



## Vantix™ Line iM Heat Pumps



*This product meets a stringent set of our internally defined sustainability standards*



### SP16AZ

Cooling Efficiencies up to: 17.0 SEER2/10.4 EER2

Heating Efficiency: 8.1 HSPF2

Nominal Sizes: 2 to 5 Ton [7.0 to 17.6 kW]

Cooling Capacities 22.8 to 55.0 kBTU [6.7 to 16.1 kW]



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## Features and Benefits

- **EcoNet® Enabled:** Automatic system configuration and optimization
- **Diagnostics & Bluetooth®<sup>1</sup> Connectivity:** With the Sure Comfort Contractor & EcoNet® Apps, built-in technology makes advanced set-up, monitoring, troubleshooting, and repairing the product easier than ever before
- **Variable Speed Twin Rotary Compressor & Inverter Drive:**
  - Features variable speed operation from 45 to 70% capacity, or 100% capacity via line voltage, with the EcoNet® Smart Thermostat
  - 3-speed operation when installed with a 24V two-stage thermostat
  - Provides precise temperature control, advanced humidity control and greater efficiency
- **Brushless DC Condenser Motors (BLDC):** Enhances reliability and allows for easier serviceability
- **Swept Wing Fan Technology:** Features quieter operation and improved unit acoustics
- **7 mm Condenser Copper Coil<sup>2</sup>:** Requires less refrigerant allowing for a smaller and lighter footprint while enhancing reliability
- **Inverted Reversing Valve:** Allows for faster heat transfer with gravity assist shifting and reduced joint stress for increased reliability
- **Expanded Valve Space:** 3 in. – 4 in. – 5 in. service valve space – provides a minimum working area of 27-square inches for easier access<sup>3</sup>
- **Triple Service Access:** 15 in. wide, industry leading access makes repairs easier and faster

<sup>1</sup>The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Rheem® is under license. Other trademarks and trade names are those of their respective owners.

<sup>2</sup>Does not apply to the 5 ton model.

<sup>3</sup>Does not apply to 2 or 3 ton models.

Heat Pumps

| <u>S</u>         | <u>P</u>         | <u>16</u>     | <u>A</u>        | <u>Z</u>    | <u>24</u>                                                                                           | <u>A</u>       | <u>J</u>         | <u>3</u>     | <u>C</u>          | <u>A</u>       |
|------------------|------------------|---------------|-----------------|-------------|-----------------------------------------------------------------------------------------------------|----------------|------------------|--------------|-------------------|----------------|
| Brand            | Product Category | SEER2         | Region          | Refrigerant | Capacity                                                                                            | Major Series   | Voltage          | Type         | Controls          | Minor Series   |
| S - Sure Comfort | P - Heat Pump    | 16 - 16 SEER2 | A - All Regions | Z - R-410A  | 24 - 24,000 [7.03 kW]<br>36 - 36,000 [10.55 kW]<br>48 - 48,000 [14.07 kW]<br>60 - 60,000 [17.58 kW] | A - 1st Design | J - 208/230/1/60 | 3 - 3+ Stage | C - Communicating | A - 1st Series |

[ J ] Designates Metric Conversions

| AVAILABLE MODELS | DESCRIPTION                                                          |
|------------------|----------------------------------------------------------------------|
| SP16AZ24AJ3CA    | Vantix™ Line 2 ton 16 SEER2 Variable Speed iM Heat Pump-208/230/1/60 |
| SP16AZ36AJ3CA    | Vantix™ Line 3 ton 16 SEER2 Variable Speed iM Heat Pump-208/230/1/60 |
| SP16AZ48AJ3CA    | Vantix™ Line 4 ton 16 SEER2 Variable Speed iM Heat Pump-208/230/1/60 |
| SP16AZ60AJ3CA    | Vantix™ Line 5 ton 16 SEER2 Variable Speed iM Heat Pump-208/230/1/60 |

| STANDARD EQUIPMENT                  |
|-------------------------------------|
| R-410A Refrigerant                  |
| Twin Rotary Compressor              |
| Compressor Sound Blanket            |
| Field Installed Filter Drier        |
| Front Seating Service Valves        |
| Internal Thermal Overload           |
| Long Line capability                |
| 3-4-5 Expanded Valve Space          |
| Composite Basepan                   |
| 15" Access to Internal Components   |
| No fasteners to remove along bottom |
| Optimized Venturi Airflow           |
| Single row condenser coil           |
| Powder coated paint                 |
| Rust resistant screws               |
| QR code                             |
| External gauge ports                |
| Service trays                       |

