NEW!

DOAS

DN SERIES

WITH INTEGRATED REFRIGERATION & ENERGY RECOVERY

• 375–4,950 CFM
• Outdoor
• Low dewpoint conditions

RenewAire®
Energy Recovery Ventilation
DOAS WITH INTEGRATED REFRIGERATION & ENERGY RECOVERY

DOAS TECHNOLOGY
- Enhance IAQ
- Reduce energy consumption
- Optimize ventilation strategy
- Downsize HVAC equipment
- Decrease capital costs
- Greater operating savings
- Improve humidity control
- Increase system flexibility
- Meet all ASHRAE 90.1 requirements
- 100% outdoor air with no recirculation

DOAS TECHNOLOGY BENEFITS
- Configurable unitary-platform design
- Single-source responsibility
- Streamlined design-to-purchase-to-installation process
- Ability to reach 49°F dewpoint conditions (53°F standard)
- Shorter lead times compared to other products
- One of the most energy-efficient DOAS on the market

DN SERIES WITH ENERGY RECOVERY
RenewAire’s DOAS effectively conditions outdoor air with efficient and sustainable technology. By enabling HVAC units to operate independently, depending on building load, our DOAS unit with fixed-plate energy recovery, innovative cooling and heating features and hot-gas reheat will optimize your ventilation strategy, downsize equipment, decrease capital costs and realize significant operating savings.

NEW! INTEGRATED REFRIGERATION FEATURES & SPECIALTIES
- High-efficiency variable speed compressor
- Electronic expansion valve
- Refrigeration specialties
- High-efficiency variable speed condenser fan
- Filter drier
- Sight glass
- Hot gas reheat coil and control valve (option)
- Suction line accumulator with hot gas reheat

APPLICATION STRATEGIES
TERMINAL UNIT SYSTEMS

DOAS AIR SUPPLIED TO INTAKES OF TERMINAL UNITS

DOAS DIRECT TO ZONE WITH ROOFTOP/CENTRAL AHU
## TONNAGE RANGE

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<th>UNIT</th>
<th>DN-2</th>
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<td>Airflow (CFM)</td>
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<td>375–4,950 CFM</td>
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<td>Capacity (Tons)</td>
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<td>UNIT</td>
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<td>DN-3</td>
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<td>Airflow (CFM)</td>
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## UNIT

- **Installation Location**: Outdoor
- **Airflow Orientation**: Vertical/Horizontal
- **Available Voltages**: 208-230V 3P (all); 460V 3P (all); 575V (all)
- **Energy Recovery**: Renewable enthalpic static-plate 95
- **Internal Bypass of Energy Recovery**: Yes
- **Refrigerant**: R410A

## CABINET

- **Wall Construction**: 1” or 2” double-wall, injected foam panels (2” optional)
- **Insulation**: 1” R-6.5 or 2” R-13.0
- **Panels with Thermal Break**: Available on 2” double-wall units
- **Supply Blower**: High-efficiency plenum fans
- **Supply Fan Type**: Direct-drive
- **Supply Fan Speed Control**: ECM/VFD (optional)
- **Supply Fan Vibration Isolation**: Neoprene/spring (VFD only)
- **Supply/Exhaust Fan Motor HP (kW)**:
  - 200–240V 3P: 2.70 kW, 2.70 kW, 2.70 kW x2
  - 380–480V 3P: 3.70 kW, 3.70 kW, 3.70 kW x2
  - 575V 3P: 5 HP, 5 HP, 5 HP x2
  - VFD: 3 HP, 3 HP, 5 HP x2
- **Unit ESP**: 2” WC at 1,500 CFM, 2.5” WC at 3,000 CFM, 3” WC at 4,500 CFM

## COOLING/HEATING

- **Cooling Coil**: Direct expansion, chilled water (optional)
- **Heating Section**: Electric heat (SCR), indirect gas furnace (5:1, 10:1 modulation), hot water, steam (optional)
- **Hot Gas Reheat**: Modulating (optional)
- **Economizer/Defrost Capability**: Modulating
- **Microprocessor Controller**: Integrated programmable controller
- **Control Hardware**: Carle c.pCO mini
- **Optional Communications**: BACom MS/IP or IP, Modbus RTU, or TCP
- **Airflow Monitoring**: Yes
- **Recirculation Mode**: Yes (optional)
- **GFCI Convenience Outlet**: 120 VAC, 20A (field powered)
- **Roof Curbs**: 14’ height
- **Seismic and Wind-Rated Curbs**: Yes
- **MERV 8 (2” only), 13 and 14 Filters**: Available in 2” and 4”
- **Mist Eliminator**: 3/8”
- **Drain Overflow Switch**: Yes
- **Coil Coatings**: Yes

## OPTIONS

- **GFCI Convenience Outlet**: 120 VAC, 20A (field powered)
- **Roof Curbs**: 14’ height
- **Seismic and Wind-Rated Curbs**: Yes
- **MERV 8 (2” only), 13 and 14 Filters**: Available in 2” and 4”
- **Mist Eliminator**: 3/8”
- **Drain Overflow Switch**: Yes
- **Coil Coatings**: Yes

* Data derived from internal calculations

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*Economizer/Defrost Capability: Modulating OR Modulating (optional)
*Microprocessor Controller: Integrated programmable controller
*Control Hardware: Carle c.pCO mini
*Optional Communications: BACom MS/IP or IP, Modbus RTU, or TCP
*Airflow Monitoring: Yes
*Recirculation Mode: Yes (optional)
### Tonnage Range

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### Theoretical ISMRE*

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