



## Endeavor® Line Achiever® Series iM Air Conditioners



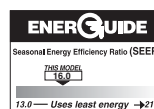
### RA15AY

Cooling Efficiencies up to: 16.0 SEER2 / 13.0 EER2

Nominal Sizes: 1.5–5 Tons [5.3–7.6 kW]

Cooling Capacities: 17.1–56.0 kBTU [5.0–16.4 kW]

Refrigerant Type: R-454B



<sup>1</sup>Proper 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](http://www.energystar.gov).

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## Features and Benefits

- **7mm Condenser Copper Coil:** Requires less refrigerant allowing for a smaller and lighter footprint while enhancing reliability
- **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
- **Swept Wing Fan Technology<sup>1</sup>:** Features quieter operation and improved unit acoustics.
- **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 in a 78%<sup>2</sup> 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
- **PlusOne® Refrigerant Detection System<sup>TM3</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

<sup>1</sup>Does not apply to 1.5- and 2-ton models. <sup>2</sup>When comparing the GWP of R-454B to R-410A refrigerant. <sup>3</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).

# Air Conditioners

| <u>R</u> | <u>A</u>             | <u>15</u>       | <u>A</u>        | <u>Y</u>    | <u>18</u>                                                                                                                                                                       | <u>A</u>       | <u>J</u>                                                        | <u>1</u>    | <u>N</u>              | <u>A</u>       | <u>LHP<sup>1</sup></u> |
|----------|----------------------|-----------------|-----------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------|-------------|-----------------------|----------------|------------------------|
| Brand    | Product Category     | SEER2           | Region          | Refrigerant | Capacity BTU/HR                                                                                                                                                                 | Major Series   | Voltage                                                         | Type        | Controls              | Minor Series   | Option                 |
| R - Ruud | A - Air Conditioners | 15 - 15.2 SEER2 | A - All Regions | Y - R-454B  | 18 - 18,000 [5.28 kW]<br>24 - 24,000 [7.03 kW]<br>30 - 30,000 [8.79 kW]<br>36 - 36,000 [10.55 kW]<br>42 - 42,000 [12.31 kW]<br>48 - 48,000 [14.07 kW]<br>60 - 60,000 [17.58 kW] | A - 1st Design | J - 1ph, 208/230/1/60<br>C - 3ph, 208/230/60<br>D - 3ph, 460/60 | 1 - 1-Stage | N - Non-Communicating | A - 1st Design | LHP - w/HLPC           |

<sup>1</sup>LHP pressure switches are standard on 3 phase models.

[ ] Designates Metric Conversions

| Available Models | Description                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------|
| RA15AY18AJ1NA    | Endeavor® Line Achiever® Series 1 1/2 ton 15.2 SEER2 Single-Stage Air Conditioner-208/230/1/60                      |
| RA15AY18AJ1NALHP | Endeavor® Line Achiever® Series 1 1/2 ton 15.2 SEER2 Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60 |
| RA15AY24AJ1NA    | Endeavor® Line Achiever® Series 2 ton 15.2 SEER2 Single-Stage Air Conditioner-208/230/1/60                          |
| RA15AY24AJ1NALHP | Endeavor® Line Achiever® Series 2 ton 15.2 SEER2 Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60     |
| RA15AY30AJ1NA    | Endeavor® Line Achiever® Series 2 1/2 ton 15.2 SEER2 Single-Stage Air Conditioner-208/230/1/60                      |
| RA15AY30AJ1NALHP | Endeavor® Line Achiever® Series 2 1/2 ton 15.2 SEER2 Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60 |
| RA15AY36AJ1NA    | Endeavor® Line Achiever® Series 3 ton 15.2 SEER2 Single-Stage Air Conditioner-208/230/1/60                          |
| RA15AY36AJ1NALHP | Endeavor® Line Achiever® Series 3 ton 15.2 SEER2 Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60     |
| RA15AY36AC1NA    | Endeavor® Line Achiever® Series 3 ton 15.2 SEER2 Single-Stage Air Conditioner-208/230/3/60                          |
| RA15AY36AD1NA    | Endeavor® Line Achiever® Series 3 ton 15.2 SEER2 Single-Stage Air Conditioner-460/3/60                              |
| RA15AY42AJ1NA    | Endeavor® Line Achiever® Series 3 1/2 ton 15.2 SEER2 Single-Stage Air Conditioner-208/230/1/60                      |
| RA15AY42AJ1NALHP | Endeavor® Line Achiever® Series 3 1/2 ton 15.2 SEER2 Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60 |
| RA15AY42AC1NA    | Endeavor® Line Achiever® Series 3 1/2 ton 15.2 SEER2 Single-Stage Air Conditioner-208/230/3/60                      |
| RA15AY42AD1NA    | Endeavor® Line Achiever® Series 3 1/2 ton 15.2 SEER2 Single-Stage Air Conditioner-460/3/60                          |
| RA15AY48AJ1NA    | Endeavor® Line Achiever® Series 4 ton 15.2 SEER2 Single-Stage Air Conditioner-208/230/1/60                          |
| RA15AY48AJ1NALHP | Endeavor® Line Achiever® Series 4 ton 15.2 SEER2 Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60     |
| RA15AY48AC1NA    | Endeavor® Line Achiever® Series 4 ton 15.2 SEER2 Single-Stage Air Conditioner-208/230/3/60                          |
| RA15AY48AD1NA    | Endeavor® Line Achiever® Series 4 ton 15.2 SEER2 Single-Stage Air Conditioner-460/3/60                              |
| RA15AY60AJ1NA    | Endeavor® Line Achiever® Series 5 ton 15.2 SEER2 Single-Stage Air Conditioner-208/230/1/60                          |
| RA15AY60AJ1NALHP | Endeavor® Line Achiever® Series 5 ton 15.2 SEER2 Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60     |
| RA15AY60AC1NA    | Endeavor® Line Achiever® Series 5 ton 15.2 SEER2 Single-Stage Air Conditioner-208/230/3/60                          |
| RA15AY60AD1NA    | Endeavor® Line Achiever® Series 5 ton 15.2 SEER2 Single-Stage Air Conditioner-460/3/60                              |

| Standard Equipment              |                                     |
|---------------------------------|-------------------------------------|
| R-454B Refrigerant              | 2 Screw Control Box Access          |
| Scroll Compressor               | Quick release louver panel design   |
| Field Installed Filter Drier    | No fasteners to remove along bottom |
| Front Seating Service Valves    | Optimized Venturi Airflow           |
| Internal Pressure Relief Valve  | Powder coated paint                 |
| Internal Thermal Overload       | Rust resistant screws               |
| Long Line capability            | QR code                             |
| Low Ambient capability with Kit | External gauge ports                |
| 3-4-5 Expanded Valve Space      | Service trays                       |
| Composite Basepan               |                                     |

