



# Alpha Aire II

DOAS Air-Source Heat Pump with Energy Recovery

Innovative Solutions for Comfortable  
Indoor Environments

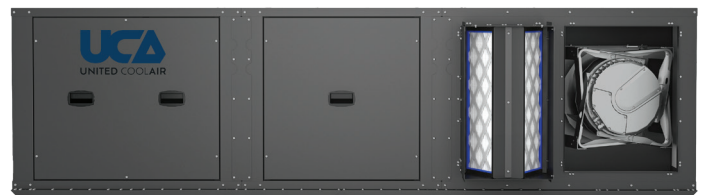
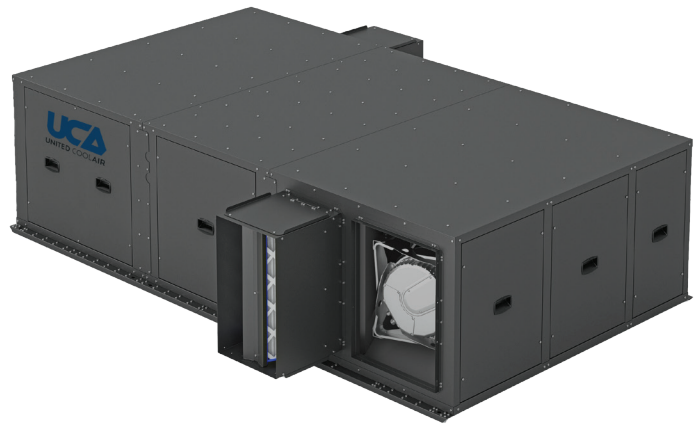
[www.unitedcoolair.com](http://www.unitedcoolair.com)

# Alpha Aire II

The new Alpha Aire II is a single package air source heat pump designed for 100% Outdoor Air applications with energy recovery. The Alpha Aire II builds on the success of the original Alpha Aire and expands the CFM range up to 2500 CFM.

Delivering exceptional performance over a wide range of outdoor air conditions, this high efficiency unit contains a total energy recovery wheel, ECM fans for both the supply and exhaust air as well as a variable capacity compressor. Installed indoors, the 30"H horizontal cabinet design fits above a drop ceiling or floor mounted on a mezzanine. During dehumidification, the outdoor air is tempered by the energy recovery wheel before feeding the evaporator coil. Low dewpoint air leaves the evaporator and is first reheated by the sub-cooling coil which boosts energy efficiency. Final reheat occurs through the modulating hot gas reheat coil and is supplied at a precise neutral air temperature.

- 900 – 2500 CFM, Adjustable
- Single Package Air Source Heat Pump
- Total Energy Recovery Wheel
- Modulating Hot Gas Reheat
- 208/230-3-60 or 460-3-60
- Delivers Low Dew Point Outdoor Air



