



## Endeavor® Line Achiever® Series iM Air Conditioners



### RA14AZ

Cooling Efficiency up to: 16 SEER2 / 13 EER2

Nominal Sizes: 1.5 to 5 Ton [5.28 to 17.6 kW]

Cooling Capacities: 17.1 to 55.5 kBTU [5.0 to 16.3 kW]



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## Features and Benefits

- **Lighter Footprint & Less Environmental Impact from New 7mm Condenser Coil:** Provided by a decrease in refrigerant requirements and an overall weight reduction
- **Efficient Cooling:** Up to 16 SEER2/13 EER2
- **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 – makes repairs easier and faster. The two fastener, removable corner allows optimal access to internal unit components. Individual louver panels come out once fastener is removed, for faster coil cleaning and easier cabinet reassembly
- **System Matching Simplicity:** Matches to all tiers of gas furnaces
- **Modern Cabinet Aesthetics:** High curb appeal with visually appealing design
- **Curved Louver Panels:** Provide ultimate coil protection, enhance cabinet strength, and increased cabinet rigidity
- **Diagnostic Service Window:** With two-fastener opening – provides access to the high and low pressure
- **External Gauge Port Access:** Allows easy connection of “low-loss” gauge ports
- **QR Code:** Provides technical information on demand for faster service calls
- **Fan Motor Harness:** With extra-long wires allows unit top to be removed without disconnecting fan wire

Air Conditioners

| <u>R</u> | <u>A</u>             | <u>14</u>            | <u>A</u> | <u>Z</u>    | <u>24</u>                                                                                                                                                                       | <u>A</u>       | <u>J</u>            | <u>1</u>         | <u>N</u>              | <u>A</u>       | <u>LHP</u>   |
|----------|----------------------|----------------------|----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|------------------|-----------------------|----------------|--------------|
| Brand    | Product Category     | SEER2                | Region   | Refrigerant | Capacity BTU/HR                                                                                                                                                                 | Major Series   | Voltage             | Type             | Controls              | Minor Series   | Option Code  |
| R - Ruud | A - Air Conditioners | 14 - 13.8/14.3 SEER2 | A - All  | Z - R-410A  | 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, 208-230/60 | 1 - Single Stage | N - Non-Communicating | A - 1st Design | LHP - W/HLPC |

[ ] Designates Metric Conversions

| AVAILABLE MODELS | DESCRIPTION                                                                                                                    |
|------------------|--------------------------------------------------------------------------------------------------------------------------------|
| RA14AZ18AJ1NA    | Endeavor® Line <i>Achiever</i> ® Series 1 1/2 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60                      |
| RA14AZ18AJ1NALHP | Endeavor® Line <i>Achiever</i> ® Series 1 1/2 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60 |
| RA14AZ24AJ1NA    | Endeavor® Line <i>Achiever</i> ® Series 2 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60                          |
| RA14AZ24AJ1NALHP | Endeavor® Line <i>Achiever</i> ® Series 2 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60     |
| RA14AZ30AJ1NA    | Endeavor® Line <i>Achiever</i> ® Series 2 1/2 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60                      |
| RA14AZ30AJ1NALHP | Endeavor® Line <i>Achiever</i> ® Series 2 1/2 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60 |
| RA14AZ36AJ1NA    | Endeavor® Line <i>Achiever</i> ® Series 3 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60                          |
| RA14AZ36AJ1NALHP | Endeavor® Line <i>Achiever</i> ® Series 3 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60     |
| RA14AZ42AJ1NA    | Endeavor® Line <i>Achiever</i> ® Series 3 1/2 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60                      |
| RA14AZ42AJ1NALHP | Endeavor® Line <i>Achiever</i> ® Series 3 1/2 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60 |
| RA14AZ48AJ1NA    | Endeavor® Line <i>Achiever</i> ® Series 4 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60                          |
| RA14AZ48AJ1NALHP | Endeavor® Line <i>Achiever</i> ® Series 4 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60     |
| RA14AZ60AJ1NA    | Endeavor® Line <i>Achiever</i> ® Series 5 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60                          |
| RA14AZ60AJ1NALHP | Endeavor® Line <i>Achiever</i> ® Series 5 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60     |

| STANDARD EQUIPMENT                  |
|-------------------------------------|
| R-410A Refrigerant                  |
| Scroll Compressor                   |
| Field Installed Filter Drier        |
| Front Seating Service Valves        |
| Internal Pressure Relief Valve      |
| Internal Thermal Overload           |
| Long Line capability                |
| Low Ambient capability with Kit     |
| 3-4-5 Expanded Valve Space          |
| Composite Basepan                   |
| 2 Screw Control Box Access          |
| 15" Access to Internal Components   |
| Quick release louver panel design   |
| No fasteners to remove along bottom |
| Optimized Venturi Airflow           |
| Powder coated paint                 |
| Rust resistant screws               |
| QR code                             |
| External gauge ports                |
| Service trays                       |

| General Data                                       |              |              |              |              |              |              |              |
|----------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| MODEL NO.                                          | RA14AZ18     | RA14AZ24     | RA14AZ30     | RA14AZ36     | RA14AZ42     | RA14AZ48     | RA14AZ60     |
| 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 (R410A) furnished oz. <sup>1</sup>     | 94           | 115          | 120          | 124          | 149          | 153          | 203          |
| Compressor Type                                    | Scroll       |              |              |              |              |              |              |
| Outdoor Coil                                       |              |              |              |              |              |              |              |
| Net face area – Outer Coil                         | 10.9         | 13.3         | 14.3         | 16.4         | 19.5         | 19.5         | 32.5         |
| Net face area – Inner Coil                         | 10.5         | 12.9         | 13.9         | 15.9         | 18.8         | 18.8         | —            |
| Tube diameter – in.                                | 0.276        | 0.276        | 0.276        | 0.276        | 0.276        | 0.276        | 0.375        |
| Number of rows                                     | 2            | 2            | 2            | 2            | 2            | 2            | 1            |
| Fins per inch                                      | 24           | 24           | 24           | 24           | 24           | 24           | 22           |
| 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          | 1/3          |
| CFM                                                | 2156         | 2723         | 2830         | 2991         | 3655         | 3655         | 5178         |
| RPM                                                | 1075         | 825          | 825          | 825          | 850          | 850          | 910          |
| Watts                                              | 152          | 161          | 165          | 145          | 214          | 214          | 271          |
| Shipping weight – lbs.                             | 151          | 185          | 197          | 217          | 259          | 250          | 294          |
| Operating weight – lbs.                            | 144          | 178          | 190          | 210          | 252          | 243          | 287          |
| 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> | 20           | 25           | 30           | 30           | 40           | 40           | 60           |
| Minimum circuit ampacity <sup>3</sup>              | 14           | 18           | 19           | 20           | 24           | 24           | 40           |
| Compressor                                         |              |              |              |              |              |              |              |
| Rated load amps                                    | 9            | 12           | 14           | 13           | 18           | 18           | 26           |
| Locked rotor amps                                  | 43           | 60           | 68           | 83           | 110          | 102          | 150          |
| Condenser Fan Motor                                |              |              |              |              |              |              |              |
| Full load amps                                     | 0.8          | 0.8          | 0.8          | 0.8          | 1.0          | 1.0          | 2.8          |
| Locked rotor amps                                  | 1.5          | 1.5          | 1.7          | 1.7          | 2.6          | 2.6          | —            |

