



14 SEER HEAT PUMPS

Features

- 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.

Applications

WeatherKing remote heat pumps offer comfort and dependability for single, multi-family and light commercial applications.



WP14**F SERIES

Nominal Sizes 1.5 to 2.5 Tons [5.28 to 8.79 kW]

Efficiency 14 SEER/11.5 EER/8.5 HSPF

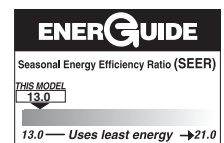


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Heat Pumps (For Reference)**

<u>W</u>	<u>P</u>	<u>14</u>	<u>24</u>	<u>F</u>	<u>J</u>	<u>1</u>	<u>N</u>	<u>A</u>	<u>*</u>
Brand	Product Category	SEER	Capacity BTU/HR	Major Series*	Voltage	Type	Controls	Minor Series**	Option Code
WeatherKing	P - Heat Pump	14 - 14 SEER	24 - 24,000 [7.03 kW] 30 - 30,000 [8.79 kW]	A - 1st Design F - Front Return Matchup	J - 1ph, 208-230/60	1 - Single-stage	N - Non-Communicating	A - 1st Design	N/A

Air Conditioners*

<u>W</u>	<u>A</u>	<u>13</u>	<u>24</u>	<u>A</u>	<u>J</u>	<u>1</u>	<u>N</u>	<u>A</u>	<u>*</u>
Brand	Product Category	SEER	Capacity BTU/HR	Major Series*	Voltage	Type	Controls	Minor Series**	Option Code
WeatherKing	A - Air Conditioners	13 - 13 SEER 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	J - 1ph, 208-230/60 C - 3ph, 208-230/60 D - 3ph, 460/60	1 - Single-stage	N - Non-Communicating	A - 1st Design	N/A

Air Handlers (For Reference)**

<u>W</u>	<u>H</u>	<u>1</u>	<u>I</u>	<u>17</u>	<u>S</u>	<u>I</u>	<u>A</u>	<u>N</u>	<u>A</u>	<u>000</u>	<u>*</u>		
Brand	Product Category	Stages of Airflow	Motor Type	Capacity BTU/HR	Width	Coil Size	Metering Device	Major Series*	Controls	Voltage	Minor Series**	Factory Heat Cap	Option Code
WeatherKing	H - Air Handler	1 - Single-Stage	T - Constant Torque P - PSC	24 - 24,000 [7.03 kW] 36 - 36,000 [10.55 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	14 - 14" 17 - 17.5" 21 - 21" 24 - 24.5"	S - Standard Eff. M - Mid Eff. H - High Eff.	T - TEV	A - 1st Design	C - Communicating N - Non-comm	A - 1ph, 115/60 J - 1ph, 208-240/60 D - 3ph, 480/60	A - 1st Design	00 - no factory heat with option code	*TBD

[] Designates Metric Conversions

Available SKU's

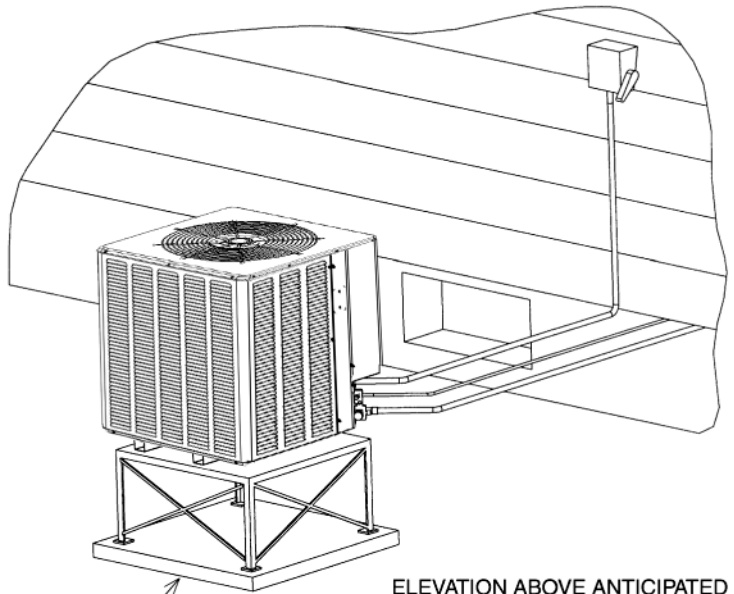
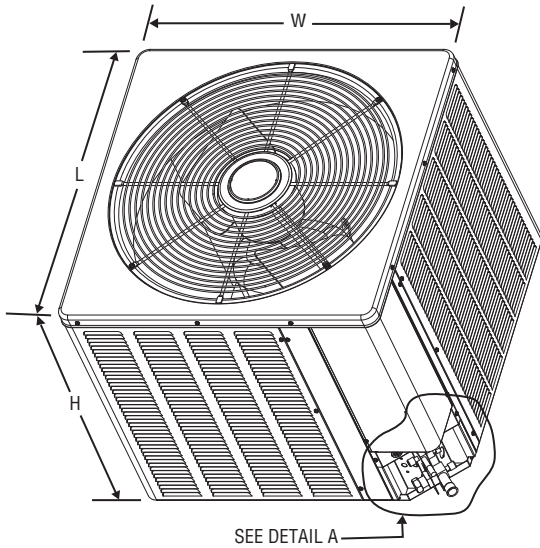
Available Models
WP1418BJ1NA
WP1424FJ1NA
WP1430FJ1NA

