As buildings become more airtight due to better construction methodologies, the need for increased and balanced ventilation is critical. Without it, internally generated contaminants accumulate and cause deficient indoor air quality (IAQ), which leads to significant health and cognitive problems for occupants. Industry standards are changing to combat deficient IAQ, and codes that adopt these new standards are driving the application of ERV technologies. Deficient IAQ is a serious problem, especially considering:

- On average, Americans spend 90% of their time indoors
- The EPA found that indoor air may be 2-5 times—and occasionally greater than 100 times—more polluted than outdoor air
- The EPA ranks indoor air pollutants as a top-five environmental health risk to occupants

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

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

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

For over 30 years, RenewAire has been a pioneer in enhancing IAQ in commercial and residential buildings of every size. This is achieved while maximizing sustainability through our fifth-generation, enthalpic-core, static-plate Energy Recovery Ventilators (ERVs) that optimize energy efficiency, lower capital costs via HVAC load reduction and decrease operational expenses by minimizing equipment needs, resulting in significant energy savings. Our ERVs are competitively priced, simple to install, easy to use and maintain, have a quick payback and enjoy the industry’s best warranty with the lowest claims due to long-term reliability. In 2010, RenewAire joined the Soler & Palau (S&P) Ventilation Group, providing direct access to the latest in energy-efficient air-moving technologies. For more information, visit: renewaire.com.
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RD SERIES - DOAS

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<thead>
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<th>TYPE</th>
<th>CFM RANGE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD2XIN - STANDARD</td>
<td>Indoor</td>
<td>500-2,200 CFM</td>
<td>4-5</td>
</tr>
<tr>
<td>RD2XRT - STANDARD</td>
<td>Rooftop</td>
<td>500-2,200 CFM</td>
<td>6-7</td>
</tr>
<tr>
<td>RD4XIN - STANDARD</td>
<td>Indoor</td>
<td>1,000-4,250 CFM</td>
<td>8-9</td>
</tr>
<tr>
<td>RD4XRT - STANDARD</td>
<td>Rooftop</td>
<td>1,000-4,250 CFM</td>
<td>10-11</td>
</tr>
</tbody>
</table>

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

**Optimizing Energy Efficiency**

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

**Reducing HVAC Loads**

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

**Minimizing Environmental Impact**

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

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

RELIABLE OPERATION
- Built-to-last ERVs have lifespans of 25+ years and operate consistently year-round in every extreme, including frost-free performance in all but the most severe winter climates
- High-efficiency core operates dry in all conditions, meaning no condensate pans
- An industry-leading ten-year warranty for the static-plate core, two-year warranty for commercial products and a five-year warranty for residential products
- Superior product quality results in paramount reliability and longevity

HIGHEST-QUALITY INDOOR AIR
- Stale indoor air is replaced with fresh, conditioned and filtered air from the outside, resulting in Enhanced IAQ by removing harmful contaminants
- Airstreams do not mix and pollutants are not transferred across partition plates
- No biocide used; material does not promote biological growth
- Moderated temperatures and humidity maintain a comfortable indoor environment

OPTIMIZED ENERGY EFFICIENCY
- Efficient heat and humidity transfer recaptures up to 70-80% of the energy exhausted in the airstream
- Energy that’s otherwise wasted by conventional ventilation systems (such as bath fans) is reused, thus dramatically reducing monthly operation costs
- Energy-efficient operation decreases HVAC loads, which cuts down on energy use and costs
- The hotter or colder the climate, the more energy is recovered

HIGHLY CERTIFIED
- See individual catalog submittal for certification details:
  - UL
  - cUL
  - ETL
  - HVI
  - AHRI
Dedicated Outdoor Air System

**Standard**

**INDOOR UNIT**

with Bypass and Optional Coils

Download specification at: renewaire.com/specifications

**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
- Bypass economizer with enthalpy control
- Variable frequency drives
- Non-fused disconnect
- Motorized isolation dampers - OA, RA

**Cross-core differential pressure ports**

**Inlets/Outlets:** 14” x 24”

**Filters:**
- Total qty. 5, MERV 8:
  - RA: (2) 20” x 20” x 2”
  - OA: (2) 20” x 20” x 2”, (1) 20” x 14” x 2”

**Unit Dimensions & Weight**
- 92 1/4” L x 57 3/4” W x 51” H
  - 1,035-1,303 lbs., varies by option(s)
- Max. Shipping Dimensions & Weight (on pallet):
  - 1,550 lbs.

**Motor(s):**
- Qty. 2, 2.0 HP ea., Direct-drive DWI centrifugal blowers, with standard Premium efficiency inverter-rated motors. (see table below)

**Options:**
- DX, heat pump, or water coil
- Additional water reheat coil
- Fused disconnect
- Integrated programmable controls - enhanced, premium
- 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 (TC7-D-W), in exterior enclosure (TC7-E)
- Carbon dioxide sensor/control - wall mount (CO2-W), duct mount (CO2-D)
- IAQ sensor - wall mount (IAQ-W), wall mount (CO2-W), duct mount (CO2-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 WITHOUT COIL(S)**

<table>
<thead>
<tr>
<th>Blower VFD Hertz Setting</th>
<th>500 CFM</th>
<th>750 CFM</th>
<th>1000 CFM</th>
<th>1250 CFM</th>
<th>1500 CFM</th>
<th>1750 CFM</th>
<th>2000 CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ESP</td>
<td>WATTS</td>
<td>ESP</td>
<td>WATTS</td>
<td>ESP</td>
<td>WATTS</td>
<td>ESP</td>
</tr>
<tr>
<td>60 Hertz</td>
<td>1.8</td>
<td>534</td>
<td>1.8</td>
<td>674</td>
<td>1.7</td>
<td>783</td>
<td>1.6</td>
</tr>
<tr>
<td>55 Hertz</td>
<td>1.6</td>
<td>482</td>
<td>1.4</td>
<td>576</td>
<td>1.3</td>
<td>666</td>
<td>1.2</td>
</tr>
<tr>
<td>50 Hertz</td>
<td>1.3</td>
<td>392</td>
<td>1.1</td>
<td>470</td>
<td>1.0</td>
<td>549</td>
<td>0.9</td>
</tr>
<tr>
<td>45 Hertz</td>
<td>0.9</td>
<td>325</td>
<td>0.8</td>
<td>394</td>
<td>0.7</td>
<td>475</td>
<td>0.5</td>
</tr>
</tbody>
</table>

