NEW! DN SERIES
DEDICATED OUTDOOR AIR SYSTEM CATALOG

JANUARY 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 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

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) 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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About Renewaire

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 preconditioning 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.
ABOUT RENEWAIRE

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**

**DN 2IN**

**INDOOR UNIT**
Dedicated Outside Air System
Unit with Energy Recovery

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**DOWNLOAD SPECIFICATION AT:**
renewaire.com/specifications

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**ERV** - Energy Recovery Ventilator
**EH** - Electric Heater
**CC** - Cooling Coil
**HC** - Heating Coil
**GH** - Gas Heat Module
**HGRH** - Hot Gas Reheat Coil
**BT** - Blow Thru
**DT** - Draw Thru

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**Dedicated Outdoor Air System**
Standard

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**SPECIFICATIONS**

**Energy Recovery Type:**
Static plate total energy transfer

**Typical Airflow Range:** 375-1,650 CFM

**AHRI 1060 Certified Core:**
One L-62 G5 and one L-125 G5

**Standard Features:**
- EC Motors for both airstreams
- Direct Drive backward inclined plenum
- Higher ESP of up to 2" w.g. at 1,500 CFM
- Integrated programmable controls
- True 100% Face and bypass enthalpy based modulating economizer
- Class 1 low leakage motorized isolation dampers
- Stainless steel double-sloped drain pan with cooling option
- 1" Double wall foam injected 20 gauge galvanized panel construction with R6.5 insulation

**Inlets/Outlets:**
- OA & RA Inlets: 24" x 16"
- SA Outlet: 24" x 16"
- EA Outlet: 20" x 16"

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

**Unit Dimensions & Weight for 1st Cabinets**
- 126" L x 60 3/4" W x 71 7/8" H
- 1250-2425 lbs.

**Max. Shipping Dimensions & Weight for 1st Cabinets (on pallet):**
- 140" L x 90" W x 77" H
- 1450-2625 lbs.

**Unit Dimensions & Weight for 2nd Cabinets**
- 128" L x 62 3/4" W x 73 7/8" H
- 1350-2550 lbs.

**Max. Shipping Dimensions & Weight for 2nd Cabinets (on pallet):**
- 140" L x 90" W x 79" H
- 1550-2750 lbs.

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

**Options:**
- DX, heat pump, or chilled water cooling coil
- Modulating hot gas reheat
- Steam or hot water coil, gas heat module or electric heater
- Onboard variable frequency drives (VFDs) - both airstreams
- Fused disconnect
- Spring隔离 (VFDs only)
- 2" Double wall foam injected 20 gauge galvanized panel construction with R13.0 insulation
- Exterior paint - grey, white, custom color
- BACNET factory activation
- GFCI convenience outlet
- Recirculation damper
- Drain overflow switch
- Electrofin coating for coils

**Accessories:**
- Filters - MERV 13, 2" and 4" (shipped loose), MERV 14, 2" and 4" (shipped loose)
- Additional filters available upon request
- Duct mounted electric pre-heater (separately powered)
- 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
- Room temperature and humidity sensor
- Duct static pressure sensor with display to 10", without display 0-2" (water shown)
- Room pressure sensor with display to 1", without display 0-1" (water shown)
- Waterless trap negative pressure
- Waterless trap positive pressure
- Remote sensor

**INTERNAL OPTIONS FOR HEATING AND COOLING**

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
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<td>ERV + EH (BT)</td>
<td>ERV + GH (BT)</td>
<td>ERV + CCHC (BT)</td>
<td>ERV + CC + HGRH (BT)</td>
<td>ERV + CC + HGRH (BT)</td>
<td>ERV + CC + HGRH (BT)</td>
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<tr>
<td></td>
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<td>ERV + CC + HGRH + EH (BT)</td>
<td>ERV + CC + GH (BT)</td>
<td>ERV + CC + HGRH + GH (BT)</td>
<td>ERV + CC + HGRH + GH (BT)</td>
<td>ERV + CC + HGRH + GH (BT)</td>
</tr>
<tr>
<td></td>
<td>ERV + CC + EH (DT)</td>
<td>ERV + CC + HGRH + EH (DT)</td>
<td>ERV + CC + GH (DT)</td>
<td>ERV + CC + HGRH + GH (DT)</td>
<td>ERV + CC + HGRH + GH (DT)</td>
<td>ERV + CC + HGRH + GH (DT)</td>
</tr>
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Specifications may be subject to change without notice.
DN 2 IN
Dedicated Outdoor Air System
Standard

ELECTRICAL DATA

<table>
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<th>Electrical Specifications</th>
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<th>Phase</th>
<th>Min. Circ. Amps.</th>
<th>Max. Overcurrent Protection Device</th>
<th>FLA per Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC</td>
<td>2 @ 1.35 kW ea.</td>
<td>200-277</td>
<td>50/60 Hz</td>
<td>Single</td>
<td>15.1</td>
<td>20</td>
<td>6.7-4.8</td>
</tr>
<tr>
<td></td>
<td>2 @ 2.70 kW ea.</td>
<td>200-240</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>19.4</td>
<td>25</td>
<td>8.6-7.2</td>
</tr>
<tr>
<td></td>
<td>2 @ 3.70 kW ea.</td>
<td>380-480</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>13.5</td>
<td>15</td>
<td>6.0-4.6</td>
</tr>
<tr>
<td>VFD</td>
<td>2 @ 3 HP ea.</td>
<td>208-230</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>20.3</td>
<td>25</td>
<td>9.8-4.2</td>
</tr>
<tr>
<td></td>
<td>2 @ 3 HP ea.</td>
<td>460</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>9.5</td>
<td>15</td>
<td>4.2</td>
</tr>
<tr>
<td></td>
<td>2 @ 3 HP ea.</td>
<td>575</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>7.4</td>
<td>15</td>
<td>3.3</td>
</tr>
</tbody>
</table>

Note: Electrical data shown is for a standard unit without cooling and heating. Refer to cores.renewaire.com for project specific submittal for electrical data for the specific unit with all included options.

CORE PERFORMANCE

AIRFLOW PERFORMANCE

DN-2 200-277V 1P EC

DN-2 200-240V 3P EC

DN-2 230/460/575V 3P AC

DN-2 380-480V 3P EC

Note: For the most complete and current information visit renewaire.com.
Dimension drawings for the DN depict largest cabinet size available. Refer to CORES.RenewAire.com for project specific unit drawings.

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. FOR PIPE CONNECTION DETAILS REFER TO CORES OR UNIT SELECTION SUBMITTAL.
4. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.
5. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.
6. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.

