



The new degree of comfort.™

## Rheem *Select*™ Series 14 SEER Heat Pumps

### WP14 Series

Efficiencies: 14 SEER/11.5 EER 8.5 HSPF

Nominal Sizes: 1½ to 5 Ton [5.28 to 17.6 kW]



- Coils constructed with copper tubing and enhanced aluminum fins.
- Includes factory installed low pressure control.
- Strong, attractive cabinet—louvered design protects the coil from damage.
- Expansion Valves with Internal Check Valve—Provides for quieter refrigerant metering.
- Demand Defrost Control
- Non-Cycling Reversing Valve
- Hot Gas Muffler
- Service Valves
- Grille/motor mount for quiet fan operation.
- Easily accessible control box.
- Bi-Directional Filter Drier (shipped – not installed)
- Certified and rated under AHRI Standard 240.
- U.L listed.



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Heat Pumps\*\*

| <u>W</u> | <u>P</u>         | <u>14</u>    | <u>24</u>                                                                                                                                                                       | <u>A</u>                         | <u>J</u>            | <u>1</u>         | <u>N</u>              | <u>A</u>       |
|----------|------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------|------------------|-----------------------|----------------|
| Brand    | Product Category | SEER         | Capacity BTU/HR                                                                                                                                                                 | Major Series*                    | Voltage             | Type             | Controls              | Minor Series** |
| Rheem    | P - Heat Pump    | 14 - 14 SEER | 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<br>B - 2nd Design | J - 1ph, 208-230/60 | 1 - Single-stage | N - Non-Communicating | A - 1st Design |

[ ] Designates Metric Conversions

Available SKUs

| Available Models |
|------------------|
| WP1418AJ1NA      |
| WP1418BJ1NA      |
| WP1424AJ1NA      |
| WP1430AJ1NA      |
| WP1436AJ1NA      |
| WP1442AJ1NA      |
| WP1448AJ1NA      |
| WP1460BJ1NA      |



Air

Model Number Identification/Available SKUs  
WP14 Series



INTEGRATED HOME COMFORT

## Electrical and Physical Data

| Model<br>Number<br>WP14 | ELECTRICAL                                 |                                |                                  |                                            |                                           |                                 |                    | PHYSICAL                  |             |             |                                      |                  |                       |  |
|-------------------------|--------------------------------------------|--------------------------------|----------------------------------|--------------------------------------------|-------------------------------------------|---------------------------------|--------------------|---------------------------|-------------|-------------|--------------------------------------|------------------|-----------------------|--|
|                         | Phase<br>Frequency (Hz)<br>Voltage (Volts) | Compressor                     |                                  | Fan Motor<br>Full Load<br>Amperes<br>(FLA) | Minimum<br>Circuit<br>Ampacity<br>Amperes | Fuse or HACR<br>Circuit Breaker |                    | Outdoor Coil              |             |             | Refrig.<br>Per<br>Circuit<br>Oz. [g] | Weight           |                       |  |
|                         |                                            | Rated Load<br>Amperes<br>(RLA) | Locked Rotor<br>Amperes<br>(LRA) |                                            |                                           | Minimum<br>Amperes              | Maximum<br>Amperes | Face Area<br>Sq. Ft. [m²] | No.<br>Rows | CFM [L/s]   |                                      | Net<br>Lbs. [kg] | Shipping<br>Lbs. [kg] |  |
|                         |                                            |                                |                                  |                                            |                                           |                                 |                    |                           |             |             |                                      |                  |                       |  |
| Rev. 11/29/2016         |                                            |                                |                                  |                                            |                                           |                                 |                    |                           |             |             |                                      |                  |                       |  |
| 18A                     | 1-60-208-230                               | 9/9                            | 48                               | 0.5                                        | 12/12                                     | 15/15                           | 20/20              | 11.06 [1.03]              | 1           | 1572 [742]  | 79 [2240]                            | 145 [65.8]       | 152 [68.9]            |  |
| 18B                     | 1-60-208-230                               | 9/9                            | 48                               | 0.8                                        | 13/13                                     | 15/15                           | 20/20              | 13.72 [1.27]              | 1           | 2590 [1222] | 100 [2835]                           | 154 [69.9]       | 164 [74.4]            |  |
| 24A                     | 1-60-208-230                               | 12.8/12.8                      | 58.3                             | 0.5                                        | 17/17                                     | 20/20                           | 25/25              | 11.06 [1.03]              | 1           | 2370 [1118] | 79 [2240]                            | 145 [65.8]       | 152 [68.9]            |  |
| 30A                     | 1-60-208-230                               | 14.1/14.1                      | 73                               | 0.8                                        | 19/19                                     | 25/25                           | 30/30              | 13.72 [1.27]              | 1           | 2800 [1321] | 97 [2750]                            | 201 [91.2]       | 208 [94.3]            |  |
| 36A                     | 1-60-208-230                               | 16.7/16.7                      | 79                               | 1.2                                        | 23/23                                     | 30/30                           | 35/35              | 16.39 [1.52]              | 1           | 3575 [1687] | 101 [2863]                           | 207 [93.9]       | 214 [97.1]            |  |
| 42A                     | 1-60-208-230                               | 17.9/17.9                      | 112                              | 1.2                                        | 24/24                                     | 30/30                           | 40/40              | 21.85 [2.03]              | 1           | 3575 [1687] | 140 [3969]                           | 220 [99.8]       | 227 [103.0]           |  |
| 48A                     | 1-60-208-230                               | 21.8/21.8                      | 117                              | 1.0                                        | 29/29                                     | 35/35                           | 50/50              | 21.85 [2.03]              | 1           | 3575 [1687] | 146 [4139]                           | 223.5 [101.4]    | 230.5 [104.6]         |  |
| 60B                     | 1-60-208-230                               | 25/25                          | 134                              | 2.8                                        | 35/35                                     | 45/45                           | 50/50              | 21.85 [2.03]              | 2           | 4100 [935]  | 275 [7796]                           | 265 [120.2]      | 280 [127.0]           |  |

