
Available as shown:

**UNIT MOUNTING & APPLICATION**
Must be mounted as shown. Airstreams cannot be switched. Duct configuration is field convertible.
**Energy Recovery Ventilator**

**Standard**

### SPECIFICATIONS

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

#### Typical Airflow Range:
500-2,200 CFM

#### AHRI 1060 Certified Core:
Two L125-G5

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

#### Filters:
Total qty. 4, MERV 8: 20” x 20” x 2”

#### Unit Dimensions & Weight:
64 1/2” L x 43” W x 35 1/2” H
406-619 lbs., varies by option(s)

#### Max. Shipping Dimensions & Weight (on pallet):
70” L x 47” W x 40” H
714 lbs.

#### Motor(s):
Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

### OPTIONS:
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
- Class I 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” (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)
- 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 - EK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

### ELECTRICAL DATA

#### Standard Electrical Specifications

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

Note: Brake Horse Power (BHP) is for one blower motor package only.

### AIRFLOW PERFORMANCE

<table>
<thead>
<tr>
<th>Motor HP</th>
<th>Blower RPM</th>
<th>Sheave Adj.</th>
<th>External Static Pressure (in. w.g.)</th>
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</table>

### Note:
- Brake Horse Power (BHP) is for one blower motor package only.
- Operation in this zone will likely exceed FLA limits.
- Operation in this zone outside of core airflow limits.

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

Download specification at: renewaire.com/specifications
**HE2XINH** Energy Recovery Ventilator  Standard

### AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

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

### 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.

---

**TOP VIEW**

- 42 7/8' Overall
- 41 1/2' Case
- 39 1/8' Minimum Service Area
- 59 3/8' Minimum Service Area
- Door swing

**LEFT VIEW**

- 16' X 12' Duct Receiving Flange Typ.
- 4 1/4' Duct Range Typ.
- E-Box
- Disconnect switch
- G 5 3/4' Power In
- G 1 1/4' Control In
- (2) 7/8' Holes for Wiring in Bottom of E-Box

**FRONT VIEW**

- 64 1/4' Overall
- 49 1/8' Case
- Pressure Ports (4) Typ.
- Door swing

**RIGHT VIEW**

- 24' X 14' Duct Receiving Range
- OA Damper Location (Optional)
- RA Damper Location (Optional)
- RA Inlet 24' X 14'
- OA Inlet 24' X 14'

---

For the most complete and current information visit RenewAire.com
**Energy Recovery Ventilator**

**Standard with Bypass Economizer**

**SPECIFICATIONS**

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

**Typical Airflow Range:**
500-2,200 CFM

**AHRI 1060 Certified Core:**
Two 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. 4, MERV 8: 20” x 20” x 2”

**Unit Dimensions & Weight:**
- 64 1/2” L x 43” W x 35 1/2” H
- 406-619 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 70” L x 47” W x 40” H
- 714 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

**Options:**
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- 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" (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)
- IAQ sensor - wall mount (IAQ-W), duct mount (IAQ-D)
- Smoke Detector - duct mount (SD-D)
- Electric duct heater - EK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

**AIRFLOW PERFORMANCE**

<table>
<thead>
<tr>
<th>Motor HP</th>
<th>Blower RPM</th>
<th>Sheave Adj. Turns</th>
<th>External Static Pressure (in. w.g.)</th>
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<td>1720 1.0 1600 0.9 1410 0.8 1250 0.7 975 0.6</td>
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</tbody>
</table>

**Note:** Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits. 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. Circ. Amps</th>
<th>Max. Overcurrent Protection Device</th>
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<tbody>
<tr>
<td>1.5</td>
<td>120</td>
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<td>Single</td>
<td>15.2</td>
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<td>4.6-4.8</td>
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<tr>
<td></td>
<td>575</td>
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<td></td>
<td>Three</td>
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<td>6.5</td>
<td>15</td>
</tr>
</tbody>
</table>

**Download specification at:** renewaire.com/specifications
HE2X-INH Energy Recovery Ventilator  Standard with Bypass Economizer

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

**UNIT MOUNTING & APPLICATION**
Must be mounted as shown. Airstreams cannot be switched.

**ABBREVIATIONS**
EA: Exhaust Air to outside
OA: Outside Air Intake
RA: Return Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air Intake

**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.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.
Energy Recovery Ventilator
Standard

**SPECIFICATIONS**

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

**Typical Airflow Range:** 500-2,200 CFM

**AHRI 1060 Certified Core:** Two 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. 4, MERV 8: 20" x 20" x 2"

**Unit Dimensions & Weight:**
- 50 1/2" L x 42" W x 52 1/2" H
- 363-583 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 70" L x 47" W x 57" H
- 678 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

**Options:**
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
- 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" (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)
- 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 - EK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

---

**AIRFLOW PERFORMANCE**

<table>
<thead>
<tr>
<th>Motor HP</th>
<th>Blower RPM</th>
<th>Sheave Adj. Turns Open</th>
<th>External Static Pressure (in. w.g.)</th>
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</tr>
<tr>
<td></td>
<td>1658</td>
<td>0</td>
<td>2125</td>
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</table>

**Note:** Brake Horse Power (BHP) is for one blower motor package only.

- Operation in this zone will likely exceed FLA limits.
- Operation in this zone outside of core airflow limits.

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>Standard Electrical Specifications</th>
<th>Optional FactoryInstalled VFD Electrical Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP</td>
<td>Volts</td>
</tr>
<tr>
<td>1.5</td>
<td>120</td>
</tr>
<tr>
<td>1.5</td>
<td>208-230</td>
</tr>
<tr>
<td></td>
<td>460</td>
</tr>
<tr>
<td></td>
<td>575</td>
</tr>
<tr>
<td>2.0</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>208-230</td>
</tr>
<tr>
<td></td>
<td>460</td>
</tr>
<tr>
<td></td>
<td>575</td>
</tr>
<tr>
<td></td>
<td>208-230</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE2XINV Energy Recovery Ventilator Standard

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.

Airflow Configuration
Available as shown in dimension drawing.

Unit Mounting & Application
Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.
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INDOOR UNIT

SPECIFICATIONS & DIMENSIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 500-2,200 CFM

AHRI 1060 Certified Core: Two 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. 4, MERV 8: 20” x 20” x 2”

Unit Dimensions & Weight:
50 1/2” L x 42” W x 52 1/2” H
363-583 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
70” L x 47” W x 57” H
678 lbs.

Motor(s):
Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:
Onboard variable frequency drives (VFDs) -
one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls -
enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) -
dry-bulb temperature controls (standard),
enthalpy controls (option)
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” (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)
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 - EK series (1–175 kW)
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>
<th>Max. Overcurrent Protection Device</th>
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</thead>
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<tr>
<td>1.5</td>
<td>120</td>
<td>60</td>
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<td>10.8-10.0</td>
<td>24.3</td>
<td>35</td>
<td>6.6-5.8</td>
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<td>60</td>
<td>Three</td>
<td>6.6-5.8</td>
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<td>20</td>
<td>6.6-5.8</td>
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<tr>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>2.9</td>
<td>6.5</td>
<td>15</td>
<td>7.2</td>
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<tr>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>2.9</td>
<td>6.5</td>
<td>15</td>
<td>7.2</td>
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<tr>
<td>575</td>
<td>60</td>
<td>Three</td>
<td>2.4</td>
<td>5.4</td>
<td>15</td>
<td>5.9</td>
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Optional Factory Installed VFD Electrical Specifications

<table>
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<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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</thead>
<tbody>
<tr>
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<td>150</td>
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<tr>
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<td>5.4</td>
<td>15</td>
<td>5.9</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE2XINV Energy Recovery Ventilator Standard with Bypass Economizer

**ABBREVIATIONS**
EA: Exhaust Air to outside  
OA: Outside Air intake  
RA: Room Air to be exhausted  
FA: Fresh Air to inside  
BP: Bypass Air Intake

**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 BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.  
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).  
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

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

**UNIT MOUNTING & APPLICATION**
Must be mounted as shown. Airstreams can not be switched.
**ROOFTOP UNIT**

**SPECIFICATIONS & DIMENSIONS**

Specifications may be subject to change without notice.

**Energy Recovery Ventilator**

**Standard**

**SPECIFICATIONS**

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 500-2,000 CFM

AHRI 1060 Certified Core: Two 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. 4, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:
87 1/2" L x 43 1/4" W x 44" H
498-689 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
96" L x 47" W x 50" H
784 lbs.