<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.                                       |                | RA14AZ18       | RA14AZ24       | RA14AZ30       | RA14AZ36       | RA14AZ42       | RA14AZ48       | RA14AZ60       |
|-------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Compressor crankcase heater*                    |                | 44-17402-44    | 44-17402-44    | 44-17402-44    | 44-17402-44    | 44-17402-45    | 44-17402-45    | 44-17402-45    |
| 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-A07       | RXAC-A07       | RXAC-A07       | RXAC-A07       | RXAC-A07       | RXAC-A07       | RXAC-A07       |
| High pressure control                           |                | RXAB-A07       | RXAB-A07       | RXAB-A07       | RXAB-A07       | RXAB-A07       | RXAB-A07       | RXAB-A07       |
| Liquid Line Solenoid<br>(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<br>(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 |
| Classic Top Cap w/Label                         |                | 91-101123-21   | 91-101123-21   | 91-101123-21   | 91-101123-21   | 91-101123-21   | 91-101123-21   | 91-101123-21   |

\*Crankcase Heater recommended with Low Ambient Kit.

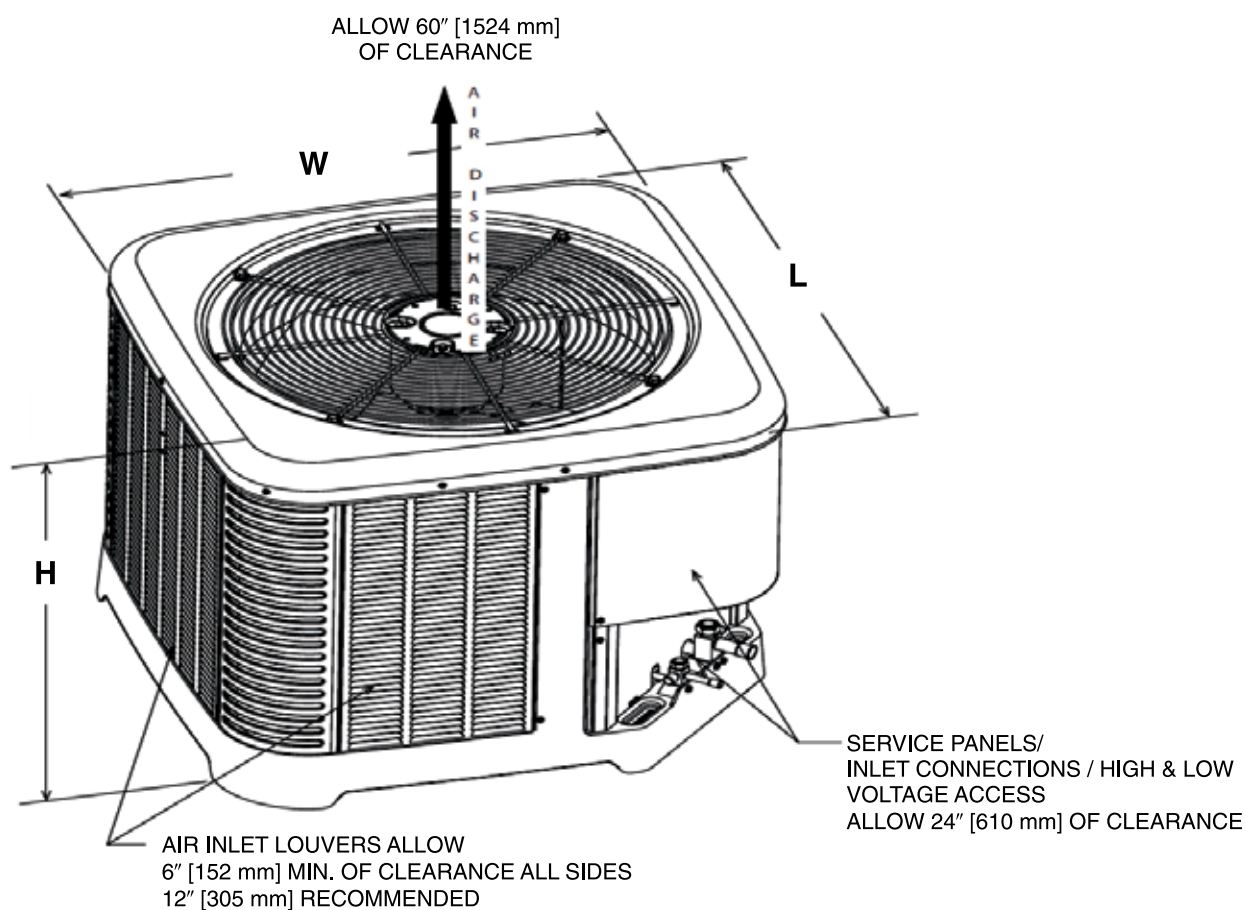
Weighted Sound Power Level (dBA)

| UNIT SIZE–<br>VOLTAGE, SERIES | STANDARD<br>RATING (dBA) | TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment) |      |      |      |      |      |      |
|-------------------------------|--------------------------|------------------------------------------------------------|------|------|------|------|------|------|
|                               |                          | 125                                                        | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| RA14AZ18                      | 70.7                     | 48.2                                                       | 56.0 | 61.9 | 61.0 | 56.5 | 53.5 | 45.7 |
| RA14AZ24                      | 68.5                     | 44.6                                                       | 53.6 | 58.7 | 58.0 | 55.5 | 50.5 | 45.7 |
| RA14AZ30                      | 70.8                     | 45.1                                                       | 54.5 | 59.8 | 59.0 | 56.8 | 53.8 | 45.9 |
| RA14AZ36                      | 71.6                     | 45.4                                                       | 52.6 | 60.2 | 60.8 | 58.7 | 55.9 | 48.4 |
| RA14AZ42                      | 72.5                     | 46.6                                                       | 55.3 | 63.9 | 62.1 | 59.4 | 55.2 | 48.2 |
| RA14AZ48                      | 74.0                     | 45.4                                                       | 55.7 | 64.2 | 62.9 | 60.8 | 56.7 | 51.2 |
| RA14AZ60                      | 75.8                     | 43.4                                                       | 59.8 | 67.2 | 65.5 | 62.7 | 59.2 | 53.1 |