| General Data                                   |             |             |             |             |
|------------------------------------------------|-------------|-------------|-------------|-------------|
| MODEL NO.                                      | SP16AZ24AJ3 | SP16AZ36AJ3 | SP16AZ48AJ3 | SP16AZ60AJ3 |
| Nominal Tonnage                                | 2           | 3           | 4           | 5           |
| Valve Connections                              |             |             |             |             |
| Liquid Line O.D. – in.                         | 3/8         | 3/8         | 3/8         | 3/8         |
| Suction Line O.D. – in.                        | 3/4         | 3/4         | 7/8         | 7/8         |
| Refrigerant (R410A) furnished oz. <sup>1</sup> | 118         | 135         | 164         | 256         |
| Compressor Type                                | Twin Rotary |             |             |             |
| Outdoor Coil                                   |             |             |             |             |
| Net face area – Outer Coil                     | 14.4        | 19.8        | 19.8        | 24.2        |
| Net face area – Inner Coil                     | —           | —           | —           | —           |
| Tube diameter – in.                            | 0.276       | 0.276       | 0.276       | 0.276       |
| Number of rows                                 | 1           | 1           | 1           | 1           |
| Fins per inch                                  | 22          | 24          | 22          | 20          |
| Outdoor Fan                                    |             |             |             |             |
| Diameter – in.                                 | 20          | 24          | 24          | 26          |
| Number of blades                               | 3           | 3           | 3           | 3           |
| Motor hp                                       | 1/5         | 1/5         | 1/3         | 1/2         |
| CFM                                            | 2754        | 4560        | 4567        | 5477        |
| RPM                                            | 1075        | 1000        | 1000        | 925         |
| Watts                                          | 165         | 277         | 252         | 283         |
| Shipping weight – lbs.                         | 188         | 205         | 210         | 314         |
| Operating weight – lbs.                        | 181         | 198         | 203         | 307         |

| Electrical Data                                    |              |              |              |              |
|----------------------------------------------------|--------------|--------------|--------------|--------------|
| Line Voltage Data (Volts-Phase-Hz)                 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 |
| Maximum overcurrent protection (amps) <sup>2</sup> | 20           | 35           | 40           | 50           |
| Minimum circuit ampacity <sup>3</sup>              | 12           | 21           | 25           | 30           |
| Compressor                                         |              |              |              |              |
| Rated load amps                                    | 9            | 13           | 18           | 22           |
| Locked rotor amps                                  | 65           | 68           | 96           | 119          |

<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.                                       |                | SP16AZ24AJ3    | SP16AZ36AJ3    | SP16AZ48AJ3    | SP16AZ60AJ3    |
|-------------------------------------------------|----------------|----------------|----------------|----------------|----------------|
| EcoNet® Smart Thermostat                        |                | CETST800SYS    | CETST800SYS    | CETST800SYS    | CETST800SYS    |
| Compressor crankcase heater*                    |                | N/A            | N/A            | N/A            | N/A            |
| Compressor sound cover                          |                | 68-23427-27    | 68-23427-28    | 68-23427-29    | 68-23427-29    |
| Low pressure control                            |                | 47-103454-01   | 47-103454-01   | 47-103454-01   | 47-103454-01   |
| High pressure control                           |                | 47-103669-02   | 47-103669-02   | 47-103669-02   | 47-103669-02   |
| Liquid Line Solenoid<br>(24 VAC, 50/60 Hz)      | Solenoid Valve | 200RD2T3TVLC   | 200RD2T3TVLC   | 200RD2T3TVLC   | 200RD2T3TVLC   |
|                                                 | Solenoid Coil  | 61-AMG24V      | 61-AMG24V      | 61-AMG24V      | 61-AMG24V      |
| Liquid Line Solenoid<br>(120/240 VAC, 50/60 Hz) | Solenoid Valve | 200RD2T3TVLC   | 200RD2T3TVLC   | 200RD2T3TVLC   | 200RD2T3TVLC   |
|                                                 | Solenoid Coil  | 61-AMG120/240V | 61-AMG120/240V | 61-AMG120/240V | 61-AMG120/240V |