| General Data                                       |              |              |              |              |              |              |              |
|----------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| MODEL NO.                                          | RA15AY18     | RA15AY24     | RA15AY30     | RA15AY36     | RA15AY42     | RA15AY48     | RA15AY60     |
| Nominal Tonnage                                    | 1.5          | 2.0          | 2.5          | 3.0          | 3.5          | 4.0          | 5.0          |
| Valve Connections                                  |              |              |              |              |              |              |              |
| Liquid Line O.D. – in.                             | 3/8          | 3/8          | 3/8          | 3/8          | 3/8          | 3/8          | 3/8          |
| Suction Line O.D. – in.                            | 3/4          | 3/4          | 3/4          | 3/4          | 7/8          | 7/8          | 7/8          |
| Refrigerant (R-454B) furnished oz. <sup>1</sup>    | 92           | 112          | 92           | 104          | 142          | 142          | 192          |
| Compressor Type                                    | Scroll       |              |              |              |              |              |              |
| Outdoor Coil                                       |              |              |              |              |              |              |              |
| Net face area – Outer Coil                         | 10.9         | 13.3         | 14.3         | 16.4         | 19.5         | 19.5         | 27.9         |
| Net face area – Inner Coil                         | 10.5         | 12.9         | 13.9         | 15.9         | 18.8         | 18.8         | 27.1         |
| Tube diameter – in.                                | 0.276        | 0.276        | 0.276        | 0.276        | 0.276        | 0.276        | 0.276        |
| Number of rows                                     | 2            | 2            | 2            | 2            | 2            | 2            | 2            |
| Fins per inch                                      | 24           | 24           | 24           | 24           | 24           | 24           | 24           |
| Outdoor Fan                                        |              |              |              |              |              |              |              |
| Diameter – in.                                     | 20           | 24           | 24           | 24           | 24           | 24           | 26           |
| Number of blades                                   | 2            | 2            | 2            | 2            | 3            | 3            | 3            |
| Motor hp                                           | 1/7          | 1/6          | 1/6          | 1/6          | 1/5          | 1/5          | 1/5          |
| CFM                                                | 2156         | 2723         | 2813         | 2944         | 3431         | 3606         | 4169         |
| RPM                                                | 1075         | 825          | 825          | 825          | 850          | 850          | 850          |
| Watts                                              | 152          | 161          | 170          | 174          | 225          | 251          | 245          |
| Shipping weight – lbs.                             | 151          | 185          | 197          | 217          | 259          | 250          | 273          |
| Operating weight – lbs.                            | 144          | 178          | 190          | 210          | 252          | 243          | 266          |
| Electrical Data                                    |              |              |              |              |              |              |              |
| Line Voltage Data (Volts-Phase-Hz)                 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 |
| Maximum overcurrent protection (amps) <sup>2</sup> | 15           | 20           | 25           | 30           | 30           | 50           | 50           |
| Minimum circuit ampacity <sup>3</sup>              | 12           | 13           | 17           | 18           | 20           | 30           | 31           |
| Compressor                                         |              |              |              |              |              |              |              |
| Rated load amps                                    | 8            | 9            | 13           | 14           | 15           | 22           | 24           |
| Locked rotor amps                                  | 42           | 59           | 76           | 75           | 109          | 126          | 157          |
| Condenser Fan Motor                                |              |              |              |              |              |              |              |
| Full load amps                                     | 0.8          | 0.8          | 0.8          | 0.8          | 1.0          | 1.0          | 1.0          |
| Locked rotor amps                                  | 1.5          | 1.7          | 1.7          | 1.7          | 2.6          | 2.6          | 2.6          |
| Line Voltage Data (Volts-Phase-Hz)                 | —            | —            | —            | 208/230-3-60 | 208/230-3-60 | 208/230-3-60 | 208/230-3-60 |
| Maximum overcurrent protection (amps) <sup>2</sup> | —            | —            | —            | 20.0         | 25.0         | 25.0         | 35.0         |
| Minimum circuit ampacity <sup>3</sup>              | —            | —            | —            | 13.0         | 17.0         | 18.0         | 22.0         |
| Compressor                                         |              |              |              |              |              |              |              |
| Rated load amps                                    | —            | —            | —            | 9.0          | 12.2         | 12.0         | 16.0         |
| Locked rotor amps                                  | —            | —            | —            | 70.0         | 102.8        | 123.0        | 156.4        |
| Condenser Fan Motor                                |              |              |              |              |              |              |              |
| Full load amps                                     | —            | —            | —            | 0.8          | 1.0          | 1.0          | 1.0          |
| Locked rotor amps                                  | —            | —            | —            | 1.7          | 2.6          | 2.6          | 2.6          |
| Line Voltage Data (Volts-Phase-Hz)                 | —            | —            | —            | 460-3-60     | 460-3-60     | 460-3-60     | 460-3-60     |
| Maximum overcurrent protection (amps) <sup>2</sup> | —            | —            | —            | 15.0         | 15.0         | 15.0         | 15.0         |
| Minimum circuit ampacity <sup>3</sup>              | —            | —            | —            | 6.0          | 9.0          | 9.0          | 10.0         |
| Compressor                                         |              |              |              |              |              |              |              |
| Rated load amps                                    | —            | —            | —            | 3.8          | 5.8          | 6.3          | 7.1          |
| Locked rotor amps                                  | —            | —            | —            | 39.0         | 50.0         | 60.0         | 69.0         |
| Condenser Fan Motor                                |              |              |              |              |              |              |              |
| Full load amps                                     | —            | —            | —            | 0.50         | 0.80         | 0.80         | 0.80         |
| Locked rotor amps                                  | —            | —            | —            | 0.90         | 1.40         | 1.40         | 1.40         |

<sup>1</sup>Refrigerant charge sufficient for 15 ft. length of refrigerant lines. For longer line set requirements see the installation instructions for information about set length and additional refrigerant charge required.

<sup>2</sup>HACR type circuit breaker or fuse.

<sup>3</sup>Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.