UNIT MOUNTING & APPLICATION

UNIT MOUNTING & APPLICATION

AIRFLOW CONFIGURATION

Available as shown:

RIGHT VIEW

FRONT VIEW

BACK VIEW

LEFT VIEW

UNIT MOUNTING & APPLICATION

Must be installed as shown. Airstreams cannot be switched. Duct configuration is field convertible.
DN2N Dedicated Outdoor Air System Standard 2" Cabinet

Dimension drawings for the DN depict largest cabinet size available. Refer to CORES.RenewAire.com for project specific unit drawings.

NOTE
1. UNLESS OTHERWISE SPECIFIED, Dimensions and weights are rounded to the nearest eighth of an inch.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. FOR PIPE CONNECTION DETAILS REFER TO CORES OR UNIT SELECTION SUBMITTAL.
4. UNIT, UNIT DOORS, AND COILS CANNOT BE MIRRORED.

For the most complete and current information visit RENEWAIRE.COM
DN3N, ERV + CC + HGRH + GH (BT) shown

Download specification at: renewaire.com/specifications

**SPECIFICATIONS & DIMENSIONS**

**DN2RT**

**ROOFTOP UNIT**

Dedicated Outside Air System Unit with Energy Recovery

**NEW**

**Internal Options for Heating and Cooling**

**ERV** - Energy Recovery Ventilator

**EH** - Electric Heater

**CC** - Cooling Coil

**HC** - Heating Coil

**GH** - Gas Heat Module

**HGRH** - Hot Gas Reheat Coil

**BT** - Blow Thru

**DT** - Draw Thru

**Specifi cations may be subject to change without notice.**

**Dedicated Outdoor Air System**

**Standard**

**Specifications**

**Energy Recovery Type:** Static plate total energy transfer

**Typical Airflow Range:** 375-1,650 CFM

**AHRI 1060 Certified Core:** One L-62-G5 and one L-125 G5

**Standard Features:**
- EC Motors for both airstreams
- Direct Drive backward inclined plenum
- Higher ESP of up to 2” w.g. at 1,500 CFM
- Integrated programmable controls
- True 100% Face and bypass enthalpy based modulating economizer
- Class 1 low leakage motorized isolation dampers

Stainless steel double-sloped drain pan with cooling option

**1” Double wall foam injected 20 gauge galvanized panel construction with R6.5 insulation**

**Inlets/Outlets:**
- OA & RA Inlets: 24” x 16”
- SA Outlet: 24” x 16”
- EA Outlet: 20” x 16”

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

**Unit Dimensions & Weight for 1st Cabinets**

151 5/8” L x 76 3/4” W x 75 1/8” H

1500-2700 lbs.

**Max. Shipping Dimensions & Weight for 1st Cabinets**

140” L x 90” W x 79” H

1700-2900 lbs.

**Unit Dimensions & Weight for 2nd Cabinets**

154 1/8” L x 78 5/8” W x 75 1/8” H

1600-2825 lbs.

**Max. Shipping Dimensions & Weight for 2nd Cabinets**

140” L x 90” W x 81” H

1800-3025 lbs.

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

**Options:**
- DX, heat pump, or chilled water cooling coil
- Modulating hot gas reheat

Onboard variable frequency drives (VFDs) - both airstreams

- Fused disconnect

- Spring isolators (VFDs only)

- 2” Double wall foam injected 20 gauge galvanized panel construction with R13.0 insulation

**Exterior Paint** - grey, white, custom color

- Salt spray - 2500 hour

- BACNET factory activation

- GFCI convenience outlet

- Recirculation damper

- Drain overflow switch

- Mist eliminator

- Electrofin coating for coils

**Accessories:**
- Filters - MERV 13, 2”, and 4” (shipped loose), MERV 14, 2”, and 4” (shipped loose)

- Additional filters available upon request

- Roof curb - standard 14”

- Hurricane or seismic rated curbs

- Curb clip kit

- Carbon dioxide sensor/control - wall mount (CO2-W), duct mount (CO2-D)

- IAQ sensor - wall mount (IAQ-W), duct mount (IAQ-D)

- Smoke detector

- Room temperature and humidity sensor

- Duct static pressure sensor with display to 10”, without display 0-2”

- Room pressure sensor with display to 1”, without display 0-1”

- Waterless trap negative pressure

- Waterless trap positive pressure

- Remote display

**Electrical Specifications**

**Effectiveness (%):**

- 30%

- 50%

**Thermal Performance Ratings**

**DN-SERIES**

**Electrical Data Shown is for a Standard Unit Without Cooling and Heating. Refer to cores.renewaire.com for Project**

**Airflow Performance**

**Air Flow (cfm):**

<table>
<thead>
<tr>
<th>Air Flow (cfm)</th>
<th>Motor Qty/kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.70 kW ea.</td>
<td>2 @ 3HP ea.</td>
</tr>
<tr>
<td>0.5 HP Volts Frequency Phase Min. Cir.</td>
<td>575 50/60 Hz</td>
</tr>
<tr>
<td>1.5 HP Volts Frequency Phase Min. Cir.</td>
<td>380-480 50/60 Hz</td>
</tr>
<tr>
<td>3.0 HP Volts Frequency Phase Min. Cir.</td>
<td>208-230 50/60 Hz</td>
</tr>
</tbody>
</table>

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

**At AHRI 1060 standard conditions.**
### ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Motor Qty/kW or HP</th>
<th>Volts</th>
<th>Frequency</th>
<th>Phase</th>
<th>Min. Cir. Amps.</th>
<th>Max. Overcurrent Protection Device</th>
<th>FLA per motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC</td>
<td>2 @ 1.35 kW ea.</td>
<td>200-277</td>
<td>50/60 Hz</td>
<td>Single</td>
<td>15.1</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>2 @ 2.70 kW ea.</td>
<td>200-240</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>19.4</td>
<td>25</td>
</tr>
<tr>
<td></td>
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<td>380-480</td>
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<td>Three</td>
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<td>50/60 Hz</td>
<td>Three</td>
<td>20.3</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>2 @ 3HP ea.</td>
<td>460</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>9.5</td>
<td>15</td>
</tr>
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<td></td>
<td>2 @ 3HP ea.</td>
<td>575</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>7.4</td>
<td>15</td>
</tr>
</tbody>
</table>

Note: Electrical data shown is for a standard unit without cooling and heating. Refer to cores.renewaire.com for project specific submittal for electrical data for the specific unit with all included options.