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

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>HP</th>
<th>Volts</th>
<th>Phase</th>
<th>Min. Cir. Amps.</th>
<th>Max. Overcurrent Protection Device</th>
<th>FLA per VFD</th>
<th>FLA per motor</th>
<th>Motor Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>208-230</td>
<td>Single</td>
<td>21.4</td>
<td>30</td>
<td>9.5</td>
<td>6.0-5.8</td>
<td>86.5%</td>
</tr>
<tr>
<td>2.0</td>
<td>208-230</td>
<td>Three</td>
<td>18.2</td>
<td>20</td>
<td>8.1</td>
<td>6.0-5.8</td>
<td>86.5%</td>
</tr>
<tr>
<td>2.0</td>
<td>460</td>
<td>Three</td>
<td>9.2</td>
<td>15</td>
<td>4.1</td>
<td>2.9</td>
<td>86.5%</td>
</tr>
<tr>
<td>2.0</td>
<td>575</td>
<td>Three</td>
<td>7.2</td>
<td>15</td>
<td>3.2</td>
<td>2.3</td>
<td>84.0%</td>
</tr>
</tbody>
</table>

**Available Coil Selections - Performance shown at 2,000 CFM**

<table>
<thead>
<tr>
<th>Type</th>
<th>Air Side Pressure Drop (in.w.g.)*</th>
<th>Leaving Air Temp (°F)*</th>
<th>Coil (# Rows/FPI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DX (Single- or Double-Circuit)</td>
<td>0.5 max</td>
<td>As low as 54</td>
<td>5 rows/14 FPI</td>
</tr>
<tr>
<td>Heat Pump (Single- or Double-Circuit)</td>
<td>0.6 max</td>
<td>As low as 54 (cooling mode)</td>
<td>4 rows/14 FPI</td>
</tr>
<tr>
<td>Water</td>
<td>0.5 max</td>
<td>As low as 54 (heating mode)</td>
<td>140 EWT</td>
</tr>
<tr>
<td>Water Reheat</td>
<td>0.1 max</td>
<td>As high as 97, 180 EWT</td>
<td>1 row/16 FPI</td>
</tr>
</tbody>
</table>

* Depending on coil selected and operating conditions. For complete performance specifications of available coils, see RD IOM Book 2 “Specifications”. Custom Coils also available.

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

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 500-2,200 CFM

AHRI 1060 Certified Core: Two L125-65

Standard Features:
- TEFC Premium efficiency motors
- Bypass economizer with enthalpy control
- Variable frequency drives
- Non-fused disconnect
- Motorized isolation dampers - OA, RA
- Cross-core differential pressure ports

Inlets/Outlets: 14" x 24"

Filters:
Total qty. 5, MERV 8: RA; (2) 20" x 20" x 2", OA: (2) 20" x 20" x 2", (1) 20" x 14" x 2"

Unit Dimensions & Weight:
- 131 3/4" L x 58 1/2" W x 55" H
- 1,550 lbs.

Max. Flow Dimensions & Weight (on pallet):
- 114" L x 94" W x 62" H
- 1,550 lbs.

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>Blower VFD Hertz Setting</th>
<th>500 CFM</th>
<th>750 CFM</th>
<th>1000 CFM</th>
<th>1250 CFM</th>
<th>1500 CFM</th>
<th>1750 CFM</th>
<th>2000 CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ESP WATTS</td>
<td>ESP WATTS</td>
<td>ESP WATTS</td>
<td>ESP WATTS</td>
<td>ESP WATTS</td>
<td>ESP WATTS</td>
<td>ESP WATTS</td>
</tr>
<tr>
<td>60 Hertz</td>
<td>1.8 534 1.7 674</td>
<td>1.6 783 1.5 890</td>
<td>1.2 1020 0.9 1200 0.5 1458</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55 Hertz</td>
<td>1.6 482 1.4 576</td>
<td>1.3 666 1.1 783 0.8 902 0.5 1083 0.0 1328</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 Hertz</td>
<td>1.2 392 1.1 470</td>
<td>1.0 549 0.8 639 0.5 749 0.0 887</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45 Hertz</td>
<td>0.9 325 0.8 394</td>
<td>0.6 475 0.4 568 0.1 671</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**CORE PERFORMANCE**

Airflow (CFM)

500 1000 1500 2000

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

**AVAILABLE COIL SELECTIONS - PERFORMANCE SHOWN AT 2000 CFM**

<table>
<thead>
<tr>
<th>Type</th>
<th>Air Side Pressure Drop (in.w.g.)*</th>
<th>Leaving Air Temp (°F)*</th>
<th>Coil (# Rows/FPI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DX (Single- or Double-Circuit)</td>
<td>0.5 max</td>
<td>As low as 54</td>
<td>5 rows/14 FPI</td>
</tr>
<tr>
<td>Heat Pump (Single- or Double-Circuit)</td>
<td>0.6 max</td>
<td>As low as 54 (cooling mode)</td>
<td>4 rows/14 FPI</td>
</tr>
<tr>
<td>Water</td>
<td>0.5 max</td>
<td>As low as 54 (cooling mode)</td>
<td>4 rows/14 FPI</td>
</tr>
<tr>
<td>Water Reheat</td>
<td>0.1 max</td>
<td>As high as 97, 180 EWT</td>
<td>1 row/16 FPI</td>
</tr>
</tbody>
</table>

* Depending on coil selected and operating conditions. For complete performance specifications of available coils, see RD IOM Book 2 "Specifications". Custom Coils also available.

Specifications may be subject to change without notice.
Dedicated Outdoor Air System

**Specifications**

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 1,000-4,250 CFM

AHRI 1060 Certified Core: Four L125-G5

Standard Features:
- TEFC Premium efficiency motors
- Bypass economizer with enthalpy control
- Variable frequency drives
- Non-fused disconnect
- Motorized isolation dampers - OA, RA
- Cross-core differential pressure ports

Inlets/Outlets: 14" x 48"

Filter:
Total qty. 12, MERV 8

Unit Dimensions & Weight:
- 97" L x 108" W x 62 1/2" H
- 1,885-2,514 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
- 114" L x 94" W x 72" H
- 2,750 lbs.