### NOTES:

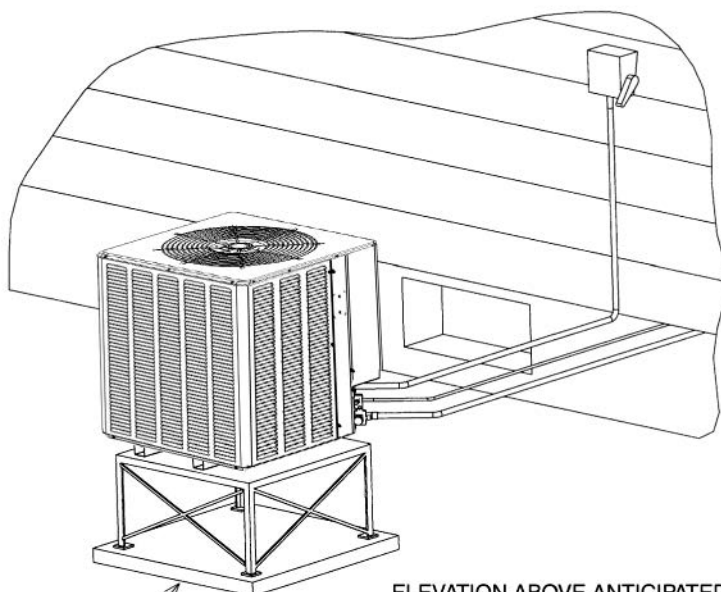
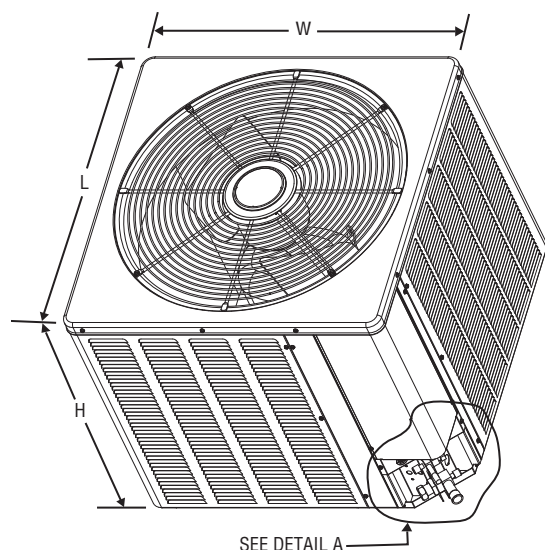
① 20 Fins per inch.

② Factory charged for 15 ft. line set.

