



# Alpha Aire

DOAS Air-Source Heat Pump with Energy Recovery

Innovative Solutions for Comfortable  
Indoor Environments

[www.unitedcoolair.com](http://www.unitedcoolair.com)

# Alpha Aire

The Alpha Aire unit is a 100% outside air, self-contained, air-source heat pump with dual energy recovery devices. Capable of 200 to 500 CFM, the Alpha Aire self contained DOAS unit is designed for quick and easy indoor installation.

This one-of-a-kind DOAS unit is two times better than ASHRAE 90.1 at ISMRE 11.1, and ISCOP 8.0. It comes in a horizontal and vertical configuration and is easy to install and maintain. This BACnet ready unit also makes it easy to control and is available with additional options such as external condensate pump, Buck Boost transformer, and non-fused disconnect. The supply and return are field convertible to be on either the right or left side (horizontal cabinet), and coated coils are a standard feature.

- 200 - 500 CFM, Adjustable
- Self-Contained
- Air Source Heat Pump
- Low Energy Dew Point
- Dual Energy Recovery Devices
- All Indoor Installation



## 100% Outside Air ASHP with Energy Recovery

### Features and Benefits

- Air Source Heat Pump
- Dual Energy Recovery Devices
- Single Package Vertical or Horizontal Cabinet Configurations
- 200-500 CFM, Adjustable
- 208/230-1-60 Power
- ECM Fans (Supply and Exhaust)
- Constant Volume
- Up to 1" ESP on Both Supply and Exhaust
- 8" Round Duct Collar Connections
- Field Selectable Return/Supply Air Panel (Horizontal Only)
- Solid Double Wall Liner
- 2" R-8 Thermal/Acoustic Fiberglass Insulation
- Protective Coating on Evaporator & Auxiliary Coils (E-Coat)
- Stainless Steel Drain Pans
- Built-in Pressure Transducers for Airflow Measurement
- Internal Condensate Trap (Vertical Only)
- 2" MERV 13 Pleated Throwaway Supply Filter
- 2" MERV 8 Pleated Throwaway Exhaust Filter
- Auxiliary Reheat (Liquid Subcooling) Coil
- Filter Drier (Suction Line)
- Quick Connect Refrigerant Fittings for Easy Compressor Changeout - No Brazing or Hot Work Permit Required
- Isolated Electrical/Control Box
- Microprocessor with Built-in Display Interface
- BACnet MS/TP (Field Convertible to IP/Ethernet)
- NC-40 Sound Rating