Motor(s):
- Qty. 2, 5.0 HP ea., Direct-drive DWDF centrifugal blowers, with standard Premium efficiency inverter-rated three-phase motors. (see table below)

Options:
- DX, heat pump, or water coil
- Additional water reheat coil
- Integrated programmable controls - enhanced, premium
- 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 Without Coil(s)**

<table>
<thead>
<tr>
<th>Blower VFD Setting</th>
<th>RPM</th>
<th>Unit Esp (in.H2o) And Power Consumption (Watts Per Airstream)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1500 CFM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ESP</td>
</tr>
<tr>
<td>60 Hertz</td>
<td>1160</td>
<td>2.2</td>
</tr>
<tr>
<td>55 Hertz</td>
<td>1063</td>
<td>2.0</td>
</tr>
<tr>
<td>50 Hertz</td>
<td>967</td>
<td>1.6</td>
</tr>
<tr>
<td>45 Hertz</td>
<td>870</td>
<td>1.2</td>
</tr>
</tbody>
</table>

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

**Electrical Data**

<table>
<thead>
<tr>
<th>HP</th>
<th>Volts</th>
<th>Phase</th>
<th>Min. Cir. Amps.</th>
<th>Max. Overcurrent Protection Device</th>
<th>FLA per VFD</th>
<th>FLA per motor</th>
<th>Motor Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>208-230</td>
<td>Three</td>
<td>41.8</td>
<td>50</td>
<td>18.6</td>
<td>15.0-14.0</td>
<td>89.5%</td>
</tr>
<tr>
<td>5.0</td>
<td>460</td>
<td>Three</td>
<td>20.9</td>
<td>25</td>
<td>9.3</td>
<td>7.0</td>
<td>89.5%</td>
</tr>
<tr>
<td>5.0</td>
<td>575</td>
<td>Three</td>
<td>15.5</td>
<td>20</td>
<td>6.9</td>
<td>5.6</td>
<td>89.5%</td>
</tr>
</tbody>
</table>

**Available Coil Selections - Performance shown at 4,000 CFM**

- DX (Single- or Double-Circuit): 0.4 max
- Heat Pump (Single- or Double-Circuit): 0.5 max
- Water: 0.5 max
- Water Reheat: 0.1 max

* Depending on coil selected and operating conditions. For complete performance specifications of available coils, see RD 10M Book 2 “Specifications”. Custom Coils also available.

Specifications may be subject to change without notice.
**RD4XIN**  Dedicated Outdoor Air System  Standard

---

**GENERAL SPECIFICATIONS**

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

**DIMENSIONS**

- **96 7/8 Overall**
- **92 Overall**
- **106 5/8 Case**
- **34 1/4 Case**
- **44 5/8 Case**
- **56 3/8 Case**
- **62 3/8 Case**
- **8 5/8 Drain Port**
- **5 3/8 Drain Port**
- **6 1/4 Drain Pan**
- **28 7/8 Duct Flange**
- **40 1/4 Duct Flange**
- **54 3/4 Duct Flange**
- **5 3/8 Duct Flange**
- **20 1/4 Duct Flange**
- **36 1/2 Duct Flange**
- **3 1/2 Duct Flange**
- **2 1/4 Duct Flange**
- **1 1/8 Control In**
- **40 1/4 Control In**

**AIRFLOW CONFIGURATION**

Available as shown:

---

**ABREVIATION**

- **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 PERFORMANCE WITHOUT COIL(S)**

<table>
<thead>
<tr>
<th>Blower VFD Setting</th>
<th>RPM</th>
<th>1500 CFM</th>
<th>2000 CFM</th>
<th>2500 CFM</th>
<th>3000 CFM</th>
<th>3500 CFM</th>
<th>4000 CFM</th>
<th>4250 CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 Hertz</td>
<td>1160</td>
<td>2.2</td>
<td>1.9</td>
<td>2.320</td>
<td>1.6</td>
<td>2.860</td>
<td>1.2</td>
<td>3.490</td>
</tr>
<tr>
<td>55 Hertz</td>
<td>1063</td>
<td>2.0</td>
<td>1.8</td>
<td>2.050</td>
<td>1.1</td>
<td>2.510</td>
<td>0.5</td>
<td>3.040</td>
</tr>
<tr>
<td>50 Hertz</td>
<td>967</td>
<td>1.5</td>
<td>1.4</td>
<td>1.190</td>
<td>1.2</td>
<td>1.450</td>
<td>0.5</td>
<td>2.150</td>
</tr>
<tr>
<td>45 Hertz</td>
<td>870</td>
<td>1.1</td>
<td>1.0</td>
<td>1.060</td>
<td>0.8</td>
<td>1.280</td>
<td>0.4</td>
<td>1.540</td>
</tr>
</tbody>
</table>

**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>HP</th>
<th>Volts</th>
<th>Phase</th>
<th>Min. Cir. Amps.</th>
<th>Max. Overcurrent Protection Device</th>
<th>FLA per VFD</th>
<th>FLA per motor</th>
<th>Motor Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>208-230</td>
<td>Three</td>
<td>41.8</td>
<td>50</td>
<td>18.6</td>
<td>15.0-14.0</td>
<td>89.5%</td>
</tr>
<tr>
<td>5.0</td>
<td>460</td>
<td>Three</td>
<td>20.9</td>
<td>25</td>
<td>9.3</td>
<td>7.0</td>
<td>89.5%</td>
</tr>
<tr>
<td>5.0</td>
<td>575</td>
<td>Three</td>
<td>15.5</td>
<td>20</td>
<td>6.9</td>
<td>5.6</td>
<td>89.5%</td>
</tr>
</tbody>
</table>

**CORE PERFORMANCE**

<table>
<thead>
<tr>
<th>Airflow (CFM)</th>
<th>Effectiveness (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>Sensitive</td>
</tr>
<tr>
<td>2000</td>
<td>Winter Total</td>
</tr>
<tr>
<td>3000</td>
<td>Summer Total</td>
</tr>
<tr>
<td>4000</td>
<td></td>
</tr>
</tbody>
</table>