### CORE PERFORMANCE

<table>
<thead>
<tr>
<th>Airflow (CFM)</th>
<th>Effectiveness (%)</th>
</tr>
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<tbody>
<tr>
<td>300</td>
<td>90%</td>
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<tr>
<td>600</td>
<td>60%</td>
</tr>
<tr>
<td>900</td>
<td>40%</td>
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<tr>
<td>1200</td>
<td>30%</td>
</tr>
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<td>1500</td>
<td>90%</td>
</tr>
<tr>
<td>1800</td>
<td>60%</td>
</tr>
<tr>
<td>2100</td>
<td>40%</td>
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<td>2400</td>
<td>30%</td>
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<td>2700</td>
<td>90%</td>
</tr>
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<td>3000</td>
<td>60%</td>
</tr>
<tr>
<td>3300</td>
<td>40%</td>
</tr>
<tr>
<td>3600</td>
<td>30%</td>
</tr>
</tbody>
</table>

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

### AIRFLOW PERFORMANCE

#### DN-2 200-277V 1P EC

- **External Static Pressure (in.w.g.)**
- **Air Flow (cfm)**

#### DN-2 200-240V 3P EC

- **External Static Pressure (in.w.g.)**
- **Air Flow (cfm)**

#### DN-2 230/460/575V 3P AC

- **External Static Pressure (in.w.g.)**
- **Air Flow (cfm)**

#### DN-2 380-480V 3P EC

- **External Static Pressure (in.w.g.)**
- **Air Flow (cfm)**

Specifications may be subject to change without notice.
ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply 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. FOR PIPE CONNECTION DETAILS REFER TO CORES OR UNIT SELECTION SUBMITTAL.

4. UNIT, UNIT DOORS, AND COILS CANNOT BE MIRRORED.

5. FOR CURB DETAILS REFER TO CURB DRAWING.

6. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched. Duct configuration is field convertible.

AIRFLOW CONFIGURATION
Available as shown:
Dimension drawings for the DN depict largest cabinet size available. Refer to CORES.RenewAire.com for project specific unit drawings.

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

3. FOR PIPE CONNECTION DETAILS REFER TO CORES OR UNIT SELECTION SUBMITTAL.

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5. FOR CURB DETAILS REFER TO CURB DRAWING.

6. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.

FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEWAIRE.COM
DN2RT Dedicated Outdoor Air System Curbs

**Duct Support Dimensions**
- Width: 11/2"  
- Depth: 3"

**DN2RT CURB DN2-ERV+C+H**

**Airflow Configuration**
- Available as shown:
- **RA**: Room Air to be exhausted
- **SA**: Supply Air to inside

**Dimension Drawings for the DN depict largest cabinet size available. Refer to CORES.RenewAire.com for project specific unit drawings.**

**Unit Mounting & Application**
- Must be mounted as shown. Airstreams cannot be switched. Duct configuration is field convertible.
**Dedicated Outdoor Air System**  
Standard

**SPECIFICATIONS**

**Energy Recovery Type:** Static plate total energy transfer

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

**AHRI 1060 Certified Core:** Three L-125 GS

**Standard Features:**
- EC Motors for both airstreams
- Direct Drive backward inclined plenum
- Higher ESP of up to 2.5" w.g. at 3,000 CFM
- Integrated programmable controls
- True 100% Face and bypass enthalpy based modulating economizer
- Class 1 low leakage motorized isolation dampers
- Stainless steel double-sloped drain pan with cooling option
- 1" Double wall foam injected 20 gauge galvanized panel construction with R6.5 insulation

**Inlets/Outlets:**
- OA & RA Inlets: 36" x 16"
- SA Outlet: 24" x 16"
- EA Outlet: 20" x 16"

**Filters:**
- Total qty. 6, MERV 8:
  - 20" x 20" x 2"

**Unit Dimensions & Weight for 1st Cabinets**
- 147 7/8" L x 90 1/8" W x 71 7/8" H
- 1600-3475 lbs.

**Max. Shipping Dimensions & Weight for 1st Cabinets (on pallet):**
- 160" L x 90" W x 77" H
- 1825-3700 lbs.

**Unit Dimensions & Weight for 2nd Cabinets**
- 149 7/8" L x 92 1/8" W x 73 7/8" H
- 1725-3675 lbs.

**Max. Shipping Dimensions & Weight for 2nd Cabinets (on pallet):**
- 160" L x 90" W x 79" H
- 1950-3900 lbs.

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

**Options:**
- DX, heat pump, or chilled water cooling coil
- Modulating hot gas reheat
- Steam or hot water coil, gas heat module or electric heater
- Onboard variable frequency drives (VFDs) - both airstreams
- Fused disconnect
- Spring isolators (VFDs only)
- 2" Double wall foam injected 20 gauge galvanized panel construction with R13.0 insulation
- Exterior paint - grey, white, custom color
- BACNET factory activation
- GFCI convenience outlet
- Recirculation damper
- Drain overflow switch
- Electrofit coating for coils

**Accessories:**
- Filters - MERV 13, 2" and 4" (shipped loose), MERV 14, 2" and 4" (shipped loose)
- Additional filters available upon request
- Duct mounted electric pre-heater (separately powered)
- Carbon dioxide sensor/control - wall mount (CO2-W), duct mount (CO2-D)
- IA sensor - wall mount (IA-W), duct mount (IA-D)
- Motion occupancy sensor/control - ceiling mount (MC-C), wall mount (MC-W)
- Smoke detector
- Room temperature and humidity sensor
- Duct static pressure sensor with display to 10", without display 0-2"
- Room pressure sensor with display to 1", without display 0-1"
- Waterless trap negative pressure
- Waterless trap positive pressure
- Remote display

**INTERNAL OPTIONS FOR HEATING AND COOLING**

**ERV - Energy Recovery Ventilator**
**EH - Electric Heater**
**CC - Cooling Coil**
**HC - Heating Coil**
**GH - Gas Heat Module**
**HGRH - Hot Gas Reheat Coil**
**BT - Blow Thru**
**DT - Draw Thru**

**ERV only**
**ERV + EH (BT)**
**ERV + GH (BT)**
**ERV + CC/HC (BT)**
**ERV + CC + HGRH (BT)**
**ERV + CC + HC (BT)**
**ERV + CC + HGRH + HC (BT)**
**ERV + CC + HC + HGRH + HC (BT)**

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

<table>
<thead>
<tr>
<th>Motor Qty/kW or HP</th>
<th>Volts</th>
<th>Frequency</th>
<th>Phase</th>
<th>Min. Cir. Amps.</th>
<th>Max. Overcurrent Protection Device</th>
<th>FLA per motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 @ 2.70 kW ea.</td>
<td>200-240</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>19.4</td>
<td>25</td>
<td>8.6-7.2</td>
</tr>
<tr>
<td>2 @ 3.70 kW ea.</td>
<td>380-480</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>13.5</td>
<td>15</td>
<td>6.0-4.6</td>
</tr>
<tr>
<td>VFD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 @ SHP ea.</td>
<td>208-230</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>31.3</td>
<td>45</td>
<td>13.9-13.4/6.7</td>
</tr>
<tr>
<td>2 @ SHP ea.</td>
<td>460</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>15.1</td>
<td>20</td>
<td>6.7</td>
</tr>
<tr>
<td>2 @ SHP ea.</td>
<td>575</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>11.9</td>
<td>15</td>
<td>5.3</td>
</tr>
</tbody>
</table>

**Note:** Electrical data shown is for a standard unit without cooling and heating. Refer to cores.renewaire.com for project specific submittal for electrical data for the specific unit with all included options.