Motor(s):
Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

Options:
- 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" (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 - EK series (1–175 kW); designed for indoor ductwork installation only
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

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

---

**AIRFLOW PERFORMANCE**

<table>
<thead>
<tr>
<th>Motor HP</th>
<th>Blower RPM</th>
<th>Sheave Adj. Turns Open</th>
<th>External Static Pressure (in. w.g.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td></td>
<td></td>
<td>0.00</td>
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<tr>
<td></td>
<td></td>
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<td>SCFM</td>
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<td>1192</td>
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<td>1.9</td>
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Note: Brake Horse Power (BHP) is for one blower motor package only.
Thermal Performance Ratings G5 2015.2.xlsx 2

---

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>Standard Electrical Specifications</th>
<th>Optional Factory Installed VFD Electrical Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP</td>
<td>Volts</td>
</tr>
<tr>
<td>1.5</td>
<td>120</td>
</tr>
<tr>
<td>15</td>
<td>208-230</td>
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<tr>
<td>15</td>
<td>208-230</td>
</tr>
<tr>
<td>15</td>
<td>460</td>
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<tr>
<td>15</td>
<td>575</td>
</tr>
<tr>
<td>2.0</td>
<td>120</td>
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<td>2.0</td>
<td>208-230</td>
</tr>
<tr>
<td>2.0</td>
<td>460</td>
</tr>
<tr>
<td>2.0</td>
<td>575</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE2X RT (RTV/RTR) Energy Recovery Ventilator  Standard

**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

**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.

**AIRFLOW CONFIGURATION**
Available as shown:

**UNIT MOUNTING & APPLICATION**
Must be mounted as shown. Airstreams can not be switched.
HE2XRT (RTH/RTF) Energy Recovery Ventilator  Standard

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.

AIRFLOW CONFIGURATION
Available as shown:

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.
Energy Recovery Ventilator
Standard

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 500-1,700 CFM

AHRI 1060 Certified Core: Two 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. 4, MERV 8: (2) 20” x 20” x 2” and
(2) 14” x 20” x 2”

Unit Dimensions & Weight:
77 1/4” L x 61” W x 50” H
566-711 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
80” L x 90” W x 50” H
850 lbs.

Motor(s):
Qty. 2, 2.0 HP ea., Belt drive blower/standard motor packages with adjustable sheaves (see table below)

Options:
Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Integrated programmable controls - enhanced, premium
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:
Filters - MERV 13, 2 (shipped loose)
RTC transition kit - for vertical RTU, for horizontal RTU
Rooftop RTC transition paint - white, custom colors
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)

AIRFLOW PERFORMANCE

| Blower RPM Nominal | Sheave Adj. Turns Open | Tie-In Directly to Rooftop A/C Unit* | Unit Ducted Independently*
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Static Pressure in Adjacent Air Handler (Inches Water Column)</td>
<td>External Static Pressure (Inches Water Column)</td>
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<td></td>
<td></td>
<td>CFM</td>
<td>BHP</td>
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<td>-0.5</td>
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<tr>
<td></td>
<td></td>
<td>1370</td>
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<tr>
<td></td>
<td></td>
<td>1290</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1210</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>4</td>
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<td></td>
<td>1050</td>
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<td>945</td>
<td>6</td>
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<td>Fresh Air</td>
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<td></td>
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<td>1</td>
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<td></td>
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<td>1090</td>
<td>6</td>
</tr>
</tbody>
</table>

Note: Brake Horse Power (BHP) is for one blower motor package only.

Note: Operation in this zone will likely exceed FLA limits.

* See page 30 for installation details.

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>
<th>FLA per motor</th>
<th>Min. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
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<tbody>
<tr>
<td>2.0</td>
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<td>Single</td>
<td>10.8-10.0</td>
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<td>2.9</td>
<td>7.2</td>
<td>15</td>
</tr>
<tr>
<td>2.0</td>
<td>575</td>
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<td>Three</td>
<td>2.4</td>
<td>5.4</td>
<td>15</td>
<td>2.4</td>
<td>5.9</td>
<td>15</td>
</tr>
</tbody>
</table>

Specifications may be subject to change without notice.
HE- SERIES

Model: HE2XRTC
Drawing Type: Unit Dimension
Version: MAY18

Abbreviation:
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.

Airflow Configuration:
Available as shown in dimension drawing.

Unit Mounting & Application:
Must be mounted as shown. Airstreams cannot be switched.

FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEAIRE.COM
**INDOOR UNIT**

**SPECIFICATIONS & DIMENSIONS**

Specifications may be subject to change without notice.

**INDOOR UNIT SPECIFICATIONS**

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

**Typical Airflow Range:** 750-3,300 CFM

**AHRI 1060 Certified Core:** Three 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. 6, MERV 8: 20” x 20” x 2”

**Unit Dimensions & Weight:**
- 72 1/2” L x 63 1/4” W x 44” H
- 628-934 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 80” L x 70” W x 50” H
- 1,029 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

**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>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>460</td>
<td>60</td>
<td>Single</td>
<td>10.8-10.0</td>
<td>24.3</td>
<td>35</td>
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<tr>
<td></td>
<td>575</td>
<td>60</td>
<td>Three</td>
<td>9.4-8.5</td>
<td>21.1</td>
<td>25</td>
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<td>Three</td>
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<td>15</td>
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**Optional Factory Installed VFD 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>
<th>Max. Overcurrent Protection Device</th>
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<td>2.0</td>
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<td>Single</td>
<td>14.7-14</td>
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<td>40</td>
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<td></td>
<td>575</td>
<td>60</td>
<td>Three</td>
<td>9.4-8.5</td>
<td>21.1</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>Three</td>
<td>4.2</td>
<td>9.5</td>
<td>15</td>
<td></td>
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</tbody>
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**AIRFLOW PERFORMANCE**

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<tr>
<th>Motor HP</th>
<th>Blower RPM</th>
<th>Sheave Adj. Turns</th>
<th>Open</th>
<th>External Static Pressure (in. w.g.)</th>
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**Airflow performance includes effect of clean, standard filter supplied with unit.

**Other Features:**
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper - (see bypass DIM drawing)
- Dry-bulb temperature controls (standard), enthalpy controls (option)
- 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

**Options:**
- Filters - MERV 13, 2" (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)
- IAO sensor - wall mount (IAO-W), duct mount (IAO-D)
- Motion occupancy sensor/control - ceiling mount (MC-C), wall mount (MC-W)
- Smoke Detector - duct mount (SD-D)
- Electric duct heater - EK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50–400 MSH), installed downstream of any fans

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

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**Energy Recovery Ventilator**

**Standard**

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

**Typical Airflow Range:** 750-3,300 CFM

**AHRI 1060 Certified Core:** Three 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. 6, MERV 8: 20” x 20” x 2”

**Unit Dimensions & Weight:**
- 72 1/2” L x 63 1/4” W x 44” H
- 628-934 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 80” L x 70” W x 50” H
- 1,029 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)
**HE3X**INH  Energy Recovery Ventilator  Standard

**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.

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

**UNIT MOUNTING & APPLICATION**  
Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.
**ENERGY RECOVERY VENTILATOR**

**SPECIFICATIONS**

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

**Typical Airflow Range:** 750-3,300 CFM

**AHRI 1060 Certified Core:** Three 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. 6, MERV 8: 20” x 20” x 2”

**INDOOR UNIT**

**SPECIFICATIONS**

- **Ventilation Type:** Static plate, heat and humidity transfer
- **Typical Airflow Range:** 750-3,300 CFM
- **AHRI 1060 Certified Core:** Three 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. 6, MERV 8: 20” x 20” x 2”

**Unit Dimensions & Weight:**
- 72 1/2” L x 63 1/4” W x 44” H
- 628-934 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 80” L x 70” W x 50” H
- 1,029 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

**Options:**
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
- 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" (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)
- 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 - EK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

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

---

**ELECTRICAL DATA**

**Standard Electrical Specifications**

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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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Specifications may be subject to change without notice.
HE3XINH Energy Recovery Ventilator  Standard with Bypass Economizer

**BYPASS AIRFLOW SCHEMATIC**

**FRONT VIEW**

- **30" X 16" Bypass Duct Connection** (Direct Mount to Damper, By Others)
- **Face Damper**

**TOP VIEW**

- **BP**
- **OA**
- **EA**
- **FA**

**LEFT VIEW**

- **BP**
- **OA**
- **EA**
- **FA**

**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
- **BP**: Bypass Air Intake

**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 BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

**AIRFLOW CONFIGURATION**

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

**Standard**

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

**Typical Airflow Range:** 750-3,300 CFM

**AHRI 1060 Certified Core:** Three 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. 6, MERV 8: 20" x 20" x 2"

**Unit Dimensions & Weight:**
- 50 3/4" L x 61 1/2" W x 62" H
- 590-999 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 60" L x 90" W x 70" H
- 1,094 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

### AIRFLOW PERFORMANCE

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**Options:**
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
- 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" (slipped 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)
- 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)
- Indirect gas-fired duct furnace - GH series (50–400 MBH), installed downstream of any fans

### ELECTRICAL DATA

<table>
<thead>
<tr>
<th>HP</th>
<th>Volts</th>
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</tbody>
</table>

Specifications may be subject to change without notice.
HE3XINV Energy Recovery Ventilator Standard

- 33 7/8' Minimum Service Area
- Top View
  - RA Damper Location (Optional)
  - RA Inlet 36" X 14" Duct Receiving Range
  - 1 5/8' Typ.
  - 25 5/8' Wiring
  - 36 5/8' Typ.
  - Q. 7 3/4" Wiring

- Front View
  - E-Box
  - Disconnect Switch
  - 5" Damper Frames Typ.
  - OA Inlet 36" X 14" Duct Receiving Range
  - OA Damper Location (Optional)

- Left View
  - OA Inlet 36" X 14" Duct Receiving Range
  - 61 1/2" Overall
  - 61 1/2" Case
  - 4 1/4" Duct Flange Typ.