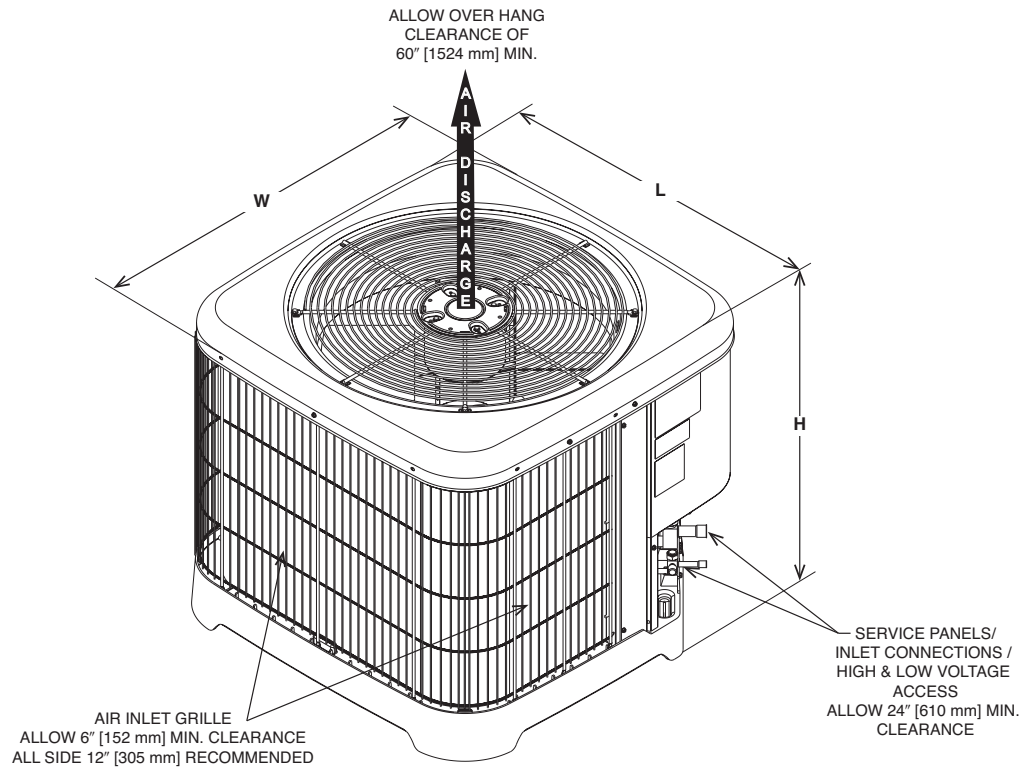
## Weighted Sound Power Level (dBA)

| UNIT SIZE -<br>VOLTAGE, SERIES | STANDARD<br>RATING (dBA)<br>HIGH STAGE<br>LOW STAGE | TYPICAL OCTAVE BAND SPECTRUM (dBA WITHOUT TONE ADJUSTMENT) |      |      |      |      |      |      |
|--------------------------------|-----------------------------------------------------|------------------------------------------------------------|------|------|------|------|------|------|
|                                |                                                     | 125                                                        | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| SP16AZ24AJ3                    | 72.2                                                | 43.5                                                       | 56.5 | 63.9 | 61.4 | 59.0 | 58.3 | 47.9 |
|                                | 63.6                                                | 37.8                                                       | 48.9 | 55.4 | 52.7 | 49.9 | 51.6 | 42.4 |
| SP16AZ36AJ3                    | 72.9                                                | 49.2                                                       | 60.5 | 64.7 | 60.2 | 61.3 | 59.2 | 46.6 |
|                                | 59.9                                                | 35.8                                                       | 44.8 | 51.6 | 49.6 | 46.9 | 45.4 | 42.2 |
| SP16AZ48AJ3                    | 74.3                                                | 46.6                                                       | 58.0 | 64.2 | 61.6 | 60.1 | 61.3 | 49.9 |
|                                | 61.5                                                | 35.1                                                       | 46.0 | 53.8 | 47.9 | 46.4 | 53.5 | 42.0 |
| SP16AZ60AJ3                    | 71.2                                                | 45.7                                                       | 56.0 | 63.5 | 59.7 | 57.4 | 54.6 | 47.9 |
|                                | 61.8                                                | 30.9                                                       | 45.2 | 52.6 | 48.6 | 50.3 | 49.2 | 42.1 |