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

## Unit Dimensions

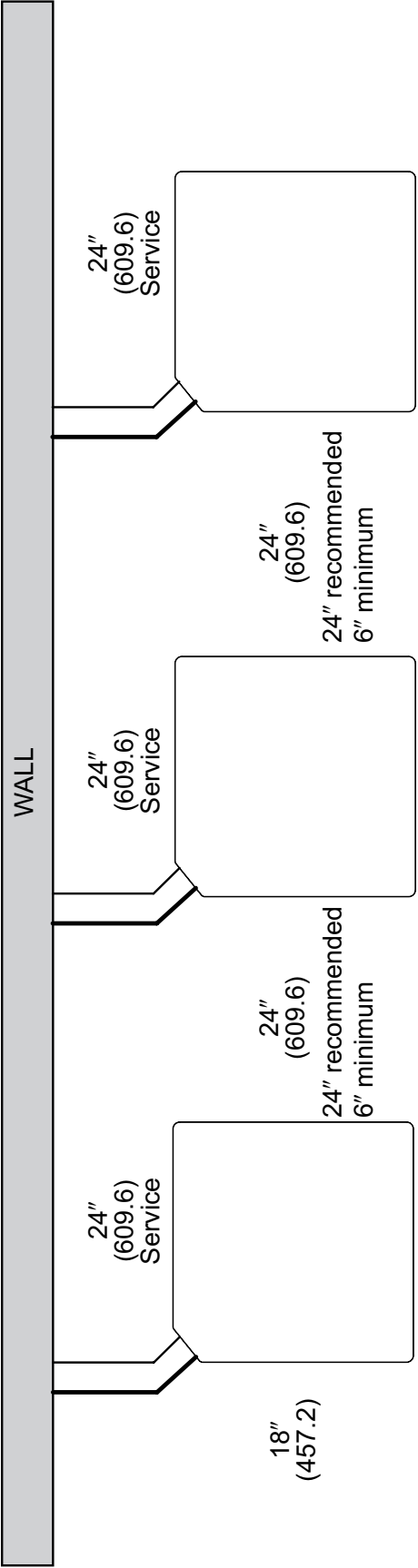
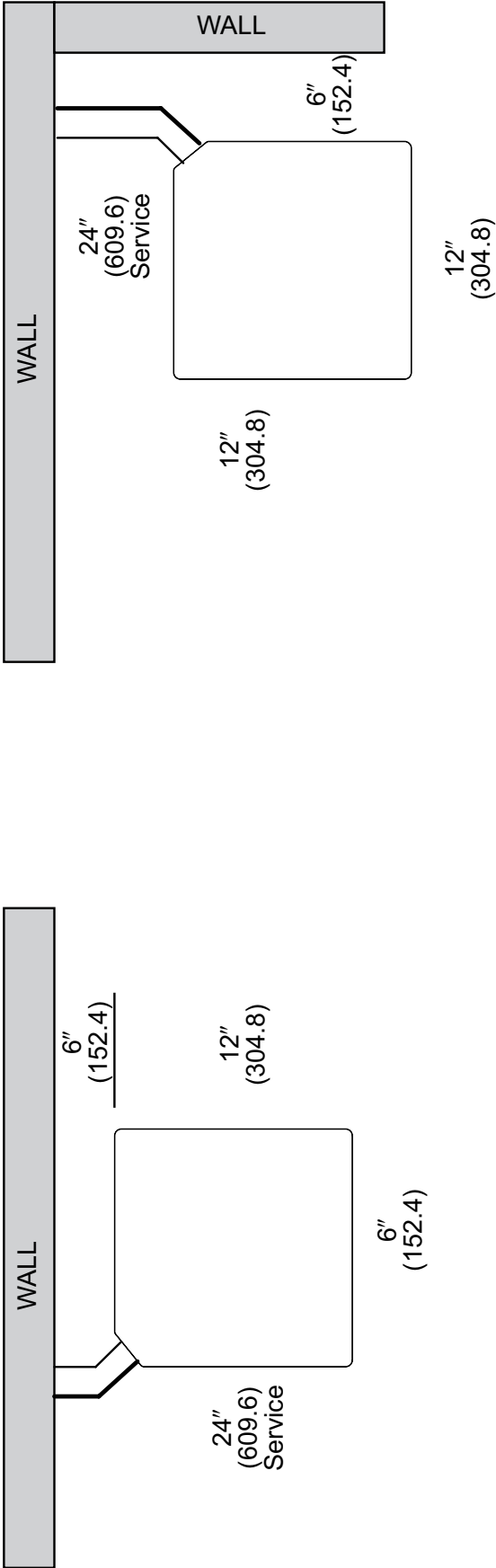
| MODEL NO. | OPERATING  |      |            |     |           |     | SHIPPING   |      |            |     |           |     |
|-----------|------------|------|------------|-----|-----------|-----|------------|------|------------|-----|-----------|-----|
|           | H (Height) |      | L (Length) |     | W (Width) |     | H (Height) |      | L (Length) |     | W (Width) |     |
|           | INCHES     | mm   | INCHES     | mm  | INCHES    | mm  | INCHES     | mm   | INCHES     | mm  | INCHES    | mm  |
| RA14AZ18  | 25.00      | 635  | 29.75      | 756 | 29.75     | 756 | 26.50      | 673  | 32.38      | 822 | 32.38     | 822 |
| RA14AZ24  | 25.00      | 635  | 33.75      | 857 | 33.75     | 857 | 26.50      | 673  | 36.38      | 924 | 36.38     | 924 |
| RA14AZ30  | 27.00      | 686  | 33.75      | 857 | 33.75     | 857 | 28.50      | 724  | 36.38      | 924 | 36.38     | 924 |
| RA14AZ36  | 31.00      | 787  | 33.75      | 857 | 33.75     | 857 | 32.50      | 826  | 36.38      | 924 | 36.38     | 924 |
| RA14AZ42  | 35.00      | 889  | 33.75      | 857 | 33.75     | 857 | 36.50      | 927  | 36.38      | 924 | 36.38     | 924 |
| RA14AZ48  | 35.00      | 889  | 33.75      | 857 | 33.75     | 857 | 36.50      | 927  | 36.38      | 924 | 36.38     | 924 |
| RA14AZ60  | 51.00      | 1295 | 35.75      | 908 | 35.75     | 908 | 52.50      | 1334 | 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