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

**SPECIFICATIONS**

- **Ventilation Type:** Static plate, heat and humidity transfer
- **Typical Airflow Range:** 1,000-4,250 CFM
- **AHRI 1060 Certified Core:** Four L125 G5
- **Standard Features:**
  - TEFC Premium efficiency motors
  - Bypass economizer with enthalpy control
  - Variable frequency drives
  - Non-fused disconnect
  - Motorized isolation dampers - OA, RA
- **Cross-core differential pressure ports**
- **Filters:**
  - Total qty. 12, MERV 8:
    - RA: (4) 20" x 20" x 2", (2) 20" x 14" x 2"
    - OA: (4) 20" x 20" x 2", (2) 20" x 14" x 2"
- **Unit Dimensions & Weight:**
  - As high as 104 (heating mode)
  - 6 rows/14 FPI
  - As high as 117 (heating mode), 140 EWT
  - 5 rows/14 FPI
- **Max. Shipping Dimensions & Weight:**
  - 1,973-2,613 lbs., varies by option(s)
  - 135 1/2" L x 108 1/4" W x 65 3/4" H
- **Unit Dimensions & Weight:**
  - 2,900 lbs.
- **RA:** Room Air to be exhausted
- **FA:** Fresh Air to inside
- **A:** Rooftop Horizontal RA & FA
- **C:** Rooftop Vertical FA Only
- **E:** Rooftop Vertical RA Only
- **G:** Rooftop Vertical RA & FA
- **RA:** 114" L x 94" W x 72" H
- **Total qty. 12, MERV 8:** Filters - 14" x 48"
- **Motor(s):**
  - Qty. 2, 5.0 HP ea., Direct-drive DWDI centrifugal blowers, with standard Premium efficiency inverter-rated three-phase motors. (see table below)
- **Options:**
  - DX, heat pump, or water coil
  - Additional water reheat coil
  - Fused disconnect
  - Integrated programmable controls - enhanced, premium
  - Factory mounted filter alarms - both airstreams
  - Double wall construction
  - Exterior paint - white, custom colors
- **Accessories:**
  - Filters - MERV 13, 2" (shipped loose)
  - Motorized isolation dampers - OA, RA
  - Non-fused disconnect
  - Variable frequency drives
  - Bypass economizer with enthalpy control
  - Indirect gas-fired duct furnace - GH series designed for indoor ductwork installation only
  - Electric duct heater - EK series (1–175 kW);
  - Smoke Detector - duct mount (SD-D)
  - IAQ sensor - wall mount (IAQ-W), Carbon dioxide sensor/control - Digital time clock - wall mount (TC7D-W)
  - Roof curb - standard 14"
  - Filters - MERV 13, 2" (shipped loose)
  - Exterior paint - white, custom colors
- **Double Wall Construction**
  - Enhanced, premium
- **Integrated Programmable Controls**
  - Non-fused disconnect
  - Variable frequency drives
  - Bypass economizer with enthalpy control
  - Indirect gas-fired duct furnace - GH series designed for indoor ductwork installation only
  - Electric duct heater - EK series (1–175 kW);
  - Smoke Detector - duct mount (SD-D)
  - IAQ sensor - wall mount (IAQ-W), Carbon dioxide sensor/control - Digital time clock - wall mount (TC7D-W)
  - Roof curb - standard 14"
  - Filters - MERV 13, 2" (shipped loose)
  - Exterior paint - white, custom colors
- **Standard Features:**
  - AHRI 1060 Certified Core:
    - 1,000-4,250 CFM
  - Static plate, heat and humidity transfer
  - Ventilation Type:
    - Dedicated Outdoor Air System
    - Standard
  - MERV 13, 2" (shipped loose)
  - Exterior paint - white, custom colors

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

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

Specifications may be subject to change without notice.
RD4XRT Dedicated Outdoor Air System Standard

**ABBRVIATION**
- **EA:** Exhaust Air to outside
- **RA:** Room Air to be exhausted
- **FA:** Fresh Air to inside
- **A:** Rooftop Horizontal RA & FA
- **E:** Rooftop Vertical RA Only
- **G:** Rooftop Vertical RA & FA

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

**UNIT MOUNTING & APPLICATION**
- Must be mounted as shown. Airstreams cannot be switched. Duct configuration is field convertable.

**AIRDRAW CONFIGURATION**
- Available as shown.

**SPECIFICATIONS & DIMENSIONS**
- Download specification at: renewaire.com/specifications
- See RD IOM Book 2 "Specifications". Custom Coils also available.

**ELECTRICAL DATA**
- **Note:** Airflow performance includes effect of clean, standard filter supplied with unit.
- **Blower VFD**
  - 45 Hertz: 870 A, 1.1 FLA, 900 A, 0.8 FLA, 1060 A, 0.2 FLA, 1280 A, 0.4 FLA, 1540 A, 0.2 FLA
  - 50 Hertz: 967 A, 1.5 FLA, 990 A, 1.4 FLA, 1190 A, 1.2 FLA, 1450 A, 0.9 FLA, 1770 A, 0.5 FLA, 2150 A, 0.3 FLA, 2590 A
  - 55 Hertz: 1063 A, 2.0 FLA, 1340 A, 1.8 FLA, 1660 A, 1.5 FLA, 2050 A, 1.1 FLA, 2510 A, 0.5 FLA, 3040 A, 0.1 FLA, 3330 A

**OVERCURRENT PROTECTION**
- Max.
  - 2,900 lbs.
  - Pallet 2 (hoods): 70" L x 47" W x 72" H
  - Pallet 1 (unit): 114" L x 94" W x 72" H
  - 135 1/2" L x 108 1/4" W x 65 3/4" H

**INLETS/OUTLETS**
- 14" x 48" (CFM)
- Cross-core differential pressure ports
- Motorized isolation dampers - OA, RA

**ACCESSORIES**
- Variable frequency drives
- Bypass economizer with enthalpy control
- Standard Features:
  - AHRI 1060 Certified Core:
    - Four L125 G5
  - Typical Airflow Range:
    - 1,000-4,250 CFM
  - Static plate, heat and humidity transfer
  - Ventilation Type:
    - Dedicated Outdoor Air System

**CORE PERFORMANCE**
- Effectiveness:
  - 50%
  - 70%

See all AHRI certified ratings at www.ahrinet.org.

**FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEWAIRE.COM**
OPTIONS

See individual submittal pages for availability by model.

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

DX, HEAT PUMP, OR WATER COIL
• AHRI: 410 rated coils
• Coil casing material: galvanized steel/stainless steel
• Tube material: copper
• Fin material: aluminum
• Mechanical bonded fin and tube joints
• Coil coating available upon request
• Tube thickness: 0.016"
• Fin thickness: 0.0075"
• Refrigerant coil suction and distributor header material: seamless copper tube with brazed joints

ADDITIONAL WATER REHEAT COIL
• AHRI: 410 rated coils
• Coil casing material: galvanized steel/stainless steel
• Tube material: copper
• Fin material: aluminum
• Mechanical bonded fin and tube joints
• Coil coating available upon request
• Tube thickness: 0.016"
• Fin thickness: 0.0075"
OPTIONS

Premium Controls
AVAILABLE ON ALL RD 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></th>
<th>STANDARD CONTROLS</th>
<th>PREMIUM CONTROLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO2 sensor</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>IAQ sensor</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Occupancy sensor</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Smoke detector</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>BACnet factory activation</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Remote display</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Room Pressure Sensor</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Duct Static Pressure Sensor</td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Temperature Sensor Kit</td>
<td></td>
<td>●</td>
</tr>
</tbody>
</table>

NOTES
• Sensor output is 0-10 vdc, for use as on/off or modulating control.
• Temperature Sensor Kit is for use with non-integrated heating.

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

## Premium Controls

### MODELS

**STANDARD CONTROLS via dry contact and relays**

Our RD 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 unit.

**PREMIUM CONTROLS**

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

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

### FEATURE COMPARISON

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

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

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

*Available with Standard or Integrated Programmable Controls.