## Weighted Sound Power Level (dBA)

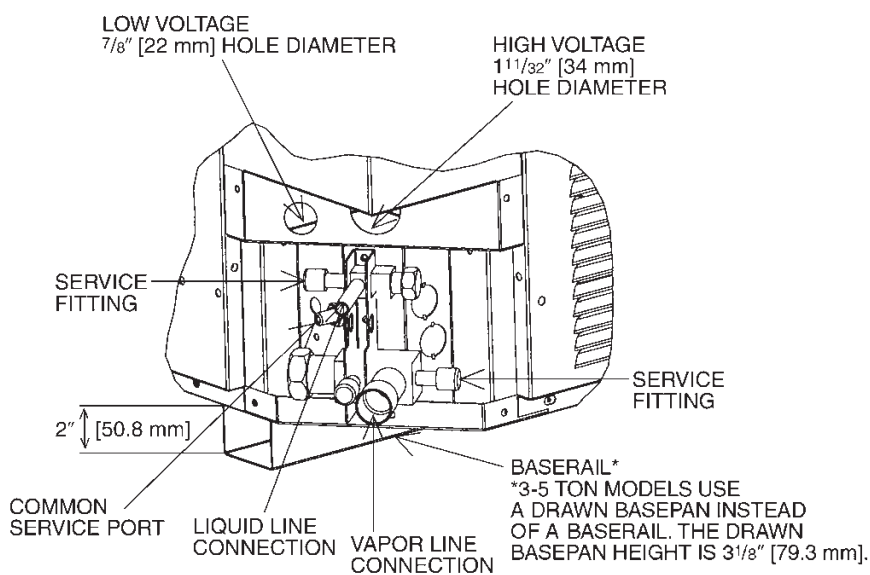
| Unit Size – Voltage, Series | Standard Rating (dBA) | TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment) |      |      |      |      |      |      |
|-----------------------------|-----------------------|------------------------------------------------------------|------|------|------|------|------|------|
|                             |                       | 125                                                        | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| WP1418A                     | 75                    | 47.6                                                       | 53.8 | 58.6 | 68.8 | 59.8 | 56.9 | 51.6 |
| WP1418B                     | 77                    | 44.9                                                       | 58.3 | 60.8 | 71.6 | 60.0 | 53.0 | 45.4 |
| WP1424A                     | 72                    | 48.0                                                       | 59.7 | 58.7 | 64.5 | 59.0 | 55.9 | 49.6 |
| WP1430A                     | 76                    | 50.0                                                       | 56.6 | 62.5 | 65.6 | 63.3 | 57.9 | 54.5 |
| WP1436A                     | 74                    | 50.9                                                       | 56.5 | 63.8 | 65.2 | 61.7 | 58.2 | 54.6 |
| WP1442A                     | 77                    | 53.3                                                       | 53.4 | 62.7 | 67.0 | 62.9 | 57.2 | 53.1 |
| WP1448A                     | 74                    | 44.5                                                       | 50.2 | 61.1 | 63.9 | 61.7 | 57.2 | 50.8 |
| WP1460B                     | 77                    | 51.5                                                       | 57.4 | 69.1 | 67.8 | 62.9 | 58.5 | 53.2 |

## Unit Dimensions



BASE PAD  
(CONCRETE OR OTHER  
SUITABLE MATERIAL)

ELEVATION ABOVE ANTICIPATED  
SNOW IS NECESSARY



**DETAIL A**

| MODEL<br>NUMBER | 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  |
| WP1418AJ1NA     | 26.25      | 667 | 23.625     | 600 | 23.625    | 600 | 26.25      | 667 | 23.625     | 600 | 23.625    | 600 |
| WP1418BJ1NA     | 26.25      | 667 | 27.625     | 702 | 27.625    | 702 | 26.25      | 667 | 27.625     | 702 | 27.625    | 702 |
| WP1424AJ1NA     | 26.25      | 667 | 23.625     | 600 | 23.625    | 600 | 26.25      | 667 | 23.625     | 600 | 23.625    | 600 |
| WP1430AJ1NA     | 26.25      | 667 | 27.625     | 702 | 27.625    | 702 | 26.25      | 667 | 27.625     | 702 | 27.625    | 702 |
| WP1436AJ1NA     | 27.375     | 695 | 31.625     | 803 | 31.625    | 803 | 27.375     | 695 | 31.625     | 803 | 31.625    | 803 |
| WP1442AJ1NA     | 35.375     | 899 | 31.625     | 803 | 31.625    | 803 | 35.375     | 899 | 31.625     | 803 | 31.625    | 803 |
| WP1448AJ1NA     | 35.375     | 899 | 31.625     | 803 | 31.625    | 803 | 35.375     | 899 | 31.625     | 803 | 31.625    | 803 |
| WP1460BJ1NA     | 35.375     | 899 | 31.625     | 803 | 31.625    | 803 | 35.375     | 899 | 31.625     | 803 | 31.625    | 803 |