**AIRFLOW PERFORMANCE**

**CORE PERFORMANCE**

Airflow (CFM)

Effectiveness (%)

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

**AIRFLOW PERFORMANCE**

**DN-3 200-240V 3P EC**

**DN-3 230/460/575V 3P AC**

**DN-3 380-480V 3P EC**
Dimension drawings for the DN depict largest cabinet size available. Refer to CORES.RenewAire.com for project specific unit drawings.
Dimension drawings for the DN depict largest cabinet size available. Refer to CORES.RenewAire.com for project specific unit drawings.
**DN3RT**

**ROOFTOP UNIT**
Dedicated Outside Air System
Unit with Energy Recovery

---

**DN3IN, ERV + CC + HGRH + GH (BT) shown**

Download specification at: renewaire.com/specifications

---

**INTERNAL OPTIONS FOR HEATING AND COOLING**

<table>
<thead>
<tr>
<th>ERV only</th>
<th>ERV + EH (BT)</th>
<th>ERV + GH (BT)</th>
<th>ERV + CC/HC (BT)</th>
<th>ERV + CC + HGRH + HGH (BT)</th>
<th>ERV + CC + HC (BT)</th>
<th>ERV + CC + HGRH + HC (BT)</th>
</tr>
</thead>
</table>

---

**Specifications**

**Specifications & Dimensions**

**Dedicated Outdoor Air System**

**Standard**

**Specifications**

Energy Recovery Type:
Static plate total energy transfer

Typical Airflow Range: 750-3,300 CFM

AHRI 1060 Certified Core:
Three L-125 G5

**Standard Features:**
EC Motors for both airstreams
Direct Drive backward inclined plenum
Higher ESP of up to 2.5" w.g. at 3,000 CFM
Integrated programmable controls
True 100% Face and bypass enthalpy based modulating economizer
Class 1 low leakage motorized isolation dampers
Stainless steel double-sloped drain pan with cooling option
1" Double wall foam injected 20 gauge galvanized panel construction with R6.5 insulation

**Inlets/Outlets:**
OA & RA Inlets: 36" x 16"
SA Outlet: 24" x 16"
EA Outlet: 20" x 16"

**Filters:**
Total qty. 6, MERV 8:
20" x 20" x 2"

**Unit Dimensions & Weight for 1" Cabinets**
174 7/8" L x 106 1/8" W x 75 1/8" H
Max. Shipping Dimensions & Weight for 2"
2350-4375 lbs.

**Max. Shipping Dimensions & Weight for 2" Cabins (on pallet):**
2225-4175 lbs.

**Max. Shipping Dimensions & Weight for 2" Cabinets (on pallet):**
160" L x 90" W x 83" H
2350-4375 lbs.

**Motor(s):**
Qty. 2, Direct drive motorized impeller packages

**Options:**
DX, heat pump, or chilled water cooling coil
Modulating hot gas reheat
Steam or hot water coil, gas heat module or electric heater
Onboard variable frequency drives (VFDs) - both airstreams
Fused disconnect
Spring isolators (VFDs only)
2" Double wall foam injected 20 gauge galvanized panel construction with R13.0 insulation
Exterior paint - grey, white, custom color
Salt spray - 2500 hour
BACNET factory activation
GFCI convenience outlet
Recirculation damper
Drain overflow switch
Mist eliminator
Electrofin coating for coils

**Accessories:**
Filters - MERV 13, 2" and 4" (shipped loose), MERV 14, 2" and 4" (shipped loose)
Additional filters available upon request
Roof curb - standard 14"
Hurricane or seismic rated curbs
Curb clip kit
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
Room temperature and humidity sensor
Duct static pressure sensor with display to 10", without display 0-2"
Room pressure sensor with display to 1", without display 0-1"
Waterless trap negative pressure
Waterless trap positive pressure
Remote display

**Internal Options for Heating and Cooling**

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<th>ERV + CC + HGRH + EH (BT)</th>
<th>ERV + CC + GH (BT)</th>
<th>ERV + CC + HGRH + GH (BT)</th>
<th>ERV + CC + HC (BT)</th>
<th>ERV + CC + HGRH + HC (BT)</th>
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**Specifications**
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Note: Electrical data shown is for a standard unit without cooling and heating. Refer to cores.renewaire.com for project specific submittal for electrical data for the specific unit with all included options.

AIRFLOW PERFORMANCE

DN-3 200-240V 3P EC

DN-3 230/460/575V 3P AC

DN-3 380-480V 3P EC

Specifications may be subject to change without notice.
DN3RT Dedicated Outdoor Air System  Standard 1" Cabinet

ABBRVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply 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. FOR PIPE CONNECTION DETAILS REFER TO CORES OR UNIT SELECTION SUBMITTAL.
4. UNIT, UNIT DOORS, AND COILS CANNOT BE MIRRORED.
5. FOR CURB DETAILS REFER TO CURB DRAWING.
6. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.

AIRFLOW CONFIGURATION
Available as shown:

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched. Duct configuration is field convertible.

Dimension drawings for the DN depict largest cabinet size available.

Refer to CORES.RenewAire.com for project specific unit drawings.
DN3 RT
Dedicated Outdoor Air System Standard 2" Cabinet

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply Air to inside
RA (Floor; Optional)

INSTALLATION ORIENTATION
Unit must be installed in orientation shown.

NOTE
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH. Refer to CORES.RenewAire.com for project specific unit drawings. Dimension drawings for the DN depict largest cabinet size available.

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

3. FOR PIPE CONNECTION DETAILS REFER TO CORES OR UNIT SELECTION SUBMITTAL.

4. UNIT, UNIT DOORS, AND COILS CANNOT BE MIRRORED.

5. FOR CURB DETAILS REFER TO CURB DRAWING.

6. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.

FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEAIRE.COM

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

UNIT MOUNTING & APPLICATION
Must be mounted as shown.
RENEWAIRE.COM  1.800.627.4499

SPECIFICATIONS & DIMENSIONS

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Air streams cannot be switched. Duct configuration is field convertible.

AIRFLOW CONFIGURATION
Available as shown.

DUCT SUPPORT DIMENSIONS
WIDTH: 1 1/2" DEPTH: 3"

SECTION A-A
CURB CROSS-SECTION A-A (TYP.)
1 1/2" x 1/4" Neoprene Gasket
1 1/2" x 3 1/2" Wooden Nailer

16 5/8"  31 1/8"  70 1/8"  31 1/8"
40 1/4"
10 5/8"
132 3/8" I.D.
61 3/8" I.D.
10 5/8"
28 1/4"
16 5/8"
1 1/2" x 1/4"
1 1/2" x 3 1/2"
Neoprene Gasket
Wooden Nailer

RA: Room Air to be exhausted
SA: Supply Air to inside

CURB DN3-ERV+C+H

TOP VIEW
FRONT VIEW
END VIEW

Dimension drawings for the DN depict largest cabinet size available. Refer to CORES.RenewAire.com for project specific unit drawings.