Accessories

| MODEL NO.                                                    |                | RA15AY18       | RA15AY24       | RA15AY30       | RA15AY36                                     | RA15AY42                                                               | RA15AY48                                     | RA15AY60                                                               |
|--------------------------------------------------------------|----------------|----------------|----------------|----------------|----------------------------------------------|------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------|
| Compressor crankcase heater (with temperature thermostat)    |                | 44-101884-08   | 44-101884-08   | 44-101884-08   | 208/230V: 44-101884-08<br>460V: 44-101884-09 | 208/230V: 44-103663-16 <sup>1</sup><br>460V: 44-101884-06 <sup>1</sup> | 208/230V: 44-103663-16<br>460V: 44-101884-06 | 208/230V: 44-103663-16 <sup>2</sup><br>460V: 44-101884-06 <sup>2</sup> |
| Compressor crankcase heater (without temperature thermostat) |                | 44-17402-44    | 44-17402-44    | 44-17402-44    | 208/230V: 44-17402-44<br>460V: 442040        | 208/230V: 44-17402-45<br>460V: 44-17402-46                             | 208/230V: 44-17402-45<br>460V: 44-17402-46   | 208/230V: 44-17402-45<br>460V: 44-17402-46                             |
| Low ambient control                                          |                | RXAD-A08       | RXAD-A08       | RXAD-A08       | RXAD-A08                                     | RXAD-A08                                                               | RXAD-A08                                     | RXAD-A08                                                               |
| Compressor sound cover                                       |                | 68-23427-26    | 68-23427-26    | 68-23427-26    | 68-23427-26                                  | 68-23427-25                                                            | 68-23427-25                                  | 68-23427-25                                                            |
| Compressor hard start kit                                    |                | SK-A1          | SK-A1          | SK-A1          | SK-A1                                        | SK-A1                                                                  | SK-A1                                        | SK-A1                                                                  |
| Compressor time delay                                        |                | RXMD-B01       | RXMD-B01       | RXMD-B01       | RXMD-B01                                     | RXMD-B01                                                               | RXMD-B01                                     | RXMD-B01                                                               |
| Low pressure control                                         |                | RXAC-A10       | RXAC-A10       | RXAC-A10       | RXAC-A10                                     | RXAC-A10                                                               | RXAC-A10                                     | RXAC-A10                                                               |
| High pressure control                                        |                | RXAB-A08       | RXAB-A08       | RXAB-A08       | RXAB-A08                                     | RXAB-A08                                                               | RXAB-A08                                     | RXAB-A08                                                               |
| Liquid Line Solenoid (24 VAC, 50/60 Hz)                      | Solenoid Valve | 200RD2T3TVLC   | 200RD2T3TVLC   | 200RD2T3TVLC   | 200RD2T3TVLC                                 | 200RD2T3TVLC                                                           | 200RD2T3TVLC                                 | 200RD2T3TVLC                                                           |
|                                                              | Solenoid Coil  | 61-AMG24V      | 61-AMG24V      | 61-AMG24V      | 61-AMG24V                                    | 61-AMG24V                                                              | 61-AMG24V                                    | 61-AMG24V                                                              |
| Liquid Line Solenoid (120/240 VAC, 50/60 Hz)                 | Solenoid Valve | 200RD2T3TVLC   | 200RD2T3TVLC   | 200RD2T3TVLC   | 200RD2T3TVLC                                 | 200RD2T3TVLC                                                           | 200RD2T3TVLC                                 | 200RD2T3TVLC                                                           |
|                                                              | Solenoid Coil  | 61-AMG120/240V | 61-AMG120/240V | 61-AMG120/240V | 61-AMG120/240V                               | 61-AMG120/240V                                                         | 61-AMG120/240V                               | 61-AMG120/240V                                                         |

<sup>1</sup>RA15AY42: 208/230V LG models come with 44-101884-08 factory-installed. 460V LG models come with 44-101884-09 factory-installed.  
<sup>2</sup>RA15AY60: All 208/230V models come with 44-103663-16 factory-installed. All 460V models come with 44-101884-06 factory-installed.

Maximum System Charge Values RA15AY

| Maximum System Charge Values - RA15AY |                                       |                   |
|---------------------------------------|---------------------------------------|-------------------|
| Model No.                             | Charge Limit Without Crankcase Heater |                   |
|                                       | Copeland                              | LG                |
| RA15AY18                              | 9.6 lbs [4.4kg]                       | 8.4 lbs [3.8 kg]  |
| RA15AY24                              |                                       |                   |
| RA15AY30                              |                                       |                   |
| RA15AY36                              |                                       |                   |
| RA15AY42 <sup>1</sup>                 | 12 lbs [5.4kg]                        | 11.9 lbs [5.4 kg] |
| RA15AY48                              |                                       |                   |
| RA15AY60 <sup>1</sup>                 |                                       |                   |

<sup>1</sup>RA15AY42 models with LG compressors and RA15AY60 ton models have factory-installed crankcase heaters.

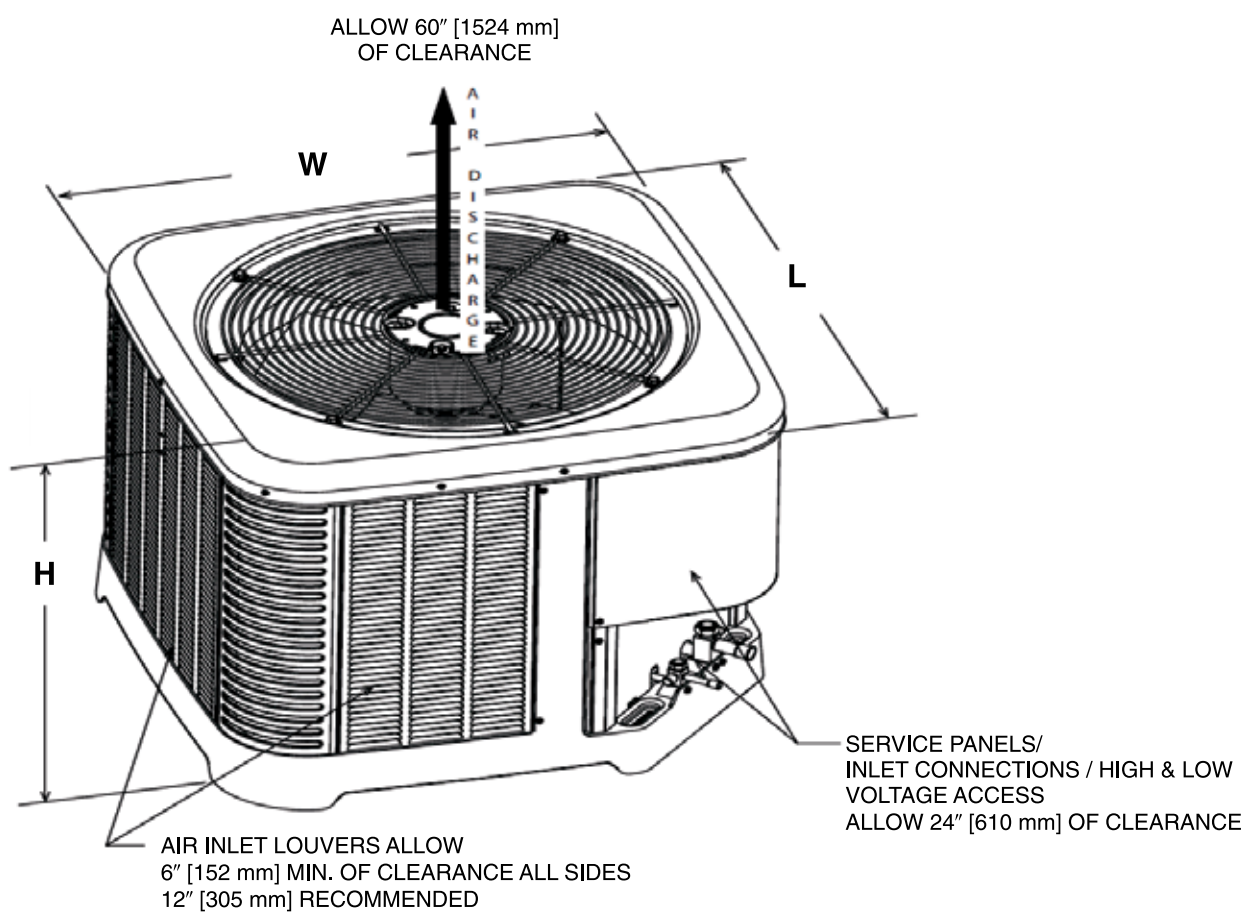
Weighted Sound Power Level (dBA)