# Heat Pump Refrigerant Line Size Information



Air

Refrigerant Line Size Information  
WP14 Series

| 14 SEER Single-Stage Heat Pumps |                            |                           |                                                                                  |                                                   |           |           |           |            |            |            |            |            |            |            |    |    |
|---------------------------------|----------------------------|---------------------------|----------------------------------------------------------------------------------|---------------------------------------------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|----|----|
| Unit Size                       | Allowable Liquid Line Size | Allowable Vapor Line Size | Use Long Line Guidelines for Linear Line Lengths Greater Than Shown Below (Feet) | Outdoor Unit ABOVE or BELOW Indoor Unit           |           |           |           |            |            |            |            |            |            |            |    |    |
|                                 |                            |                           |                                                                                  | Equivalent Length (Feet)                          |           |           |           |            |            |            |            |            |            |            |    |    |
|                                 |                            |                           |                                                                                  | < 25                                              | 26-50     | 51-75     | 76-100    | 101-125    | 126-150    | 151-175    | 176-200    | 201-225    | 226-250    |            |    |    |
|                                 |                            |                           |                                                                                  | Maximum Vertical Separation / Capacity Multiplier |           |           |           |            |            |            |            |            |            |            |    |    |
| 1.5 Ton<br>**SEE NOTE 3         | 1/4"                       | 5/8"                      | n/a                                                                              | n/a                                               | 25 / 1.00 | 50 / 0.99 | 62 / 0.98 | 43 / 0.98  | 24 / 0.97  | 5 / 0.97   | NR         | NR         | NR         | NR         | NR | NR |
|                                 | 5/16"                      | 5/8"                      | 195                                                                              | 149                                               | 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"                      | 130                                                                              | 104                                               | 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                                                                              | n/a                                               | 25 / 1.00 | 50 / 1.00 | 62 / 0.99 | 43 / 0.99  | 24 / 0.99  | 5 / 0.99   | NR         | NR         | NR         | NR         | NR | NR |
|                                 | 5/16"                      | 3/4***                    | 195                                                                              | 149                                               | 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***                    | 130                                                                              | 104                                               | 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                                                                              | n/a                                               | 25 / 0.99 | 50 / 0.98 | 21 / 0.97 | NR         | NR         | NR         | NR         | NR         | NR         | NR         | NR | NR |
|                                 | 5/16"                      | 5/8"                      | 195                                                                              | n/a                                               | 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"                      | 130                                                                              | n/a                                               | 25 / 0.99 | 50 / 0.98 | 75 / 0.97 | 100 / 0.96 | 100 / 0.95 | 100 / 0.94 | 98 / 0.93  | 95 / 0.92  | 93 / 0.91  | 90 / 0.90  |    |    |
|                                 | 1/4"                       | 3/4"                      | n/a                                                                              | n/a                                               | 25 / 1.00 | 50 / 1.00 | 21 / 0.99 | NR         | NR         | NR         | NR         | NR         | NR         | NR         | NR | NR |
|                                 | 5/16"                      | 3/4"                      | 195                                                                              | n/a                                               | 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"                      | 130                                                                              | n/a                                               | 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"                      | 150                                                                              | 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         | NR | NR |
|                                 | 3/8"                       | 5/8"                      | 100                                                                              | n/a                                               | 25 / 0.99 | 50 / 0.98 | 75 / 0.96 | 100 / 0.94 | 98 / 0.93  | 94 / 0.91  | 90 / 0.90  | NR         | NR         | NR         | NR | NR |
|                                 | 5/16"                      | 3/4"                      | 150                                                                              | n/a                                               | 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"                      | 100                                                                              | n/a                                               | 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                                                                              | n/a                                               | 25 / 0.99 | 50 / 0.97 | 66 / 0.94 | 49 / 0.92  | 32 / 0.90  | NR         | NR         | NR         | NR         | NR         | NR | NR |
|                                 | 3/8"                       | 5/8"                      | 93                                                                               | n/a                                               | 25 / 0.99 | 50 / 0.97 | 75 / 0.94 | 95 / 0.92  | 89 / 0.90  | NR         | NR         | NR         | NR         | NR         | NR | NR |
| 3 Ton                           | 5/16"                      | 3/4"                      | 140                                                                              | n/a                                               | 25 / 1.00 | 50 / 0.99 | 66 / 0.98 | 49 / 0.98  | 32 / 0.97  | 15 / 0.96  | NR         | NR         | NR         | NR         | NR | NR |
|                                 | 3/8"                       | 3/4"                      | 93                                                                               | n/a                                               | 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"                      | 47                                                                               | n/a                                               | 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"                      | 140                                                                              | n/a                                               | 25 / 1.00 | 50 / 1.00 | 66 / 1.00 | 49 / 0.99  | 32 / 0.99  | 15 / 0.99  | NR         | NR         | NR         | NR         | NR | NR |
|                                 | 3/8"                       | 7/8"                      | 93                                                                               | n/a                                               | 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"                      | 47                                                                               | n/a                                               | 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"                      | 92                                                                               | n/a                                               | 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"                      | 46                                                                               | n/a                                               | 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"                      | 92                                                                               | n/a                                               | 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"                      | 46                                                                               | n/a                                               | 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:

- Do not exceed 200 ft linear line length.
- \*Do not exceed 100 ft vertical separation if outdoor unit is above indoor unit.
- \*\*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.
- Always use the smallest liquid line allowable to minimize refrigerant charge.
- Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.



# Heat Pump Refrigerant Line Size Information

| 14 SEER Single-Stage Heat Pumps |                            |                           |                                                                                  |                                                   |           |           |           |            |            |            |            |            |           |           |
|---------------------------------|----------------------------|---------------------------|----------------------------------------------------------------------------------|---------------------------------------------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|-----------|-----------|
| Unit Size                       | Allowable Liquid Line Size | Allowable Vapor Line Size | Use Long Line Guidelines for Linear Line Lengths Greater Than Shown Below (Feet) | Outdoor Unit ABOVE or BELOW Indoor Unit           |           |           |           |            |            |            |            |            |           |           |
|                                 |                            |                           |                                                                                  | Equivalent Length (Feet)                          |           |           |           |            |            |            |            |            |           |           |
|                                 |                            |                           |                                                                                  | < 25                                              | 26-50     | 51-75     | 76-100    | 101-125    | 126-150    | 151-175    | 176-200    | 201-225    | 226-250   |           |
| WP14--A                         |                            |                           |                                                                                  | Maximum Vertical Separation / Capacity Multiplier |           |           |           |            |            |            |            |            |           |           |
| 4 Ton                           | 3/8"                       | 3/4"                      | 82                                                                               | n/a                                               | 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"                      | 41                                                                               | n/a                                               | 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"                      | 82                                                                               | n/a                                               | 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"                      | 41                                                                               | n/a                                               | 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 |
| 5 Ton                           | 3/8"                       | 3/4"                      | 0                                                                                | 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                                                                                | 0                                                 | 25 / 0.99 | 50 / 0.97 | 75 / 0.94 | 100 / 0.92 | 100 / 0.90 | NR         | NR         | NR         | NR        | NR        |
|                                 | 3/8"                       | 7/8"                      | 0                                                                                | 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                                                                                | 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                                                                                | 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                                                                                | 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:

- Do not exceed 200 ft linear line length.
- \* Do not exceed 100 ft vertical separation if outdoor unit is above indoor unit.
- \*\* 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.
- Always use the smallest liquid line allowable to minimize refrigerant charge.
- Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
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# Heat Pump Refrigerant Line Size Information