- Right View
  - OA Inlet 36" X 14" Duct Receiving Range
  - 16" X 12" Duct Receiving Range Typ.

Abbreviation:
- 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.

Airflow Configuration:
Available as shown in dimension drawing.

Unit Mounting & Application:
Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.
**SPECIFICATIONS**

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

**Typical Airflow Range:** 750-3,300 CFM

**AHRI 1060 Certified Core:** Three 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. 6, MERV 8: 20” x 20” x 2”

**Unit Dimensions & Weight:**
- 50 3/4” L x 61 1/2” W x 62” H
- 590-999 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 60” L x 90” W x 70” H
- 1,094 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

**Energy Recovery Ventilator**

**Standard with Bypass Economizer**

**Options:**
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
- 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" (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)
- 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 - EK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

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

### AIRFLOW PERFORMANCE

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<th>Sheave Adj. Turns Open</th>
<th>External Static Pressure (in. w.g.)</th>
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**Note:** Brake Horse Power (BHP) is for one blower motor package only.

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

### ELECTRICAL DATA

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<th>HP</th>
<th>Volts</th>
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<th>Phase</th>
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Specifications may be subject to change without notice.
HE3XINV Energy Recovery Ventilator Standard with Bypass Economizer

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

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 blade when fully opened to be 2”. SMACNA rules apply.
4. Units with bypass will require additional space for the connection of the bypass duct (by others).
5. For installation details, refer to I&O manual supplement for bypass.

Airflow Configuration:
Available as shown in dimension drawing.

Unit Mounting & Application:
Must be mounted as shown. Airstreams cannot be switched.
specifications & dimensions

energy recovery ventilator
standard

specifications

ventilation type:
Static plate, heat and humidity transfer

typical airflow range: 750-3,300 CFM

AHRI 1060 certified core: Three 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. 6, MERV 8: 20” x 20” x 2”

unit dimensions & weight:
94” L x 63 1/4” W x 44” H
656-972 lbs., varies by option(s)

max. shipping dimensions & weight (on pallet):
80” L x 70” W x 67” H
1,067 lbs.

motor(s):
Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

options:
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” (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 - EK series (1–175 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

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optional factory installed VFD electrical specifications

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Note: Brake Horse Power (BHP) is for one blower motor package only.

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

airflow performance

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note: brake horse power (BHP) is for one blower motor package only.

operation in this zone will likely exceed FLA limits.
operation in this zone outside of core airflow limits.

electrical data
**HE3XRT (RTV/RTR) Energy Recovery Ventilator Standard**

**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

**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.

**Airflow Configuration**
Available as shown:

**Unit Mounting & Application**
Must be mounted as shown. Airstreams cannot be switched.
HE3XRT (RTH/RTF) Energy Recovery Ventilator  Standard

SPECIFICATIONS & DIMENSIONS

1.800.627.4499

SPECIFICATIONS & DIMENSIONS

93 7/8" Overall
56 7/8"

19 5/8"

5" Damper

Clauses Typ.

55 1/4" Lift Lugs

CL 2 5/8" Control In

CL 5 3/4" Power In

E-Box

Disconnect Switch

Pressure Ports (4) Typ.

5" Damper Frames Typ.

56 7/8" O.D.

FRONT VIEW

CURB 3X

TOP VIEW

CURB CROSS-SECTION A-A (TYP.)

1 1/2" X 1/4"

1 7/8"

Neoprene Gasket

3/4" X 3 1/2"

Wooden Nailer

SECTION A-A

UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams can not be switched.
## Specifications

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

### Typical Airflow Range:
1,100-2,400 CFM

### AHRI 1060 Certified Core:
Three 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. 5, MERV 8: (3) 20" x 20" x 2" and (2) 16" x 25" x 2"

### Unit Dimensions & Weight:
81 1/4" L x 63 1/2" W x 48 1/4" H
713-1,084 lbs., varies by option(s)

### Max. Shipping Dimensions & Weight (on pallet):
80" L x 90" W x 80" H
1,225 lbs.

### Motor(s):
Qty. 2, 3.0 HP ea., Belt drive blower/standard motor packages with adjustable sheaves

### Options:
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Integrated programmable controls - enhanced, premium
- Qty. 2, Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

### Accessories:
- Filters - MERV 13, 2" (shipped loose)
- RTC transition kit - for vertical RTU, for horizontal RTU
- Rooftop RTC transition paint - white, custom colors
- 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)

### Electrical Data

#### Standard Electrical Specifications

<table>
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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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### Airflow Performance

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### Note:
- Brake Horse Power (BHP) is for one blower motor package only.
- Operation in this zone will likely exceed FLA limits.
- See page 38 for installation details.

### Electrical Data

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<tr>
<th>HP</th>
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### Note:
Specifications may be subject to change without notice.
HE3XRTC Energy Recovery Ventilator Standard

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.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.
# Specifications & Dimensions

## Indoor Unit

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

**Typical Airflow Range:**
1,000-4,400 CFM

**AHRI 1060 Certified Core:** Four 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. 8, MERV 8: 20” x 20” x 2”

**Unit Dimensions & Weight:**
- 72 3/4” L x 82 3/4” W x 44” H
- 723-1,092 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 80” L x 90” W x 50” H
- 1,228 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

### Options:
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- 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” (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)
- 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 - EK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

## Specifications

### Electrical Data

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### Airflow Performance

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**Note:** Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

### 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.</th>
<th>Max. Overcurrent Protection Device</th>
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**Specifications may be subject to change without notice.**
HE4XINH   Energy Recovery Ventilator   Standard

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.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.
RENEWAIRE.COM
1.800.627.4499

SPECIFICATIONS & DIMENSIONS

Specifications may be subject to change without notice.

INDOOR UNIT

Energy Recovery Ventilator
Standard with Bypass Economizer

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 1,000-4,400 CFM

AHRI 1060 Certified Core: Four 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. 8, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:
72 3/4" L x 82 3/4" W x 44" H
723-1,092 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
80" L x 90" W x 50" H
1,228 lbs.

Motor(s):
Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:
Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
Class 1 low leakage motorized isolation dampers - OA, RA or both airstreams
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction

Accessories:
Filters - MERV 13, 24" (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)
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 - EK series (1–175 kW)
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

Download specification at: renewaire.com/specifications

Download specification at:
renewaire.com/specifications

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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Note: Brake Horse Power (BHP) is for one blower motor package only.

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

Specifications may be subject to change without notice.

AIRFLOW PERFORMANCE

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</table>

Note: Operation in this zone will likely exceed FLA limits.

Note: Operation in this zone outside of core airflow limits.

Energy Recovery Ventilator
Standard with Bypass Economizer

Download specification at:
renewaire.com/specifications
HE4XNH Energy Recovery Ventilator Standard with Bypass Economizer

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

INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

NOTE
1. Dimensions are rounded to the nearest eighth of an inch.
2. Specifications may be subject to change without notice.
3. Minimum duct clearance from damper blade to be 2 1/8" (53.7 mm) apply.
4. Units with bypass will require additional space for the connection of bypass duct (by others).
5. For installation details, refer to I&O Manual Supplement for Bypass.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams cannot be switched.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEAIRE.COM
Energy Recovery Ventilator
Standard

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 1,000-4,400 CFM

AHRI 1060 Certified Core: Four 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. 8, MERV 8: 20” x 20” x 2”

Unit Dimensions & Weight:
50 3/4" L x 81 1/2" W x 62" H
753-1,196 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
60” L x 90” W x 70” H
1,332 lbs.

Motor(s):
Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

Options:
Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
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" (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)
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 - EK series (1–175 kW)
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

Download specification at: renewaire.com/specifications

ELECTRICAL DATA

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Note: Brake Horse Power (BHP) is for one blower motor package only.
Operation in this zone will likely exceed FLA limits.
Operation in this zone outside of core airflow limits.

Download specification at: renewaire.com/specifications
HE4XINV  Energy Recovery Ventilator  Standard

TOP VIEW

RA Damper Location (Optional)
RA Inlet 42” X 14” Duct Receiving Range
1 5/8” Typ.