| Unit Size - Voltage, Series | Standard Rating (dBA) | TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment) |     |     |      |      |      |      |
|-----------------------------|-----------------------|------------------------------------------------------------|-----|-----|------|------|------|------|
|                             |                       | 125                                                        | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| RA15AY18                    | 71                    | 48                                                         | 56  | 62  | 61   | 57   | 54   | 46   |
| RA15AY24                    | 69                    | 45                                                         | 54  | 59  | 58   | 56   | 51   | 46   |
| RA15AY30                    | 71                    | 45                                                         | 55  | 60  | 59   | 57   | 54   | 46   |
| RA15AY36                    | 72                    | 45                                                         | 53  | 60  | 61   | 59   | 56   | 48   |
| RA15AY42                    | 73                    | 47                                                         | 55  | 64  | 62   | 59   | 55   | 48   |
| RA15AY48                    | 74                    | 45                                                         | 56  | 64  | 63   | 61   | 57   | 51   |
| RA15AY60                    | 76                    | 43                                                         | 60  | 67  | 66   | 63   | 59   | 53   |

**NOTE:** Tested in accordance with AHRI Standard 270-08 (not listed in AHRI)

## Unit Dimensions

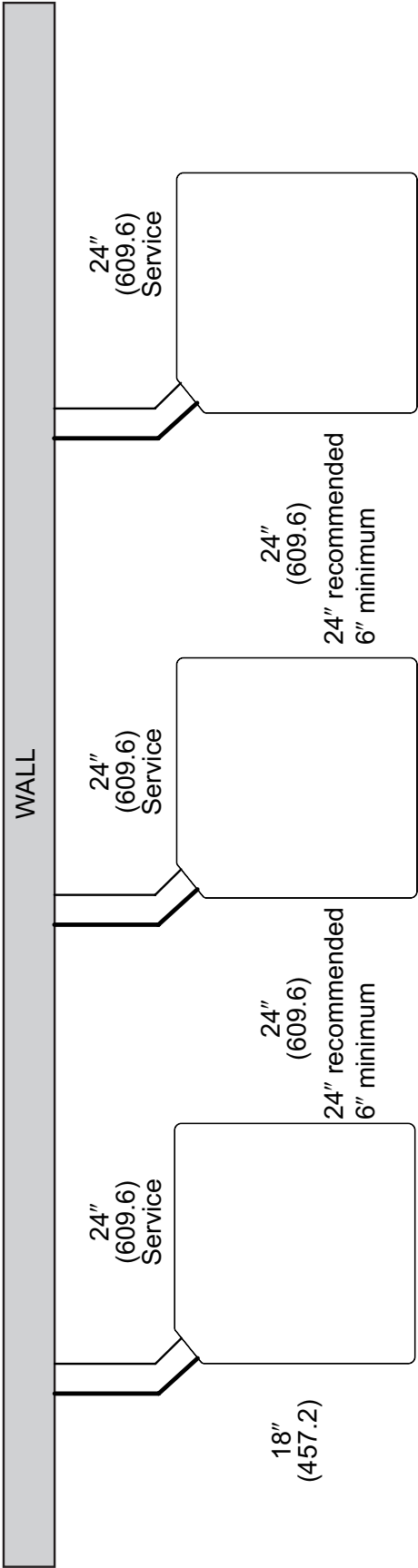
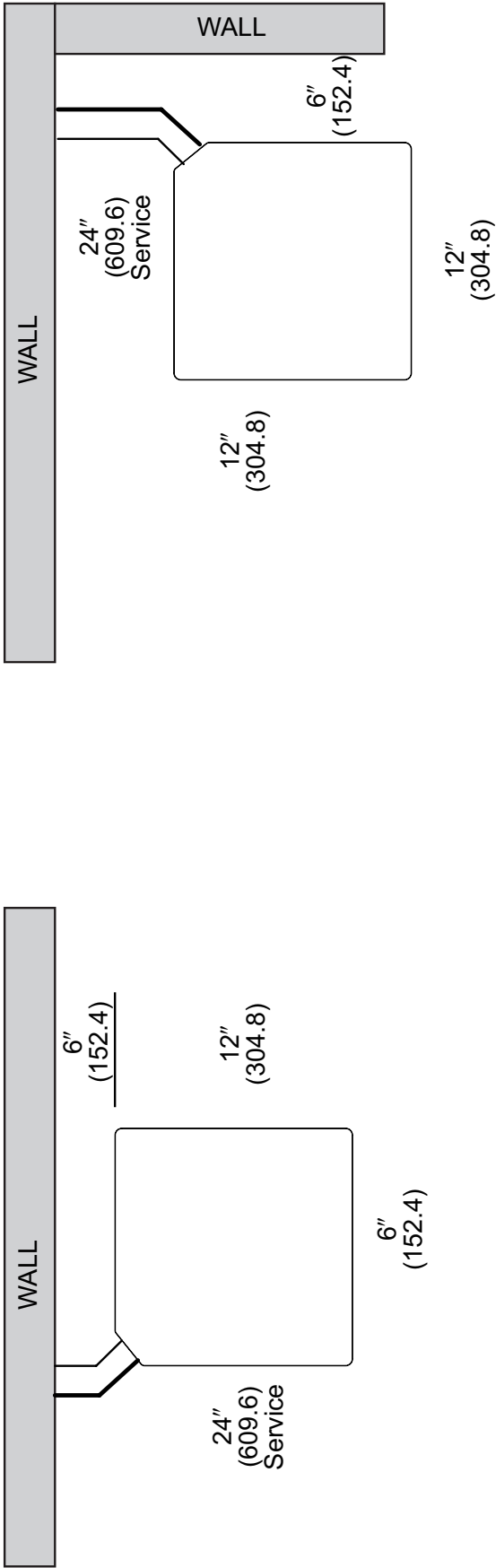
| Model No. | OPERATING  |      |            |     |           |     | SHIPPING   |      |            |     |           |     |
|-----------|------------|------|------------|-----|-----------|-----|------------|------|------------|-----|-----------|-----|
|           | H (Height) |      | L (Length) |     | W (Width) |     | H (Height) |      | L (Length) |     | W (Width) |     |
|           | Inches     | mm   | Inches     | mm  | Inches    | mm  | Inches     | mm   | Inches     | mm  | Inches    | mm  |
| RA15AY18  | 25.00      | 635  | 29.75      | 756 | 29.75     | 756 | 26.50      | 673  | 32.38      | 822 | 32.38     | 822 |
| RA15AY24  | 25.00      | 635  | 33.75      | 857 | 33.75     | 857 | 26.50      | 673  | 36.38      | 924 | 36.38     | 924 |
| RA15AY30  | 27.00      | 686  | 33.75      | 857 | 33.75     | 857 | 28.50      | 724  | 36.38      | 924 | 36.38     | 924 |
| RA15AY36  | 31.00      | 787  | 33.75      | 857 | 33.75     | 857 | 32.50      | 826  | 36.38      | 924 | 36.38     | 924 |
| RA15AY42  | 35.00      | 889  | 33.75      | 857 | 33.75     | 857 | 36.50      | 927  | 36.38      | 924 | 36.38     | 924 |
| RA15AY48  | 35.00      | 889  | 33.75      | 857 | 33.75     | 857 | 36.50      | 927  | 36.38      | 924 | 36.38     | 924 |
| RA15AY60  | 45.00      | 1143 | 35.75      | 908 | 35.75     | 908 | 46.50      | 1181 | 38.38      | 975 | 38.38     | 975 |



