



# FRIEDRICH

1 8 8 3

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 FRA19AY iM Air Conditioners

## Cooling Efficiencies up to: 20.0 SEER2 / 13 EER2

## Nominal Sizes: 2 to 5 Tons [7.0 to 17.6 kW]

## Cooling Capacities: 22.8 to 54 kBTU [6.7 to 15.83 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

- **EcoNet® Enabled:** Automatic system configuration and optimization
- **PlusOne® Diagnostics & Bluetooth®<sup>01</sup> Connectivity:** With the Friedrich® Contractor & EcoNet Apps, built-in technology makes advanced set-up, monitoring, troubleshooting, and repairing the product easier than ever before
- **Brushless DC Condenser Motors (BLDC):** Enhances reliability and allows for easier serviceability
- **Swept Wing Fan Technology:** Features quieter operation and improved unit acoustics
- **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 corner service access, two fastener, removeable corner and individual louver panels – makes repairs easier and faster
- **PlusOne Refrigerant Detection System™<sup>2</sup>:** 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 Sound Cover .....
- EcoNet® Smart Thermostat .....
- Supply/Return Sensor .....

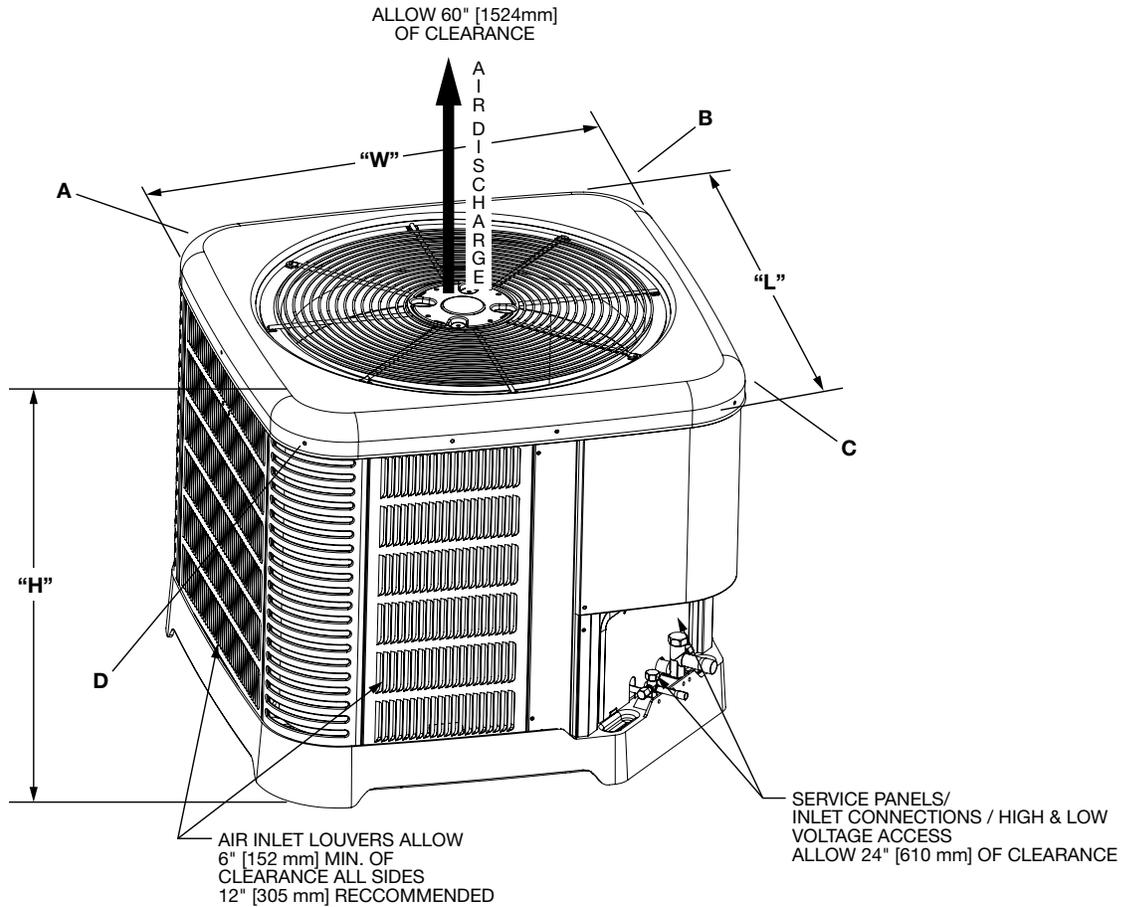


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<sup>2</sup>Factory or field installed in the furnace coil or air handler and is applicable to the complete heating and cooling system featuring Low GWP Refrigerant (A2L).

**FRA19AY**



**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
FRA19AY24AJVCA	45.17	1147	36.13	918	36.13	918	48.18	1224	39.37	1000	39.64	1007
FRA19AY36AJVCA	51.17	1300	36.13	918	36.13	918	53.56	1360	39.37	1000	39.64	1007
FRA19AY48AJVCA	51.17	1300	36.13	918	36.13	918	53.56	1360	39.37	1000	39.64	1007
FRA19AY60AJVCA	51.17	1300	36.13	918	36.13	918	53.56	1360	39.37	1000	39.64	1007

[ ] 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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