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

Unit Dimensions

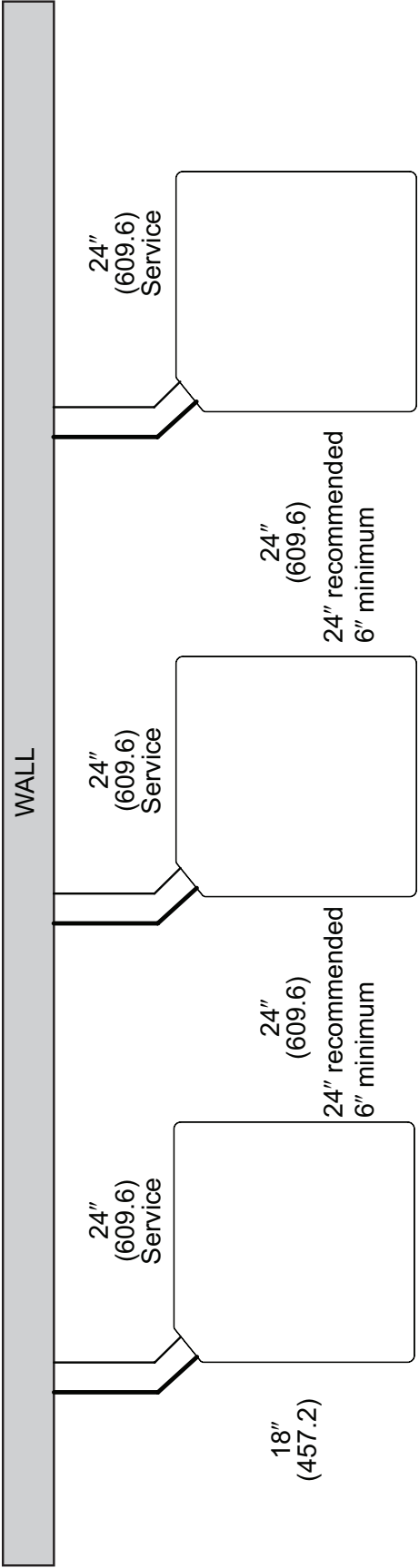
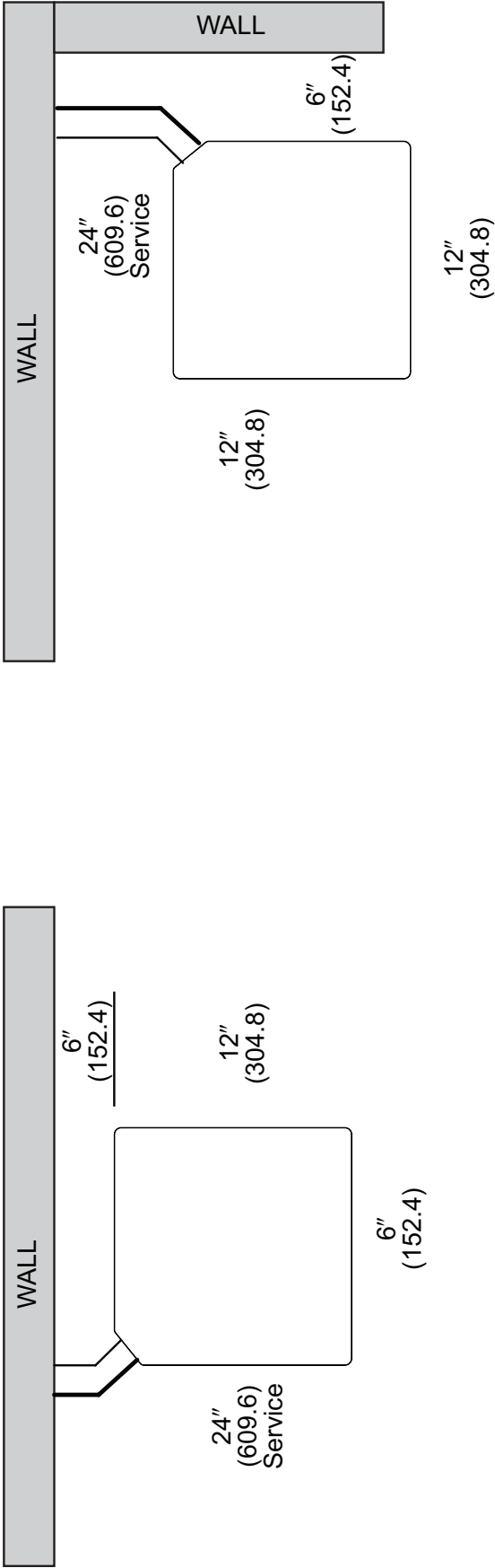
| MODEL NO.     | OPERATING  |         |            |        |           |        | SHIPPING   |         |            |        |           |        |
|---------------|------------|---------|------------|--------|-----------|--------|------------|---------|------------|--------|-----------|--------|
|               | H (Height) |         | L (Length) |        | W (Width) |        | H (Height) |         | L (Length) |        | W (Width) |        |
|               | INCHES     | mm      | INCHES     | mm     | INCHES    | mm     | INCHES     | mm      | INCHES     | mm     | INCHES    | mm     |
| SP16AZ24AJ3CA | 27.00      | 685.80  | 29.75      | 755.65 | 29.75     | 755.65 | 28.50      | 723.90  | 32.38      | 822.45 | 32.38     | 822.45 |
| SP16AZ36AJ3CA | 35.00      | 889.00  | 33.75      | 857.25 | 33.75     | 857.25 | 36.50      | 927.10  | 36.38      | 924.05 | 36.38     | 924.05 |
| SP16AZ48AJ3CA | 35.00      | 889.00  | 33.75      | 857.25 | 33.75     | 857.25 | 36.50      | 927.10  | 36.38      | 924.05 | 36.38     | 924.05 |
| SP16AZ60AJ3CA | 45.00      | 1143.00 | 35.75      | 908.05 | 35.75     | 908.05 | 46.50      | 1181.10 | 38.38      | 974.85 | 38.38     | 974.85 |



