

ComfortDRY+  
ERV SERIES

NOVELAIRE  
Creating the Great Indoors™

## Energy Efficient 100% Dedicated Outside Air System Advanced Humidity Control

The ComfortDry+ ERV unit is a highly efficient dedicated outside air unit that combines the benefits of desiccant based dehumidification with energy recovery ventilation. Outside air is tempered in the ERV section and then dehumidified with a cooling coil followed by further dehumidification with a desiccant wheel. Waste condenser heat from the DX circuit is used to regenerate the desiccant wheel. This allows

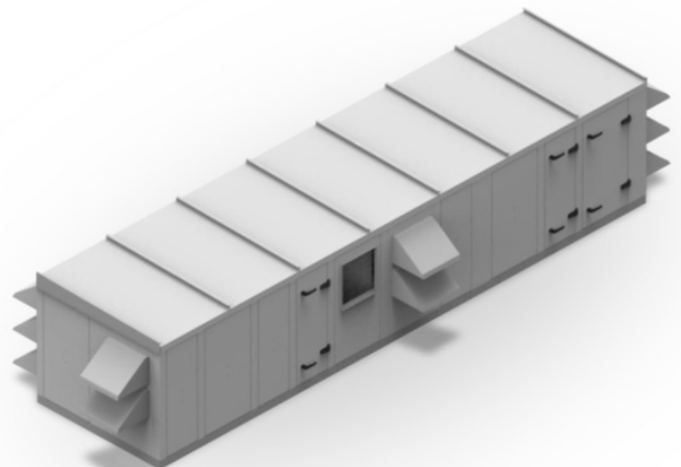
the CD+ ERV units to provide lower discharge dewpoints (typically less than 45F) vs. a traditional energy recovery unit. In winter, the CD+ ERV section recovers the energy exhausted from the building to aid in preheating the incoming outside air before sending downstream to an additional heating source. Optional electric, gas, and hot water post heating packages are also available.

### FEATURES:

- Provides up to 100% OA to the space at dew points <45°F
- Flexible sizing, 2000 - 15,000 CFM units
- Quality, double-wall cabinet construction
- Independent humidity control
- AHRI certified energy recovery wheel
- Proprietary NovelAire desiccant wheel

### BENEFITS:

- DX cooling combined with a desiccant wheel achieves lower supply air dewpoints — no reheat penalty
- Recovered condenser heat is used for desiccant reactivation for energy savings
- Helps to prevent mildew & dust mite growth
- Helps to preserve buildings by reducing moisture & condensation
- Delivers a comfortable, cool and dry environment in both summer and winter



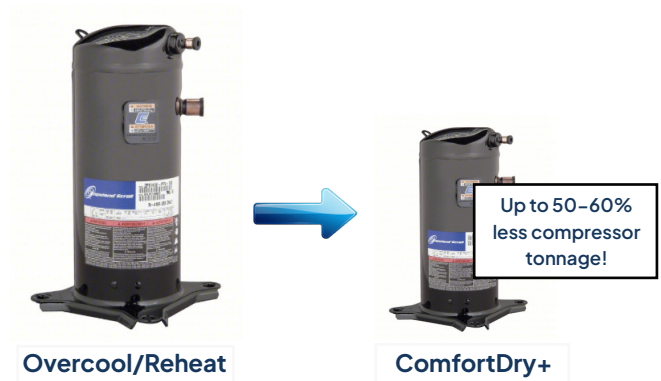
The **ComfortDry+ ERV** unit sizes range from 2,000 to 15,000 cfm.

# HOW IT WORKS

## COMFORTDRY+ ERV UNIT:

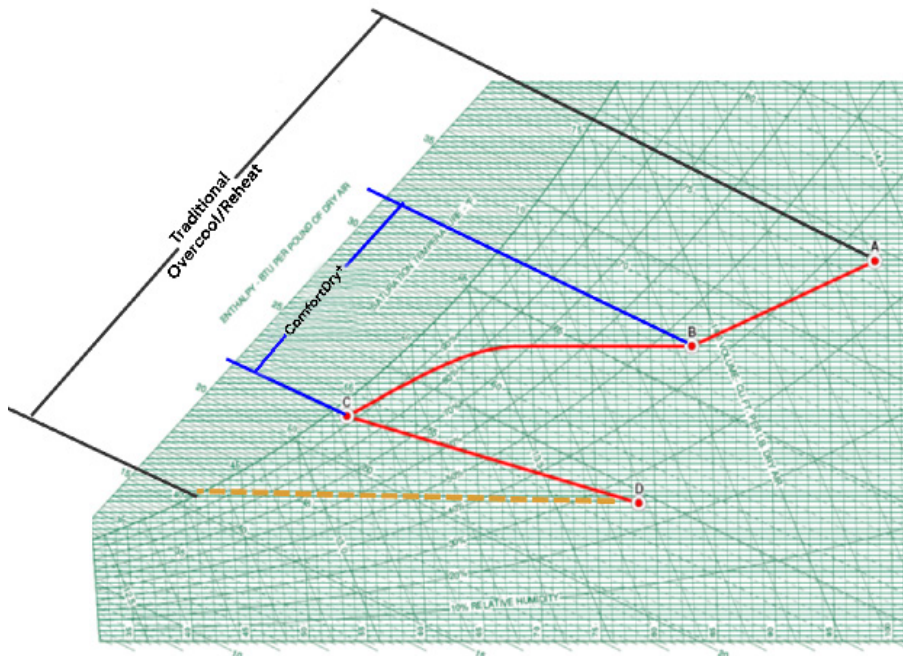
- **Energy Recovery Wheel** - Exchanges enthalpy between outdoor and exhaust air
- **Dehumidification Section** - Cooling coil plus desiccant wheel for low dewpoint air
- **Energy Efficiency** - ERV section tempers outdoor air to reduce and simplify DX requirements for dehumidification
- **Superior Performance** - Desiccant wheel after DX section achieves lowest supply air dewpoints with significantly less energy than overcool/reheat methods
- **Flexible Operation** - DX section operates independently in recirculating dehumidification mode when ventilation air isn't required, significant energy savings through unoccupied mode to maintain space latent load

## Energy Savings AC Tons Comparison



Basis: 4000 cfm, 95/78wb outside air, 78/45DP supply air

## THE PERFORMANCE ADVANTAGE - COMFORTDRY +



Using an Energy Recovery Wheel in conjunction with waste condenser heat to reactivate a desiccant wheel uses up to 50-60% less compressor capacity than traditional overcool/reheat methods.

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