**Only available with Integrated Programmable Controls.

DIGITAL TIME CLOCK*

- Up to 8 on/off cycles per day or 56 per week
- 24 VAC power requirement
- Battery back-up
- Wall mount or outdoor enclosure options
- Wall mount fits any 4" x 4" electrical

CO2 SENSORS*

- Adjustable control from 400-2000 PPM
- Digital display
- 24 VAC power requirement
- Computer/BAS interface for information and control
- Self calibrates during periods of low occupancy
- Wall mount or add duct mount accessory

IAQ SENSORS*

- Measures TVOC
- Direct correlation to CO2 levels
- 0-2000 ppm CO2 equivalent output signal
- Digital display on wall mount
- Selectable 0-5 or 0-10V dc signal
- 24 VAC power required
- Internal menu for easy set-up

MOTION OCCUPANCY SENSORS*

- Passive infrared sensor
- Adjustable time-off delay to 30 minutes
- 24 VAC power requirement
- Ceiling mount or directable wall mount
- Coverage floor space
  - Ceiling mount: 1500 sq. ft.
  - Wall mount: 2500 sq. ft.
- Major motion area
  - Ceiling mount: 50 ft. diameter
  - Wall mount: 68 x 50 ft.

SMOKE DETECTOR*

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

Specifications may be subject to change without notice.
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
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.
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.

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- **Highly certified:** UL Listed (UL1996 Standard) and CSA certified.

**OPTIONS & ACCESSORIES**

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

**EK SERIES**

**ELECTRIC DUCT HEATER**

**ACCESSORIES AVAILABLE ON ALL COMMERCIAL UNITS (SOME EXCEPTIONS APPLY)**

**EK Series Electric Duct Heater**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heater Type</td>
<td>Electric Duct Heater</td>
</tr>
<tr>
<td>Typical KW Range</td>
<td>1–175 kW</td>
</tr>
<tr>
<td>Standard Features</td>
<td>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</td>
</tr>
<tr>
<td>Volts &amp; Phase</td>
<td>Single phase - 120, 208, 240, 277, Three phase - 208, 240, 480, 600</td>
</tr>
<tr>
<td>Control Voltage</td>
<td>24 VAC</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Minimum - 8” x 8” (W x H), Maximum - 99” x 99” (W x H)</td>
</tr>
<tr>
<td>Options</td>
<td>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</td>
</tr>
</tbody>
</table>

**FLIPPABLE CAPABILITIES**

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

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

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**Chart:**

- **EK SERIES HEATER CAPACITY**
  - HEATER CAPACITY - KW
  - AIRFLOW - CFM
  - SAFE OPERATING RANGE

- **PRESSURE DROP THROUGH HEATER**
  - Static Pressure Drop - Inches of Water
  - Air Velocity - FPM (1, 2, 3 and 4 - the number of rows of heater coils)
  - When the number of rows of heater coils is unknown, assume 4.

Specifications may be subject to change without notice.
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.
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.

Specifications may be subject to change without notice.
Indirect Gas-Fired Duct Furnace
Accessory

**SPECIFICATIONS**

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

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

**Standard Features:**
- Tubular heaters
- Indirect natural gas fired
- Indoor installation
- 80% thermal efficiency
- Horizontal airflow
- Rated for elevations from 0 – 2,000 ft.
- 409 stainless steel heat exchanger
- 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 shutoff 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**

**INDOOR**

**INDOOR TOP EXHAUST (KI)**

**INDOOR SEPARATE INLET EXHAUST (SI)**

**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.
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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>in</td>
<td>lb</td>
<td>lb</td>
</tr>
<tr>
<td>MBH</td>
<td>Qty.</td>
<td>Btu</td>
<td>Btu</td>
<td>Nom. Duct Opening Airflow (CFM)</td>
<td>IN-KI, IN-SI</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>inch</td>
<td>inch</td>
<td>inch</td>
</tr>
<tr>
<td>50</td>
<td>3</td>
<td>50,000</td>
<td>40,000</td>
<td>1852 1481 1235 1058 926 823 741 673 617</td>
<td>IN-KI, IN-SI</td>
<td></td>
<td>lb</td>
<td>lb</td>
</tr>
<tr>
<td>75</td>
<td>3</td>
<td>75,000</td>
<td>60,000</td>
<td>2778 2222 1852 1587 1398 1235 1111 1010 926</td>
<td>IN-KI, IN-SI</td>
<td></td>
<td>lb</td>
<td>lb</td>
</tr>
<tr>
<td>100</td>
<td>4</td>
<td>100,000</td>
<td>80,000</td>
<td>3704 2963 2469 2116 1852 1646 1481 1347 1235</td>
<td>IN-KI, IN-SI</td>
<td></td>
<td>lb</td>
<td>lb</td>
</tr>
<tr>
<td>125</td>
<td>5</td>
<td>125,000</td>
<td>100,000</td>
<td>4630 3704 3086 2646 2315 2058 1852 1684 1543</td>
<td>IN-KI, IN-SI</td>
<td></td>
<td>lb</td>
<td>lb</td>
</tr>
<tr>
<td>150</td>
<td>6</td>
<td>150,000</td>
<td>120,000</td>
<td>5556 4444 3704 3175 2778 2469 2222 2020 1852</td>
<td>IN-KI, IN-SI</td>
<td></td>
<td>lb</td>
<td>lb</td>
</tr>
<tr>
<td>175</td>
<td>7</td>
<td>175,000</td>
<td>140,000</td>
<td>6481 5185 4321 3704 3241 2881 2593 2357 2160</td>
<td>IN-KI, IN-SI</td>
<td></td>
<td>lb</td>
<td>lb</td>
</tr>
<tr>
<td>200</td>
<td>8</td>
<td>200,000</td>
<td>160,000</td>
<td>7407 5926 4938 4233 3704 3292 2963 2694 2469</td>
<td>IN-KI, IN-SI</td>
<td></td>
<td>lb</td>
<td>lb</td>
</tr>
<tr>
<td>250</td>
<td>10</td>
<td>250,000</td>
<td>200,000</td>
<td>9259 7407 6173 5291 4630 4115 3704 3367 3086</td>
<td>IN-KI, IN-SI</td>
<td></td>
<td>lb</td>
<td>lb</td>
</tr>
<tr>
<td>300</td>
<td>12</td>
<td>300,000</td>
<td>240,000</td>
<td>11111 8889 7407 6349 5556 4938 4444 4040 3704</td>
<td>IN-KI, IN-SI</td>
<td></td>
<td>lb</td>
<td>lb</td>
</tr>
<tr>
<td>350</td>
<td>14</td>
<td>350,000</td>
<td>280,000</td>
<td>12963 10370 8642 7407 6481 5761 5185 4714 4321</td>
<td>IN-KI, IN-SI</td>
<td></td>
<td>lb</td>
<td>lb</td>
</tr>
<tr>
<td>400</td>
<td>15</td>
<td>400,000</td>
<td>320,000</td>
<td>14815 11852 9877 8466 7407 6584 5926 5387 4938</td>
<td>IN-KI, IN-SI</td>
<td></td>
<td>lb</td>
<td>lb</td>
</tr>
</tbody>
</table>