LEFT VIEW

RA Inlet 42” X 14” Duct Receiving Range
8” Wiring
37 7/8” Typ.

FRONT VIEW

5” Damper Frames Typ.
Pressure Ports (4) Typ.
4 1/4” Duct Flange Typ.

RIGHT VIEW

OA Damper Location (Optional)
OA Inlet 42” X 14” Duct Receiving Flange
81 7/8” Overall
81 1/2” Case

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

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

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.
Energy Recovery Ventilator
Standard with Bypass Economizer

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 1,000-4,400 CFM

AHRI 1060 Certified Core: Four 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. 8, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:
50 3/4" L x 81 1/2" W x 62" H
753-1,196 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
60" L x 90" W x 70" H
1,332 lbs.

Motor(s):
Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

Options:
Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper
(see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
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" (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)
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 - EK 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: Brake Horse Power (BHP) is for one blower motor package only.
Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

ELECTRICAL DATA

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<tr>
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<th>Optional Factory Installed VFD Electrical Specifications</th>
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Specifications may be subject to change without notice.
HE4XINV Energy Recovery Ventilator Standard with Bypass Economizer

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air Intake

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 BLADE WHEN FULLY OPENED TO BE 2”; SMACNA RULES APPLY.
4. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
5. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.
Energy Recovery Ventilator
Standard

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 1,000-4,400 CFM

AHRI 1060 Certified Core: Four 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. 8, MERV 8: 20" x 20" x 2"

Unit Dimensions & Weight:
94" L x 83" W x 44" H
845-1,143 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
80" L x 90" W x 67" H
1,279 lbs.

Motor(s):
Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:
- 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"
- 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 - EK series (1–175 kW)); designed for indoor ductwork installation only
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

Download specification at: renewaire.com/specifications

AIRFLOW PERFORMANCE

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<th>Motor HP</th>
<th>Blower RPM</th>
<th>Sheave Adj. Turns Open</th>
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Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits. Operation in this zone outside of core airflow limits.

ELECTRICAL DATA

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Specifications may be subject to change without notice.
HE4XRT (RTV/RTR) Energy Recovery Ventilator Standard

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

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.

AIRFLOW CONFIGURATION
Available as shown:

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams cannot be switched.
THIS PAGE IS INTENTIONALLY LEFT BLANK.
VENTILATION TYPE:
Static plate, heat and humidity transfer

TYPICAL AIRFLOW RANGE:
2,500-3,900 CFM

AHRI 1060 CERTIFIED CORE:
Four 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. 8, MERV 8: (4) 20" x 20" x 2" and (4) 16" x 20" x 2"

UNIT DIMENSIONS & WEIGHT:
81 1/4" L x 83 1/4" W x 48 1/4" H
887-1,169 lbs., varies by option(s)

MAX. SHIPPING DIMENSIONS & WEIGHT (ON PALLET):
80" L x 90" W x 80" H
1,300 lbs.

MOTOR(S):
Qty. 2, 5.0 HP ea., Belt drive blower/standard motor packages with adjustable sheaves

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>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>14.5-13.4</td>
<td>6.7</td>
<td>15.1</td>
</tr>
<tr>
<td></td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>14.5-13.4</td>
<td>6.7</td>
<td>15.1</td>
</tr>
<tr>
<td></td>
<td>575</td>
<td>60</td>
<td>Three</td>
<td>5.3</td>
<td>11.9</td>
<td>15</td>
</tr>
</tbody>
</table>

Note: Electric Duct Heater and Indirect Gas-Fired Duct Furnace are not available on RTC units.

AIRFLOW PERFORMANCE

<table>
<thead>
<tr>
<th>Blower RPM Nominal</th>
<th>Sheave Adj. Turns Open</th>
<th>Static Pressure in Adjacent Air Handler (Inches Water Column)</th>
<th>Unit Ducted Independently* (Inches Water Column)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>-0.75 CFM</td>
<td>BHP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-0.25 CFM</td>
<td>BHP</td>
</tr>
</tbody>
</table>

Note: Brake Horse Power (BHP) is for one blower motor package only.

Note: Operation in this zone will likely exceed FLA limits.

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

* See page 38 for installation details.

OPTIONS:
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Qty. 2, Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

ACCESSORIES:
- Filters - MERV 13, 2" (shipped loose)
- RTC transition kit - for vertical RTU, for horizontal RTU
- Rooftop RTC transition paint - white, custom colors
- 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)

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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<tbody>
<tr>
<td>5.0</td>
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<tr>
<td></td>
<td>575</td>
<td>60</td>
<td>Three</td>
<td>5.3</td>
<td>11.9</td>
<td>15</td>
</tr>
</tbody>
</table>

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HE4XRTC Energy Recovery Ventilator Standard

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.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.
**Energy Recovery Ventilator**

**Standard**

**SPECIFICATIONS**

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

**Typical Airflow Range:** 1,500-6,500 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 20” x 2”

**Unit Dimensions & Weight:**
- 88” L x 113 1/2” W x 81 3/4” H
- 2,235-3,099 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 116” L x 90” W x 90” H
- 3,439 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

**Options:**
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper
- Carbon dioxide sensor/control - wall mount (CO2-W), duct mount (CO2-D)
- IAQ sensor - wall mount (IAQ-W), duct mount (IAQ-D)
- Motor(s): Qty. 2. Belt drive blower/standard motor packages with adjustable sheaves (see table below)

**Accessories:**
- Filters - MERV 13, 2” (shipped loose)
- Digital time clock - wall mount (TC7D-W), in exterior enclosure (TC7D-E)
- Smoke Detector - duct mount (SD-D)
- Electric duct heater - EK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

**ELECTRICAL DATA**

**Standard Electrical Specifications**

**Motor** | **Blower RPM** | **Sheave Adj. Turns Open** | **External Static Pressure (in. w.g.)** | **CFM** | **BHP** | **CFM** | **BHP** | **CFM** | **BHP** | **CFM** | **BHP** | **CFM** | **BHP**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
| 5.0 | 1460 | 4.5 | 5005 | 3.2 | 4800 | 3.2 | 4650 | 3.1 | 4475 | 3.0 | 4200 | 2.9 | 4000 | 2.8 | 3750 | 2.7 | 3400 | 2.5 |
| 1610 | 2 | 5550 | 4.2 | 5375 | 4.2 | 5250 | 4.1 | 5100 | 4.1 | 4900 | 4.0 | 4650 | 3.9 | 4500 | 3.8 | 4250 | 3.7 | 4000 | 3.6 |
| 1725 | 0 | 5275 | 3.7 | 5200 | 3.6 | 4900 | 3.5 | 4775 | 3.5 | 4550 | 3.4 | 4350 | 3.3 | 4125 | 3.3 | 3875 | 3.2 | 3575 | 3.1 |

**7.5**

| 1560 | 4.5 | 5275 | 3.7 | 5200 | 3.6 | 4900 | 3.5 | 4775 | 3.5 | 4550 | 3.4 | 4350 | 3.3 | 4125 | 3.3 | 3875 | 3.2 | 3575 | 3.1 |
| 1740 | 2 | 5950 | 5.0 | 5825 | 5.0 | 5625 | 4.9 | 5490 | 4.9 | 5325 | 4.8 | 5125 | 4.7 | 4950 | 4.7 | 4750 | 4.6 | 4525 | 4.5 |
| 1865 | 0 | 6500 | 6.5 | 6350 | 6.5 | 6225 | 6.4 | 6125 | 6.4 | 5910 | 6.3 | 5825 | 6.2 | 5625 | 6.1 | 5410 | 6.1 | 5300 | 6.0 |

**Note:** Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits.

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

**AIRFLOW PERFORMANCE**

**Standard Specifications**

**Motor HP** | **Blower RPM** | **Sheave Adj. Turns Open** | **External Static Pressure (in. w.g.)** | **CFM** | **BHP** | **CFM** | **BHP** | **CFM** | **BHP** | **CFM** | **BHP** | **CFM** | **BHP**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
| 5.0 | 208-230 | Three | 14.5-13.4 | 32.6 | 45 | 14.5-13.4 | 35.9 | 45 |
| 460 | Three | 4.3 | 15.1 | 20 | 16.6 | 20 |
| 575 | Three | 5.3 | 11.9 | 15 | 13.1 | 15 |
| 7.5 | 208-230 | Three | 21.0-19.0 | 47.3 | 60 | 21.0-19.0 | 52.0 | 60 |
| 460 | Three | 9.5 | 21.4 | 25 | 23.5 | 25 |
| 575 | Three | 7.6 | 17.1 | 20 | 18.8 | 20 |

**Options:**

**Motor(s):** Qty. 2. Belt drive blower/standard motor packages with adjustable sheaves (see table below)

**Accessories:**
- Filters - MERV 13, 2” (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)
- IAQ sensor - wall mount (IAQ-W), duct mount (IAQ-D)
- Smoke Detector - duct mount (SD-D)
- Electric duct heater - EK series (1-175 kW)
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

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**Download specification at:** renewaire.com/specifications
**HE6XIN**  Energy Recovery Ventilator  **Standard**

**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. All Units have internal EA backdraft damper, unless an EA motorized isolation damper is specified.
2. Unless otherwise specified, dimensions are rounded to the nearest eighth of an inch.
3. Specifications may be subject to change without notice.

