engineered for life™

PROJECT NAME _____

LOCATION _____

ARCHITECT _____

ENGINEER _____

CONTRACTOR _____

SUBMITTED BY _____ DATE _____

UNIT SUMMARY

Quantity						
Unit Designation						
Model No.						
Total Cooling						
Sensible Cooling						
Air Ent. Evaporator						
Air Lvg. Evaporator						
Heating Input						
Heating Output						
CFM/ESP						
EER/SEER						
Electrical						
Minimum Ampacity						
Min.-Max. Breaker						
Net Unit Weight						
Accessory						
Catalog Form Number						

ACCESSORIES:

NOTES:

Endeavor® Line RA16AY iM Air Conditioners
Cooling Efficiencies up to: 17 SEER2 / 12.0 EER2
Nominal Sizes: 2 to 5 Tons [7.0 to 17.6 kW]
Cooling Capacities: 22.8 kBTU to 56.0 kBTU [7.0 to 16.4 kW]
Refrigerant Type: R-454B

JOB NAME _____ LOCATION _____

CONTRACTOR _____ ORDER NO. _____

ENGINEER _____ UNIT MODEL NO. _____

SUBMITTED FOR ☐ APPROVAL ☐ RECORD COIL MODEL NO. _____

DATE _____ AIR HANDLER MODEL NO. _____

UNIT DATA

COOLING PERFORMANCE

EFFICIENCY ..... _____ SEER

TOTAL CAPACITY* ..... _____ MBH [kW]

SENSIBLE CAPACITY*..... _____ MBH [kW]

OUTDOOR DESIGN TEMP..... _____ °F [°C] DB

TEMP. OF AIR ENTERING EVAPORATOR COIL..... _____ °F [°C] DB

_____ °F [°C] WB

POWER INPUT REQUIREMENT ..... _____ kW

(*uses blower motor heat)

HEATING PERFORMANCE

EFFICIENCY ..... _____ HSPF

TOTAL CAPACITY* ..... _____ MBH [kW]

OUTDOOR DESIGN TEMP..... _____ °F [°C] DB

TEMP. OF AIR ENTERING EVAPORATOR COIL..... _____ °F [°C] DB

SUPPLY AIR BLOWER PERFORMANCE

TOTAL AIR SUPPLY..... _____ CFM [L/s]

TOTAL RESISTANCE EXTERNAL TO UNIT..... _____ IWG

BLOWER SPEED..... _____ RPM

POWER OUTPUT REQUIREMENT..... _____ BHP

MOTOR RATING ..... _____ HP [W]

POWER INPUT REQUIREMENT ..... _____ kW

ELECTRICAL DATA

POWER SUPPLY..... _____ Hz

TOTAL UNIT AMPACITY..... _____ AMPS

MINIMUM WIRE SIZE..... _____ AWG

MAXIMUM OVERCURRENT DEVICE FUSES/HACR BREAKER ..... _____ AMPS

CLEARANCES

ACCESS SIDE	24" [609.6 mm]
AIR INLETS	12" [304.8 mm]
ABOVE UNIT	60" [1524 mm]

FEATURES

- **Swept Wing Fan Technology:** Features quieter operation and improved unit acoustics
- **7mm Condenser Copper Coil:** Requires less refrigerant allowing for a smaller and lighter footprint while enhancing reliability
- **Two-Stage Scroll Compressor:** Features two speeds (high and low) of cooling and heating, providing more precise temperature control, lower humidity and greater efficiency when compared to single-stage compressors
- **PlusOne® Expanded Valve Space:** 3 in. – 4 in. – 5 in. service valve space—provides a minimum working area of 27-square inches for easier access
- **PlusOne® Triple Service Access:** 15 in. wide, industry leading access, two fastener, removeable corner and individual louver panels—makes repairs faster and easier
- **PlusOne® Refrigerant Detection System™[1]:** An integrated one-box, patented design featuring the A2L sensor and mitigation board, offering easier commissioning with a single component and simplified wiring configuration, compatibility with any 24V thermostat application and system protection by automatically pausing outdoor unit operation—if excess refrigerant is detected