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

**INDIRECT GAS-FIRED DUCT FURNACE DIMENSIONS**

**NOTES**

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

Specifications may be subject to change without notice.
**Indirect Gas-Fired Duct Furnace**

**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
- 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

**Temperatures & 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.
- 2-stage gas valve with shutoff
- Induced draft venting
- Fuel valve pressure switch
- Power wiring and control wiring
- Terminal block for power and control wiring
- Automatic high limit safety shut-off
- Terminal block for power and control wiring
- Auxiliary manual high limit switch
- Combination gas valve with shutoff
- Manual shut off valve
- 3/8" condensate drain connection

**Accessories:**
- Duct thermostat for modulation control
- Disconnector switch
- Power fusing

**FLUE AND COMBUSTION AIR CONFIGURATION**

**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.
INDIRECT GAS-FIRED DUCT FURNACE DIMENSIONS

TABLE 1

<table>
<thead>
<tr>
<th>MBH</th>
<th>Qty.</th>
<th>Bltuh</th>
<th>Bltuh</th>
<th>Nom. Duct Opening Airflow (CFM)</th>
<th>Min/Max Temperature Rise through Furnace (°F)</th>
<th>Vent Locations</th>
<th>Unit Weight</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>3</td>
<td>50,000</td>
<td>40,000</td>
<td>1852 14811235 1058 926 823 741 673 617</td>
<td>20 25 30 35 40 45 50 55 60</td>
<td>&quot;W&quot; &quot;L&quot; &quot;H&quot; &quot;H&quot; &quot;D&quot; &quot;D&quot;</td>
<td>127 207</td>
<td></td>
</tr>
<tr>
<td>75</td>
<td>3</td>
<td>75,000</td>
<td>60,000</td>
<td>2778 2222 1852 1587 1389 1235 1111 1010 926</td>
<td>15.7</td>
<td></td>
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<tr>
<td>100</td>
<td>4</td>
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<td>80,000</td>
<td>3704 2963 2469 2116 1852 1646 1481 1347 1235</td>
<td>18.4</td>
<td></td>
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</tr>
<tr>
<td>125</td>
<td>5</td>
<td>125,000</td>
<td>100,000</td>
<td>4630 3704 3086 2646 2315 2058 1852 1684 1543</td>
<td>21.2</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>150</td>
<td>6</td>
<td>150,000</td>
<td>120,000</td>
<td>5556 4444 3704 3175 2778 2469 2222 2020 1852</td>
<td>23.9</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>175</td>
<td>7</td>
<td>175,000</td>
<td>140,000</td>
<td>6481 5185 4321 3704 3241 2881 2593 2357 2160</td>
<td>26.7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>8</td>
<td>200,000</td>
<td>160,000</td>
<td>7407 5926 4938 4233 3704 3292 2963 2694 2469</td>
<td>29.4</td>
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<td>200,000</td>
<td>9259 7407 6173 5291 4630 4115 3704 3367 3086</td>
<td>34.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300</td>
<td>12</td>
<td>300,000</td>
<td>240,000</td>
<td>11111 8889 7407 6349 5556 4938 4444 4040 3704</td>
<td>40.4</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>350</td>
<td>14</td>
<td>350,000</td>
<td>280,000</td>
<td>12963 10370 8642 7407 6481 5761 5185 4714 4321</td>
<td>45.9</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>400</td>
<td>15</td>
<td>400,000</td>
<td>320,000</td>
<td>14815 11852 9877 8466 7407 6584 5926 5387 4938</td>
<td>48.7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

INDIRECT GAS-FIRED DUCT FURNACE DIMENSIONS

NOTES
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.
### AHRI 1060 Certified Performance - Model Number L125-G5

<table>
<thead>
<tr>
<th>Type</th>
<th>Tilt Angle</th>
<th>Nominal Airflow</th>
<th>Pressure Drop</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate</td>
<td>N/A</td>
<td>100% - 750 SCFM, 75% - 563 SCFM</td>
<td>0.65 in. H2O</td>
</tr>
</tbody>
</table>

#### Thermal Effectiveness Ratings at 0" Pressure Differential

<table>
<thead>
<tr>
<th>Pressure Differential</th>
<th>EATR</th>
<th>OACF</th>
<th>Purge Angle or Setting</th>
<th>Nominal Airflow</th>
<th>Sensible</th>
<th>Latent</th>
<th>Total</th>
<th>Net Airflow</th>
<th>Net Sensible</th>
<th>Net Latent</th>
<th>Net Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1 in. H2O</td>
<td>1.0%</td>
<td>1.00</td>
<td>N/A</td>
<td>750 Heating CFM</td>
<td>70%</td>
<td>52%</td>
<td>64%</td>
<td>750 CFM</td>
<td>70%</td>
<td>52%</td>
<td>64%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>70% Cooling</td>
<td>74%</td>
<td>42%</td>
<td>53%</td>
<td>563 CFM</td>
<td>563 CFM</td>
<td>563 CFM</td>
<td>74%</td>
</tr>
<tr>
<td>0 in. H2O</td>
<td>0.0%</td>
<td>1.02</td>
<td>N/A</td>
<td>563 Heating CFM</td>
<td>74%</td>
<td>59%</td>
<td>69%</td>
<td>563 CFM</td>
<td>74%</td>
<td>59%</td>
<td>69%</td>
</tr>
<tr>
<td>1 in. H2O</td>
<td>0.0%</td>
<td>1.05</td>
<td>N/A</td>
<td>75% Heating CFM</td>
<td>74%</td>
<td>49%</td>
<td>58%</td>
<td>563 CFM</td>
<td>563 CFM</td>
<td>563 CFM</td>
<td>74%</td>
</tr>
</tbody>
</table>

**Note:** SCFM = Standard Cubic Feet per Minute  OACF = Outdoor Air Correction Factor  EATR = Exhaust Air Transfer Ratio  N/A = Not Applicable
CERTIFICATIONS & PERFORMANCE

AHRI 1060 CERTIFIED PERFORMANCE

Energy recovery component certified in accordance with AHRI Standard 1060-2013. Actual performance in packaged equipment may vary.