| 14.3 SEER2 SINGLE-STAGE AIR CONDITIONERS |                                  |                                   |                                                                                            |                                                                                |           |           |            |            |            |            |            |            |            |
|------------------------------------------|----------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| UNIT<br>SIZE                             | ALLOWABLE<br>LIQUID LINE<br>SIZE | ALLOWABLE<br>SUCTION LINE<br>SIZE | APPLY LONG LINE<br>GUIDELINES IF LINEAR LINE<br>LENGTH EXCEEDS THOSE<br>SHOWN BELOW (FEET) | EQUIVALENT LENGTH (FEET)                                                       |           |           |            |            |            |            |            |            |            |
|                                          |                                  |                                   |                                                                                            | < 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<br>**SEE<br>NOTE 3               | 1/4"                             | 5/8"                              | N/A                                                                                        | 25 / 1.00                                                                      | 50 / 0.99 | 62 / 0.98 | 43 / 0.98  | 24 / 0.97  | 5 / 0.97   | NR         | NR         | NR         | NR         |
|                                          | 5/16"                            | 5/8"                              | 223                                                                                        | 25 / 1.00                                                                      | 50 / 0.99 | 75 / 0.98 | 98 / 0.98  | 93 / 0.97  | 88 / 0.97  | 83 / 0.96  | 78 / 0.96  | 73 / 0.95  | 68 / 0.94  |
|                                          | 3/8"                             | 5/8"                              | 148                                                                                        | 25 / 1.00                                                                      | 50 / 0.99 | 75 / 0.98 | 100 / 0.98 | 100 / 0.97 | 100 / 0.97 | 100 / 0.96 | 100 / 0.96 | 100 / 0.95 | 100 / 0.94 |
|                                          | 1/4"                             | 3/4"***                           | N/A                                                                                        | 25 / 1.00                                                                      | 50 / 1.00 | 62 / 0.99 | 43 / 0.99  | 24 / 0.99  | 5 / 0.99   | NR         | NR         | NR         | NR         |
|                                          | 5/16"                            | 3/4"***                           | 223                                                                                        | 25 / 1.00                                                                      | 50 / 1.00 | 75 / 0.99 | 98 / 0.99  | 93 / 0.99  | 88 / 0.99  | 83 / 0.99  | 78 / 0.98  | 73 / 0.98  | 68 / 0.98  |
|                                          | 3/8"                             | 3/4"***                           | 148                                                                                        | 25 / 1.00                                                                      | 50 / 1.00 | 75 / 1.00 | 100 / 0.99 | 100 / 0.99 | 100 / 0.99 | 100 / 0.99 | 100 / 0.98 | 100 / 0.98 | 100 / 0.98 |
| 2 Ton                                    | 1/4"                             | 5/8"                              | N/A                                                                                        | 25 / 0.99                                                                      | 50 / 0.98 | 21 / 0.97 | NR         | NR         | NR         | NR         | NR         | NR         | NR         |
|                                          | 5/16"                            | 5/8"                              | 213                                                                                        | 25 / 0.99                                                                      | 50 / 0.98 | 75 / 0.97 | 87 / 0.96  | 77 / 0.95  | 69 / 0.94  | 61 / 0.93  | 53 / 0.92  | 45 / 0.91  | 37 / 0.90  |
|                                          | 3/8"                             | 5/8"                              | 142                                                                                        | 25 / 0.99                                                                      | 50 / 0.98 | 75 / 0.97 | 100 / 0.96 | 100 / 0.95 | 100 / 0.94 | 98 / 0.93  | 95 / 0.92  | 92 / 0.91  | 89 / 0.90  |
|                                          | 1/4"                             | 3/4"                              | N/A                                                                                        | 25 / 1.00                                                                      | 50 / 1.00 | 21 / 0.99 | NR         | NR         | NR         | NR         | NR         | NR         | NR         |
|                                          | 5/16"                            | 3/4"                              | 213                                                                                        | 25 / 1.00                                                                      | 50 / 1.00 | 75 / 0.99 | 87 / 0.99  | 77 / 0.98  | 69 / 0.98  | 61 / 0.98  | 53 / 0.97  | 45 / 0.97  | 37 / 0.96  |
|                                          | 3/8"                             | 3/4"                              | 142                                                                                        | 25 / 1.00                                                                      | 50 / 1.00 | 75 / 0.99 | 100 / 0.99 | 100 / 0.98 | 100 / 0.98 | 98 / 0.98  | 95 / 0.97  | 93 / 0.97  | 90 / 0.96  |
| 2.5 Ton                                  | 5/16"                            | 5/8"                              | N/A                                                                                        | 25 / 0.99                                                                      | 50 / 0.98 | 75 / 0.96 | 70 / 0.94  | 59 / 0.93  | 48 / 0.91  | 36 / 0.90  | NR         | NR         | NR         |
|                                          | 3/8"                             | 5/8"                              | 117                                                                                        | 25 / 0.99                                                                      | 50 / 0.98 | 75 / 0.96 | 100 / 0.94 | 98 / 0.93  | 94 / 0.91  | 90 / 0.90  | NR         | NR         | NR         |
|                                          | 5/16"                            | 3/4"                              | 175                                                                                        | 25 / 1.00                                                                      | 50 / 0.99 | 75 / 0.99 | 70 / 0.98  | 59 / 0.98  | 48 / 0.97  | 36 / 0.96  | 25 / 0.96  | 13 / 0.95  | NR         |
|                                          | 3/8"                             | 3/4"                              | 117                                                                                        | 25 / 1.00                                                                      | 50 / 0.99 | 75 / 0.99 | 100 / 0.98 | 98 / 0.98  | 94 / 0.97  | 90 / 0.96  | 86 / 0.96  | 82 / 0.95  | 78 / 0.95  |
|                                          | 5/16"                            | 5/8"                              | N/A                                                                                        | 25 / 0.99                                                                      | 50 / 0.97 | 66 / 0.94 | 49 / 0.92  | 32 / 0.90  | NR         | NR         | NR         | NR         | NR         |
|                                          | 3/8"                             | 5/8"                              | 85                                                                                         | 25 / 0.99                                                                      | 50 / 0.97 | 75 / 0.94 | 95 / 0.92  | 89 / 0.90  | NR         | NR         | NR         | NR         | NR         |
| 3 Ton                                    | 5/16"                            | 3/4"                              | 128                                                                                        | 25 / 1.00                                                                      | 50 / 0.99 | 66 / 0.98 | 49 / 0.98  | 32 / 0.97  | 15 / 0.96  | NR         | NR         | NR         | NR         |
|                                          | 3/8"                             | 3/4"                              | 85                                                                                         | 25 / 1.00                                                                      | 50 / 0.99 | 75 / 0.98 | 95 / 0.98  | 89 / 0.97  | 84 / 0.96  | 78 / 0.95  | 72 / 0.94  | 67 / 0.93  | 61 / 0.93  |
|                                          | 1/2"                             | 3/4"                              | 43                                                                                         | 25 / 1.00                                                                      | 50 / 0.99 | 75 / 0.98 | 100 / 0.98 | 100 / 0.97 | 100 / 0.96 | 100 / 0.95 | 100 / 0.94 | 100 / 0.93 | 100 / 0.93 |
|                                          | 5/16"                            | 7/8"                              | 128                                                                                        | 25 / 1.00                                                                      | 50 / 1.00 | 66 / 1.00 | 49 / 0.99  | 32 / 0.99  | 15 / 0.99  | NR         | NR         | NR         | NR         |
|                                          | 3/8"                             | 7/8"                              | 85                                                                                         | 25 / 1.00                                                                      | 50 / 1.00 | 75 / 1.00 | 95 / 0.99  | 89 / 0.99  | 84 / 0.99  | 78 / 0.98  | 72 / 0.98  | 67 / 0.98  | 61 / 0.97  |
|                                          | 1/2"                             | 7/8"                              | 43                                                                                         | 25 / 1.00                                                                      | 50 / 1.00 | 75 / 1.00 | 100 / 0.99 | 100 / 0.99 | 100 / 0.99 | 100 / 0.98 | 100 / 0.98 | 100 / 0.98 | 100 / 0.97 |
| 3.5 Ton                                  | 3/8"                             | 3/4"                              | 102                                                                                        | 25 / 0.99                                                                      | 50 / 0.98 | 75 / 0.97 | 88 / 0.96  | 80 / 0.95  | 72 / 0.94  | 65 / 0.92  | 57 / 0.91  | 49 / 0.90  | NR         |
|                                          | 1/2"                             | 3/4"                              | 51                                                                                         | 25 / 0.99                                                                      | 50 / 0.98 | 75 / 0.97 | 100 / 0.96 | 100 / 0.95 | 100 / 0.94 | 100 / 0.92 | 100 / 0.91 | 100 / 0.90 | NR         |
|                                          | 3/8"                             | 7/8"                              | 102                                                                                        | 25 / 1.00                                                                      | 50 / 1.00 | 75 / 0.99 | 88 / 0.99  | 80 / 0.99  | 72 / 0.98  | 65 / 0.97  | 57 / 0.97  | 49 / 0.96  | 42 / 0.96  |
|                                          | 1/2"                             | 7/8"                              | 51                                                                                         | 25 / 1.00                                                                      | 50 / 1.00 | 75 / 0.99 | 100 / 0.99 | 100 / 0.99 | 100 / 0.98 | 100 / 0.97 | 100 / 0.97 | 100 / 0.96 | 100 / 0.96 |