[ ] Designates Metric Conversions

ST-A1226-02-00

CLEARANCES



NOTE: NUMBERS IN ( ) = mm

IMPORTANT: When installing multiple units in an alcove, roof well or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.

## Refrigerant Line Size Information

| 15.2 SEER2 AC R-454B |                            |                             |                                                                               |         |         |          |          |          |          |          |          |          |
|----------------------|----------------------------|-----------------------------|-------------------------------------------------------------------------------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| Unit Size            | Allowable Liquid Line Size | Allowable Suction Line Size | Equivalent Length (Feet)                                                      |         |         |          |          |          |          |          |          |          |
|                      |                            |                             | 0-25                                                                          | 26-50   | 51-75   | 76-100   | 101-125  | 126-150  | 151-175  | 176-200  | 201-225  | 226-250  |
|                      |                            |                             | Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) */ Capacity Multiplier |         |         |          |          |          |          |          |          |          |
| 1.5 Ton              | 1/4"                       | 5/8"                        | 25/1                                                                          | 50/0.99 | 61/0.99 | 41/0.98  | 21/0.98  | 1/0.98   | 0/0.98   | 0/0.98   | 0/0.97   | 0/0.97   |
|                      | 5/16"                      | 5/8"                        | 25/1                                                                          | 50/0.99 | 75/0.99 | 100/0.98 | 98/0.98  | 93/0.98  | 87/0.98  | 82/0.98  | 78/0.97  | 75/0.97  |
|                      | 3/8"                       | 5/8"                        | 25/1                                                                          | 50/0.99 | 75/0.99 | 100/0.98 | 117/0.98 | 115/0.98 | 114/0.98 | 112/0.98 | 111/0.97 | 110/0.97 |
|                      | 1/4"                       | 3/4"                        | 25/1                                                                          | 50/1    | 61/1    | 41/0.99  | 21/0.99  | 1/0.99   | 0/0.99   | 0/0.99   | 0/0.99   | 0/0.98   |
|                      | 5/16"                      | 3/4"                        | 25/1                                                                          | 50/1    | 75/1    | 100/0.99 | 98/0.99  | 93/0.99  | 87/0.99  | 82/0.99  | 78/0.99  | 75/0.98  |
|                      | 3/8"                       | 3/4"                        | 25/1                                                                          | 50/1    | 75/1    | 100/0.99 | 117/0.99 | 115/0.99 | 114/0.99 | 112/0.99 | 111/0.99 | 110/0.98 |
| 2 Ton                | 1/4"                       | 5/8"                        | 25/1                                                                          | 50/0.99 | 25/0.98 | 0/0.98   | 0/0.98   | 0/0.97   | 0/0.96   | 0/0.97   | 0/0.96   | 0/0.95   |
|                      | 5/16"                      | 5/8"                        | 25/1                                                                          | 50/0.99 | 75/0.98 | 88/0.98  | 79/0.98  | 70/0.97  | 62/0.96  | 53/0.97  | 46/0.96  | 40/0.95  |
|                      | 3/8"                       | 5/8"                        | 25/1                                                                          | 50/0.99 | 75/0.98 | 100/0.98 | 109/0.98 | 106/0.97 | 103/0.96 | 100/0.97 | 97/0.96  | 94/0.95  |
|                      | 1/4"                       | 3/4"                        | 25/1                                                                          | 50/1    | 25/0.99 | 0/0.99   | 0/0.99   | 0/0.98   | 0/0.98   | 0/0.99   | 0/0.99   | 0/0.98   |
|                      | 5/16"                      | 3/4"                        | 25/1                                                                          | 50/1    | 75/0.99 | 88/0.99  | 79/0.99  | 70/0.98  | 62/0.98  | 53/0.99  | 46/0.99  | 40/0.98  |
|                      | 3/8"                       | 3/4"                        | 25/1                                                                          | 50/1    | 75/0.99 | 100/0.99 | 109/0.99 | 106/0.98 | 103/0.98 | 100/0.99 | 97/0.99  | 94/0.98  |
| 2.5 Ton              | 5/16"                      | 5/8"                        | 25/0.99                                                                       | 50/0.98 | 75/0.98 | 69/0.97  | 56/0.98  | 43/0.96  | 30/0.94  | 17/0.93  | 6/0.92   | 0/0.93   |
|                      | 3/8"                       | 5/8"                        | 25/0.99                                                                       | 50/0.98 | 75/0.98 | 100/0.97 | 101/0.98 | 96/0.96  | 92/0.94  | 87/0.93  | 83/0.92  | 78/0.93  |
|                      | 5/16"                      | 3/4"                        | 25/1                                                                          | 50/0.99 | 75/0.99 | 69/0.98  | 56/0.98  | 43/0.99  | 30/0.98  | 17/0.98  | 6/0.97   | 0/0.97   |
|                      | 3/8"                       | 3/4"                        | 25/1                                                                          | 50/0.99 | 75/0.99 | 100/0.98 | 101/0.98 | 96/0.99  | 92/0.98  | 87/0.98  | 83/0.97  | 78/0.97  |
| 3 Ton                | 5/16"                      | 5/8"                        | 25/0.99                                                                       | 50/0.98 | 65/0.97 | 47/0.97  | 28/0.94  | 11/0.93  | 0/0.92   | 0/0.91   | 0/0.9    | 0/0.9    |
|                      | 3/8"                       | 5/8"                        | 25/0.99                                                                       | 50/0.98 | 75/0.97 | 97/0.97  | 91/0.94  | 85/0.93  | 78/0.92  | 72/0.91  | 66/0.9   | 60/0.9   |
|                      | 5/16"                      | 3/4"                        | 25/1                                                                          | 50/0.99 | 65/0.98 | 47/0.99  | 28/0.98  | 11/0.98  | 0/0.97   | 0/0.96   | 0/0.96   | 0/0.98   |
|                      | 3/8"                       | 3/4"                        | 25/1                                                                          | 50/0.99 | 75/0.98 | 97/0.99  | 91/0.98  | 85/0.98  | 78/0.97  | 72/0.96  | 66/0.96  | 60/0.98  |
|                      | 1/2"                       | 3/4"                        | 25/1                                                                          | 50/0.99 | 75/0.98 | 100/0.99 | 118/0.98 | 117/0.98 | 115/0.97 | 115/0.96 | 114/0.96 | 112/0.98 |
|                      | 5/16"                      | 7/8"                        | 25/1                                                                          | 50/1    | 65/0.99 | 47/0.99  | 28/0.99  | 11/0.98  | 0/0.98   | 0/0.99   | 0/0.99   | 0/0.99   |
|                      | 3/8"                       | 7/8"                        | 25/1                                                                          | 50/1    | 75/0.99 | 97/0.99  | 91/0.99  | 85/0.98  | 78/0.98  | 72/0.99  | 66/0.99  | 60/0.99  |
|                      | 1/2"                       | 7/8"                        | 25/1                                                                          | 50/1    | 75/0.99 | 100/0.99 | 118/0.99 | 117/0.98 | 115/0.98 | 115/0.99 | 114/0.99 | 112/0.99 |
| 3.5 Ton              | 3/8"                       | 3/4"                        | 25/0.99                                                                       | 50/0.99 | 75/0.99 | 88/0.98  | 80/0.97  | 72/0.96  | 64/0.98  | 55/0.96  | 47/0.95  | 39/0.95  |
|                      | 1/2"                       | 3/4"                        | 25/0.99                                                                       | 50/0.99 | 75/0.99 | 100/0.98 | 116/0.97 | 114/0.96 | 112/0.98 | 111/0.96 | 109/0.95 | 108/0.95 |
|                      | 3/8"                       | 7/8"                        | 25/1                                                                          | 50/0.99 | 75/0.99 | 88/0.99  | 80/0.98  | 72/0.99  | 64/0.99  | 55/0.98  | 47/0.98  | 39/0.98  |
|                      | 1/2"                       | 7/8"                        | 25/1                                                                          | 50/0.99 | 75/0.99 | 100/0.99 | 116/0.98 | 114/0.99 | 112/0.99 | 111/0.98 | 109/0.98 | 108/0.98 |
| 4 Ton                | 3/8"                       | 3/4"                        | 25/0.99                                                                       | 50/0.98 | 75/0.98 | 78/0.97  | 68/0.96  | 57/0.97  | 46/0.95  | 36/0.94  | 25/0.93  | 15/0.93  |
|                      | 1/2"                       | 3/4"                        | 25/0.99                                                                       | 50/0.98 | 75/0.98 | 100/0.97 | 113/0.96 | 111/0.97 | 109/0.95 | 107/0.94 | 105/0.93 | 104/0.93 |
|                      | 3/8"                       | 7/8"                        | 25/1                                                                          | 50/0.99 | 75/0.99 | 78/0.98  | 68/0.99  | 57/0.98  | 46/0.98  | 36/0.98  | 25/0.97  | 15/0.97  |
|                      | 1/2"                       | 7/8"                        | 25/1                                                                          | 50/0.99 | 75/0.99 | 100/0.98 | 113/0.99 | 111/0.98 | 109/0.98 | 107/0.98 | 105/0.97 | 104/0.97 |
| 5 Ton                | 3/8"                       | 3/4"                        | 25/0.99                                                                       | 50/0.98 | 70/0.97 | 54/0.97  | 38/0.94  | 22/0.93  | 6/0.92   | 0/0.9    | 0/0.89   | 0/0.89   |
|                      | 1/2"                       | 3/4"                        | 25/0.99                                                                       | 50/0.98 | 75/0.97 | 100/0.97 | 107/0.94 | 104/0.93 | 101/0.92 | 97/0.9   | 95/0.89  | 93/0.89  |
|                      | 3/8"                       | 7/8"                        | 25/0.99                                                                       | 50/0.99 | 70/0.98 | 54/0.98  | 38/0.98  | 22/0.97  | 6/0.96   | 0/0.98   | 0/0.97   | 0/0.96   |
|                      | 1/2"                       | 7/8"                        | 25/0.99                                                                       | 50/0.99 | 75/0.98 | 100/0.98 | 107/0.98 | 104/0.97 | 101/0.96 | 97/0.98  | 95/0.97  | 93/0.96  |
|                      | 3/8"                       | 1-1/8"                      | 25/1                                                                          | 50/1    | 70/1    | 54/0.99  | 38/0.99  | 22/0.99  | 6/0.99   | 0/0.99   | 0/0.99   | 0/0.98   |
|                      | 1/2"                       | 1-1/8"                      | 25/1                                                                          | 50/1    | 75/1    | 100/0.99 | 107/0.99 | 104/0.99 | 101/0.99 | 97/0.99  | 95/0.99  | 93/0.98  |