Air

Refrigerant Line Size Information  
WP14 Series

| 14 SEER Single-Stage Heat Pumps     |                                           |                                          |                                                                                             |                                                   |          |           |           |           |           |           |           |           |           |           |           |  |
|-------------------------------------|-------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| Unit Size                           | Allowable<br>Liquid Line<br>Size mm [in.] | Allowable<br>Vapor Line<br>Size mm [in.] | Use Long Line Guidelines<br>for Linear Line Lengths<br>Greater Than Shown<br>Below (Meters) | Outdoor Unit ABOVE or BELOW Indoor Unit           |          |           |           |           |           |           |           |           |           |           |           |  |
|                                     |                                           |                                          |                                                                                             | Equivalent Length (Meters)                        |          |           |           |           |           |           |           |           |           |           |           |  |
|                                     |                                           |                                          |                                                                                             | < 8                                               | 8-15     | 16-23     | 24-30     | 31-38     | 39-46     | 47-53     | 54-61     | 62-69     | 70-76     |           |           |  |
|                                     |                                           |                                          |                                                                                             | Maximum Vertical Separation / Capacity Multiplier |          |           |           |           |           |           |           |           |           |           |           |  |
| 5.3 KW<br>[1.5 Ton]<br>**SEE NOTE 3 | 6.35 [1/4]                                | 15.88 [5/8]                              | WP14--A                                                                                     | WP14--B                                           | 8 / 1.00 | 15 / 0.99 | 19 / 0.98 | 13 / 0.98 | 7 / 0.97  | 2 / 0.97  | NR        | NR        | NR        | NR        | NR        |  |
|                                     | 7.94 [5/16]                               | 15.88 [5/8]                              | 59                                                                                          | 45                                                | 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 | 21 / 0.94 |  |
|                                     | 9.53 [3/8]                                | 15.88 [5/8]                              | 40                                                                                          | 32                                                | 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 | 30 / 0.94 |  |
|                                     | 6.35 [1/4]                                | 19.05 [3/4]**                            | n/a                                                                                         | n/a                                               | 8 / 1.00 | 15 / 1.00 | 19 / 0.99 | 13 / 0.99 | 7 / 0.99  | 2 / 0.99  | NR        | NR        | NR        | NR        | NR        |  |
|                                     | 7.94 [5/16]                               | 19.05 [3/4]**                            | 59                                                                                          | 45                                                | 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 | 21 / 0.98 |  |
|                                     | 9.53 [3/8]                                | 19.05 [3/4]**                            | 40                                                                                          | 32                                                | 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 | 30 / 0.98 |  |
| 7.0 KW<br>[2 Ton]                   | 6.35 [1/4]                                | 15.88 [5/8]                              | n/a                                                                                         | n/a                                               | 8 / 0.99 | 15 / 0.98 | 6 / 0.97  | NR        | NR        | NR        | NR        | NR        | NR        | NR        | NR        |  |
|                                     | 7.94 [5/16]                               | 15.88 [5/8]                              | 59                                                                                          | n/a                                               | 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 | 11 / 0.90 |  |
|                                     | 9.53 [3/8]                                | 15.88 [5/8]                              | 40                                                                                          | n/a                                               | 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 | 27 / 0.90 |  |
|                                     | 6.35 [1/4]                                | 19.05 [3/4]                              | n/a                                                                                         | n/a                                               | 8 / 1.00 | 15 / 1.00 | 6 / 0.99  | NR        | NR        | NR        | NR        | NR        | NR        | NR        | NR        |  |
|                                     | 7.94 [5/16]                               | 19.05 [3/4]                              | 59                                                                                          | n/a                                               | 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 | 11 / 0.96 |  |
|                                     | 9.53 [3/8]                                | 19.05 [3/4]                              | 40                                                                                          | n/a                                               | 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 | 27 / 0.96 |  |
| 8.8 KW<br>[2.5 Ton]                 | 7.94 [5/16]                               | 15.88 [5/8]                              | 46                                                                                          | 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        | NR        |  |
|                                     | 9.53 [3/8]                                | 15.88 [5/8]                              | 30                                                                                          | n/a                                               | 8 / 0.99 | 15 / 0.98 | 23 / 0.96 | 30 / 0.94 | 30 / 0.93 | 29 / 0.91 | 27 / 0.90 | NR        | NR        | NR        | NR        |  |
|                                     | 7.94 [5/16]                               | 19.05 [3/4]                              | 46                                                                                          | n/a                                               | 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        | NR        |  |
|                                     | 9.53 [3/8]                                | 19.05 [3/4]                              | 30                                                                                          | n/a                                               | 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 | 24 / 0.95 |  |
|                                     | 7.94 [5/16]                               | 15.88 [5/8]                              | n/a                                                                                         | n/a                                               | 8 / 0.99 | 15 / 0.97 | 20 / 0.94 | 15 / 0.92 | 10 / 0.90 | NR        | NR        | NR        | NR        | NR        | NR        |  |
|                                     | 9.53 [3/8]                                | 15.88 [5/8]                              | 28                                                                                          | n/a                                               | 8 / 0.99 | 15 / 0.97 | 23 / 0.94 | 29 / 0.92 | 27 / 0.90 | NR        | NR        | NR        | NR        | NR        | NR        |  |
| 10.6 KW<br>[3 Ton]                  | 7.94 [5/16]                               | 19.05 [3/4]                              | 43                                                                                          | n/a                                               | 8 / 1.00 | 15 / 0.99 | 20 / 0.98 | 15 / 0.98 | 10 / 0.97 | 5 / 0.96  | NR        | NR        | NR        | NR        | NR        |  |
|                                     | 9.53 [3/8]                                | 19.05 [3/4]                              | 28                                                                                          | n/a                                               | 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 | 19 / 0.93 |  |
|                                     | 12.70 [1/2]                               | 19.05 [3/4]                              | 14                                                                                          | n/a                                               | 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 | 30 / 0.93 |  |
|                                     | 7.94 [5/16]                               | 22.23 [7/8]                              | 43                                                                                          | n/a                                               | 8 / 1.00 | 15 / 1.00 | 20 / 1.00 | 15 / 0.99 | 10 / 0.99 | 5 / 0.99  | NR        | NR        | NR        | NR        | NR        |  |
|                                     | 9.53 [3/8]                                | 22.23 [7/8]                              | 28                                                                                          | n/a                                               | 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 | 19 / 0.97 |  |
|                                     | 12.70 [1/2]                               | 22.23 [7/8]                              | 14                                                                                          | n/a                                               | 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 / 0.98 | 30 / 0.97 |  |
| 12.3 KW<br>[3.5 Ton]                | 9.53 [3/8]                                | 19.05 [3/4]                              | 28                                                                                          | n/a                                               | 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        | NR        |  |
|                                     | 12.70 [1/2]                               | 19.05 [3/4]                              | 14                                                                                          | n/a                                               | 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        | NR        |  |
|                                     | 9.53 [3/8]                                | 22.23 [7/8]                              | 28                                                                                          | n/a                                               | 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 | 13 / 0.96 |  |
|                                     | 12.70 [1/2]                               | 22.23 [7/8]                              | 14                                                                                          | n/a                                               | 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 / 0.97 | 30 / 0.96 | 30 / 0.96 |  |
|                                     | 9.53 [3/8]                                | 22.23 [7/8]                              | 28                                                                                          | n/a                                               | 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        | NR        |  |
|                                     | 12.70 [1/2]                               | 22.23 [7/8]                              | 14                                                                                          | n/a                                               | 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 | 13 / 0.96 |  |