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### Dedicated Outdoor Air System

**Standard**

**New**

**INDOOR UNIT**

Dedicated Outside Air System

Unit with Energy Recovery

### SPECIFICATIONS & DIMENSIONS

**DN5IN**

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

<table>
<thead>
<tr>
<th>ERV</th>
<th>Energy Recovery Ventilator</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH</td>
<td>Electric Heater</td>
</tr>
<tr>
<td>CC</td>
<td>Cooling Coil</td>
</tr>
<tr>
<td>HC</td>
<td>Heating Coil</td>
</tr>
<tr>
<td>GH</td>
<td>Gas Heat Module</td>
</tr>
<tr>
<td>HGRH</td>
<td>Hot Gas Reheat Coil</td>
</tr>
<tr>
<td>BT</td>
<td>Blow Thru</td>
</tr>
<tr>
<td>DT</td>
<td>Draw Thru</td>
</tr>
</tbody>
</table>

**ERV** - Energy Recovery Ventilator

**EH** - Electric Heater

**CC** - Cooling Coil

**HC** - Heating Coil

**GH** - Gas Heat Module

**HGRH** - Hot Gas Reheat Coil

**BT** - Blow Thru

**DT** - Draw Thru

---

**ENERGY RECOVERY TYPE:**

Static plate total energy transfer

**TYPICAL AIRFLOW RANGE:**

1,125-4,950 CFM

**AHRI 1060 CERTIFIED CORE:**

One L-62-GS and four L-125 G5

**STANDARD FEATURES:**

- EC Motors for both airstreams
- Direct Drive backward inclined plenum
- Higher ESP of up to 3" v.g. at 4,500 CFM
- Integrated programmable controls
- True 100% Face and bypass enthalpy based modulating economizer
- Class I low leakage motorized isolation dampers
- Stainless steel double-sloped drain pan with cooling option
- 1" Double wall foam injected 20 gauge galvanized panel construction with R6.5 insulation

**INLETS/OUTLETS:**

OA & RA Inlets: 60" x 16"

SA Outlet: 24" x 16"

EA Outlet: 20" x 32"

**FILTERS:**

Total qty. 10, MERV 8:

16" x 20" x 2"

**BYPASS FILTERS:**

Total qty. 4, MERV 8:

16" x 20" x 2"

**UNIT DIMENSIONS & WEIGHT FOR 1 CABINETS**

174" L x 103 3/4" W x 90 7/8" H

2600-4850 lbs.

**MAX. SHIPPING DIMENSIONS & WEIGHT FOR 1 CABINETS (ON PALLET):**

180" L x 101 1/2" W x 94" H

2850-5100 lbs.

**UNIT DIMENSIONS & WEIGHT FOR 2 CABINETS**

176" L x 105 5/8" W x 90 7/8" H

2725-5050 lbs.

**MAX. SHIPPING DIMENSIONS & WEIGHT FOR 2 CABINETS (ON PALLET):**

180" L x 101 1/2" W x 96" H

2975-5300 lbs.

---

**INTERNAL OPTIONS FOR HEATING AND COOLING**

<table>
<thead>
<tr>
<th>ERV only</th>
<th>ERV + EH (BT)</th>
<th>ERV + GH (BT)</th>
<th>ERV + CC/HC (BT)</th>
<th>ERV + CC/HC (DT)</th>
<th>ERV + CC + HGRH (BT)</th>
<th>ERV + CC + HGRH (DT)</th>
</tr>
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<tr>
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</table>

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<table>
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<th>Motor Qty/kW or HP</th>
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<th>Phase</th>
<th>Min. Cir. Amps.</th>
<th>Max. Overcurrent Protection Device</th>
<th>FLA per motor</th>
</tr>
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<tbody>
<tr>
<td>EC 4 @ 2.70 kW ea.</td>
<td>200-240</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>36.6</td>
<td>45</td>
<td>8.6-7.2</td>
</tr>
<tr>
<td>EC 4 @ 3.70 kW ea.</td>
<td>380-480</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>25.5</td>
<td>30</td>
<td>6.0-4.6</td>
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<tr>
<td>VFD 4 @ SHP ea. 1</td>
<td>208-230</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>59.1</td>
<td>70</td>
<td>13.9-13.4/6.7</td>
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<tr>
<td>VFD 4 @ SHP ea. 2</td>
<td>460</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>28.5</td>
<td>35</td>
<td>6.7</td>
</tr>
<tr>
<td>VFD 4 @ SHP ea. 3</td>
<td>575</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>22.5</td>
<td>25</td>
<td>5.3</td>
</tr>
</tbody>
</table>

**Note:** Electrical data shown is for a standard unit without cooling and heating. Refer to cores.renewaire.com for project specific submittal for electrical data for the specific unit with all included options.

---

**AIRFLOW PERFORMANCE**

**CORE PERFORMANCE**

![Graph of Airflow (CFM) vs. Effectiveness (%)](image)

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

**AIRFLOW PERFORMANCE**

---

**DN-5 200-240V 3P EC**

![Graph of External Static Pressure (in. w.g.) vs. Air Flow (cfm)](image)

**DN-5 380-480V 3P EC**

![Graph of External Static Pressure (in. w.g.) vs. Air Flow (cfm)](image)

**DN-5 230/460/575V 3P AC**

![Graph of External Static Pressure (in. w.g.) vs. Air Flow (cfm)](image)
SPECIFICATIONS & DIMENSIONS

**Dedicated Outdoor Air System Standard 1" Cabinet**

Dimension drawings for the DN depict largest cabinet size available. Refer to CORES.RenewAire.com for project specific unit drawings.

---

**ABBREVIATIONS**

- **OA**: Outside Air intake
- **OA Damper**: (Roof; Optional)
- **SA**: Supply Air to inside
- **SA Damper**: (Floor; Optional)
- **RA**: Room Air to be exhausted
- **RA Damper**: (Roof; Optional)

**INSTALLATION ORIENTATION**

- **60" x 16" Duct Flange**
- **Unit must be installed in orientation as shown.**
- **Refer to CORES.RenewAire.com for project specific unit drawings.**
- **Dimension drawings for the DN depict largest cabinet size available.**

**UNIT MOUNTING & APPLICATION**

- **Coil Options**: DX, CW, HGRH
- **Heat Options**: HW, Electric, Gas, Steam
- **Duct configuration is field convertible.**
- **Unit must be installed as shown.**
- **Airstreams cannot be switched.**

**AIRFLOW CONFIGURATION**

- **Available as shown:**
- **Right View**
- **Front View**
- **Left View**
- **Back View**

---

**RENEWAIRE.COM  1.800.627.4499**
**Dedicated Outdoor Air System Standard 2**

**DN5N**

Dimension drawings for the DN depict largest cabinet size available. Refer to CORES.RenewAire.com for project specific unit drawings.