Electrical and Physical Data

Model Number	ELECTRICAL DATA							PHYSICAL DATA					
	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]
18F	1-60-208-230	9/9	48	0.8	13/13	15/15	20/20	13.72 [1.27]	1	2590 [1222]	106 [3005]	154 [69.9]	164 [74.4]
24F	1-60-208-230	13.5/13.5	58.3	0.8	18/18	25/25	30/30	13.72 [1.27]	1	2590 [1222]	104 [2948]	155 [70.3]	165 [74.8]
30F	1-60-208-230	12.8/12.8	64	1.2	18/18	25/25	30/30	16.39 [1.52]	1	2595 [1225]	114 [3232]	169 [76.7]	181 [82.1]

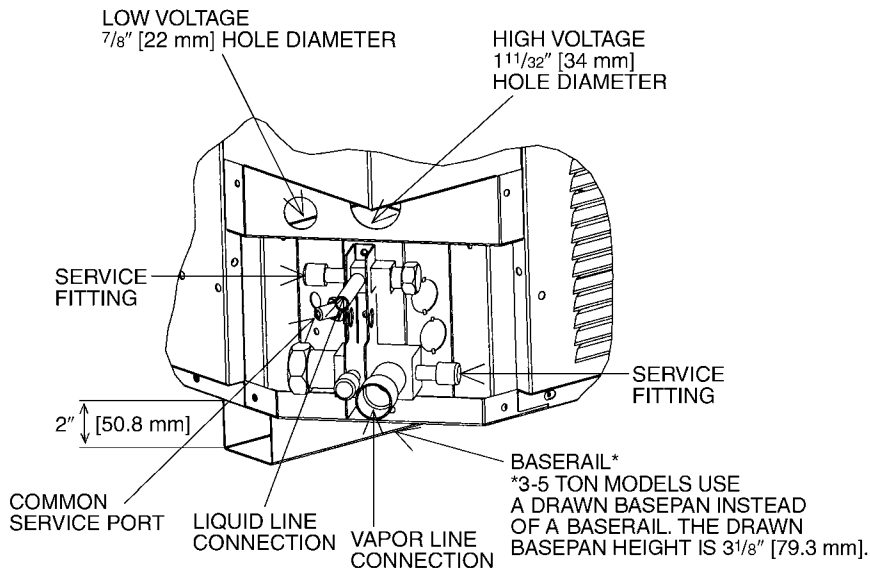
[] Designates Metric Conversions

Unit Dimensions



BASE PAD
(CONCRETE OR OTHER
SUITABLE MATERIAL)