## NOTES:

- 1) Do not exceed 200 ft linear line length.
- 2) \*Do not exceed 100 ft vertical separation if outdoor unit is above indoor unit.
- 3) \*\*3/4" suction line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
- 4) Always use the smallest liquid line allowable to minimize refrigerant charge.
- 5) Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- 6) Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

Refrigerant Line Size Information (Con't.)

| 14.3 SEER2 SINGLE-STAGE AIR CONDITIONERS |                                  |                                   |                                                                                            |                                                                                |           |           |            |            |            |            |            |           |           |
|------------------------------------------|----------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------|-----------|------------|------------|------------|------------|------------|-----------|-----------|
| UNIT<br>SIZE                             | ALLOWABLE<br>LIQUID LINE<br>SIZE | ALLOWABLE<br>SUCTION LINE<br>SIZE | APPLY LONG LINE<br>GUIDELINES IF LINEAR LINE<br>LENGTH EXCEEDS THOSE<br>SHOWN BELOW (FEET) | EQUIVALENT LENGTH (FEET)                                                       |           |           |            |            |            |            |            |           |           |
|                                          |                                  |                                   |                                                                                            | < 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 |           |           |            |            |            |            |            |           |           |
| 4 Ton                                    | 3/8"                             | 3/4"                              | 110                                                                                        | 25 / 0.99                                                                      | 50 / 0.98 | 75 / 0.96 | 77 / 0.95  | 67 / 0.93  | 57 / 0.92  | 46 / 0.91  | NR         | NR        | NR        |
|                                          | 1/2"                             | 3/4"                              | 55                                                                                         | 25 / 0.99                                                                      | 50 / 0.98 | 75 / 0.96 | 100 / 0.95 | 100 / 0.93 | 100 / 0.92 | 100 / 0.91 | NR         | NR        | NR        |
|                                          | 3/8"                             | 7/8"                              | 110                                                                                        | 25 / 1.00                                                                      | 50 / 0.99 | 75 / 0.99 | 77 / 0.98  | 67 / 0.97  | 57 / 0.97  | 46 / 0.96  | 36 / 0.96  | 26 / 0.95 | 15 / 0.95 |
|                                          | 1/2"                             | 7/8"                              | 55                                                                                         | 25 / 1.00                                                                      | 50 / 0.99 | 75 / 0.99 | 100 / 0.98 | 100 / 0.97 | 100 / 0.97 | 100 / 0.96 | 100 / 0.96 | 99 / 0.95 | 97 / 0.95 |
|                                          | 3/8"                             | 3/4"                              | 0                                                                                          | 25 / 0.99                                                                      | 50 / 0.97 | 75 / 0.94 | 61 / 0.92  | 46 / 0.90  | NR         | NR         | NR         | NR        | NR        |
|                                          | 1/2"                             | 3/4"                              | 0                                                                                          | 25 / 0.99                                                                      | 50 / 0.97 | 75 / 0.94 | 100 / 0.92 | 100 / 0.90 | NR         | NR         | NR         | NR        | NR        |
| 5 Ton                                    | 3/8"                             | 7/8"                              | 0                                                                                          | 25 / 1.00                                                                      | 50 / 0.99 | 75 / 0.98 | 61 / 0.97  | 46 / 0.96  | 32 / 0.95  | 18 / 0.94  | NR         | NR        | NR        |
|                                          | 1/2"                             | 7/8"                              | 0                                                                                          | 25 / 1.00                                                                      | 50 / 0.99 | 75 / 0.98 | 100 / 0.97 | 100 / 0.96 | 100 / 0.95 | 97 / 0.94  | 95 / 0.94  | 92 / 0.93 | 89 / 0.92 |
|                                          | 3/8"                             | 1-1/8"                            | 0                                                                                          | 25 / 1.01                                                                      | 50 / 1.01 | 75 / 1.00 | 61 / 1.00  | 46 / 0.99  | 32 / 0.99  | 18 / 0.99  | NR         | NR        | NR        |
|                                          | 1/2"                             | 1-1/8"                            | 0                                                                                          | 25 / 1.01                                                                      | 50 / 1.01 | 75 / 1.00 | 100 / 1.00 | 100 / 0.99 | 100 / 0.99 | 97 / 0.99  | 95 / 0.99  | 92 / 0.99 | 89 / 0.98 |