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

**UNIT MOUNTING & APPLICATION**
Must be mounted as shown. Airstreams cannot be switched.
Energy Recovery Ventilator
Standard with Bypass Economizer

**SPECIFICATIONS**

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

**Typical Airflow Range:** 1,500-6,500 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 20” x 2”

**Unit Dimensions & Weight:**
88” L x 113 1/2” W x 81 3/4” H
2,235-3,099 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
116” L x 90” W x 90” H
3,439 lbs.

**Motor(s):**
Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

**Options:**
Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Integrated programmable controls - enhanced, premium
Bypass economizer damper - see bypass DIM drawing - dry-bulb temperature controls (standard), enthalpy controls (option)
Class 1 low leakage motorized isolation dampers - OA, EA or both airstreams
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

**Accessories:**
Filters - MERV 13, 2” (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)
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 - EK series (1–175 kW)
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

**AIRFLOW PERFORMANCE**

<table>
<thead>
<tr>
<th>Motor HP</th>
<th>Blower RPM</th>
<th>Sheave Adj. Turns Open</th>
<th>External Static Pressure (in. w.g.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.00</td>
</tr>
<tr>
<td>5.0</td>
<td></td>
<td></td>
<td>CFM</td>
</tr>
<tr>
<td>1460</td>
<td>4.5</td>
<td>5000 3.2 4800 3.2 4650 3.1 4475 3.0 4200 2.9 4000 2.8 3750 2.8 3400 2.7 3100 2.5</td>
<td></td>
</tr>
<tr>
<td>1610</td>
<td>2</td>
<td>5550 4.2 5375 4.2 5250 4.1 5100 4.1 4900 4.0 4650 3.9 4500 3.8 4250 3.7 4000 3.6</td>
<td></td>
</tr>
<tr>
<td>1725</td>
<td>0</td>
<td>5275 5.0 5200 5.0 5000 4.9 4850 4.8 4600 4.6 4600 4.6</td>
<td></td>
</tr>
<tr>
<td>7.5</td>
<td></td>
<td></td>
<td>CFM</td>
</tr>
<tr>
<td>1560</td>
<td>4.5</td>
<td>5275 3.7 5200 3.6 4900 3.5 4775 3.4 4550 3.3 4325 3.3 3875 3.2 3575 3.1</td>
<td></td>
</tr>
<tr>
<td>1740</td>
<td>2</td>
<td>5950 5.0 5825 5.0 5625 4.9 5400 4.9 5325 4.8 5125 4.7 4950 4.7 4750 4.6 4525 4.5</td>
<td></td>
</tr>
<tr>
<td>1865</td>
<td>0</td>
<td>6500 6.5 6350 6.5 6225 6.4 6125 6.4 5910 6.3 5825 6.2 5625 6.1 5410 6.1 5300 6.0</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Brake Horse Power (BHP) is for one blower motor package only.

**Note:** Operation in this zone will likely exceed FLA limits.

**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. Cir. Amps</th>
<th>Max. Overcurrent Protection Device</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>14.5-13.4</td>
<td>15.1</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>160</td>
<td>60</td>
<td>Three</td>
<td>16.7</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>175</td>
<td>60</td>
<td>Three</td>
<td>17.5</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>7.5</td>
<td>208-230</td>
<td>60</td>
<td>Three</td>
<td>21.0-19.0</td>
<td>21.4</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>160</td>
<td>60</td>
<td>Three</td>
<td>21.6</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>175</td>
<td>60</td>
<td>Three</td>
<td>22.2</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

**Specifications may be subject to change without notice.**
HE6XIN  Energy Recovery Ventilator  Standard with Bypass Economizer

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

**INSTALLATION ORIENTATION**
Unit must be installed in orientation shown.

**NOTE**
1. ALL UNITS HAVE INTERNAL EA BACKDRAFT DAMPER, UNLESS AN EA MOTORIZED ISOLATION DAMPER IS SPECIFIED.
2. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
3. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
4. DAMPER SWINGS IN DIRECTION OF AIRFLOW, MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
5. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
6. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

**UNIT MOUNTING & APPLICATION**
Must be mounted as shown. Airstreams can not be switched.

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

---

**BYPASS AIRFLOW SCHEMATIC**
(OA/FA Airstream Not Shown)

---

**TOP VIEW**
- FA Blower Outlet is 16" X 22" (Nom).
- 24" x 36" Duct Flange is also supplied. Field install only in location shown.
- Core Access Door
- Pressure Ports (4) Typ.

**LEFT VIEW**
- 6 3/8" Typ.
- 102 7/8" Lifting Lugs
- 2 1/4"
- 10 1/2"
- 63 1/4"
- 78 1/4" Case
- 82 3/8" Overall

**FRONT VIEW**
- 6 3/8" Typ.
- 85 5/8" Overall
- 85 5/8" Case
- 75 7/8" Lifting Lugs
- 63 1/4"

**RIGHT VIEW**
- Power and Control Wiring Entries 7/8" Dia.
- INDOOR UNITS: EA BLOWER Outlet is 16" X 22" (Nom), 24" x 36" Duct Flange is also supplied. Field install only in location shown.
- 2"

**BACK VIEW**
- 8 3/4" RA Face Damper Location Optional
- 24" X 36" OA Duct Range
- 21 1/8"
**SPECIFICATIONS & DIMENSIONS**

**ROOFTOP UNIT**

---

**Energy Recovery Ventilator Standard**

**SPECIFICATIONS**

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

**Typical Airflow Range:**
- 1,500-6,500 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 20” x 2”

**Unit Dimensions & Weight:**
- 106 1/2” L x 113 1/2” W x 81 3/4” H
- 2,301-3,166 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 116” L x 90” W x 90” H
- 3,599 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

---

**AIRFLOW PERFORMANCE**

<table>
<thead>
<tr>
<th>Motor HP</th>
<th>Blower RPM</th>
<th>Sheave Adj. Turns Open</th>
<th>External Static Pressure (in. w.g.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>CFM</td>
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<td>5550</td>
</tr>
<tr>
<td></td>
<td>1725</td>
<td>0.0</td>
<td></td>
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<tr>
<td>7.5</td>
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<td>4.5</td>
<td>5275</td>
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<td></td>
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<tr>
<td></td>
<td>1865</td>
<td>0.0</td>
<td>6500</td>
</tr>
</tbody>
</table>

**Note:** Brake Horse Power (BHP) is for one blower motor package only. **Operation in this zone will likely exceed FLA limits.**

---

**ELECTRICAL DATA**

**Standard Electrical Specifications**

- FLA per motor
- Min. Cir. Amps

**Optional Factory Installed VFD Electrical Specifications**

- FLA per motor
- Min. Cir. Amps

<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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<td>Three</td>
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<td>21.0-19.0</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>460</td>
<td>60</td>
<td>Three</td>
<td>9.5</td>
<td>9.5</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>575</td>
<td>60</td>
<td>Three</td>
<td>7.6</td>
<td>7.6</td>
<td>60</td>
</tr>
</tbody>
</table>

**Options:**
- 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, EA or both airstreams
- Qty. 2 Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

**Accessories:**
- Filters - MERV 13, 2” (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 - EK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50–400 MBH), installed downstream of any fans

---

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**For safety listed products, see LE-SERIES models.**
Energy Recovery Ventilator
Standard

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 2,000-7,950 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 20” x 2”

Unit Dimensions & Weight:
88” L x 113 1/2” W x 81 3/4” H
2,261-3,278 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
116” L x 90” W x 90” H
3,618 lbs.

Motor(s):
Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:
Onboard variable frequency drives (VFDs) - one or both airstreams
Shaft grounding ring on motors with VFDs
Integrated programmable controls - enhanced, premium
Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
Class 1 low leakage motorized isolation dampers - OA, EA or both airstreams
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction
Exterior paint - white, custom colors

Accessories:
Filters - MERV 13, 2” (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)
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 - EK 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: Brake Horse Power (BHP) is for one blower motor package only.

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Specifications may be subject to change without notice.
HE8XIN Energy Recovery Ventilator Standard

Abreviations:
- 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. All units have internal EA backdraft damper. Unless an EA motorized isolation damper is specified.
2. Unless otherwise specified, dimensions are rounded to the nearest eighth of an inch.
3. Specifications may be subject to change without notice.

Airflow Configuration:
Available as shown in dimension drawing.

