

PROJECT NAME							
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							
MinMax. Breaker							
Net Unit Weight							
Accessory							
Catalog Form Number							
ACCESSORIES:	NOTES:						

Vantix[™] Line SA16AY 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

AME LOCATION	
ACTOR ORDER NO	
EER UNIT MODEL NO	
TTED FOR	
AIR HANDLER MODI	EL NO
ACTOR ORDER NO. EER UNIT MODEL NO. TTED FOR APPROVAL RECORD COIL MODEL NO. AIR HANDLER MODEL	EL NO

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

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
- Expanded Valve Space: 3 in. 4 in. 5 in. service valve space—provides a minimum working area of 27-square inches for easier access
- **Triple Service Access:** 15 in. wide, industry leading access, makes repairs faster and easier
- Designing for Sustainability with Low GWP: For 2025, the Environmental Protection Agency (EPA) has set a global warming potential (GWP) limit of 700 for refrigerant used in heating and cooling systems. This new requirement will result a 78%¹ lower GWP than previous-generation refrigerants—with only minimal changes to system installation. For us, this is another step toward our continued sustainability goal of reducing greenhouse gas emissions, while still delivering an exceptional level of energy efficient, dependable comfort
- Refrigerant Detection System²: 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 \Box
Compressor Hard Start Kit \Box
Compressor Time Delay \Box
Low Pressure Control
High Pressure Control









¹When comparing the GWP of R-454B to R-410A refrigerant. ²Factory 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). ³Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR®. Ask your Contractor for details or visit www.energystar.gov.



ST-A1226-24-00

Unit Dimensions

	OPERATING					SHIPPING						
MODEL NO. H (Height)		L (Length)		W (Width)		H (Height)		L (Length)		W (Width)		
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
SA16AY24	25.00	635	33.75	857	33.75	857	26.50	673	36.38	924	36.38	924
SA16AY36	31.00	787	33.75	857	33.75	857	32.50	826	36.38	924	36.38	924
SA16AY48	35.00	889	33.75	857	33.75	857	36.50	927	36.38	924	36.38	924
SA16AY60	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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