## NOTES:

Maximum Equivalent Line Length may not exceed 250'.

Maximum Actual Line Length may not exceed 200'.

Light Grey shaded areas are considered long line and may require accessories as recommended in Long Line Set Guide.

DO NOT use suction line traps in the suction riser as this adds additional unwanted pressure drop in the system.

[ ] Designates Metric Conversions

## Refrigerant Line Size Information (Con't.)

| 15.2 SEER2 AC R-454B |                            |                             |                                                                               |          |           |           |           |           |         |         |           |           |
|----------------------|----------------------------|-----------------------------|-------------------------------------------------------------------------------|----------|-----------|-----------|-----------|-----------|---------|---------|-----------|-----------|
| Unit Size            | Allowable Liquid Line Size | Allowable Suction Line Size | Equivalent Length (Meters)                                                    |          |           |           |           |           |         |         |           |           |
|                      |                            |                             | 0-7.6                                                                         | 7.9-15.2 | 15.5-22.9 | 23.2-30.5 | 30.8-38.1 | 38.4-45.7 | 46-53.3 | 53.6-61 | 61.3-68.6 | 68.9-76.2 |
|                      |                            |                             | Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) */ Capacity Multiplier |          |           |           |           |           |         |         |           |           |
| 1.5 Ton              | 1/4"                       | 5/8"                        | 8/1                                                                           | 15/0.99  | 19/0.99   | 12/0.98   | 6/0.98    | 0/0.98    | 0/0.98  | 0/0.98  | 0/0.97    | 0/0.97    |
|                      | 5/16"                      | 5/8"                        | 8/1                                                                           | 15/0.99  | 23/0.99   | 30/0.98   | 30/0.98   | 28/0.98   | 27/0.98 | 25/0.98 | 24/0.97   | 23/0.97   |
|                      | 3/8"                       | 5/8"                        | 8/1                                                                           | 15/0.99  | 23/0.99   | 30/0.98   | 36/0.98   | 35/0.98   | 35/0.98 | 34/0.98 | 34/0.97   | 34/0.97   |
|                      | 1/4"                       | 3/4"                        | 8/1                                                                           | 15/1     | 19/1      | 12/0.99   | 6/0.99    | 0/0.99    | 0/0.99  | 0/0.99  | 0/0.99    | 0/0.98    |
|                      | 5/16"                      | 3/4"                        | 8/1                                                                           | 15/1     | 23/1      | 30/0.99   | 30/0.99   | 28/0.99   | 27/0.99 | 25/0.99 | 24/0.99   | 23/0.98   |
|                      | 3/8"                       | 3/4"                        | 8/1                                                                           | 15/1     | 23/1      | 30/0.99   | 36/0.99   | 35/0.99   | 35/0.99 | 34/0.99 | 34/0.99   | 34/0.98   |
| 2 Ton                | 1/4"                       | 5/8"                        | 8/1                                                                           | 15/0.99  | 8/0.98    | 0/0.98    | 0/0.98    | 0/0.97    | 0/0.96  | 0/0.97  | 0/0.96    | 0/0.95    |
|                      | 5/16"                      | 5/8"                        | 8/1                                                                           | 15/0.99  | 23/0.98   | 27/0.98   | 24/0.98   | 21/0.97   | 19/0.96 | 16/0.97 | 14/0.96   | 12/0.95   |
|                      | 3/8"                       | 5/8"                        | 8/1                                                                           | 15/0.99  | 23/0.98   | 30/0.98   | 33/0.98   | 32/0.97   | 31/0.96 | 30/0.97 | 30/0.96   | 29/0.95   |
|                      | 1/4"                       | 3/4"                        | 8/1                                                                           | 15/1     | 8/0.99    | 0/0.99    | 0/0.99    | 0/0.98    | 0/0.98  | 0/0.99  | 0/0.99    | 0/0.98    |
|                      | 5/16"                      | 3/4"                        | 8/1                                                                           | 15/1     | 23/0.99   | 27/0.99   | 24/0.99   | 21/0.98   | 19/0.98 | 16/0.99 | 14/0.99   | 12/0.98   |
|                      | 3/8"                       | 3/4"                        | 8/1                                                                           | 15/1     | 23/0.99   | 30/0.99   | 33/0.99   | 32/0.98   | 31/0.98 | 30/0.99 | 30/0.99   | 29/0.98   |
| 2.5 Ton              | 5/16"                      | 5/8"                        | 8/0.99                                                                        | 15/0.98  | 23/0.98   | 21/0.97   | 17/0.98   | 13/0.96   | 9/0.94  | 5/0.93  | 2/0.92    | 0/0.93    |
|                      | 3/8"                       | 5/8"                        | 8/0.99                                                                        | 15/0.98  | 23/0.98   | 30/0.97   | 31/0.98   | 29/0.96   | 28/0.94 | 27/0.93 | 25/0.92   | 24/0.93   |
|                      | 5/16"                      | 3/4"                        | 8/1                                                                           | 15/0.99  | 23/0.99   | 21/0.98   | 17/0.98   | 13/0.99   | 9/0.98  | 5/0.98  | 2/0.97    | 0/0.97    |
|                      | 3/8"                       | 3/4"                        | 8/1                                                                           | 15/0.99  | 23/0.99   | 30/0.98   | 31/0.98   | 29/0.99   | 28/0.98 | 27/0.98 | 25/0.97   | 24/0.97   |