Unit Mounting & Application:
Must be mounted as shown. Airstreams can not be switched.
Energy Recovery Ventilator
Standard with Bypass Economizer

SPECIFICATIONS

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

**Typical Airflow Range:** 2,000-7,950 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 20" x 2"

**Unit Dimensions & Weight:**
- 88" L x 113 1/2" W x 81 3/4" H
- 2,261-3,278 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**
- 116" L x 90" W x 90" H
- 3,618 lbs.

**Motor(s):**
- Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves (see table below)

**Options:**
- Onboard variable frequency drives (VFDs) - one or both airstreams
- Shaft grounding ring on motors with VFDs
- Integrated programmable controls - enhanced, premium
- Bypass economizer damper - see bypass DIM drawing - dry-bulb temperature controls (standard), enthalpy controls (option)
- Class 1 low leakage motorized isolation dampers - OA, EA or both airstreams
- Qty. 2, Factory mounted filter alarms - both airstreams
- Double wall construction
- Exterior paint - white, custom colors

**Accessories:**
- Filters - MERV 13, 2" (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)
- 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 - EK series (1–175 kW)
- Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

**Airflow Performance**

Note: Brake Horse Power (BHP) is for one blower motor package only. Operation in this zone will likely exceed FLA limits.

**Motor HP**
- 5.0
- 7.5
- 10.0

**Bypass RPM**
- 1460
- 1610
- 1725
- 1560
- 1740
- 1865
- 1810
- 2020
- 2105

**Sheave Adj. Turns Open**
- 4.5
- 2
- 0
- 4.5
- 2
- 0
- 4.5
- 2
- 1

**External Static Pressure (in. w.g.)**
- 0.00
- 0.25
- 0.50
- 0.75
- 1.00
- 1.25
- 1.50
- 1.75
- 2.00

**CFM**

**BHP**

**Operation in this zone will likely exceed FLA limits.**

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

**ELECTRICAL DATA**

**Standard Electrical Specifications**

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<th>HZ</th>
<th>Phase</th>
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**Max. Overcurrent Protection Device**

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**Optional Factory Installed VFD Electrical Specifications**

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Specifications may be subject to change without notice.
HE8XIN Energy Recovery Ventilator
Standard with Bypass Economizer

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside
BP: Bypass Air Intake

INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

NOTE
1. ALL UNITS HAVE INTERNAL EA BACKDRAFT DAMPER, UNLESS AN EA MOTORIZED ISOLATION DAMPER IS SPECIFIED.
2. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
3. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
4. DAMPER SWINGS IN DIRECTION OF AIRFLOW. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
5. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
6. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams cannot be switched.
SPECIFICATIONS & DIMENSIONS

Energy Recovery Ventilator
Standard

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 2,000-7,950 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 20” x 2"

Unit Dimensions & Weight:
106 1/2” L x 140 1/2” W x 81 3/4” H
2,399-3,416 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
Pallet 1 (unit): 116” L x 90” W x 90” H
3,756 lbs.
Pallet 2 (hoods): 60” L x 42” W x 90” H

Motor(s):
Qty. 2, Belt drive blower/standard motor packages
with adjustable sheaves (see table below)

Options:
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, EA or both airstreams
Qty. 2, Factory mounted filter alarms - both airstreams
Double wall construction

Accessories:
Filters - MERV 13, 2” (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 - EK series (1–175 kW); designed for indoor ductwork installation only
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

ELECTRICAL DATA

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<td>6500</td>
<td>5.3</td>
<td>6400</td>
<td>5.3</td>
<td>6300</td>
<td>5.3</td>
<td>6125</td>
<td>5.3</td>
<td>5950</td>
<td>5.2</td>
<td>5750</td>
<td>5.2</td>
<td>5575</td>
<td>5.1</td>
</tr>
<tr>
<td>1865</td>
<td>0</td>
<td>7225</td>
<td>7.6</td>
<td>6950</td>
<td>7.6</td>
<td>6800</td>
<td>7.5</td>
<td>6675</td>
<td>7.5</td>
<td>6500</td>
<td>7.5</td>
<td>6375</td>
<td>7.4</td>
<td>6200</td>
<td>7.4</td>
</tr>
<tr>
<td>1810</td>
<td>4.5</td>
<td>7000</td>
<td>6.1</td>
<td>6750</td>
<td>6.1</td>
<td>6600</td>
<td>6.0</td>
<td>6425</td>
<td>6.0</td>
<td>6275</td>
<td>6.0</td>
<td>6100</td>
<td>5.9</td>
<td>5925</td>
<td>5.8</td>
</tr>
<tr>
<td>1910</td>
<td>2</td>
<td>7850</td>
<td>8.3</td>
<td>7625</td>
<td>8.2</td>
<td>7450</td>
<td>8.2</td>
<td>7350</td>
<td>8.2</td>
<td>7200</td>
<td>8.1</td>
<td>7050</td>
<td>8.1</td>
<td>6925</td>
<td>8.0</td>
</tr>
<tr>
<td>2105</td>
<td>1</td>
<td>9250</td>
<td>10.0</td>
<td>8925</td>
<td>9.9</td>
<td>8700</td>
<td>9.7</td>
<td>8500</td>
<td>9.7</td>
<td>8275</td>
<td>9.6</td>
<td>8100</td>
<td>9.4</td>
<td>7900</td>
<td>9.3</td>
</tr>
</tbody>
</table>

Note: Brake Horse Power (BHP) is for one blower motor package only.
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

Download specification at:
renewaire.com/specifications

For safety listed products,
see LE-SERIES models.
HE8XRT Energy Recovery Ventilator Standard

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
RTF: Rooftop Vertical FA Only
RTR: Rooftop Vertical RA 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.

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched.
THIS PAGE IS INTENTIONALLY LEFT BLANK.
OPTIONS

See individual submittal pages for availability by model.

**EC MOTOR**
- Best energy efficiency
- Two speed, single speed, or variable speed operation
- Easy airflow setup using RenewAire’s standard pressure taps
  - cuts commissioning time

**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.
OPTIONS

Bypass Economizer
AVAILABLE ON ALL HE-SERIES INDOOR UNITS

By utilizing what nature offers, our bypass economizer can “free cool” indoor spaces by using tempered and filtered outdoor air when the temperature and/or humidity are within a favorable range. This process MAXIMIZES OPERATING EFFICIENCIES and REDUCES ENERGY use and costs, all while indoor air quality is Enhanced—a win-win for occupant health, the environment and the bottom line. Bypass can now be specified for all RenewAire HE indoor units as a factory option.

KEY BENEFITS

- **Reduce energy use and costs:**
  Energy efficiency is optimized since the bypass provides airside economizer capabilities to the building mechanical system.

- **Flexible design:**
  Bypass allows for flexibility in the routing of the bypass duct. Additionally, the dampers are adjustable and AMCA Class I certified for low leakage.

- **Increase installation opportunities:**
  HE indoor units can now be specified and installed on projects that require ERV bypass.

- **100% bypass of air:**
  Unlike other options on the market, RenewAire offers 100% core bypass of air, resulting in free cooling and further energy reductions.

- **Ultimate reliability:**
  Our commitment to innovative design practices, expert workmanship and Quick Response Manufacturing ensures unmatched reliability.

- **Fast and easy implementation:**
  The economizer option doesn’t affect the current lead time of the base units, and it doesn’t require any additional certifications.

- **Meet code requirements:**
  Bypass helps HE indoor units meet economizer requirements per building codes and other referenced standards.

Specifications may be subject to change without notice.
OPTIONS

Bypass Economizer

The bypass system consists of the addition of an extra bypass duct, two electrically actuated dampers and a control system. Bypass is achieved with the help of two dampers consisting of the face damper (normally closed) and the bypass damper (normally closed), factory-installed bypass controls and field-installed ductwork that links the return air to the exhaust air. When conditions are favorable for bypass, the face damper closes while the bypass damper opens simultaneously, thereby allowing for 100% of the return air to bypass the core. The Bypass Economizer option comes with two factory-supplied dampers and a bypass control system of your choice:

FIELD-INSTALLED BYPASS DUCT SIZE RECOMMENDATIONS

<table>
<thead>
<tr>
<th>ERV UNIT</th>
<th>FACE DAMPER</th>
<th>BYPASS DAMPER</th>
<th>RECOMMENDED BYPASS DUCT SIZE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>HE1XNH, HE1XINV</td>
<td>Shipped loose</td>
<td>Shipped loose</td>
<td>12”</td>
</tr>
<tr>
<td>HE1.5XNH, HE1.5XINV</td>
<td>Factory installed</td>
<td>Shipped loose</td>
<td>12”</td>
</tr>
<tr>
<td>HE2XNH, HE2XINV</td>
<td>Factory installed</td>
<td>Factory installed</td>
<td>16” x 16”</td>
</tr>
<tr>
<td>HE3XNH</td>
<td>Factory installed</td>
<td>Factory installed</td>
<td>30” x 16”</td>
</tr>
<tr>
<td>HE3XINV</td>
<td>Factory installed</td>
<td>Factory installed</td>
<td>36” x 14”</td>
</tr>
<tr>
<td>HE4XNH</td>
<td>Factory installed</td>
<td>Factory installed</td>
<td>34” x 16”</td>
</tr>
<tr>
<td>HE4XINV</td>
<td>Factory installed</td>
<td>Factory installed</td>
<td>42” x 14”</td>
</tr>
<tr>
<td>HE6XIN, HE8XIN</td>
<td>Factory installed</td>
<td>Factory installed</td>
<td>38” x 16”</td>
</tr>
</tbody>
</table>

NOTE: Installation of bypass duct per SMACNA guidelines.