NOTES:

- 1) Do not exceed 200 ft linear line length.
- 2) \*Do not exceed 100 ft vertical separation if outdoor unit is above indoor unit.
- 3) \*\*3/4" suction line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
- 4) Always use the smallest liquid line allowable to minimize refrigerant charge.
- 5) Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- 6) Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

## Refrigerant Line Size Information

| 14.3 SEER2 SINGLE-STAGE AIR CONDITIONERS |                                              |                                               |                                                                                              |                                                                                |           |           |           |           |           |           |           |           |           |  |
|------------------------------------------|----------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| UNIT<br>SIZE                             | ALLOWABLE<br>LIQUID LINE<br>SIZE<br>MM [IN.] | ALLOWABLE<br>SUCTION LINE<br>SIZE<br>MM [IN.] | APPLY LONG LINE<br>GUIDELINES IF LINEAR LINE<br>LENGTH EXCEEDS THOSE<br>SHOWN BELOW (METERS) | EQUIVALENT LENGTH (METERS)                                                     |           |           |           |           |           |           |           |           |           |  |
|                                          |                                              |                                               |                                                                                              | < 8                                                                            | 8-15      | 16-23     | 24-30     | 31-38     | 39-46     | 47-53     | 54-61     | 62-69     | 70-76     |  |
|                                          |                                              |                                               |                                                                                              | MAXIMUM VERTICAL RISE (OUTDOOR UNIT BELOW INDOOR UNIT) * / CAPACITY MULTIPLIER |           |           |           |           |           |           |           |           |           |  |
| 5.3 KW<br>[1.5 Ton]<br>**SEE<br>NOTE 3   | 6.35 [1/4]                                   | 15.88 [5/8]                                   | N/A                                                                                          | 8 / 1.00                                                                       | 15 / 0.99 | 19 / 0.98 | 13 / 0.98 | 7 / 0.97  | 2 / 0.97  | NR        | NR        | NR        | NR        |  |
|                                          | 7.94 [5/16]                                  | 15.88 [5/8]                                   | 68                                                                                           | 8 / 1.00                                                                       | 15 / 0.99 | 23 / 0.98 | 30 / 0.98 | 28 / 0.97 | 27 / 0.97 | 25 / 0.96 | 24 / 0.96 | 22 / 0.95 | 21 / 0.94 |  |
|                                          | 9.53 [3/8]                                   | 15.88 [5/8]                                   | 45                                                                                           | 8 / 1.00                                                                       | 15 / 0.99 | 23 / 0.98 | 30 / 0.98 | 30 / 0.97 | 30 / 0.97 | 30 / 0.96 | 30 / 0.96 | 30 / 0.95 | 30 / 0.94 |  |
|                                          | 6.35 [1/4]                                   | 19.05 [3/4]**                                 | N/A                                                                                          | 8 / 1.00                                                                       | 15 / 1.00 | 19 / 0.99 | 13 / 0.99 | 7 / 0.99  | 2 / 0.99  | NR        | NR        | NR        | NR        |  |
|                                          | 7.94 [5/16]                                  | 19.05 [3/4]**                                 | 68                                                                                           | 8 / 1.00                                                                       | 15 / 1.00 | 23 / 0.99 | 30 / 0.99 | 28 / 0.99 | 27 / 0.99 | 25 / 0.99 | 24 / 0.98 | 22 / 0.98 | 21 / 0.98 |  |
| 7.0 KW<br>[2 Ton]                        | 9.53 [3/8]                                   | 19.05 [3/4]**                                 | 45                                                                                           | 8 / 1.00                                                                       | 15 / 1.00 | 23 / 0.99 | 30 / 0.99 | 30 / 0.99 | 30 / 0.99 | 30 / 0.99 | 30 / 0.98 | 30 / 0.98 | 30 / 0.98 |  |
|                                          | 6.35 [1/4]                                   | 15.88 [5/8]                                   | N/A                                                                                          | 8 / 0.99                                                                       | 15 / 0.98 | 6 / 0.97  | NR        | NR        | NR        | NR        | NR        | NR        | NR        |  |
|                                          | 7.94 [5/16]                                  | 15.88 [5/8]                                   | 59                                                                                           | 8 / 0.99                                                                       | 15 / 0.98 | 23 / 0.97 | 27 / 0.96 | 23 / 0.95 | 21 / 0.94 | 19 / 0.93 | 16 / 0.92 | 14 / 0.91 | 11 / 0.90 |  |
|                                          | 9.53 [3/8]                                   | 15.88 [5/8]                                   | 39                                                                                           | 8 / 0.99                                                                       | 15 / 0.98 | 23 / 0.97 | 30 / 0.96 | 30 / 0.95 | 30 / 0.94 | 30 / 0.93 | 29 / 0.92 | 28 / 0.91 | 27 / 0.90 |  |
|                                          | 6.35 [1/4]                                   | 19.05 [3/4]                                   | N/A                                                                                          | 8 / 1.00                                                                       | 15 / 1.00 | 6 / 0.99  | NR        | NR        | NR        | NR        | NR        | NR        | NR        |  |
| 8.8 KW<br>[2.5 Ton]                      | 7.94 [5/16]                                  | 19.05 [3/4]                                   | 59                                                                                           | 8 / 1.00                                                                       | 15 / 1.00 | 23 / 0.99 | 27 / 0.99 | 23 / 0.98 | 21 / 0.98 | 19 / 0.98 | 16 / 0.97 | 14 / 0.97 | 11 / 0.96 |  |
