

Quick Reference Guide

Alpha Aire DX-DOAS



MODEL KEY
All Indoor Installation
One Size Horizontal or Vertical Cabinet
200 to 500 CFM
Air-Source Heat Pump, Self Contained
Variable Air Volume
Direct Expansion w/ Energy Recovery
208/230-1-60
Model Number: AAH/V100G1ASTA5

Product Features

United CoolAir uses high-density 2" thermal/acoustic insulation with a Solid Double Wall liner and low airflow to greatly reduce noise for near occupant operation. Critical components are isolated out of the air stream for longer life. Single point electrical power and 8" flex duct connections make for a quick low-cost installation. The sheet metal is G90 galvanized steel with an optional wet paint finish for durability and long life.

- 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

Options

- Buck Boost Transformer for 277-1-60 Power
- External Condensate Pump
- Non-Fused Disconnect
- Painted Cabinet (Wet Paint)
- EZ Trap/Float Switch Kit (Horizontal Only)



Contact:
www.level-solutions.com
 833-539-4615



Physical Data - Alpha Aire Gen. V

Supply Air Range	CFM	200-500
Fan Type–Qty.	Supply	ECM–1
	Exhaust	ECM–1
COIL MATERIALS:		Aluminum Fins / Copper Tubes
Indoor Coil Rows / FPI		6 / 13
Indoor Coil Face Area	Ft ²	1.0
Outdoor Coil Rows / FPI		4 / 18
Outdoor Coil Face Area	Ft ²	1.0
Reheat Coil Rows / FPI		1 / 13
Reheat Coil Face Area	Ft ²	0.85
Wheel Type		Enthalpy
Wheel Diameter	In	19.7
Plate Type		Sensible
ELECTRICAL DATA:		
Motor Power / FLA	kW / Amps	0.4 / 2.0
Motor Qty		2
Compressor Qty / Type		1 / Rotary
Compressor LRA / RLA	Amps / Amps	21.9 / 3.9
Controls	Amps	0.375
Unit MCA	Amps	9.3
Unit MOP	Amps	15
AIR FILTERS:		
Type	Pleated Throwaway	
Qty / Size	2 / 12 x 24 x 2	
Efficiency	MERV 13 (Supply) & MERV 8 (Exhaust)	
Weight (Net Operating)	600 lbs*	

*Approximate net operating weight of unit, additional options may change overall weight