100% ECONOMIZER

The Bypass Economizer option will provide 100% economizer capabilities in mechanical systems where the ERV is connected to a fan coil unit or supplying fresh air directly into the space. Examples of such systems are VRF, Chilled Beam or Chilled/Heated Panels.

PARTIAL ECONOMIZER

When connected to a main building air handler, the Bypass Economizer option shall offer partial bypass of only the ERV total airflow. For 100% economizer capability on the HVAC system, the air handler must be equipped with either powered relief or barometric relief economizer capacity (barometric relief shown).
OPTIONS

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.

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.

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.

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.
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 [CpCOMini] 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 [CpCOMini] 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>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Filter alarm for both sets of filters (See note 2)</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Bypass controls† (See note 3)</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Control isolation dampers† (See note 4)</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Supply fan only modulation for VFD/EC Motor units† (See note 5 and 6)</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Exhaust fan only modulation for VFD/EC Motor units† (See note 5 and 6)</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Internal time clock (See note 7)</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Defrost controls - Canada only</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Smoke detection - sensor required (See note 8)</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Demand control ventilation using CO2 - sensor required</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Occupancy-based ventilation - sensor required</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>IAQ control ventilation using VOC - sensor required</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Microprocessor controller</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Provide supply and exhaust air temperatures</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Provide outside and return air temperature and humidity</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Fan status on both fans††</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Enable the supply fan only†</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Enable the exhaust fan only†</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Micro USB port</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Fieldbus port</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>BACnet MS/TP or BACnet TCP/IP - activation required</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Modbus</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Data trending</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Outside airflow rate</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Exhaust airflow rate</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Space pressure control</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Duct pressure control</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Unit supply air temp</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Heating enable</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Heating modulation - staged or modulating</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</tr>
<tr>
<td>Cooling modulation* - staged or modulating</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
<td>♦ ♦ ♦</td>
</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.
OPTIONS & ACCESSORIES

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

TC7D-W Wall Mount
TC7D-E Control In NEMA 3R Enclosures

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

CO2-W Wall Mount
CO2-D Duct Mount

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

IAQ-W Wall Mount
IAQ-D Duct Mount

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.

MC-C Ceiling Mount
MC-W Wall Mount

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

SD-D Duct Mount

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 ½" 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.
OPTIONS & ACCESSORIES

ACCESSORIES

Hoods and Dampers

**FA10-G & FA12-G**
- 10" or 12" wall cap
- Galvanized finish
- Hood type wall cap
- 1/4" metal screen

**FA10-P & FA12-P**
- 10" or 12" wall cap
- Galvanneal finish
- Paintable
- 1/4" metal screen

**VW12X12**
- 12" x 12" x 10" round louver
- Galvanized finish
- Flush mount
- 1/2" metal screen

**BD10 & BD12**
- 10", 12" backdraft damper
- Male/female ends
- Mechanical "butterfly" design

Specifications may be subject to change without notice.
RenewAire offers the highest-efficiency energy recovery ventilators (ERVs) on the market. However, during winter conditions, supply air from the ERV may be less than optimal for space conditions. By adding **RENEWAIRE’S ROUND ELECTRIC DUCT HEATER** as an option to our single/multi-family and light commercial ERVs, RenewAire can now heat supply air during cooler months to enhance indoor comfort, all via one package for ERVs and heaters from a single source.

### KEY BENEFITS

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

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

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

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

- **Highly certified:** CSA certified and evaluated to the applicable ANSI/UL and CSA Standards, for use in the U.S. and Canada.
**Electric Duct Heater (1-11.5 kW)**

**Accessory**

**SPECIFICATIONS**

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

---

**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

---

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

**Minimum Airflow (CFM)**

<table>
<thead>
<tr>
<th>Duct Collars</th>
<th>kW</th>
<th>V</th>
<th>Size</th>
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<th>Height (Y)</th>
<th>Depth (Z)</th>
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<td>11 1/2&quot;</td>
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<td>B</td>
<td>11 1/2&quot;</td>
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<td>13 1/2&quot;</td>
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<td>3, 4, 5, 6</td>
<td>240</td>
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<td>11 1/2&quot;</td>
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<td>13 1/2&quot;</td>
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<td>3, 4, 5, 6</td>
<td>240</td>
<td>B</td>
<td>11 1/2&quot;</td>
<td>10&quot;</td>
<td>13 1/2&quot;</td>
</tr>
<tr>
<td>10&quot;</td>
<td>8, 10, 11.5</td>
<td>240</td>
<td>C</td>
<td>15 1/2&quot;</td>
<td>12&quot;</td>
<td>15 1/2&quot;</td>
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<tr>
<td>12&quot;</td>
<td>6, 8, 10, 11.5</td>
<td>240</td>
<td>C</td>
<td>15 1/2&quot;</td>
<td>12&quot;</td>
<td>15 1/2&quot;</td>
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**DIMENSIONS IN INCHES**

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<th>Size</th>
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<th>Y</th>
<th>Z</th>
</tr>
</thead>
<tbody>
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<td>11.5</td>
</tr>
<tr>
<td>B</td>
<td>11.5</td>
<td>10.0</td>
<td>13.5</td>
</tr>
<tr>
<td>C</td>
<td>15.5</td>
<td>12.0</td>
<td>15.5</td>
</tr>
</tbody>
</table>

---

**RenewAire**

Energy Recovery Ventilation

FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEWAIRE.COM
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.
EK SERIES
ELECTRIC DUCT HEATER

Download specification at: renewaire.com/specifications

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.

Download specification at: renewaire.com/specifications

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.

Specifications may be subject to change without notice.

FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEAIRE.COM
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.

**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.
**INDOOR**

Indirect Gas-Fired Duct Furnace

**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.
**TABLE 2**

<table>
<thead>
<tr>
<th>MBH</th>
<th>Qty.</th>
<th>Btuh Qty.</th>
<th>Btuh Nom.</th>
<th>Duct Opening Airflow (CFM)</th>
<th>IN-KI, IN-SI</th>
<th>Vent Locations</th>
<th>Diameter</th>
<th>Unit Weight</th>
<th>Shipping Weight</th>
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<tbody>
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<td>249</td>
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<td>240</td>
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<td>499</td>
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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**

**TABLE 2**

<table>
<thead>
<tr>
<th>Size</th>
<th>Tubes</th>
<th>Input Rate</th>
<th>Output</th>
<th>Min/Max Temperature Rise through Furnace (°F)</th>
<th>Vent Locations</th>
<th>Diameter</th>
<th>Unit Weight</th>
<th>Shipping Weight</th>
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</thead>
<tbody>
<tr>
<td>60</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Diagram:**

- **LEFT VIEW:**
  - 14 7/8" Opening
  - 6 1/8" Opening
  - 24" Opening
  - 3" Opening
  - Power Wiring and Control Wiring Inlet Fittings
- **FRONT VIEW:**
  - View Port
  - 3/8" Condensate Drain Tube
  - 3/4" Gas Connection
- **RIGHT VIEW:**
  - 14 7/8" Opening
  - 6 1/8" Opening
  - 24" Opening
  - 3" Opening

**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

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 heat exchanger
- 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

Voltagess & 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
- 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

Download specification at:
renewaire.com/specifications

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

FIGURE 1
GAS FURNACE 50-200 MBH

FIGURE 2
GAS FURNACE 250-400 MBH

Specifications may be subject to change without notice.
DUCK FURNACE DIMENSIONS

**FIGURE 3 RT-NO (TOP EXHAUST OUTDOOR)**

**FIGURE 4 RT-WO (FRONT EXHAUST OUTDOOR)**

**TABLE 1**

<table>
<thead>
<tr>
<th>Size MBH</th>
<th>Qty.</th>
<th>Btuh Input Rate</th>
<th>Output Btuh</th>
<th>Min/Max Temperature Rise through Furnace (°F)</th>
<th>Vent Locations</th>
<th>Nom. Duct Opening Airflow (CFM)</th>
<th>Unit Weight</th>
<th>Shipping Weight</th>
</tr>
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<tbody>
<tr>
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<td>127</td>
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<tr>
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<td>3</td>
<td>75,000</td>
<td>60,000</td>
<td>2778 2222 1852</td>
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<td>inch</td>
<td>15.7</td>
<td>127</td>
</tr>
<tr>
<td>100</td>
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<td>3704 2963 2469</td>
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<td>142</td>
</tr>
<tr>
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<td>48.7</td>
<td>394</td>
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</table>