**ABBREVIATIONS**

- 36" Minimum Service Area
- 22 3/4" EA: Exhaust Air to outside Service Area
- 32" x 20" Duct Flange
- 34" SA: Supply Air to inside
- 94 7/8" OA Damper (Roof; Optional)
- 45 1/2" 60" x 16" Duct Flange
- 53 3/8" RA (Floor; Optional)
- 168" Minimum Service Area
- 105 5/8" Overall
- 93" DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

**NOTE**

1. UNLESS OTHERWISE SPECIFIED, Overall Dimensions are rounded to the nearest eighth of an inch.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. FOR PIPE CONNECTION DETAILS REFER TO CORES OR UNIT SELECTION SUBMITTAL.
4. UNIT, UNIT DOORS, AND COILS CANNOT BE MIRRORED.
5. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SPECIFICAL.

**UNIT MOUNTING & APPLICATION**

Must be mounted as shown. Duct configurations are field convertible.

**AIRFLOW CONFIGURATION**

Available as shown:

**FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEAIRE.COM**
DN3N, ERV + CC + HGRH + GH (BT) shown

Download specification at:
renewaire.com/specifications

**Internal Options for Heating and Cooling**

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<th>Option</th>
<th>Description</th>
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<td>ERV + GH (BT)</td>
<td>Gas Heat Module</td>
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<td>ERV + CC/HC (BT)</td>
<td>Cooling Coil</td>
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<tr>
<td>ERV + CC + HGRH (BT)</td>
<td>Hot Gas Reheat Coil</td>
</tr>
<tr>
<td>ERV + CC + HGRH + GH (BT)</td>
<td>Hot Water Coil</td>
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<tr>
<td>ERV + CC + CC/HC (DT)</td>
<td>Direct Expansion Coil</td>
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<td>ERV + CC + CC + HGRH (DT)</td>
<td>Expansion &amp; Hot Gas Reheat Coil</td>
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<td>460</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>28.5</td>
<td>6.7</td>
</tr>
<tr>
<td></td>
<td>4 @ 5HP ea.</td>
<td>575</td>
<td>50/60 Hz</td>
<td>Three</td>
<td>22.5</td>
<td>5.3</td>
</tr>
</tbody>
</table>

Note: Electrical data shown is for a standard unit without cooling and heating. Refer to cores.renewaire.com for project specific submittal for electrical data for the specific unit with all included options.

AIRFLOW PERFORMANCE

FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEAIRE.COM
ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply 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. FOR PIPE CONNECTION DETAILS REFER TO CORES OR UNIT SELECTION SUBMITTAL.
4. UNIT, UNIT DOORS, AND COILS CANNOT BE MIRRORED.
5. FOR CURB DETAILS REFER TO CURB DRAWING.
6. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.

AIRFLOW CONFIGURATION
Available as shown:

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams cannot be switched. Duct configuration is field convertible.
DN5RT  Dedicated Outdoor Air System  Standard 2" Cabinet

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply 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.
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6. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.

FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEWAIRE.COM

AIRFLOW CONFIGURATION
Available as shown:

UNIT MOUNTING & APPLICATION
Must be mounted as shown. Airstreams can not be switched. Duct configuration is field convertible.
Dimension drawings for the DN depict largest cabinet size available. Refer to CORES.RenewAire.com for project specific unit drawings.
FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEWAIRE.COM

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OPTIONS & ACCESSORIES

OPTIONS

See individual submittal pages for availability by model.

ELECTRICAL

- Disconnect fuses
- Independent blower control (IBC)

VARIABLE FREQUENCY DRIVE

- Factory supplied and mounted variable frequency drives (VFDs) - both airstreams
- Separate VFD for each airstream
- Display/control in electrical box - can be remotely mounted
- Pre-programmed speeds or variable speed
- Shaft grounding ring on motors with VFDs

EXTERIOR PAINT 2500 HR. SALT SPRAY RATED

- White, grey and custom colors available

BACNET FACTORY ACTIVATION

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

Specifications may be subject to change without notice.
OPTIONS

See individual submittal pages for availability by model.

**GFCI CONVENIENCE OUTLET**

- 120 VAC GFCI outlet mounted to the exterior of unit
- Requires a field provided dedicated 120V single phase electric circuit

**RECIRCULATION DAMPER**

- For unoccupied mode operation
- Internal to unit
- Unit mounted controls actuator

**DRAIN OVERFLOW SWITCH**

- For condensate overflow prevention
- A pull-to-test level for verifying correct installation

**MIST ELIMINATOR**

- 3/8" bonded aluminum mesh screen
- Removes moisture from mist

Specifications may be subject to change without notice.
FEATURES

DN SERIES CONTROLS

Integrated Programmable Controls

RenewAire’s INTEGRATED PROGRAMMABLE CONTROLS optimize the usability and performance of our commercial DOAS units 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 DOAS units with Direct Digital Control (DDC) and/or Building Management System (BMS) control interface.

KEY BENEFITS

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

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

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

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

OPTIONS & ACCESSORIES

<table>
<thead>
<tr>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO₂ sensor (wall or duct mount)*</td>
</tr>
<tr>
<td>IAQ sensor (wall or duct mount)*</td>
</tr>
<tr>
<td>Occupancy sensor (ceiling or wall mount)</td>
</tr>
<tr>
<td>Smoke detector (duct mount)</td>
</tr>
<tr>
<td>BACnet factory activation (MS/TP or TCP/IP)</td>
</tr>
<tr>
<td>Remote display (handheld or wall mount)</td>
</tr>
<tr>
<td>Room Pressure Sensor (with or without display)</td>
</tr>
<tr>
<td>Duct Static Pressure Sensor (with or without display)</td>
</tr>
<tr>
<td>Temperature Sensor Kit (wall or duct mount)**</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.
## DN SERIES CONTROLS

### Integrated Programmable Controls Continued

#### FEATURES

| Ability to automatically enable and disable unit |
| Enable the exhaust fan only |
| Filter alarm for both sets of filters |
| Bypass controls |
| Control isolation dampers |
| Supply fan modulation for EC or VFD |
| Exhaust fan modulation for EC or VFD |
| Internal time clock |
| Defrost controls - Canada only |
| Smoke detection - sensor required |
| Demand control ventilation using CO2 - sensor required |
| Occupancy-based ventilation - sensor required |
| IAQ control ventilation using VOC - sensor required |
| Microprocessor controller |
| Provide supply and exhaust air temperatures |
| Provide outside and return air temperature and humidity |
| Fan status on both fans |
| Enable the supply fan only |
| Enable the exhaust fan only |
| Micro USB port |
| BACnet MS/TP or BACnet TCP/IP - activation required |
| RTU or Modbus TCP |
| Data trending |
| Outside airflow rate |
| Exhaust airflow rate |
| Duct pressure control |
| Unit supply air temp |
| Heating enable |
| Heating modulation - staged or modulating |
| Cooling modulation - staged or modulating |
| Recirculation |

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

**Controls**

All DN models come complete with Carel Integrated Programmable Controls with BMS connectivity allowing for automated control of the unit, including temperature/humidity, airflow, IAQ monitoring, CO2 demand control, cooling/dehumidification control and various heating options.

