

ComfortDRY  
DOAS SERIES

NOVELAIRE  
Creating the Great Indoors™

## Energy Efficient Low Dew Point Ventilation Air **Advanced Humidity Control**

The ComfortDRY DOAS Series of desiccant based dehumidifiers are designed to deliver ventilation air at dewpoints well below 45°F with minimal energy consumption. Typical applications include:

- Supermarkets
- Food processing
- Health care facilities
- Industrial production plants
- Pharmaceutical manufacturing
- Education facilities: schools and universities

The ComfortDRY DOAS units have the ability to deliver low supply air dewpoints with less energy usage when compared to traditional overcool/reheat equipment.

### FEATURES:

- Delivers low dewpoint make up air – well below 45°F
- Two DX circuits, one variable capacity; 454B
- 30% less compressor capacity than typical overcool and reheat units
- Low maintenance direct drive ECM fan arrays
- Proprietary low temp regenerated desiccant wheel
- Pre-painted G90, double wall, 2", R13 insulated
- Complete onboard controls with BMS interface and touchscreen
- Provides for independent humidity control
- Curb mount or pad mount
- Single-point power connection with unit mounted disconnect
- ETL listed

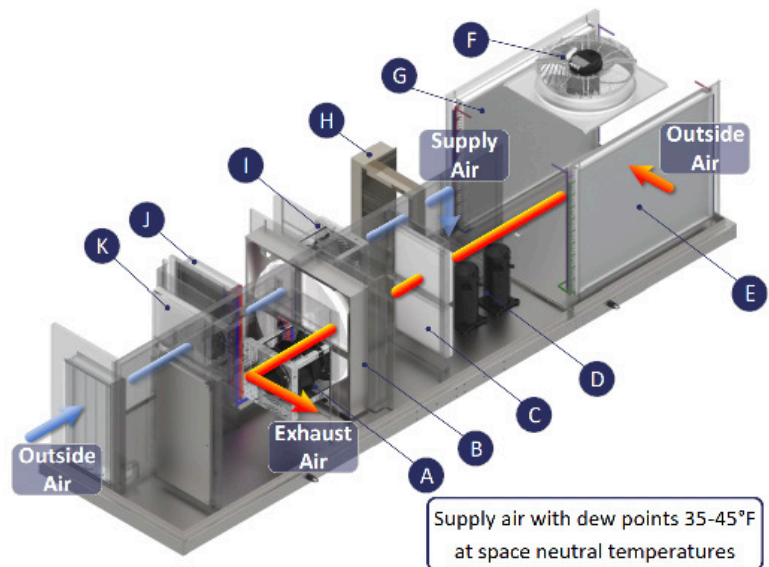


The **ComfortDRY DOAS** unit sizes range from 2,000 to 15,000 cfm.

# HOW IT WORKS

## COMFORTDRY DOAS UNIT:

Two DX circuits are used, one with variable capacity, to precool outside air down to a saturated condition. The cool saturated air then passes through the desiccant wheel where it is further dehumidified to the set point, supplying air to the space at dewpoints significantly below 45°F if required. Waste heat from the main DX circuit is used to regenerate the desiccant wheel, reducing the amount of precooling needed to reach the desired supply air dewpoint. Consequently, the energy consumption is considerably less when compared to overcool/reheat equipment.



- |                             |                             |
|-----------------------------|-----------------------------|
| <b>A</b> ECM Regen Fan      | <b>G</b> Condenser Coil (2) |
| <b>B</b> Desiccant Wheel    | <b>H</b> Optional Post Heat |
| <b>C</b> Regen Filters      | <b>I</b> ECM Supply Fan     |
| <b>D</b> Compressors        | <b>J</b> Evaporator Coil    |
| <b>E</b> Condenser Coil (1) | <b>K</b> OA Filters         |
| <b>F</b> ECM Condenser Fan  |                             |

## SPECIFICATIONS

Unit/CFM	2000	4000	8000	12000	16000
Total Compressor Tonnage	14	26	60	80	100
Dimensions L x W x H (in)	210 x 55 x 53	256 x 65 x 76	330 x 87 x 98	354 x 101 x 114	366 x 120 x 124
Weight (lbs)	2700	6000	12500	15750	18500

## OPTIONS

### Post Heating:

- Electric
- Gas Furnace
- Hot Water
- Steam

### Cabinet:

- Stainless Steel
- Coated coils for corrosion resistance
- Return air and unoccupied mode

### Power:

- 208/230v/3ph, 480v/3ph, & 575/600v/3ph

### Filters:

- MERV 8 & 13

### Warranty:

- Extended Warranty

**NOVELAIRE**

info@novelaire.com  
www.novelaire.com  
sales@novelaire.com

10132 Mammoth Ave.,  
Baton Rouge, LA 70814-4420  
tel. 800.762.1320  
fax. 225.930.0340



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