



Ruud Choice™ 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**
Ruud	P - Heat Pump	14 - 14 SEER	18 - 18,000 [5.28 kW] 24 - 24,000 [7.03 kW] 30 - 30,000 [8.79 kW] 36 - 36,000 [10.55 kW] 42 - 42,000 [12.31 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	A - 1st Design 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

Electrical and Physical Data

Model Number WP14	ELECTRICAL							PHYSICAL					
	Phase Frequency (Hz) Voltage (Volts)	Compressor		Fan Motor Full Load Amperes (FLA)	Minimum Circuit Ampacity Amperes	Fuse or HACR Circuit Breaker		Outdoor Coil			Refrig. Per Circuit Oz. [g]	Weight	
		Rated Load Amperes (RLA)	Locked Rotor Amperes (LRA)			Minimum Amperes	Maximum Amperes	Face Area Sq. Ft. [m²]	No. Rows	CFM [L/s]		Net Lbs. [kg]	Shipping 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]

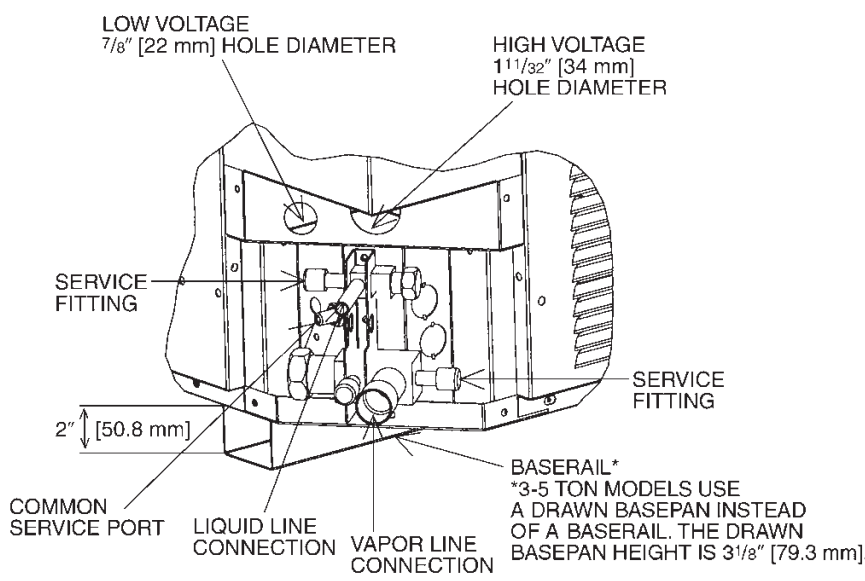
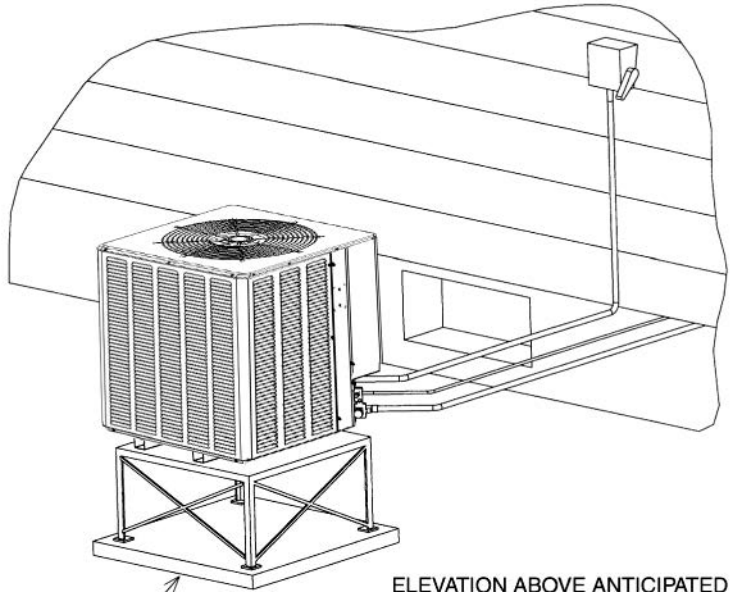
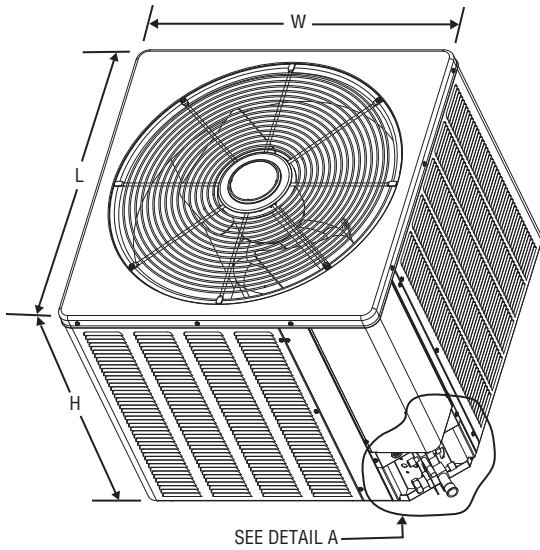
NOTES:

- 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



DETAIL A

MODEL 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

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										
WP14--A				WP14--B										
1.5 Ton **SEE NOTE 3	1/4"	5/8"	n/a	25 / 1.00	50 / 0.99	62 / 0.98	43 / 0.98	24 / 0.97	5 / 0.97	NR	NR	NR	NR	NR
	5/16"	5/8"	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"	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	25 / 1.00	50 / 1.00	62 / 0.99	43 / 0.99	24 / 0.99	5 / 0.99	NR	NR	NR	NR	
	5/16"	3/4**	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	25 / 1.00	50 / 1.00	75 / 1.00	100 / 0.99	100 / 0.99	100 / 0.99	100 / 0.99	100 / 0.99	100 / 0.98	100 / 0.98	
	1/4"	5/8"	n/a	25 / 0.99	50 / 0.98	21 / 0.97	NR	NR	NR	NR	NR	NR	NR	
	5/16"	5/8"	195	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"	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	25 / 1.00	50 / 1.00	21 / 0.99	NR	NR	NR	NR	NR	NR	NR	
2 Ton	5/16"	3/4"	195	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"	n/a	25 / 1.00	50 / 0.98	75 / 0.99	100 / 0.99	100 / 0.98	100 / 0.98	98 / 0.98	95 / 0.97	93 / 0.97	90 / 0.96	
	1/4"	3/4"	n/a	25 / 1.00	50 / 1.00	21 / 0.99	NR	NR	NR	NR	NR	NR	NR	
	5/16"	3/4"	130	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	
	3/8"	3/4"	n/a	25 / 1.00	50 / 0.98	75 / 0.96	70 / 0.94	59 / 0.93	48 / 0.91	36 / 0.90	NR	NR	NR	
	5/16"	5/8"	150	25 / 0.99	50 / 0.98	75 / 0.99	100 / 0.98	100 / 0.98	100 / 0.98	98 / 0.98	95 / 0.97	93 / 0.97	90 / 0.96	
	3/8"	5/8"	100	25 / 0.99	50 / 0.98	75 / 0.96	100 / 0.94	98 / 0.93	94 / 0.91	90 / 0.90	NR	NR	NR	
	5/16"	3/4"	150	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	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	
	1/4"	5/8"	n/a	25 / 0.99	50 / 0.97	66 / 0.94	49 / 0.92	32 / 0.90	NR	NR	NR	NR	NR	
3 Ton	5/16"	3/4"	93	25 / 0.99	50 / 0.97	75 / 0.94	95 / 0.92	89 / 0.90	NR	NR	NR	NR	NR	
	3/8"	3/4"	140	25 / 1.00	50 / 0.99	66 / 0.98	49 / 0.98	32 / 0.97	15 / 0.96	NR	NR	NR	NR	
	1/2"	3/4"	93	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	
	5/16"	3/4"	47	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	
	3/8"	7/8"	140	25 / 1.00	50 / 1.00	66 / 1.00	49 / 0.99	32 / 0.99	15 / 0.99	NR	NR	NR	NR	
	1/2"	7/8"	93	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	
	5/16"	3/4"	47	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	
	3/8"	3/4"	92	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	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	
	5/16"	3/4"	92	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	
3.5 Ton	1/2"	7/8"	92	25 / 1.00	50 / 1.00	75 / 0.99	100 / 0.99	100 / 0.99	100 / 0.99	100 / 0.99	100 / 0.98	100 / 0.97	100 / 0.96	
	5/16"	3/4"	46	25 / 1.00	50 / 1.00	75 / 0.99	100 / 0.99	100 / 0.99	100 / 0.99	100 / 0.98	100 / 0.97	100 / 0.96	100 / 0.96	
	3/8"	7/8"	92	25 / 1.00	50 / 1.00	75 / 0.99	100 / 0.99	100 / 0.99	100 / 0.99	100 / 0.98	100 / 0.97	100 / 0.96	100 / 0.96	
	1/2"	7/8"	46	25 / 1.00	50 / 1.00	75 / 0.99	100 / 0.99	100 / 0.99	100 / 0.99	100 / 0.98	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 Guide lines 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
				Maximum Vertical Separation / Capacity Multiplier								
4 Ton	3/8"	3/4"	WP14--A 82	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"	n/a	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"	n/a	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"	n/a	50/0.99	75/0.99	100/0.98	100/0.97	100/0.97	100/0.96	100/0.96	99/0.95	97/0.95
	3/8"	3/4"	0	50/0.97	75/0.94	61/0.92	46/0.90	NR	NR	NR	NR	NR
5 Ton	1/2"	3/4"	0	50/0.97	75/0.94	100/0.92	100/0.90	NR	NR	NR	NR	NR
	3/8"	7/8"	0	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	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	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	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.
 - 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 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											
	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	NR
5.3 KW [1.5 Ton] **SEE NOTE 3	6.35 [1/4]	15.88 [5/8]	n/a	8 / 1.00	15 / 0.99	19 / 0.98	13 / 0.98	7 / 0.97	2 / 0.97	NR	NR	NR	NR	NR	NR
	7.94 [5/16]	15.88 [5/8]	59	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	21 / 0.94