**CO2 SENSORS**

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

**IAQ SENSORS**

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

**MOTION OCCUPANCY SENSORS**

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

**SMOKE DETECTOR**

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

Specifications may be subject to change without notice.
ACCESSORIES

Controls Continued

ROOM TEMPERATURE AND HUMIDITY SENSOR
- Ultra fast response cross-linked bulk polymer capacitive sensing element
- NIST traceable ± 2% RH and ± 0.1% RTD accuracy
- Proprietary hydrophobic & oleophobic ePTFE filter to protect the sensing element from condensation, fog, salt, air, pollutants other contaminants

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

PRESSURE SENSORS (DUCT MOUNT ONLY)
- 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

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

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

ACCESSORIES

See individual submittal pages for availability by model.

MERV13 FILTERS
- Extended-surface pleated media filter
- Electrostatically-charged 100% synthetic media
- 2” and 4” depths
- Heavy-duty moisture-resistant construction

MERV14 FILTERS
- Extended-surface pleated media filter
- Electrostatically-charged 100% synthetic media
- 2” and 4” depths
- Heavy-duty moisture-resistant construction

HURRICANE OR SEISMIC RATED CURBS
- Unit to curb attachment brackets
- Stamped/Signed curb calculations by State Licensed PE

CURB CLIP KIT
- Engineered, convenient and weather tight method to attach unit to roof curb
- Suitable for most applications in all climates with basic wind speeds up to 90 MPH

WATERLESS TRAP NEGATIVE PRESSURE
- For condensate drain lines under negative pressure
- Allows liquid condensate to drain from unit while simultaneously preventing air from entering or escaping the unit
- Allows centerline distance between unit drain connection and trap to be the same
- Installs horizontally

WATERLESS TRAP POSITIVE PRESSURE
- For condensate drain lines under positive pressure
- Prevents air from entering or escaping the unit
- Allows water to drain from the unit
- Trap operates dry when no water removal required and wet when required
- Installs vertically

Specifications may be subject to change without notice.
AHRI 1060
CERTIFIED PERFORMANCE

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

### 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</td>
<td>0.65 in. H₂O</td>
</tr>
</tbody>
</table>

#### Leakage Ratings

**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>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>49%</td>
<td>58%</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></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### AHRI-1060 Certified Performance - Model Number L62-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% - 350 SCFM</td>
<td>0.65 in. H₂O</td>
</tr>
</tbody>
</table>

#### Leakage Ratings

**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>350 Heating CFM</td>
<td>70%</td>
<td>52%</td>
<td>64%</td>
<td>350 CFM</td>
<td>70%</td>
<td>52%</td>
<td>64%</td>
</tr>
<tr>
<td>0 in. H₂O</td>
<td>0.0%</td>
<td>1.02</td>
<td>N/A</td>
<td>263 Heating CFM</td>
<td>74%</td>
<td>49%</td>
<td>58%</td>
<td>263 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></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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
**DN SERIES MODEL CONFIGURATION GUIDE**

Note: Not all options are available on every model.

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
<th>20</th>
<th>21</th>
<th>22</th>
<th>23</th>
<th>24</th>
<th>25</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Digits 1-5:</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;DN-2-&quot; = 1,650 CFM</td>
<td></td>
</tr>
<tr>
<td>&quot;DN-3-&quot; = 3,300 CFM</td>
<td></td>
</tr>
<tr>
<td>&quot;DN-5-&quot; = 4,950 CFM</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 6:</th>
<th>Exchanger Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;J&quot; = GS Core</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digits 7-8:</th>
<th>Location (see Restriction 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;IN&quot; = Indoor</td>
<td></td>
</tr>
<tr>
<td>&quot;RT&quot; = Rooftop</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 9:</th>
<th>SA Fan Location (See Restrictions 17 &amp; 18)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;B&quot; = Before Coil (Standard)</td>
<td></td>
</tr>
<tr>
<td>&quot;A&quot; = After Coil</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 10:</th>
<th>Orientation</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Digit 11:</th>
<th>Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;1&quot; = 1 inch</td>
<td></td>
</tr>
<tr>
<td>&quot;2&quot; = 2 inch with Thermal Break</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 12:</th>
<th>Phase (see Restriction 14)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;1&quot; = Single Phase</td>
<td></td>
</tr>
<tr>
<td>&quot;3&quot; = Three Phase</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 13:</th>
<th>Voltage (see Restrictions 2 &amp; 7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;3&quot; = 208V</td>
<td></td>
</tr>
<tr>
<td>&quot;4&quot; = 460V</td>
<td></td>
</tr>
<tr>
<td>&quot;5&quot; = 230V</td>
<td></td>
</tr>
<tr>
<td>&quot;8&quot; = 575V</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Digit 16:</th>
<th>Cooling</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;*&quot; = None</td>
<td></td>
</tr>
<tr>
<td>&quot;C&quot; = Chilled Water</td>
<td></td>
</tr>
<tr>
<td>&quot;D&quot; = Direct Expansion</td>
<td></td>
</tr>
<tr>
<td>&quot;H&quot; = Heat Pump</td>
<td></td>
</tr>
<tr>
<td>&quot;P&quot; = Heat Pump + Hot Gas Reheat (HGRH)</td>
<td></td>
</tr>
<tr>
<td>&quot;R&quot; = Direct Expansion + Hot Gas Reheat (HGRH)</td>
<td></td>
</tr>
</tbody>
</table>