## 100% Outside Air ASHP with Energy Recovery

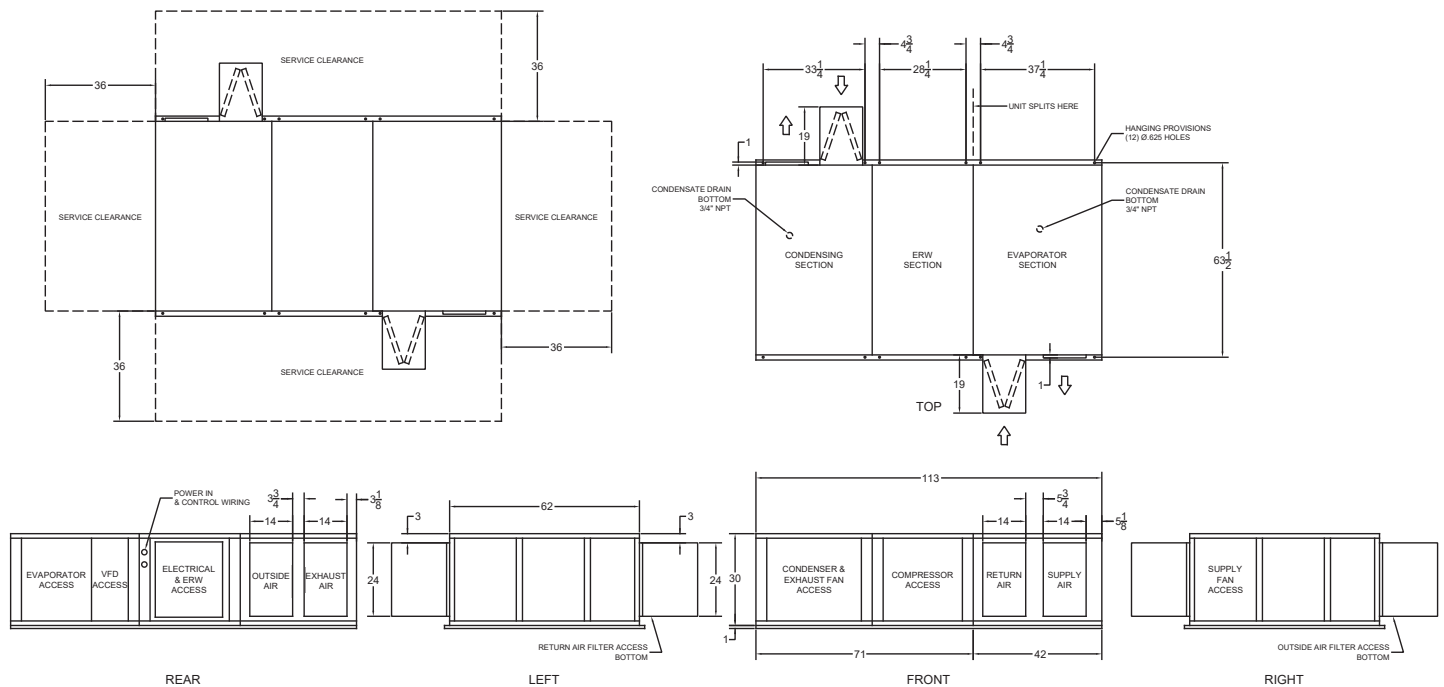
### Features and Benefits

- Horizontal Cabinet Configuration
- Total Energy Recovery Wheel
- Variable Capacity Compressor
- Backward Curved Direct Drive Plenum Fans with EC Motors
- Constant Air Volume
- Sub-cooling Coil for Increased Efficiency
- Modulating Hot Gas Reheat
- Double Wall / Solid Liner with 1" Thermal/Acoustic Fiberglass Insulation
- Stainless Steel Drain Pans – Evaporator and Condenser
- 2" MERV 13 Outdoor Air Filters
- 2" MERV 8 Return Air Filters
- Quick-connect Refrigerant Fittings to Ship Split with Full Factory Refrigerant Charge
- Marvel Premium Microprocessor Controls with BACnet MS/TP (field convertible to IP/Ethernet)
- Modulating Supply Air Dew Point Control for Neutral Air Delivery, CAV

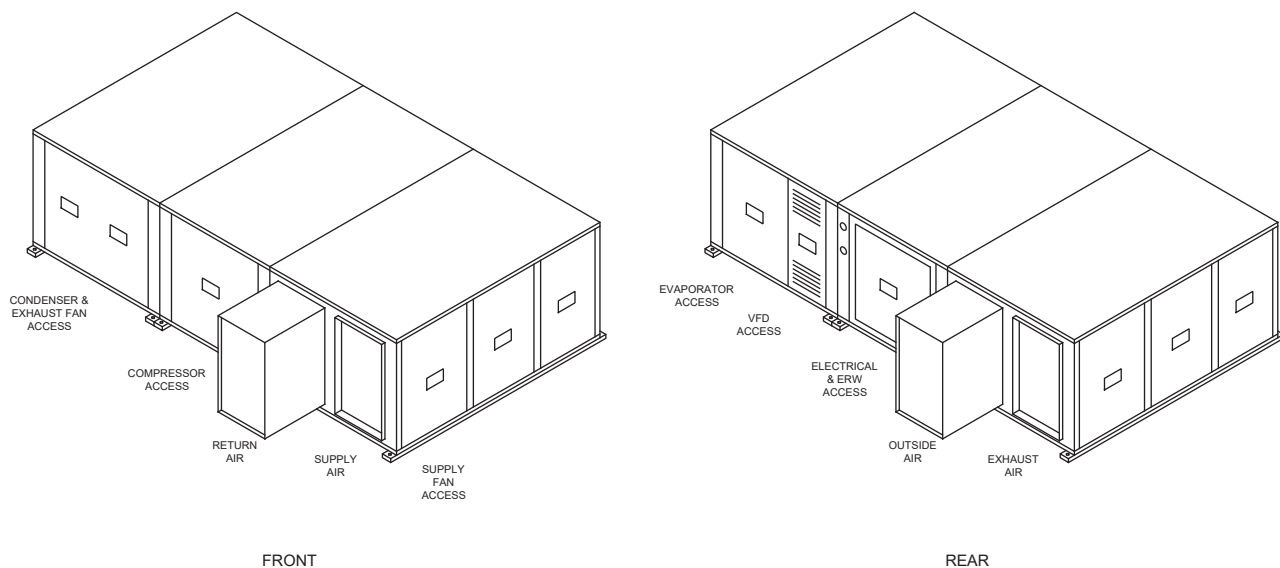
# All-Electric by Design

The Alpha Aire II plays a significant role in the advancement of electrification by being an all-electric HVAC system. By relying solely on electricity for heating and cooling, this system reduces greenhouse gas emissions and aligns with the broader goal of transitioning to cleaner and more sustainable energy sources. The Alpha Aire II promotes energy efficiency and enables seamless integration with renewable energy technologies, making it an environmentally friendly and forward-thinking choice for climate-conscious building projects.

## Dimensional Data



## Isometric Views



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)