## NOTES:

- Do not exceed 61 meters linear line length.
- \*Do not exceed 30 meters vertical separation if outdoor unit is above indoor unit.
- \*\*19.05 mm [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.
- Always use the smallest liquid line allowable to minimize refrigerant charge.
- Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

[ ] Designates Metric Conversions





# Heat Pump Refrigerant Line Size Information

| 14 SEER Single-Stage Heat Pumps |                                     |                                    |                                                                                    |                                                   |          |           |           |           |           |           |           |           |           |           |
|---------------------------------|-------------------------------------|------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Unit Size                       | Allowable Liquid Line Size mm [in.] | Allowable Vapor Line Size mm [in.] | Use Long Line Guidelines for Linear Line Lengths Greater Than Shown Below (Meters) | Outdoor Unit ABOVE or BELOW Indoor Unit           |          |           |           |           |           |           |           |           |           |           |
|                                 |                                     |                                    |                                                                                    | Equivalent Length (Meters)                        |          |           |           |           |           |           |           |           |           |           |
|                                 |                                     |                                    |                                                                                    | < 8                                               | 8-15     | 16-23     | 24-30     | 31-38     | 39-46     | 47-53     | 54-61     | 62-69     | 70-76     |           |
|                                 |                                     |                                    |                                                                                    | Maximum Vertical Separation / Capacity Multiplier |          |           |           |           |           |           |           |           |           |           |
| 14.1 KW<br>[4 Ton]              | 9.53 [3/8]                          | 19.05 [3/4]                        | 25                                                                                 | n/a                                               | 8 / 0.99 | 15 / 0.98 | 23 / 0.96 | 24 / 0.95 | 20 / 0.93 | 17 / 0.92 | 14 / 0.91 | NR        | NR        | NR        |
|                                 | 12.70 [1/2]                         | 19.05 [3/4]                        | 12                                                                                 | n/a                                               | 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]                        | 25                                                                                 | n/a                                               | 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  |
|                                 | 12.70 [1/2]                         | 22.23 [7/8]                        | 12                                                                                 | n/a                                               | 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 |
| 17.6 KW<br>[5 Ton]              | 9.53 [3/8]                          | 19.05 [3/4]                        | 0                                                                                  | 0                                                 | 8 / 0.99 | 15 / 0.97 | 23 / 0.94 | 19 / 0.92 | 14 / 0.90 | NR        | NR        | NR        | NR        | NR        |
|                                 | 12.70 [1/2]                         | 19.05 [3/4]                        | 0                                                                                  | 0                                                 | 8 / 0.99 | 15 / 0.97 | 23 / 0.94 | 30 / 0.92 | 30 / 0.90 | NR        | NR        | NR        | NR        | NR        |
|                                 | 9.53 [3/8]                          | 22.23 [7/8]                        | 0                                                                                  | 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        |
|                                 | 12.70 [1/2]                         | 22.23 [7/8]                        | 0                                                                                  | 0                                                 | 8 / 1.00 | 15 / 0.99 | 23 / 0.98 | 30 / 0.98 | 30 / 0.97 | 30 / 0.96 | 30 / 0.95 | 29 / 0.94 | 28 / 0.93 | 27 / 0.92 |
|                                 | 9.53 [3/8]                          | 28.58 [1-1/8]                      | 0                                                                                  | 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        |
|                                 | 12.70 [1/2]                         | 28.58 [1-1/8]                      | 0                                                                                  | 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:

- Do not exceed 61 meters linear line length.
- \* Do not exceed 30 meters vertical separation if outdoor unit is above indoor unit.
- \*\*19.05 mm [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.
- Always use the smallest liquid line allowable to minimize refrigerant charge.
- Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

## [ ] Designates Metric Conversions



## Performance Data @ AHRI Standard Conditions – Heat Pump

| 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] | SEER | EER  | Indoor CFM [L/s] | 47 Degree<br>Heating Capacity<br>BTU/H [kW] | 47 Degree<br>COP | 17 Degree<br>Heating Capacity<br>BTU/H [kW] | 17 Degree<br>COP | Region<br>IV HSPF |
| WP1418AJ1                           | WH1T2417STAN | 18000 [5.3]                  | 13500 [4.0]                | 4500 [1.3]               | 14   | 11.5 | 575 [271.4]      | 16600 [4.9]                                 | 3.66             | 10500 [3.1]                                 | 2.40             | 8.5               |
| WP1418BJ1                           | WH1T2417STAN | 18000 [5.3]                  | 14300 [4.2]                | 3700 [1.1]               | 14   | 11.5 | 700 [330.3]      | 17100 [5.1]                                 | 3.65             | 10400 [3.1]                                 | 2.35             | 8.2               |
| WP1424AJ1                           | WH1T2417STAN | 23800 [7.0]                  | 18300 [5.4]                | 5500 [1.6]               | 14   | 11.5 | 800 [377.6]      | 22000 [6.4]                                 | 3.66             | 13900 [4.1]                                 | 2.46             | 8.5               |
| WP1430AJ1                           | WH1T3617STAN | 29000 [8.5]                  | 22000 [6.4]                | 7000 [2.1]               | 14   | 11.5 | 1025 [483.7]     | 26000 [7.6]                                 | 3.46             | 15200 [4.5]                                 | 2.20             | 8.5               |
| WP1436AJ1                           | WH1T3617STAN | 35400 [10.4]                 | 26800 [7.9]                | 8600 [2.5]               | 14   | 11.5 | 1200 [566.3]     | 34200 [10.0]                                | 3.40             | 21400 [6.3]                                 | 2.26             | 8.5               |
| WP1442AJ1                           | WH1T4821STAN | 40500 [11.9]                 | 30000 [8.8]                | 10500 [3.1]              | 14   | 11.5 | 1400 [660.7]     | 40500 [11.9]                                | 3.76             | 25800 [7.6]                                 | 2.66             | 8.5               |
| WP1448AJ1                           | WH1T4821STAN | 47000 [13.8]                 | 36400 [10.7]               | 11600 [3.4]              | 14   | 11.5 | 1600 [755.1]     | 47000 [13.8]                                | 3.60             | 29600 [8.7]                                 | 2.50             | 8.2               |
| WP1460BJ1                           | WH1T6024STAN | 56000 [16.41]                | 41600 [12.19]              | 14400 [4.22]             | 14   | 11.0 | 1825 [861.3]     | 58000 [17.0]                                | 3.75             | 36800 [10.8]                                | 2.60             | 8.2               |

**Note:** Additional ratings and system match ups and downloadable ratings certificates can be accessed from the AHRI website: [www.ahridirectory.org](http://www.ahridirectory.org)

[ ] Designates Metric Conversions



## GENERAL TERMS OF LIMITED WARRANTY\*

Rheem 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.**

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