NOTE:

SCFM = Standard Cubic Feet per Minute
OACF = Outdoor Air Correction Factor
EATR = Exhaust Air Transfer Ratio
N/A = Not Applicable

Thermal Effectiveness Ratings at 0” Pressure Differential

<table>
<thead>
<tr>
<th>Nominal Airflow</th>
<th>Sensible</th>
<th>Latent</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>750 CFM</td>
<td>70%</td>
<td>52%</td>
<td>64%</td>
</tr>
<tr>
<td>563 CFM</td>
<td>74%</td>
<td>59%</td>
<td>69%</td>
</tr>
</tbody>
</table>

Leakage Ratings

<table>
<thead>
<tr>
<th>Pressure Differential</th>
<th>EATR</th>
<th>OACF</th>
<th>Purge Angle or Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1 in. H2O</td>
<td>1.0%</td>
<td>1.00</td>
<td>N/A</td>
</tr>
<tr>
<td>0 in. H2O</td>
<td>0.0%</td>
<td>1.02</td>
<td>N/A</td>
</tr>
<tr>
<td>1 in. H2O</td>
<td>0.0%</td>
<td>1.05</td>
<td>N/A</td>
</tr>
</tbody>
</table>

AHRI-1060 Certified Performance - Model Number L125-G5

Type Tilt Angle Nominal Airflow Pressure Drop

<table>
<thead>
<tr>
<th>Plate</th>
<th>N/A</th>
<th>100% - 750 SCFM</th>
<th>75% - 563 SCFM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>- 0.65 in. H2O</td>
<td></td>
</tr>
</tbody>
</table>
RD SERIES MODEL
CONFIGURATION GUIDE

Note: Not all options are available on every model.

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>DIGIT NUMBER</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Digits 1 - 5:</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;RD-2X&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;RD-4X&quot;</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Digits 7 - 8:</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;IN&quot; = Indoor</td>
<td></td>
</tr>
<tr>
<td>&quot;RT&quot; = Rooftop</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Digits 9:</th>
<th>Coil Location (see Restrictions 1 &amp; 2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;F&quot; = Coil Connections Front</td>
<td></td>
</tr>
<tr>
<td>&quot;B&quot; = Coil Connections Back</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digits 10:</th>
<th>Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;A&quot;, &quot;C&quot;, &quot;E&quot;, &quot;G&quot;</td>
<td>(Rooftop)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digits 11:</th>
<th>Wall Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;S&quot; = Single</td>
<td></td>
</tr>
<tr>
<td>&quot;D&quot; = Double</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digits 12:</th>
<th>Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;1&quot; = Single Phase</td>
<td></td>
</tr>
<tr>
<td>&quot;3&quot; = Three Phase</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digits 13:</th>
<th>Voltage (see Restriction 3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;4&quot; = 460V</td>
<td></td>
</tr>
<tr>
<td>&quot;5&quot; = 208-230V</td>
<td></td>
</tr>
<tr>
<td>&quot;6&quot; = 575V</td>
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</table>

<table>
<thead>
<tr>
<th>Digits 14:</th>
<th>FA Horsepower (see Restrictions 4 &amp; 5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;V&quot; = 2HP</td>
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</tr>
<tr>
<td>&quot;X&quot; = 5HP</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Digits 15:</th>
<th>EA Horsepower (see Restrictions 4 &amp; 5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;V&quot; = 2HP</td>
<td></td>
</tr>
<tr>
<td>&quot;X&quot; = 5HP</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digits 16-17:</th>
<th>Coil Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;DX&quot; = Dehumidification 1-Circuit Coil</td>
<td></td>
</tr>
<tr>
<td>&quot;DU&quot; = Dehumidification 2-Circuit Coil</td>
<td></td>
</tr>
<tr>
<td>&quot;CW&quot; = Chilled Water Coil</td>
<td></td>
</tr>
<tr>
<td>&quot;XS&quot; = Heat Pump 1-Circuit Coil</td>
<td></td>
</tr>
<tr>
<td>&quot;XR&quot; = Heat Pump 2-Circuit Coil</td>
<td></td>
</tr>
<tr>
<td>&quot;XH&quot; = Dehumidification Coil and Hot Water Coil 1-Circuit</td>
<td></td>
</tr>
<tr>
<td>&quot;XH&quot; = Dehumidification Coil and Hot Water Coil 2-Circuit</td>
<td></td>
</tr>
<tr>
<td>&quot;CH&quot; = Hot Water Coil and Chilled Water Coil</td>
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<tr>
<td>&quot;SC&quot; = Hot and Chilled Water Coil</td>
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<tr>
<td>&quot;HW&quot; = Hot Water Coil</td>
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<tr>
<td>&quot;-&quot; = No Coil, or Field Installed Coil</td>
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<tr>
<td>&quot;CC&quot; = Custom Coil</td>
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</table>

*NOTES:*
Digit 6 "J" = G5 Core Type

<table>
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<tr>
<th>Digits 18:</th>
<th>Coil Size (see Restrictions 6, 7, 8 &amp; 10)</th>
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<tbody>
<tr>
<td>&quot;1&quot; = 1-Row</td>
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<tr>
<td>&quot;3&quot; = 3-Row</td>
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<tr>
<td>&quot;4&quot; = 4-Row</td>
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<td>&quot;5&quot; = 5-Row</td>
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<tr>
<td>&quot;6&quot; = 6-Row</td>
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<tr>
<td>&quot;0&quot; = No Coil, no Drain Pan</td>
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<tr>
<td>&quot;*&quot; = Field Installed Coil</td>
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<thead>
<tr>
<th>Digits 19:</th>
<th>Unit Control</th>
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<tbody>
<tr>
<td>&quot;V&quot; = Onboard VFD Both Airstreams</td>
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<tr>
<th>Digits 20:</th>
<th>Disconnect</th>
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<tbody>
<tr>
<td>&quot;N&quot; = Non-Fused (Standard)</td>
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<tr>
<td>&quot;F&quot; = Fused</td>
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<thead>
<tr>
<th>Digits 21:</th>
<th>Unit Control Enhancements</th>
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<tbody>
<tr>
<td>&quot;T&quot; = Transformer with Isolation Relay (Standard)</td>
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<tr>
<td>&quot;P&quot; = Premium Controls</td>
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<tr>
<td>&quot;4&quot; = Premium Controls with BACNET License</td>
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</tbody>
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<tr>
<th>Digits 22:</th>
<th>Filter Options (see Restriction 12)</th>
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<tbody>
<tr>
<td>&quot;*&quot; = None</td>
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<tr>
<td>&quot;F&quot; = Filter Monitor Both Airstreams</td>
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<tr>
<th>Digits 23:</th>
<th>Other Options</th>
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<td>&quot;*&quot; = None (Reserved)</td>
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<tr>
<th>Digits 24:</th>
<th>Paint and Customization</th>
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<td>&quot;*&quot; = None</td>
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<tr>
<td>&quot;W&quot; = White Paint</td>
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<td>&quot;C&quot; = Custom Paint</td>
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<td>&quot;X&quot; = Custom Unit</td>
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<tr>
<th>Digits 25:</th>
<th>Safety Listing (see Restriction 11)</th>
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<tbody>
<tr>
<td>&quot;L&quot; = Listed</td>
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<tr>
<td>&quot;N&quot; = Non-Listed</td>
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*Restrictions:*
1. Coil Location Code "F" only available with Location Code "IN".
2. Coil Location Code "B" only available with Location Code "RT".
3. Voltage Codes "4" & "5" only available with Phase Code "3" (Three-Phase).
4. FA and EA Motor Code "V" only available with RD-2X models.
5. FA and EA Motor Code "X" only available with RD-4X models.
6. Coil Size Code "1" only available with Coil Type Code "HW".
7. Coil Size Code "3" not available with Coil Type Code "HW", "CC" & "-".
9. Coil Size Code "0" not available with Coil Type Code "DX", "XS", "XB", "DH", "HW", "CC" & "-".
10. Coil Size Code "6" only available with Coil Type Code "XB" in RD-4X models.
11. Some units with Customization Code "X" are not safety listed.
12. Filter Code "F" not available with Unit Control Enhancements Codes "2" & "4". Filter Monitor is provided with those options.