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Alpha Aire Performance Data

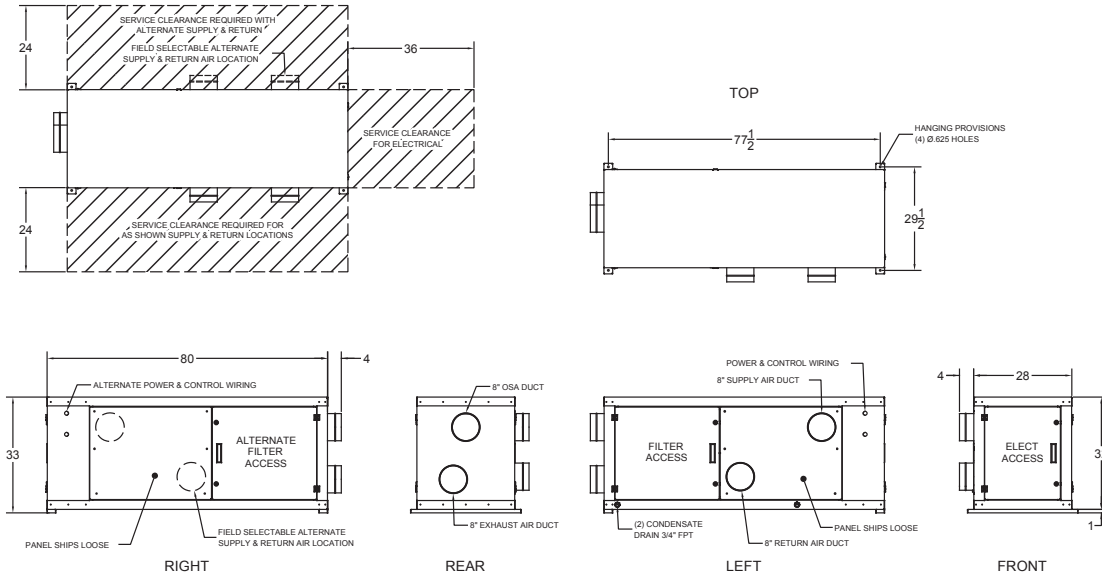
Typical Design Conditions

DEHUMIDIFICATION		Gen 5
Outside Air / Return Air CFM	SCFM	500 / 500
Outside Air Temp. DB / WB / RH / DP	°F / °F / % / °F	95.0 / 80.0 / 52.5 / 74.9
Return Air Temp. DB / WB / RH / DP	°F / °F / % / °F	75.0 / 62.5 / 49.8 / 55.0
Supply Air Temp. DB / WB / RH / DP	°F / °F / % / °F	74.1 / 60.0 / 43.5 / 50.5
Total Cooling Capacity (less motor heat)	BTUH	38,500
Sensible Cooling Capacity (less motor heat)	BTUH	11,300
Supply Air (ERW Only) DB / WB / RH / DP	°F / °F / % / °F	79.4 / 68.2 / 56.6 / 62.7
HEATING		
Outside Air / Return Air CFM	SCFM	500 / 500
Outside Air Temp. DB / WB / RH / DP	°F / °F / % / °F	35.0 / 29.0 / 45.8 / 18.0
Return Air Temp. DB / WB / RH / DP	°F / °F / % / °F	70.0 / 58.5 / 50.2 / 50.6
Supply Air Temp. DB / WB / RH / DP	°F / °F / % / °F	80.9 / 61.0 / 30.7 / 47.2
Total Heating Capacity (less motor heat)	BTUH	37,100
Sensible Heating Capacity (less motor heat)	BTUH	24,800
Supply Air (ERW Only) DB / WB / RH / DP	°F / °F / % / °F	63.0 / 54.1 / 56.4 / 47.2

DEHUMIDIFICATION		Gen 5
Outside Air / Return Air CFM	SCFM	500 / 500
Outside Air Temp. DB / WB / RH / DP	°F / °F / % / °F	95.0 / 78.0 / 47.3 / 71.8
Return Air Temp. DB / WB / RH / DP	°F / °F / % / °F	75.0 / 62.5 / 49.8 / 55.0
Supply Air Temp. DB / WB / RH / DP	°F / °F / % / °F	73.2 / 59.0 / 42.6 / 49.2
Total Cooling Capacity (less motor heat)	BTUH	35,200
Sensible Cooling Capacity (less motor heat)	BTUH	11,800
Supply Air (ERW Only) DB / WB / RH / DP	°F / °F / % / °F	79.4 / 67.2 / 53.4 / 61.0
HEATING		
Outside Air / Return Air CFM	SCFM	500 / 500
Outside Air Temp. DB / WB / RH / DP	°F / °F / % / °F	16.0 / 12.0 / 37.5 / -3.3
Return Air Temp. DB / WB / RH / DP	°F / °F / % / °F	70.0 / 58.5 / 50.2 / 50.6
Supply Air Temp. DB / WB / RH / DP	°F / °F / % / °F	74.7 / 58.2 / 36.1 / 46.1
Total Heating Capacity (less motor heat)	BTUH	46,300
Sensible Heating Capacity (less motor heat)	BTUH	31,700
Supply Air (ERW Only) DB / WB / RH / DP	°F / °F / % / °F	59.5 / 52.1 / 61.0 / 46.1

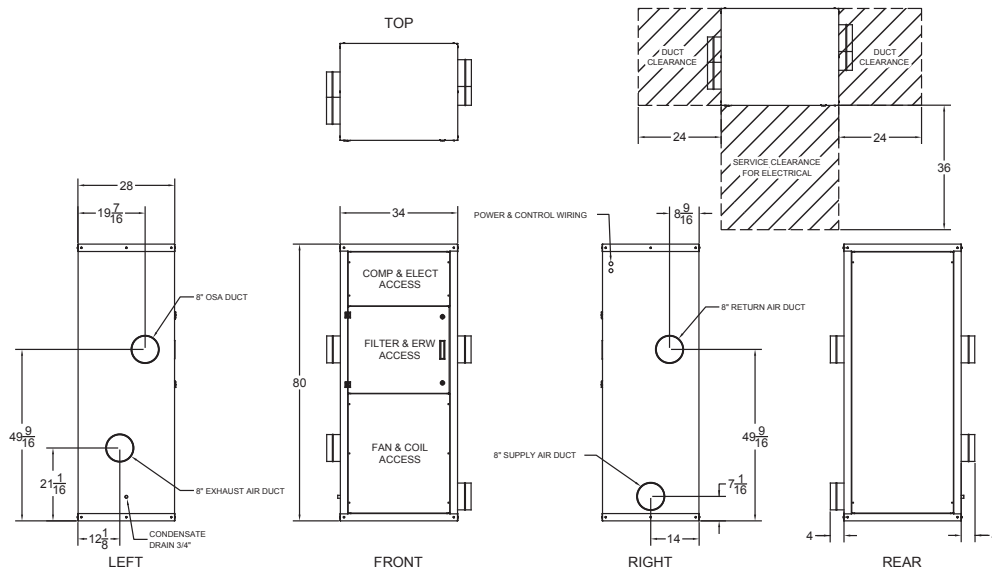
Contact Your Local Distributor for Selections at Specific Conditions

ALPHA AIRE - HORIZONTAL - GEN 5



Notes: Unit will ship with Supply and Return air panel loose. Field will install it in the standard location or the alternate location. See IOM for further details.

ALPHA AIRE - VERTICAL - GEN 5



Subject to change without notice.