[ ] Designates Metric Conversions

ST-A1226-24-00

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

| 16 SEER2 VARIABLE SPEED HEAT PUMPS |                                  |                                 |                                                                     |         |         |         |         |         |
|------------------------------------|----------------------------------|---------------------------------|---------------------------------------------------------------------|---------|---------|---------|---------|---------|
| UNIT SIZE                          | ALLOWABLE<br>LIQUID<br>LINE SIZE | ALLOWABLE<br>VAPOR<br>LINE SIZE | OUTDOOR UNIT ABOVE OR BELOW INDOOR UNIT<br>EQUIVALENT LENGTH (FEET) |         |         |         |         |         |
|                                    |                                  |                                 | < 25                                                                | 26-50   | 51-75   | 76-100  | 101-125 | 126-150 |
|                                    |                                  |                                 | MAXIMUM VERTICAL SEPARATION/CAPACITY MULTIPLIER                     |         |         |         |         |         |
| 2.0 TON<br>*SEE<br>NOTE 3          | 1/4"                             | 5/8"                            | 25/1.00                                                             | 50/0.99 | 33/0.98 | 60/0.97 | NR      | NR      |
|                                    | 5/16"                            | 5/8"                            | 25/1.00                                                             | 50/0.99 | 50/0.98 | 50/0.97 | 50/0.96 | 50/0.95 |
|                                    | 3/8"                             | 5/8"                            | 25/1.00                                                             | 50/0.99 | 50/0.98 | 50/0.97 | 50/0.96 | 50/0.95 |
|                                    | 1/4"                             | 3/4"                            | 25/1.00                                                             | 50/1.00 | 33/0.99 | 60/0.99 | NR      | NR      |
|                                    | 5/16"                            | 3/4"                            | 25/1.00                                                             | 50/1.00 | 50/0.99 | 50/0.99 | 50/0.99 | 50/0.98 |
|                                    | 3/8"                             | 3/4"                            | 25/1.00                                                             | 50/1.00 | 50/0.99 | 50/0.99 | 50/0.99 | 50/0.98 |
| 3 TON                              | 5/16"                            | 5/8"                            | 25/0.99                                                             | 50/0.97 | 50/0.95 | 50/0.93 | 36/0.91 | NR      |
|                                    | 3/8"                             | 5/8"                            | 25/0.99                                                             | 50/0.97 | 50/0.95 | 50/0.93 | 50/0.91 | NR      |
|                                    | 5/16"                            | 3/4"                            | 25/1.00                                                             | 50/0.99 | 50/0.99 | 50/0.98 | 36/0.97 | 20/0.96 |
|                                    | 3/8"                             | 3/4"                            | 25/1.00                                                             | 50/0.99 | 50/0.99 | 50/0.98 | 50/0.97 | 50/0.96 |
|                                    | 1/2"                             | 3/4"                            | 25/1.00                                                             | 50/0.99 | 50/0.99 | 50/0.98 | 50/0.97 | 50/0.96 |