|                                          | 9.53 [3/8]                                   | 19.05 [3/4]                                   | 39                                                                                           | 8 / 1.00                                                                       | 15 / 1.00 | 23 / 0.99 | 30 / 0.99 | 30 / 0.98 | 30 / 0.98 | 30 / 0.98 | 29 / 0.97 | 28 / 0.97 | 27 / 0.96 |  |
|                                          | 7.94 [5/16]                                  | 15.88 [5/8]                                   | N/A                                                                                          | 8 / 0.99                                                                       | 15 / 0.98 | 23 / 0.96 | 21 / 0.94 | 18 / 0.93 | 15 / 0.91 | 11 / 0.90 | NR        | NR        | NR        |  |
|                                          | 9.53 [3/8]                                   | 15.88 [5/8]                                   | 36                                                                                           | 8 / 0.99                                                                       | 15 / 0.98 | 23 / 0.96 | 30 / 0.94 | 30 / 0.93 | 29 / 0.91 | 27 / 0.90 | NR        | NR        | NR        |  |
|                                          | 7.94 [5/16]                                  | 19.05 [3/4]                                   | 53                                                                                           | 8 / 1.00                                                                       | 15 / 0.99 | 23 / 0.99 | 21 / 0.98 | 18 / 0.98 | 15 / 0.97 | 11 / 0.96 | 8 / 0.96  | 4 / 0.95  | NR        |  |
| 10.6 KW<br>[3 Ton]                       | 9.53 [3/8]                                   | 19.05 [3/4]                                   | 36                                                                                           | 8 / 1.00                                                                       | 15 / 0.99 | 23 / 0.99 | 30 / 0.98 | 30 / 0.98 | 29 / 0.97 | 27 / 0.96 | 26 / 0.96 | 25 / 0.95 | 24 / 0.95 |  |
|                                          | 7.94 [5/16]                                  | 15.88 [5/8]                                   | N/A                                                                                          | 8 / 0.99                                                                       | 15 / 0.97 | 20 / 0.94 | 15 / 0.92 | 10 / 0.90 | NR        | NR        | NR        | NR        | NR        |  |
|                                          | 9.53 [3/8]                                   | 15.88 [5/8]                                   | 26                                                                                           | 8 / 0.99                                                                       | 15 / 0.97 | 23 / 0.94 | 29 / 0.92 | 27 / 0.90 | NR        | NR        | NR        | NR        | NR        |  |
|                                          | 7.94 [5/16]                                  | 19.05 [3/4]                                   | 39                                                                                           | 8 / 1.00                                                                       | 15 / 0.99 | 20 / 0.98 | 15 / 0.98 | 10 / 0.97 | 5 / 0.96  | NR        | NR        | NR        | NR        |  |
|                                          | 9.53 [3/8]                                   | 19.05 [3/4]                                   | 26                                                                                           | 8 / 1.00                                                                       | 15 / 0.99 | 23 / 0.98 | 29 / 0.98 | 27 / 0.97 | 26 / 0.96 | 24 / 0.95 | 22 / 0.94 | 20 / 0.93 | 19 / 0.93 |  |
| 12.3 KW<br>[3.5 Ton]                     | 12.70 [1/2]                                  | 19.05 [3/4]                                   | 13                                                                                           | 8 / 1.00                                                                       | 15 / 0.99 | 23 / 0.98 | 30 / 0.98 | 30 / 0.97 | 30 / 0.96 | 30 / 0.95 | 30 / 0.94 | 30 / 0.93 | 30 / 0.93 |  |
|                                          | 7.94 [5/16]                                  | 22.23 [7/8]                                   | 39                                                                                           | 8 / 1.00                                                                       | 15 / 1.00 | 20 / 1.00 | 15 / 0.99 | 10 / 0.99 | 5 / 0.99  | NR        | NR        | NR        | NR        |  |
|                                          | 9.53 [3/8]                                   | 22.23 [7/8]                                   | 26                                                                                           | 8 / 1.00                                                                       | 15 / 1.00 | 23 / 1.00 | 29 / 0.99 | 27 / 0.99 | 26 / 0.99 | 24 / 0.98 | 22 / 0.98 | 20 / 0.98 | 19 / 0.97 |  |
|                                          | 12.70 [1/2]                                  | 22.23 [7/8]                                   | 13                                                                                           | 8 / 1.00                                                                       | 15 / 1.00 | 23 / 1.00 | 30 / 0.99 | 30 / 0.99 | 30 / 0.99 | 30 / 0.98 | 30 / 0.98 | 30 / 0.98 | 30 / 0.97 |  |
|                                          | 9.53 [3/8]                                   | 19.05 [3/4]                                   | 31                                                                                           | 8 / 0.99                                                                       | 15 / 0.98 | 23 / 0.97 | 27 / 0.96 | 24 / 0.95 | 22 / 0.94 | 20 / 0.92 | 17 / 0.91 | 15 / 0.90 | NR        |  |
| 12.3 KW<br>[3.5 Ton]                     | 12.70 [1/2]                                  | 19.05 [3/4]                                   | 15                                                                                           | 8 / 0.99                                                                       | 15 / 0.98 | 23 / 0.97 | 30 / 0.96 | 30 / 0.95 | 30 / 0.94 | 30 / 0.92 | 30 / 0.91 | 30 / 0.90 | NR        |  |
|                                          | 9.53 [3/8]                                   | 22.23 [7/8]                                   | 31                                                                                           | 8 / 1.00                                                                       | 15 / 1.00 | 23 / 0.99 | 27 / 0.99 | 24 / 0.99 | 22 / 0.98 | 20 / 0.97 | 17 / 0.97 | 15 / 0.96 | 13 / 0.96 |  |
|                                          | 12.70 [1/2]                                  | 22.23 [7/8]                                   | 15                                                                                           | 8 / 1.00                                                                       | 15 / 1.00 | 23 / 0.99 | 30 / 0.99 | 30 / 0.99 | 30 / 0.98 | 30 / 0.97 | 30 / 0.97 | 30 / 0.96 | 30 / 0.96 |  |