ACCESSORIES/OPTIONS

Compressor Crankcase Heater..... ☐

Low Ambient Control..... ☐

Compressor Sound Cover..... ☐

Compressor Hard Start Kit..... ☐

Compressor Time Delay..... ☐

Low Pressure Control ..... ☐

High Pressure Control..... ☐

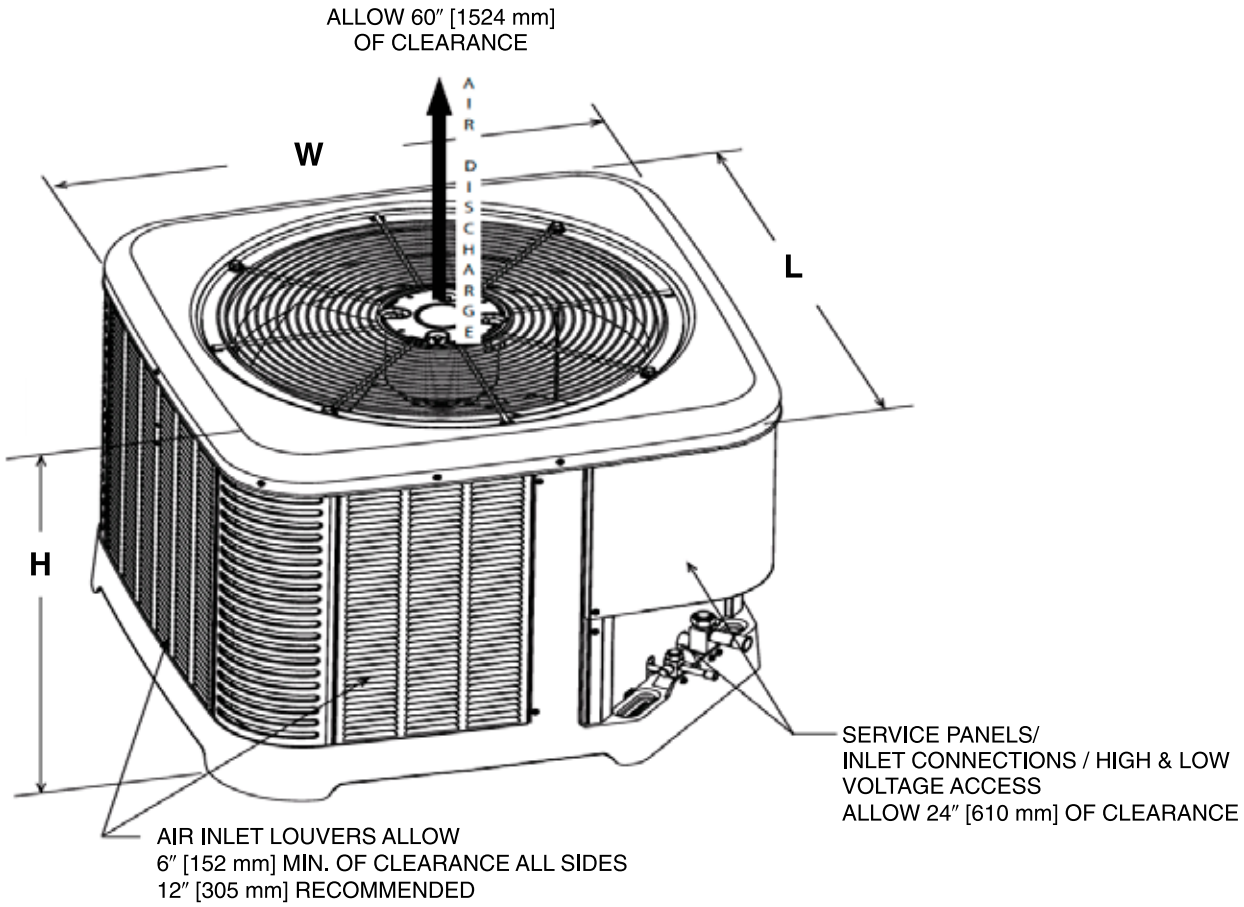
ISO 9001:2015

c UL us LISTED

AHRI CERTIFIED™ www.ahridirectory.org Unitary Small AC AHRI Standard 210/240

[1]*Factory or field installed in the furnace coil or air handler and is applicable to the complete heating and cooling system featuring Low GWP Refrigerant (A2L).*

RA16AY



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Unit Dimensions

MODEL NO.	OPERATING						SHIPPING					
	H (Height)		L (Length)		W (Width)		H (Height)		L (Length)		W (Width)	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
RA16AY24	25.00	635	33.75	857	33.75	857	26.50	673	36.38	924	36.38	924
RA16AY36	31.00	787	33.75	857	33.75	857	32.50	826	36.38	924	36.38	924
RA16AY48	35.00	889	33.75	857	33.75	857	36.50	927	36.38	924	36.38	924
RA16AY60	45.00	1143	35.75	908	35.75	908	46.50	1181	38.38	975	38.38	975

[ ] Designates Metric Conversions

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

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PRINTED IN U.S.A. 12/25 QG FORM NO. X33-1671 REV. 1