| 4 TON                              | 3/8"                             | 3/4"                            | 25/0.99                                                             | 50/0.98 | 50/0.96 | 50/0.95 | 50/0.93 | 50/0.92 |
|                                    | 1/2"                             | 3/4"                            | 25/0.99                                                             | 50/0.98 | 50/0.96 | 50/0.95 | 50/0.93 | 50/0.92 |
|                                    | 3/8"                             | 7/8"                            | 25/1.00                                                             | 50/0.99 | 50/0.99 | 50/0.98 | 50/0.98 | 50/0.97 |
|                                    | 1/2"                             | 7/8"                            | 25/1.00                                                             | 50/0.99 | 50/0.99 | 50/0.98 | 50/0.98 | 50/0.97 |
| 5 TON                              | 3/8"                             | 3/4"                            | 25/0.98                                                             | 50/0.97 | 50/0.95 | 50/0.93 | 46/0.91 | NR      |
|                                    | 1/2"                             | 3/4"                            | 25/0.98                                                             | 50/0.97 | 50/0.95 | 50/0.93 | 50/0.91 | NR      |
|                                    | 3/8"                             | 7/8"                            | 25/0.99                                                             | 50/0.99 | 50/0.98 | 50/0.97 | 50/0.96 | 38/0.95 |
|                                    | 1/2"                             | 7/8"                            | 25/0.99                                                             | 50/0.99 | 50/0.98 | 50/0.97 | 50/0.96 | 50/0.95 |
|                                    | 3/8"                             | 1-1/8"                          | 25/1.00                                                             | 50/1.00 | 50/1.00 | 50/0.99 | 50/0.99 | 38/0.99 |
|                                    | 1/2"                             | 1-1/8"                          | 25/1.00                                                             | 50/1.00 | 50/1.00 | 50/0.99 | 50/0.99 | 50/0.99 |

## NOTES:

- 1) Do not exceed 150 ft. linear line length.
- 2) Do not exceed 50 ft. vertical separation between indoor and outdoor units.
- 3) \*3/4" vapor line should only be used for 2 ton systems if outdoor unit is below or at same level as indoor unit to assure proper oil return.
- 4) \*\*1-1/8" vapor line should only be used for 5 ton systems if outdoor unit is below or at same level as indoor unit to assure proper oil return.
- 5) Always use the smallest liquid line allowable to minimize refrigerant charge.
- 6) Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- 7) Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.
- 8) **Some longer lineset installations will require additional POE oil to be added to the system. See table below for additional oil volume requirements.**

| ADDITIONAL POE OIL, Oz. |     |     |     |     |     |     |     |     |     |     |     |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| LINESET LENGTH, FT      | 50  | 60  | 70  | 80  | 90  | 100 | 110 | 120 | 130 | 140 | 150 |
| 2T                      | N/A | 1   | 3   | 4   | 5   | 7   | 8   | 9   | 11  | 12  | 13  |
| 3T                      | N/A | N/A | N/A | N/A | 1   | 2   | 3   | 5   | 6   | 7   | 9   |
| 4T                      | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0   | 1   |
| 5T                      | 2   | 3   | 4   | 6   | 7   | 8   | 10  | 11  | 12  | 14  | 15  |