	9.53 [3/8]	15.88 [5/8]	40	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	30 / 0.94
	6.35 [1/4]	19.05 [3/4]**	n/a	8 / 1.00	15 / 1.00	19 / 0.99	13 / 0.99	7 / 0.99	2 / 0.99	NR	NR	NR	NR	NR	NR
	7.94 [5/16]	19.05 [3/4]**	59	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	21 / 0.98
	9.53 [3/8]	19.05 [3/4]**	40	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.98	30 / 0.98	30 / 0.98
7.0 KW [2 Ton]	6.35 [1/4]	15.88 [5/8]	n/a	8 / 0.99	15 / 0.98	6 / 0.97	NR	NR	NR	NR	NR	NR	NR	NR	NR
	7.94 [5/16]	15.88 [5/8]	59	8 / 0.99	15 / 0.98	23 / 0.97	27 / 0.96	23 / 0.95	21 / 0.94	19 / 0.93	16 / 0.92	14 / 0.91	11 / 0.90	11 / 0.90	11 / 0.90
	9.53 [3/8]	15.88 [5/8]	40	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	27 / 0.90
	6.35 [1/4]	19.05 [3/4]	n/a	8 / 1.00	15 / 1.00	6 / 0.99	NR	NR	NR	NR	NR	NR	NR	NR	NR
	7.94 [5/16]	19.05 [3/4]	59	8 / 1.00	15 / 1.00	23 / 0.99	27 / 0.99	23 / 0.98	21 / 0.98	19 / 0.98	16 / 0.97	14 / 0.97	11 / 0.96	11 / 0.96	11 / 0.96
	9.53 [3/8]	19.05 [3/4]	40	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	30 / 0.99	30 / 0.98	30 / 0.98	29 / 0.97	28 / 0.97	27 / 0.96	27 / 0.96	27 / 0.96
8.8 KW [2.5 Ton]	7.94 [5/16]	15.88 [5/8]	46	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	NR
	9.53 [3/8]	15.88 [5/8]	30	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	NR
	7.94 [5/16]	19.05 [3/4]	46	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	4 / 0.95	4 / 0.95	4 / 0.95
	9.53 [3/8]	19.05 [3/4]	30	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	24 / 0.95
	7.94 [5/16]	15.88 [5/8]	n/a	8 / 0.99	15 / 0.97	20 / 0.94	15 / 0.92	10 / 0.90	NR	NR	NR	NR	NR	NR	NR
	9.53 [3/8]	15.88 [5/8]	28	8 / 0.99	15 / 0.97	23 / 0.94	29 / 0.92	27 / 0.90	NR	NR	NR	NR	NR	NR	NR
10.6 KW [3 Ton]	7.94 [5/16]	19.05 [3/4]	43	8 / 1.00	15 / 0.99	20 / 0.98	15 / 0.98	10 / 0.97	5 / 0.96	NR	NR	NR	NR	NR	NR
	9.53 [3/8]	19.05 [3/4]	28	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	19 / 0.93
	12.70 [1/2]	19.05 [3/4]	14	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	30 / 0.93
	7.94 [5/16]	22.23 [7/8]	43	8 / 1.00	15 / 1.00	20 / 1.00	15 / 0.99	10 / 0.99	5 / 0.99	NR	NR	NR	NR	NR	NR
	9.53 [3/8]	22.23 [7/8]	28	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	19 / 0.97
	12.70 [1/2]	22.23 [7/8]	14	8 / 1.00	15 / 1.00	23 / 1.00	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.97	30 / 0.97
12.3 KW [3.5 Ton]	9.53 [3/8]	19.05 [3/4]	28	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	NR
	12.70 [1/2]	19.05 [3/4]	14	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	NR
	9.53 [3/8]	22.23 [7/8]	28	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	13 / 0.96
	12.70 [1/2]	22.23 [7/8]	14	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.98	30 / 0.97	30 / 0.97	30 / 0.96	30 / 0.96	30 / 0.96
	9.53 [3/8]	19.05 [3/4]	28	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	NR
	12.70 [1/2]	19.05 [3/4]	14	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	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.

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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										
			WP14--A	WP14--B										
14.1 KW [4 Ton]	9.53 [3/8]	19.05 [3/4]	25	n/a	8 / 0.99	15 / 0.98	23 / 0.96	24 / 0.96	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 [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 / 0.97	30 / 0.96	30 / 0.95	30 / 0.94	29 / 0.94	28 / 0.93	27 / 0.92
	9.53 [3/8]	28.58 [1-1/8]	0	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.

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Performance Data @ AHRI Standard Conditions – Heat Pump

Designated Tested Combination (DTC)												
Outdoor Unit	Air Handler	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]	47 Degree Heating Capacity BTU/H [kW]	47 Degree COP	17 Degree Heating Capacity BTU/H [kW]	17 Degree COP	Region 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

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GENERAL TERMS OF LIMITED WARRANTY*

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

Parts.....Five (5) Years

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



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

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