| 3 Ton                | 5/16"                      | 5/8"                        | 8/0.99                                                                        | 15/0.98  | 20/0.97   | 14/0.97   | 9/0.94    | 3/0.93    | 0/0.92  | 0/0.91  | 0/0.9     | 0/0.9     |
|                      | 3/8"                       | 5/8"                        | 8/0.99                                                                        | 15/0.98  | 23/0.97   | 30/0.97   | 28/0.94   | 26/0.93   | 24/0.92 | 22/0.91 | 20/0.9    | 18/0.9    |
|                      | 5/16"                      | 3/4"                        | 8/1                                                                           | 15/0.99  | 20/0.98   | 14/0.99   | 9/0.98    | 3/0.98    | 0/0.97  | 0/0.96  | 0/0.96    | 0/0.98    |
|                      | 3/8"                       | 3/4"                        | 8/1                                                                           | 15/0.99  | 23/0.98   | 30/0.99   | 28/0.98   | 26/0.98   | 24/0.97 | 22/0.96 | 20/0.96   | 18/0.98   |
|                      | 1/2"                       | 3/4"                        | 8/1                                                                           | 15/0.99  | 23/0.98   | 30/0.99   | 36/0.98   | 36/0.98   | 35/0.97 | 35/0.96 | 35/0.96   | 34/0.98   |
|                      | 5/16"                      | 7/8"                        | 8/1                                                                           | 15/1     | 20/0.99   | 14/0.99   | 9/0.99    | 3/0.98    | 0/0.98  | 0/0.99  | 0/0.99    | 0/0.99    |
|                      | 3/8"                       | 7/8"                        | 8/1                                                                           | 15/1     | 23/0.99   | 30/0.99   | 28/0.99   | 26/0.98   | 24/0.98 | 22/0.99 | 20/0.99   | 18/0.99   |
|                      | 1/2"                       | 7/8"                        | 8/1                                                                           | 15/1     | 23/0.99   | 30/0.99   | 36/0.99   | 36/0.98   | 35/0.98 | 35/0.99 | 35/0.99   | 34/0.99   |
| 3.5 Ton              | 3/8"                       | 3/4"                        | 8/0.99                                                                        | 15/0.99  | 23/0.99   | 27/0.98   | 24/0.97   | 22/0.96   | 20/0.98 | 17/0.96 | 14/0.95   | 12/0.95   |
|                      | 1/2"                       | 3/4"                        | 8/0.99                                                                        | 15/0.99  | 23/0.99   | 30/0.98   | 35/0.97   | 35/0.96   | 34/0.98 | 34/0.96 | 33/0.95   | 33/0.95   |
|                      | 3/8"                       | 7/8"                        | 8/1                                                                           | 15/0.99  | 23/0.99   | 27/0.99   | 24/0.98   | 22/0.99   | 20/0.99 | 17/0.98 | 14/0.98   | 12/0.98   |
|                      | 1/2"                       | 7/8"                        | 8/1                                                                           | 15/0.99  | 23/0.99   | 30/0.99   | 35/0.98   | 35/0.99   | 34/0.99 | 34/0.98 | 33/0.98   | 33/0.98   |
| 4 Ton                | 3/8"                       | 3/4"                        | 8/0.99                                                                        | 15/0.98  | 23/0.98   | 24/0.97   | 21/0.96   | 17/0.97   | 14/0.95 | 11/0.94 | 8/0.93    | 5/0.93    |
|                      | 1/2"                       | 3/4"                        | 8/0.99                                                                        | 15/0.98  | 23/0.98   | 30/0.97   | 34/0.96   | 34/0.97   | 33/0.95 | 33/0.94 | 32/0.93   | 32/0.93   |
|                      | 3/8"                       | 7/8"                        | 8/1                                                                           | 15/0.99  | 23/0.99   | 24/0.98   | 21/0.99   | 17/0.98   | 14/0.98 | 11/0.98 | 8/0.97    | 5/0.97    |
|                      | 1/2"                       | 7/8"                        | 8/1                                                                           | 15/0.99  | 23/0.99   | 30/0.98   | 34/0.99   | 34/0.98   | 33/0.98 | 33/0.98 | 32/0.97   | 32/0.97   |
| 5 Ton                | 3/8"                       | 3/4"                        | 8/0.99                                                                        | 15/0.98  | 21/0.97   | 16/0.97   | 12/0.94   | 7/0.93    | 2/0.92  | 0/0.9   | 0/0.89    | 0/0.89    |
|                      | 1/2"                       | 3/4"                        | 8/0.99                                                                        | 15/0.98  | 23/0.97   | 30/0.97   | 33/0.94   | 32/0.93   | 31/0.92 | 30/0.9  | 29/0.89   | 28/0.89   |
|                      | 3/8"                       | 7/8"                        | 8/0.99                                                                        | 15/0.99  | 21/0.98   | 16/0.98   | 12/0.98   | 7/0.97    | 2/0.96  | 0/0.98  | 0/0.97    | 0/0.96    |
|                      | 1/2"                       | 7/8"                        | 8/0.99                                                                        | 15/0.99  | 23/0.98   | 30/0.98   | 33/0.98   | 32/0.97   | 31/0.96 | 30/0.98 | 29/0.97   | 28/0.96   |
|                      | 3/8"                       | 1-1/8"                      | 8/1                                                                           | 15/1     | 21/1      | 16/0.99   | 12/0.99   | 7/0.99    | 2/0.99  | 0/0.99  | 0/0.99    | 0/0.98    |
|                      | 1/2"                       | 1-1/8"                      | 8/1                                                                           | 15/1     | 23/1      | 30/0.99   | 33/0.99   | 32/0.99   | 31/0.99 | 30/0.99 | 29/0.99   | 28/0.98   |