ELEVATION ABOVE ANTICIPATED
SNOW IS NECESSARY



DETAIL A

Model	Operating							Shipping						
	Height		Length		Width		Weight	Height		Length		Width		Weight
	in.	mm	in.	mm	in.	mm	LBS	in.	mm	in.	mm	in.	mm	LBS
WP1418FJ1NA	26.25	666.75	27.625	701.675	27.625	701.675	164	26.25	666.75	27.625	701.675	27.625	701.675	164
WP1424FJ1NA	26.25	666.75	28.75	730.25	28.75	730.25	165	26.25	666.75	28.75	730.25	28.75	730.25	165
WP1430FJ1NA	32.75	831.85	36.38	924.052	36.38	924.052	167	32.75	831.85	36.38	924.052	36.38	924.052	167

Model	Standard Rating (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
18F	77	44.9	58.3	60.8	71.6	60.0	53.0	45.4
24F	76	47.5	58.2	64.4	68.3	64.5	57.3	53.1
30F	75	50.4	57.4	64.1	69.2	61.2	56.3	51.9

14 SEER Single-Stage Heat Pumps			Outdoor Unit ABOVE or BELOW Indoor Unit																	
Unit Size	Allowable Liquid Line Size	Allowable Vapor Line Size	Use Long Line Guidelines for Linear Line Lengths Greater Than Shown Below (Feet)		Equivalent Length (Feet)															
			WP14-A	WP14-F	<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 *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	NR	NR	NR	NR
	5/16"	5/8"	195	n/a	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	n/a	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	NR	NR	NR	NR
	5/16"	3/4**	195	n/a	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	n/a	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	100 / 0.98	100 / 0.98	100 / 0.98	100 / 0.98	100 / 0.98	100 / 0.98
	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	NR	NR	NR	NR
	5/16"	5/8"	195	140	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						
2 Ton	3/8"	5/8"	130	93	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	NR	NR	NR	NR
	5/16"	3/4"	195	140	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	93	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						
	5/16"	5/8"	150	103	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	NR	NR	NR	NR
	3/8"	5/8"	100	68	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	NR	NR	NR	NR
	5/16"	3/4"	150	103	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	68	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						

NOTES:

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

14 SEER Single-Stage Heat Pumps			Outdoor Unit ABOVE or BELOW Indoor Unit														
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)		Equivalent Length (Meters)												
			WP14-A	WP14-F	< 8	8-15	16-23	24-30	31-38	39-46	47-53	54-61	62-69	70-76			
5.3 KW [1.5 Ton] *SEE NOTE 3	6.35 [1/4]	15.88 [5/8]	n/a	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	n/a	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	n/a	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	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	NR
	7.94 [5/16]	19.05 [3/4]*	59	n/a	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	n/a	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 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98
7.0 KW [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	NR	
	7.94 [5/16]	15.88 [5/8]	59	43	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	28	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	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	43	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	28	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	27 / 0.96	
8.8 KW [2.5 Ton]	7.94 [5/16]	15.88 [5/8]	46	31	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	21	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	31	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	NR	
	9.53 [3/8]	19.05 [3/4]	30	21	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	

NOTES:

- Do not exceed 61 meters linear line length.
- Do not exceed 30 meters vertical separation between indoor and outdoor units.
- * 19.05 mm [3/4 in.] vapor 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)										
AHRI Cooling Performance					AHRI Heating Performance (70°F [21°C] Indoor)					
80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air										
Outdoor Unit	Air Mover	Total Capacity BTU/H	Net Sensible BTU/H	Net Latent BTU/H	SEER	EER	Indoor CFM [L/s]	Outdoor Air 47°F [8.5°C] DB/ 43°F [6°C] WB DOE High Temp.	Outdoor Air 17°F [-8.5°C] DB 15°F [6°C] WB DOE Low Temp.	DOE Region IV HSPF
WP1418F	RF1T2421MTAN	17100 [5.0]	13200 [3.9]	3900 [1.1]	14.00	11.50	575 [271.4]	17100 [5.0]	10300 [3.0]	2.30
WP1424F	RF1T2421MTAN	22800 [6.7]	17800 [5.2]	5000 [1.5]	14.00	11.50	850 [399.5]	22400 [6.6]	14100 [4.1]	2.40
WP1430F	RF1T3624MTAN	28600 [8.4]	23600 [6.9]	5000 [1.5]	14.00	11.50	1100 [517.0]	28200 [8.3]	16800 [4.9]	2.40

[] Designates Metric Conversions

GENERAL TERMS OF LIMITED WARRANTY*

WeatherKing 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.**

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.



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