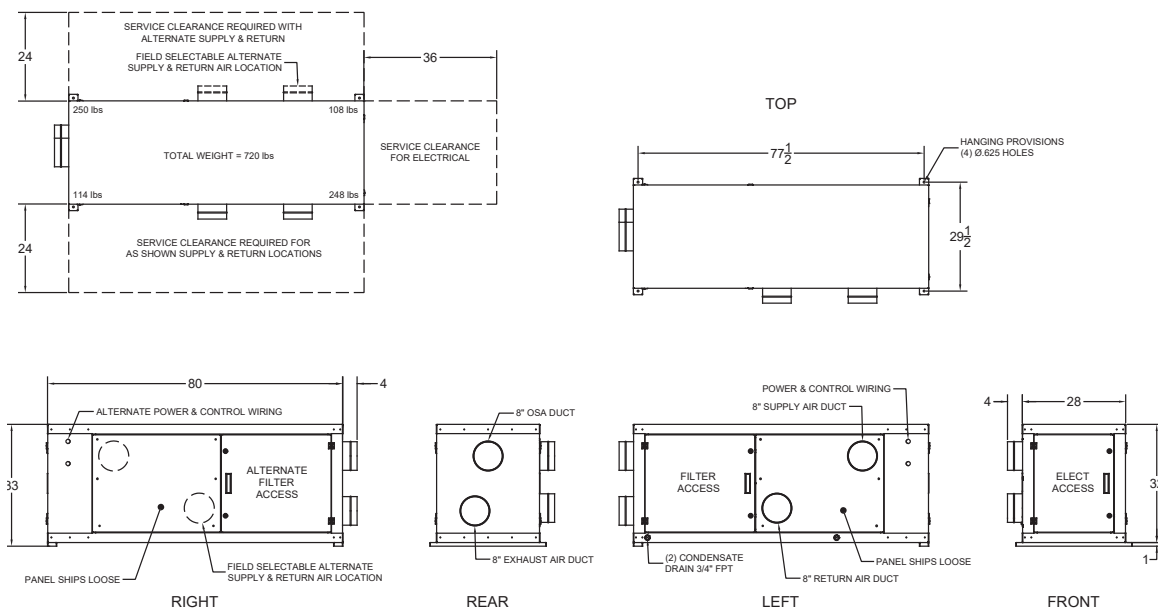
# DOAS with Energy Recovery

Humidity levels in commercial buildings affect everything from occupant health to the life span of building materials and HVAC equipment. This makes improving indoor air quality a top priority of building managers. For this reason, manufacturers of HVAC units have focused on the removal of humidity from indoor spaces. This in turn helps to maximize comfort to occupants, as well as, control mold, allergens, viruses and volatile organic compounds.

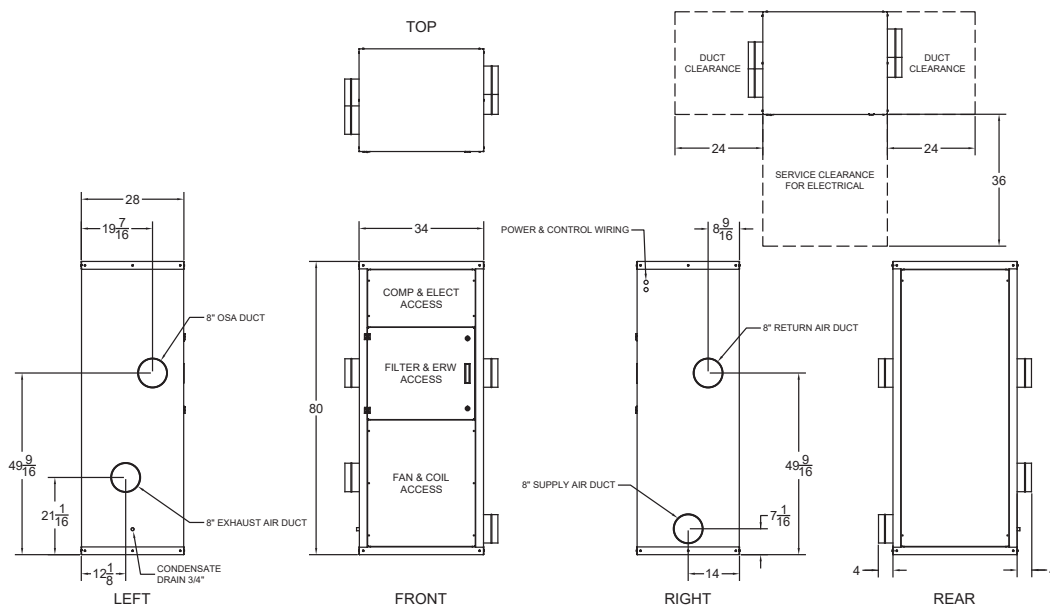
United CoolAir has developed units that do just that, One such unit is the Alpha Aire, 200-500 CFM packaged all-indoor unit, air-source heat pump with energy recovery. This DOAS unit contains as Energy Recovery Wheel along with a cross flow heat exchanger. The quiet ECM fans mean that even though it is installed indoors, they will not disturb building occupants.

## Dimensional Data

### Horizontal Cabinet - Gen 5



### Vertical Cabinet - Gen 5



We're on a Mission to Make the World Safer, Healthier,  
and More Productive through our Innovative Products



491 E. Princess St.  
York, PA 17403  
[www.unitedcoolair.com](http://www.unitedcoolair.com)