### NOTES:

Maximum Equivalent Line Length may not exceed 76 meters.

Maximum Actual Line Length may not exceed 61 meters.

Light Grey shaded areas are considered long line and may require accessories as recommended in Long Line Set Guide.

**DO NOT** use suction line traps in the suction riser as this adds additional unwanted pressure drop in the system.

## Performance Data @ AHRI Standard Conditions – Cooling

| Designated Tested Combination (DTC) |              |                              |                            |                          |       |      |                     |
|-------------------------------------|--------------|------------------------------|----------------------------|--------------------------|-------|------|---------------------|
| Outdoor Unit                        | Indoor Coil  | Total Capacity<br>BTU/H [kW] | Net Sensible<br>BTU/H [kW] | Net Latent<br>BTU/H [kW] | SEER2 | EER2 | Indoor CFM<br>[L/s] |
| RA15AY18AJ1                         | RCFY2417STAN | 17,100 [5.0]                 | 13,100 [3.8]               | 4,000 [1.2]              | 14.3  | 11.7 | 600 [283.2]         |
| RA15AY24AJ1                         | RCFY2417STAN | 22,800 [6.7]                 | 17,500 [5.1]               | 5,300 [1.6]              | 14.3  | 11.7 | 735 [346.9]         |
| RA15AY30AJ1                         | RCFY3621MTAN | 28,600 [8.4]                 | 21,800 [6.4]               | 6,800 [2.0]              | 14.3  | 11.7 | 910 [429.5]         |
| RA15AY36AJ1                         | RCFY3621MTAN | 34,000 [10.0]                | 26,000 [7.6]               | 8,000 [2.3]              | 14.3  | 11.7 | 1,030 [486.1]       |
| RA15AY42AJ1                         | RCFY4221STAA | 40,000 [11.7]                | 30,700 [9.0]               | 9,300 [2.7]              | 14.3  | 11.7 | 1,300 [613.5]       |
| RA15AY48AJ1                         | RCFY4821STAA | 45,500 [13.3]                | 34,900 [10.2]              | 10,600 [3.1]             | 13.8  | 11.7 | 1,425 [672.5]       |
| RA15AY60AJ1                         | RCFY6024STAN | 56,000 [16.4]                | 42,900 [12.6]              | 13,100 [3.8]             | 13.8  | 11.7 | 1,575 [743.3]       |
| RA15AY36AC1                         | RCFY3621MTAN | 33,600 [9.8]                 | 25,200 [7.4]               | 8,400 [2.5]              | 14.3  | 11.7 | 1,030 [486.1]       |
| RA15AY42AC1                         | RCFY4221STAA | 40,000 [11.7]                | 30,700 [9.0]               | 9,300 [2.7]              | 14.3  | 11.7 | 1,300 [613.5]       |
| RA15AY48AC1                         | RCFY4821STAA | 45,500 [13.3]                | 34,900 [10.2]              | 10,600 [3.1]             | 13.8  | 11.7 | 1,425 [672.5]       |
| RA15AY60AC1                         | RCFY6024STAN | 56,000 [16.4]                | 42,900 [12.6]              | 13,100 [3.8]             | 13.8  | 11.7 | 1,575 [743.3]       |
| RA15AY36AD1                         | RCFY3621MTAN | 33,600 [9.8]                 | 25,200 [7.4]               | 8,400 [2.5]              | 14.3  | 11.7 | 1,030 [486.1]       |
| RA15AY42AD1                         | RCFY4221STAA | 40,000 [11.7]                | 30,700 [9.0]               | 9,300 [2.7]              | 14.3  | 11.7 | 1,300 [613.5]       |
| RA15AY48AD1                         | RCFY4821STAA | 45,500 [13.3]                | 34,900 [10.2]              | 10,600 [3.1]             | 13.8  | 11.7 | 1,425 [672.5]       |
| RA15AY60AD1                         | RCFY6024STAN | 56,000 [16.4]                | 42,900 [12.6]              | 13,100 [3.8]             | 13.8  | 11.7 | 1,575 [743.3]       |

**NOTE:** This data includes DTC (Designated Test Combination) ratings and is for reference purposes only. A full listing of official ratings and system match-ups, along with downloadable certificates, can be accessed from the AHRI website: [www.ahridirectory.org](http://www.ahridirectory.org).

[ ] Designates Metric Conversions



## GENERAL TERMS OF LIMITED WARRANTY\*

Ruud will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

Conditional Parts  
(Registration Required)..... Ten (10) Years

**\*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

**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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*In keeping with its policy of continuous progress and product improvement, Ruud reserves the right to make changes without notice.*

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