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

| 16 SEER2 VARIABLE SPEED HEAT PUMPS |                            |                           |                                                                    |         |         |         |         |         |
|------------------------------------|----------------------------|---------------------------|--------------------------------------------------------------------|---------|---------|---------|---------|---------|
| UNIT SIZE                          | ALLOWABLE LIQUID LINE SIZE | ALLOWABLE VAPOR LINE SIZE | OUTDOOR UNIT ABOVE OR BELOW INDOOR UNIT EQUIVALENT LENGTH (METERS) |         |         |         |         |         |
|                                    |                            |                           | < 8                                                                | 9-15    | 16-23   | 24-30   | 31-38   | 39-46   |
|                                    |                            |                           | MAXIMUM VERTICAL SEPARATION/CAPACITY MULTIPLIER                    |         |         |         |         |         |
| 7.0 kW<br>[2.0 TON]<br>*SEE NOTE 3 | 6.35 [1/4]                 | 15.88 [5/8]               | 8/1.00                                                             | 15/0.99 | 10/0.98 | 20/0.97 | NR      | NR      |
|                                    | 7.94 [5/16]                | 15.88 [5/8]               | 8/1.00                                                             | 15/0.99 | 15/0.98 | 15/0.97 | 15/0.96 | 15/0.95 |
|                                    | 9.53 [3/8]                 | 15.88 [5/8]               | 8/1.00                                                             | 15/0.99 | 15/0.98 | 15/0.97 | 15/0.96 | 15/0.95 |
|                                    | 6.35 [1/4]                 | 19.05 [3/4]               | 8/1.00                                                             | 15/0.99 | 10/0.99 | 20/0.99 | NR      | NR      |
|                                    | 7.94 [5/16]                | 19.05 [3/4]               | 8/1.00                                                             | 15/0.99 | 15/0.99 | 15/0.99 | 15/0.99 | 15/0.98 |
|                                    | 9.53 [3/8]                 | 19.05 [3/4]               | 8/1.00                                                             | 15/0.99 | 15/0.99 | 15/0.99 | 15/0.99 | 15/0.98 |
| 10.6 kW<br>[3 TON]                 | 7.94 [5/16]                | 15.88 [5/8]               | 8/0.99                                                             | 15/0.97 | 15/0.95 | 15/0.93 | 11/0.91 | NR      |
|                                    | 9.53 [3/8]                 | 15.88 [5/8]               | 8/0.99                                                             | 15/0.97 | 15/0.95 | 15/0.93 | 15/0.91 | NR      |
|                                    | 7.94 [5/16]                | 19.05 [3/4]               | 8/1.00                                                             | 15/0.99 | 15/0.99 | 15/0.98 | 11/0.97 | 6/0.96  |
|                                    | 9.53 [3/8]                 | 19.05 [3/4]               | 8/1.00                                                             | 15/0.99 | 15/0.99 | 15/0.98 | 15/0.97 | 15/0.96 |
|                                    | 12.70 [1/2]                | 19.05 [3/4]               | 8/1.00                                                             | 15/0.99 | 15/0.99 | 15/0.98 | 15/0.97 | 15/0.96 |
| 14.1 kW<br>[4 TON]                 | 9.53 [3/8]                 | 19.05 [3/4]               | 8/0.99                                                             | 15/0.98 | 15/0.96 | 15/0.95 | 15/0.93 | 15/0.92 |
|                                    | 12.70 [1/2]                | 19.05 [3/4]               | 8/0.99                                                             | 15/0.98 | 15/0.96 | 15/0.95 | 15/0.93 | 15/0.92 |
|                                    | 9.53 [3/8]                 | 22.23 [7/8]               | 8/1.00                                                             | 15/0.99 | 15/0.99 | 15/0.98 | 15/0.98 | 15/0.97 |
|                                    | 12.70 [1/2]                | 22.23 [7/8]               | 8/1.00                                                             | 15/0.99 | 15/0.99 | 15/0.98 | 15/0.98 | 15/0.97 |
| 17.6 kW<br>[5 TON]                 | 9.53 [3/8]                 | 19.05 [3/4]               | 8/0.98                                                             | 15/0.97 | 15/0.95 | 15/0.93 | 14/0.91 | NR      |
|                                    | 12.70 [1/2]                | 19.05 [3/4]               | 8/0.98                                                             | 15/0.97 | 15/0.95 | 15/0.93 | 15/0.91 | NR      |
|                                    | 9.53 [3/8]                 | 22.23 [7/8]               | 8/0.99                                                             | 15/0.99 | 15/0.98 | 15/0.97 | 15/0.96 | 12/0.95 |
|                                    | 12.70 [1/2]                | 22.23 [7/8]               | 8/0.99                                                             | 15/0.99 | 15/0.98 | 15/0.97 | 15/0.96 | 15/0.95 |
|                                    | 9.53 [3/8]                 | 28.58 [1-1/8]**           | 8/1.00                                                             | 36540   | 36540   | 15/0.99 | 15/0.99 | 12/0.99 |
|                                    | 12.70 [1/2]                | 28.58 [1-1/8]**           | 8/1.00                                                             | 36540   | 36540   | 15/0.99 | 15/0.99 | 15/0.99 |