*NOTES: Digits 3, 5, 14, 15, 22 & 23 are unused in this model.*

**Restrictions:**

1. Location Code "RT" only available with Orientation Codes "H", "V", "R" & "P".
2. Voltage Code "4" & "8" only available with Phase Code "3".
3. Heating Code "P" only available and must be selected with Cooling Codes "H" or "P".
4. Heater Size Option only available with Heating Codes "E" & "G".
5. Fan Control Code "E" only available with Voltage Codes "3", "4" and "5".
6. Fan Control Code "V" only available with Phase Code "3".
7. Voltage Code "8" only available with Fan Control "V".
8. Heater Size Codes "B" and "F" are not available when Model Code is "DN-2-" and Heating Code is "E".
9. Heater Size Codes "B" and "F" are not available when Model Code is "DN-3-" or "DN-5-" and Unit Voltage Code is "3" or "5" and Fan Control Code is "V" and Heating Code is "E".
10. Heater Size Code "F" is not available when Model Code is "DN-3-" or "DN-5-" and Unit Voltage Code is "3" or "5" and Fan Control Code is "E" and Heating Code is "E".
11. Heater Size Code "F" is not available when Model Code is "DN-5-" and Unit Voltage Code is "3" or "5" and Fan Control Code is "V" and Heating Code is "E".
12. Heater Size Codes 5, 6, and 7 are not available when Model Code is "DN-2-" and Heating Code is "G".
13. Heater Size Codes 5, 6, and 7 are not available when Model Code is "DN-3-" or "DN-5-" and Heating Code is "E".
14. Phase Code "1" only available with Model Code "DN-2-".
15. Heating Code "E" not available with Phase Code "1".
16. Some units with Customization Code "X" are not Safety Listed.
17. SA Fan Location Code "A" is not available when no coils are selected.
18. SA Fan Location Code "B" is not available when only coils are selected for Heating and Cooling and Orientation Codes are "B", "D", "F", "J", "K", "N", "P" or "V".

**DN-Series Configuration Code Chart**

For Technical Support E-mail: RenewaireSupport@renewaire.com
To Place an Order E-mail: RenewaireOrders@renewaire.com
DN SERIES MODEL
CONFIGURATION GUIDE

Note: Not all options are available on every model.

Configuration Guide Continued

<table>
<thead>
<tr>
<th>Digit Number</th>
<th>Model Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restrictions:</td>
<td>Digits 7-8:</td>
</tr>
<tr>
<td>17: SA Fan Location Code &quot;A&quot; is not available when no coils are selected.</td>
<td></td>
</tr>
<tr>
<td>16: Some units with Customization Code &quot;X&quot; are not Safety Listed.</td>
<td></td>
</tr>
<tr>
<td>15: For Cooling Codes &quot;D&quot; &amp; &quot;R&quot;, the Direct Expansion coil must be placed in position 1.</td>
<td></td>
</tr>
<tr>
<td>14: For Cooling Codes &quot;D&quot; &amp; &quot;R&quot;, the Direct Expansion coil must be placed in position 1.</td>
<td></td>
</tr>
<tr>
<td>13: Coil Position 3 only available when 3 coils have been specified.</td>
<td></td>
</tr>
<tr>
<td>12: Coil Position 2 only available when 2 or 3 coils have been specified.</td>
<td></td>
</tr>
<tr>
<td>11: If only one coil is selected, it must be placed in position 1.</td>
<td></td>
</tr>
<tr>
<td>10: Interlaced 2 Circuits Coil Style only available with Direct Expansion Coil or Heat Pump Coil.</td>
<td></td>
</tr>
<tr>
<td>9: Gas derating question only applies for elevations above 2000'.</td>
<td></td>
</tr>
<tr>
<td>8: Heater Size Option only available with Heating Codes &quot;E&quot; &amp; &quot;G&quot;.</td>
<td></td>
</tr>
<tr>
<td>7: Voltage Code &quot;8&quot; only available with Fan Control &quot;V&quot;.</td>
<td></td>
</tr>
<tr>
<td>6: Voltage Code &quot;4&quot; &amp; &quot;8&quot; only available with Phase Code &quot;3&quot;.</td>
<td></td>
</tr>
<tr>
<td>5: Fan Horsepower 5 only available in Model Codes &quot;DN-3-&quot; &amp; &quot;DN-5-&quot;.</td>
<td></td>
</tr>
<tr>
<td>4: Fan Horsepower 4 only available in Model Codes &quot;DN-2-&quot;.</td>
<td></td>
</tr>
<tr>
<td>3: Vibration Isolation only available with Fan Control Code &quot;V&quot;.</td>
<td></td>
</tr>
<tr>
<td>2: Fan Horsepower only available with Fan Control Code &quot;F&quot;.</td>
<td></td>
</tr>
<tr>
<td>1: Fan kW only available with Fan Control Code &quot;E&quot;.</td>
<td></td>
</tr>
</tbody>
</table>

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

DN-Series Configuration Code Chart

FOR THE MOST COMPLETE AND CURRENT INFORMATION VISIT RENEAIRE.COM
Increasing the ventilation in buildings can provide numerous benefits to indoor air quality. Here are some key points:

- **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.

In addition to improved indoor air quality, increased ventilation can lead to:

- **Better Health**
- **Improved Cognitive Function**
- **Increased Productivity**

**ORDERING & SUPPORT**

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

**CONTACT RENEWAIRE**

**PHONE:** 1.800.627.4499

**FAX:** 608.221.2824

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

**TO PLACE AN ORDER:**
RenewaireOrders@renewaire.com
EVERY GEOGRAPHIC REGION
Our ERVs function perfectly across the world in every geographic region.

EVERY CLIMATE
Our ERVs operate in every climate—from Alaska to Florida, and everywhere in between.

EVERY PROJECT
From massive skyscrapers to cozy residential homes, our ERVs can be used in every size project and in every code jurisdiction.

RELEVANT EVERYWHERE
RESIDENTIAL
The increased airtightness of newer and remodeled homes is causing deficient IAQ, resulting in more health problems for indoor occupants.

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

HEALTHCARE
The high occupant density of hospitals, nursing homes and other healthcare facilities results in deficient IAQ and ensuing health problems for patients and staff alike.

RESTAURANTS/COFFEE SHOPS
The large volume of indoor occupants in restaurants and coffee shops causes deficient IAQ and subsequent health problems.

RETAIL
The high level of foot traffic in retail stores leads to deficient IAQ and the potential sickness of shoppers, which can negatively impact sales.

DAYCARE
Crowded daycare facilities breed deficient IAQ, thus causing health problems for everyone—especially children who are more vulnerable.

EDUCATION (LOWER AND HIGHER)
With students and teachers packed into tight classrooms, instances of deficient IAQ go up, resulting in academic performance and test scores going down.

GOVERNMENT
Aging and crowded government buildings result in deficient IAQ, which can impair worker performance and productivity.

EVERY TYPE OF BUILDING
Every type of building can benefit from the enhanced IAQ generated by RenewAire ERVs, including veterinary clinics, nail salons and manufacturing facilities, among others.

APPLIED EVERYWHERE
When indoor occupants breathe in unclean air, this harms their health and causes cognitive impairment. Our ERVs can provide cleaner and healthier indoor air for every type of building in the world, thus improving occupants’ wellbeing, while also reducing energy costs.
RenewAire 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.