For Technical Support E-mail: RenewaireSupport@renewaire.com
To Place an Order E-mail: RenewaireOrders@renewaire.com
EK SERIES ELECTRIC DUCT HEATER
CONFIGURATION GUIDE

Note: Not all options are available on every model.

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<th>MODEL NUMBER</th>
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<th>DIGIT NUMBER</th>
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**Digit 1 - 2:** Heater Type
- "EK" = Electric Heater (Standard)

**Digit 4 - 5:** Width in Inches (see Restriction 1)
- 08-99

**Digit 6 - 7:** Height in Inches (see Restriction 2)
- 08-99

**Digit 8 - 10:** Capacity in kW (see Restrictions 3, 4 & 5)
- 001-175

**Digit 11:** Mount
- "S" = Slip In (Standard)
- "F" = Flanged

**Digit 12:** Element Style
- "C" = Open Coil (Standard)

**Digit 13:** Element Material
- "C" = 60-20 Ni-Cr-Fe with Nickel Plate Terminal Pins (Standard)
- "A" = 80-20 Ni-Cr with Stainless Steel Terminal Pins

**Digit 14:** Airflow Orientation
- "H" = Horizontal (Standard)
- "V" = Vertical

**Digit 15:** Control Box Offset
- "L" = Left Hand (Standard)
- "R" = Right Hand

**Digit 16:** Control Box Recessed
- "N" = None (Standard)
- "R" = Recessed 1"

**Digit 17:** Control Box Dust Tight
- "N" = None (Standard)
- "D" = Dust Tight

**Digit 18:** Voltage (see Restrictions 7 & 8)
- "1" = 120V
- "2" = 208V
- "3" = 240V
- "4" = 460V
- "5" = 690V
- "9" = 277V

**Digit 19:** Phase
- "1" = Single-Phase
- "3" = Three-Phase

**Digit 20:** Power Fusing (see Restriction 9)
- "F" = Fusing

**Digit 21:** Stage
- "1" = Single (Standard)
- "2" = 2-Stage
- "4" = 4-Stage

**Digit 22:** Control Voltage
- "S" = 24VAC

**Digit 23:** Control Type (see Restrictions 10, 11 & 12)
- "D" = Duct Thermostat with Sensor (Standard)
- "E" = Electronic Step Control with Sensor
- "S" = SCR (For BAS System)
- "V" = SCR with Analog Sensor (0-10Vdc)

**Digit 24:** Time Delay
- "N" = None (Standard)

**Digit 25:** Pilot Light
- "N" = None (Standard)
- "L" = Light

**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. DENSITY = HEATER CAPACITY (kW) < 30 \( \frac{(W \times H) / 144}{\frac{3150}{CFM}} \)
4. Heater capacity kW entered as a whole number.
5. Formulas for calculating kW and temperature rise: \( kW = \frac{CFM \times \Delta T}{3150} \), \( \Delta T = \frac{kW \times 3150}{CFM} \)
6. Voltage Codes "1" & "9" only available with Phase Code "1" (Single-Phase).
7. Voltage Codes "4" & "8" only available with Phase Code "3" (Three-Phase).
8. Power Fusing Code "F" required when amperage is >96A, (based on kW and voltage)
9. Control Type Code "D" only available with Stage Code "1" & "2".
10. Control Type Code "E" only available with Stage Code "4".
11. Control Type Code "S" & "V" only available with Stage Code "1", unless amperage is greater than or equal to 96A, then Stage Code "4" is automatically selected.

For Technical Support E-mail: RenewaireSupport@renewaire.com
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**GH SERIES INDIRECT GAS-FIRED DUCT FURNACE CONFIGURATION GUIDE**

Note: Not all options are available on every model.

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<th>MODEL NUMBER</th>
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<td><em>&quot;RT&quot; = Rooftop</em></td>
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<td><em>&quot;WO&quot; = Front Exhaust Outdoor</em></td>
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<td><em>&quot;NO&quot; = Top Exhaust Outdoor</em></td>
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<td><em>&quot;N&quot; = Natural Gas (Standard)</em></td>
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<td><em>&quot;S&quot; = 0 - 2000' (Standard)</em></td>
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<td><em>&quot;2&quot; = 2001' - 3000'</em></td>
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<td><em>&quot;3&quot; = 3001' - 4000'&quot;</em></td>
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<td><em>&quot;4&quot; = 4001' - 5000'&quot;</em></td>
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<td><em>&quot;6&quot; = 6001' - 7000'&quot;</em></td>
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<td><em>&quot;Y&quot; = 7001' and above</em></td>
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**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.

For Technical Support E-mail: RenewaireSupport@renewaire.com
To Place an Order E-mail: RenewaireOrders@renewaire.com

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

### BENEFITS OF INCREASED VENTILATION

- **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

### TECHNICAL/APPLICATIONS SUPPORT

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

**CONTACT RENEWAIRE**

**PHONE:** 1.800.627.4499  
**FAX:** 608.221.2824

**FOR TECHNICAL SUPPORT:**  
RenewaireSupport@renewaire.com

**TO PLACE AN ORDER:**  
RenewaireOrders@renewaire.com
RELEVANT EVERYWHERE

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.

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.