## NOTES:

- 1) Do not exceed 61m linear line length.
- 2) \*Do not exceed 30m vertical separation if outdoor unit is above indoor unit.
- 3) \*\*19.05mm suction line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
- 4) Always use the smallest liquid line allowable to minimize refrigerant charge.
- 5) Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- 6) Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

Refrigerant Line Size Information (Con't.)

| 14.3 SEER2 SINGLE-STAGE AIR CONDITIONERS |                                     |                                      |                                                                                     |                                                                                |           |           |           |           |           |           |           |           |           |
|------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| UNIT SIZE                                | ALLOWABLE LIQUID LINE SIZE MM [IN.] | ALLOWABLE SUCTION LINE SIZE MM [IN.] | APPLY LONG LINE GUIDELINES IF LINEAR LINE LENGTH EXCEEDS THOSE SHOWN BELOW (METERS) | EQUIVALENT LENGTH (METERS)                                                     |           |           |           |           |           |           |           |           |           |
|                                          |                                     |                                      |                                                                                     | < 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 |           |           |           |           |           |           |           |           |           |
| 14.1 KW<br>[4 Ton]                       | 9.53 [3/8]                          | 19.05 [3/4]                          | 34                                                                                  | 8 / 0.99                                                                       | 15 / 0.98 | 23 / 0.96 | 24 / 0.95 | 20 / 0.93 | 17 / 0.92 | 14 / 0.91 | NR        | NR        | NR        |
|                                          | 12.7 [1/2]                          | 19.05 [3/4]                          | 17                                                                                  | 8 / 0.99                                                                       | 15 / 0.98 | 23 / 0.96 | 30 / 0.95 | 30 / 0.93 | 30 / 0.92 | 30 / 0.91 | NR        | NR        | NR        |
|                                          | 9.53 [3/8]                          | 22.23 [7/8]                          | 34                                                                                  | 8 / 1.00                                                                       | 15 / 0.99 | 23 / 0.99 | 24 / 0.98 | 20 / 0.97 | 17 / 0.97 | 14 / 0.96 | 11 / 0.96 | 8 / 0.95  | 5 / 0.95  |
|                                          | 12.7 [1/2]                          | 22.23 [7/8]                          | 17                                                                                  | 8 / 1.00                                                                       | 15 / 0.99 | 23 / 0.99 | 30 / 0.98 | 30 / 0.97 | 30 / 0.97 | 30 / 0.96 | 30 / 0.96 | 30 / 0.95 | 30 / 0.95 |
|                                          | 9.53 [3/8]                          | 19.05 [3/4]                          | 0                                                                                   | 8 / 0.99                                                                       | 15 / 0.97 | 23 / 0.94 | 19 / 0.92 | 14 / 0.90 | NR        | NR        | NR        | NR        | NR        |
|                                          | 12.7 [1/2]                          | 19.05 [3/4]                          | 0                                                                                   | 8 / 0.99                                                                       | 15 / 0.97 | 23 / 0.94 | 30 / 0.92 | 30 / 0.90 | NR        | NR        | NR        | NR        | NR        |
| 17.6 KW<br>[5 Ton]                       | 9.53 [3/8]                          | 22.23 [7/8]                          | 0                                                                                   | 8 / 1.00                                                                       | 15 / 0.99 | 23 / 0.98 | 19 / 0.97 | 14 / 0.96 | 10 / 0.95 | 5 / 0.94  | NR        | NR        | NR        |
|                                          | 12.7 [1/2]                          | 22.23 [7/8]                          | 0                                                                                   | 8 / 1.00                                                                       | 15 / 0.99 | 23 / 0.98 | 30 / 0.97 | 30 / 0.96 | 30 / 0.95 | 30 / 0.94 | 29 / 0.94 | 28 / 0.93 | 27 / 0.92 |
|                                          | 9.53 [3/8]                          | 28.58 [1-1/8]                        | 0                                                                                   | 8 / 1.01                                                                       | 15 / 1.01 | 23 / 1.00 | 19 / 1.00 | 14 / 0.99 | 10 / 0.99 | 5 / 0.99  | NR        | NR        | NR        |
|                                          | 12.7 [1/2]                          | 28.58 [1-1/8]                        | 0                                                                                   | 8 / 1.01                                                                       | 15 / 1.01 | 23 / 1.00 | 30 / 1.00 | 30 / 0.99 | 30 / 0.99 | 30 / 0.99 | 29 / 0.99 | 28 / 0.99 | 27 / 0.98 |

- NOTES:
- 1) Do not exceed 61m linear line length.
  - 2) \*Do not exceed 30m vertical separation if outdoor unit is above indoor unit.
  - 3) \*\*\*19.05mm suction line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
  - 4) Always use the smallest liquid line allowable to minimize refrigerant charge.
  - 5) Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
  - 6) Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

## 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<br>CFM [L/s] |
| RA14AZ18AJ1                         | RCFZ2417STAN | 17,100 [5.0]                 | 13,100 [3.8]               | 4,000 [1.2]              | 14.3  | 11.7 | 600 [283.2]         |
| RA14AZ24AJ1                         | RCFZ2417STAN | 22,800 [6.7]                 | 17,500 [5.1]               | 5,300 [1.6]              | 14.3  | 11.7 | 725 [342.2]         |
| RA14AZ30AJ1                         | RCFZ3617STAN | 28,600 [8.4]                 | 21,800 [6.4]               | 6,800 [2.0]              | 14.3  | 11.7 | 900 [424.8]         |
| RA14AZ36AJ1                         | RCFZ3617STAN | 34,200 [10.0]                | 26,200 [7.7]               | 8,000 [2.3]              | 14.3  | 11.7 | 1,025 [483.7]       |
| RA14AZ42AJ1                         | RCFZ4821STAN | 38,500 [11.3]                | 29,500 [8.6]               | 9,000 [2.6]              | 14.3  | 11.7 | 1,300 [613.5]       |
| RA14AZ48AJ1                         | RCFZ4821STAN | 45,000 [13.2]                | 34,500 [10.1]              | 10,500 [3.1]             | 13.8  | 11.2 | 1,425 [672.5]       |
| RA14AZ60AJ1                         | RCFZ6024STAN | 56,000 [16.4]                | 42,900 [12.6]              | 13,100 [3.8]             | 13.8  | 11.2 | 1,600 [755.1]       |

**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.

**\*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.**

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

**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, manufacturer reserves the right to make changes without notice.

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