**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.

**FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEAIRE.COM**

---

**TABLE 2**

<table>
<thead>
<tr>
<th>Size MBH</th>
<th>Qty.</th>
<th>Btuh Input Rate</th>
<th>Output Btuh</th>
<th>Min/Max Temperature Rise through Furnace (°F)</th>
<th>Vent Locations</th>
<th>Nom. Duct Opening Airflow (CFM)</th>
<th>Unit Weight</th>
<th>Shipping Weight</th>
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<td>inch</td>
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<tr>
<td>250</td>
<td>10</td>
<td>250,000</td>
<td>200,000</td>
<td>9295 7407 6173</td>
<td></td>
<td>inch</td>
<td>34.9</td>
<td>245</td>
</tr>
<tr>
<td>300</td>
<td>12</td>
<td>300,000</td>
<td>240,000</td>
<td>11111 8889 7407</td>
<td></td>
<td>inch</td>
<td>40.4</td>
<td>279</td>
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<tr>
<td>350</td>
<td>14</td>
<td>350,000</td>
<td>280,000</td>
<td>12963 10370 8642</td>
<td></td>
<td>inch</td>
<td>45.9</td>
<td>324</td>
</tr>
<tr>
<td>400</td>
<td>15</td>
<td>400,000</td>
<td>320,000</td>
<td>14815 11852 9877</td>
<td></td>
<td>inch</td>
<td>48.7</td>
<td>394</td>
</tr>
</tbody>
</table>

**Note:** For a single furnace, 20° F minimum temperature rise, 60° F maximum temperature rise.
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## EV450/HE Model Configuration Guide

**Note:** Not all options are available on every model.

### Model Number

<table>
<thead>
<tr>
<th>Digit Number</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<tr>
<td><strong>Digit 1</strong></td>
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<tr>
<td><strong>Digit 2</strong></td>
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<tr>
<td><strong>Digit 3</strong></td>
<td></td>
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</tr>
</tbody>
</table>

### Restrictions:

2. Voltage Codes "1" & "9" only available with Phase Code "1" (Single-Phase).
3. Voltage Codes "3" & "7" only available with Phase Code "3" (Three-Phase).
4. Voltage Code "1" only available with phase code 1 & HE-1X.
5. Voltage Code "5" only available with EV450, HE-1X & HE1.5 models.
6. Voltage Code "9" (277V) only available with EV450, HE-1X & HE1.5 models.
7. Motor Codes "E" & "EE" (EC Motors) only available with Phase Code "1" (Single Phase).
8. Unit Control Codes "1", "F", & "G" not available in EV450, HE-1X, and HE1.5 models.
9. Unit Control Code "G" (Terminal Strip) only available in EV450, HE-1X, and HE1.5 with Motor Codes "E-" and "EE" (EC Motors).
10. Unit Control Code "D" only available in HE-1X & HE1.5.
11. Dampers and Bypass not available in EV450 or with Orientation Code "C".
12. Backdraft Dampers only available with HE1.5 models.
13. Some units with Customization Code "Z", HE-6X & HE-8X models are not safely listed.
14. Bypass only available with Location Code "N".
15. Unit Control Codes "Y", "F", & "P" not available with Voltage Code "11".
16. Unit Control Code "A" not available with Unit Control Enhancements Codes "1", "2", "3", & "4" in HE-1X & HE-1.5 models.
17. Filter Code "F" not available with Unit Control Enhancements Codes "1", "2", "3", & "4". Filter Monitor is provided with those options.
18. Voltage Code "9" not available with FAE/HE Airstream Codes "EE" & "EE".

### Notes:

- Digit "G" = GS Core Type
- Digits 10, 16, and 17 are not used in these models.
- Digit 15 is not used in EV450 models.

### Key Codes:

- **"1"** = Standard EV450 Motors
- **"2"** = Premium Controls
- **"3"** = Enhanced Controls with BACNET License
- **"4"** = Premium Controls with BACNET License
- **"5"** = Standard Impellers (HE1.5 only)
- **"6"** = Enthalpy Bypass Dampers only
- **"7"** = Dry Bulb Bypass with Motorized Dampers all Airstreams
- **"8"** = Enthalpy Bypass Dampers only
- **"9"** = Enthalpy Bypass with Backdraft Damper OA Airstream
- **"T"** = Transformer with Isolation Relay (Standard)
- **"V"** = Onboard VFD Both Airstreams
- **"FA Horsepower"** (see Restriction 7 & 18)
- **"B"** = Backdraft Damper both Airstreams (with no Bypass)
- **"D"** = Independent Blower Control (HE-1X and HE-1.5 only)
- **"E"** = Motorized Damper OA Airstream
- **"F"** = Motorized Damper FA or OA Airstream (with no Bypass)

### For Technical Support:
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To Place an Order:
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For the most complete and current information visit RENEWAIRE.COM
# EK SERIES ELECTRIC DUCT HEATER CONFIGURATION GUIDE

Note: Not all options are available on every model.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>powerhouse</th>
<th>digital number</th>
<th>digits 1 - 2: Heater Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>EK</em> = Electric Heater (Standard)</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

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

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

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

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Digit 17:</th>
<th>Control Box Dust Tight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><em>-</em> = None (Standard)</td>
</tr>
<tr>
<td></td>
<td><em>D</em> = Dust Tight</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.
   \[
   \text{DENSITY=} \frac{\text{HEATER CAPACITY (kW)}}{\text{W} \times \text{H}} < 30
   \]
4. Heater capacity kW entered as a whole number.
5. Formulas for calculating kW and temperature rise:
   \[
   \text{kW} = \frac{\text{CFM} \times \Delta T}{3150} \quad \Delta T = \frac{\text{kW} \times 3150}{3150}
   \]
7. Voltage Codes "1" & "9" only available with Phase Code "1" (Single-Phase).
8. Voltage Codes "4" & "8" only available with Phase Code "3" (Three-Phase).
9. Power Fusing Code "F" required when amperage is >48A. (based on kW and voltage)
10. Control Type Code "D" only available with Stage Code "1" & "2".
11. Control Type Code "E" only available with Stage Code "4".
12. Control Type Code "S" & "V" only available with Stage Code "1", unless amperage is greater than or equal to 96A, then Stage Code "4" is automatically selected.

---

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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 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |

**Digits 1 - 2:** Duct Furnace Type

*GH* = Gas Furnace 50-400 MBH

**Digits 4 - 5:** Location

*I* = Indoor
*RT* = Rooftop

**Digits 6 - 7:** Vent Location

*SI* = Separated Top Indoor
*KI* = Top Exhaust Indoor
*WO* = Front Exhaust Outdoor
*NO* = Top Exhaust Outdoor

**Digits 8 - 10:** Input Capacity in MBH

*050*, *075*, *100*, *125*, *150*, *175*, *200*, *250*, *300*, *350*, *400*

**Digit 11:** Fuel Type

*N* = Natural Gas (Standard)
*P* = Propane

**Digits 12 - 13:** Tube Material

*SS* = 409 Stainless Steel (Standard)
*CS* = 304 Stainless Steel

**Digit 14:** Airflow Orientation

*H* = Horizontal

**Digit 15:** Thermal Efficiency

*S* = 80%

**Digit 16:** Elevation

*S* = 0 - 2000' (Standard)
*2* = 2001' - 3000'
*3* = 3001' - 4000'
*4* = 4001' - 5000'
*5* = 5001' - 6000'
*6* = 6001' - 7000'
*Y* = 7001' and above

*NOTE:

Digits 3, 21, 24 & 25 are not used in this model.

All heaters come with standard features: Air Proving Switch, Auxiliary High Temperature Limit Switch. Descriptions of feature 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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---

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**FAX:**
608.221.2824

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RenewareSupport@reneware.com

**TO PLACE AN ORDER:**
RenewareOrders@reneware.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**

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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
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.

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

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

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

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

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

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

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

EDUCATION (LOWER AND HIGHER)
With students and teachers packed into tight classrooms, instances of deficient IAQ go up, resulting in academic performance and test scores going down.

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

EVERY TYPE OF BUILDING
Every type of building can benefit from the enhanced IAQ generated by RenewAire ERVs, including veterinary clinics, nail salons and manufacturing facilities, among others.
RenewAire ERVs can be applied everywhere across all commercial, educational, institutional, light industrial and residential buildings. Our technology excels in every geographic region, every climate, and every size project.