### NOTES:

- 1) Do not exceed 46 meters linear line length.
- 2) Do not exceed 15 meters vertical separation between indoor and outdoor units.
- 3) \*19.05 mm [3/4 in.] vapor line should only be used for 2 ton systems if outdoor unit is below or at same level as indoor unit to assure proper oil return.
- 4) \*\*28.58 mm [1-1/8 in.] vapor line should only be used for 5 ton systems if outdoor unit is below or at same level as indoor unit to assure proper oil return.
- 5) Always use the smallest liquid line allowable to minimize refrigerant charge.
- 6) Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- 7) Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.
- 8) **Some longer lineset installations will require additional POE oil to be added to the system. See table below for additional oil volume requirements.**

| ADDITIONAL POE OIL, Oz. |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| LINESET LENGTH, M       | 15.2 | 18.3 | 21.3 | 24.4 | 27.4 | 30.5 | 33.5 | 36.6 | 39.6 | 42.7 | 45.7 |
| 2T                      | N/A  | 1    | 3    | 4    | 5    | 7    | 8    | 9    | 11   | 12   | 13   |
| 3T                      | N/A  | N/A  | N/A  | N/A  | 1    | 2    | 3    | 5    | 6    | 7    | 9    |
| 4T                      | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  | 0    | 1    |
| 5T                      | 2    | 3    | 4    | 6    | 7    | 8    | 10   | 11   | 12   | 14   | 15   |

## Performance Data @ AHRI Standard Conditions – Cooling

| DESIGNATED TESTED COMBINATION (DTC) |                |                              |                            |                          |       |      |                     |                                             |                  |                                             |                  |                    |
|-------------------------------------|----------------|------------------------------|----------------------------|--------------------------|-------|------|---------------------|---------------------------------------------|------------------|---------------------------------------------|------------------|--------------------|
| OUTDOOR UNIT                        | AIR HANDLER    | 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] | 47 DEGREE HEATING<br>CAPACITY<br>BTU/H [KW] | 47 DEGREE<br>COP | 17 DEGREE HEATING<br>CAPACITY<br>BTU/H [KW] | 17 DEGREE<br>COP | REGION IV<br>HSPF2 |
| SP16AZ24AJ3                         | SH3VZ2417STACN | 22,600 [6.6]                 | 17,300 [5.1]               | 5,300 [1.6]              | 16.0  | 9.8  | 750 [354.0]         | 22,800 [6.7]                                | 3.50             | 13,800 [4.0]                                | 2.40             | 8.0                |
| SP16AZ36AJ3                         | SH3VZ3617STACN | 34,200 [10.0]                | 26,200 [7.7]               | 8,000 [2.3]              | 16.0  | 9.8  | 1,100 [519.1]       | 34,500 [10.1]                               | 3.20             | 21,600 [6.3]                                | 2.30             | 7.5                |
| SP16AZ48AJ3                         | SH3VZ4821STACN | 45,500 [13.3]                | 34,900 [10.2]              | 10,600 [3.1]             | 16.0  | 9.8  | 1,475 [696.1]       | 45,500 [13.3]                               | 3.40             | 28,500 [8.4]                                | 2.40             | 8.0                |
| SP16AZ60AJ3                         | SH3VZ6024STACN | 55,000 [16.1]                | 42,200 [12.4]              | 12,800 [3.8]             | 16.0  | 9.8  | 1,725 [814.1]       | 57,000 [16.7]                               | 3.20             | 35,500 [10.4]                               | 2.40             | 8.0                |

**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\*

Sure Comfort® 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 Unit Replacement<br>(Registration Required)..... | Ten (10) Years |
| Parts .....                                                  | 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, Sure Comfort reserves the right to make changes without notice.*

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