

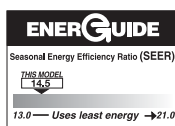
FUJITSU



FO*14R SERIES

Efficiencies: 14 SEER/11.5 EER 8.2 HSPF
 Nominal Sizes 1½ to 5 Ton [5.28 to 17.6 kW]
 Cooling Capacities 17.3 to 60.5 kBTU
 [5.7 to 17.7 kW]

Manufactured for
Fujitsu General America, Inc.
 Fairfield, NJ



HEAT PUMP

Features

- New composite base pan – dampens sound, captures louver panels, eliminates corrosion and reduces number of fasteners needed
- Improved tubing design – reduces vibration and stress, making unit quieter and reducing opportunity for leaks
- Optimized defrost characteristics - decrease defrosting and provide better home comfort
- Powder coat paint system – for a long lasting professional finish
- Optimized reversing valve sizing – improves shifting performance for quieter unit operation and increased life of the system
- Enhanced mufflers – help to dissipate vibration energy for quieter unit operation
- Scroll compressor – a sound abating feature added to the compressor significantly reduces noise when system transitions in and out of defrost mode
- Modern cabinet aesthetics – increased curb appeal with visually appealing design
- Covered louver panels – provide ultimate coil protection, enhance cabinet strength, and increased cabinet rigidity
- Optimized fan orifice – optimizes airflow and reduces unit sound
- Rust resistant screws – confirmed through 1500-hour salt spray testing
- 3"-4"-5" service valve space – provides a minimum working area of 27-square inches for easier access
- Integrated heat pump lift receptacle – allows standard CPVC stands to be inserted into the base
- 15" wide, industry leading corner service access – makes repairs easier and faster
- External gauge port access – allows easy connection of "low-loss" gauge ports
- Single-row condenser coil – makes unit lighter and allows thorough coil cleaning to maintain "out of the box" performance
- Fewer cabinet fasteners – allow for faster access to internal components and hassle-free panel removal
- Service trays – hold fasteners or caps during service calls
- QR code – provides technical information on demand for faster service calls
- Fan motor harness with extra-long wires – allows unit top to be removed without disconnecting fan wire

"Proper sizing and installation of equipment is critical to achieve optimal performance."

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Model Number Identification

<u>FO</u>	<u>18</u>	<u>14</u>	<u>R</u>	<u>S</u>	<u>J</u>	<u>N</u>	<u>A</u>
Product	Capacity	SEER	AC/HP	Speed	Voltage	Communication	Pressure
Heat Pump	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]	14 - 14 SEER	C - AC R - HP	S = Single	J = 1 ph, 208-230/60	N - Non-Communicating	A - W/O Switch

[] Designates Metric Conversions

A
 Revision
 A = 1st Major
 Revision
 B = 2nd Major
 Revision

Add Available SKUs

Available SKUs
FO1814RSJNAB
FO2414RSJNAA
FO3014RSJNAA
FO3614RSJNAA
FO4214RSJNAA
FO4814RSJNAA
FO6014RSJNAA
FO3614RSCNAA
FO4214RSCNAA
FO4814RSCNAA
FO6014RSCNAA

Physical Data							
Model No. #	F01814R	F02414R	F03014R	F03614R	F04214R	F04814R	F06014R
Nominal Tonnage	1.5	2.0	2.5	3.0	3.5	4.0	5.0
Valve Connections							
Liquid Line O.D. – in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Suction Line O.D. – in.	3/4	3/4	3/4	3/4	7/8	7/8	7/8
Refrigerant (R410A) furnished oz. ¹	97	89	106	111	155	143	232
Compressor Type	Scroll						
Outdoor Coil							
Net face area – Outer Coil	9.1	9.1	11.1	14.8	14.8	19.8	24.2
Net face area – Inner Coil	—	—	—	—	—	—	—
Tube diameter – in.	0.375	0.375	0.375	0.375	0.375	0.375	0.375
Number of rows	1	1	1	1	1	1	1
Fins per inch	20	20	20	20	20	20	20
Outdoor Fan							
Diameter – in.	20	20	20	24	24	24	26
Number of blades	2	2	3	3	2	3	3
Motor hp	1/8	1/8	1/8	1/6	1/5	1/5	1/5
CFM	2410	2410	2535	3335	2933	4055	4780
RPM	1077	1077	1077	825	825	825	850
watts	154	156	142	173	161	228	279
Shipping weight – lbs.	152	152	208	187	208	234	269
Operating weight – lbs.	145	145	201	187	201	227	262

Electrical Data							
Line Voltage Data (Volts-Phase-Hz)	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Maximum overcurrent protection (amps) ²	20	20	30	35	40	50	50
Minimum circuit ampacity ³	12	14	19	22	24	29	32
Compressor							
Rated load amps	9	10.3	14.1	16.7	17.9	21.8	23.7
Locked rotor amps	48	61.6	73	79	112	117	152.5
Condenser Fan Motor							
Full load amps	0.8	0.8	0.8	0.8	1	1.2	1.4
Locked rotor amps	1.5	1.5	1.5	1.5	1.8	2.2	2.8
Line Voltage Data (Volts-Phase-Hz)				208/230-3-60	208/230-3-60	208/230-3-60	208/230-3-60
Maximum overcurrent protection (amps) ²				20	30	30	35
Minimum circuit ampacity ³				14	18	19	22
Compressor							
Rated load amps				10.4	13.5	13.7	15.9
Locked rotor amps				73	88	83.1	110
Condenser Fan Motor							
Full load amps				0.8	1	1.2	1.4
Locked rotor amps				1.5	1.8	2.2	2.8
Line Voltage Data (Volts-Phase-Hz)				460-3-60	460-3-60	460-3-60	460-3-60
Maximum overcurrent protection (amps) ²				15	15	15	15
Minimum circuit ampacity ³				8	9	9	10
Compressor							
Rated load amps				5.8	6	6.2	7.1
Locked rotor amps				38	44	41	52
Condenser Fan Motor							
Full load amps				0.5	0.6	0.6	0.5
Locked rotor amps				1.1	1.3	1.5	1.4

¹Refrigerant charge sufficient for 15 ft. length of refrigerant lines. For longer line set requirements see the installation instructions for information about set length and additional refrigerant charge required.

²HACR type circuit breaker or fuse.

³Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.

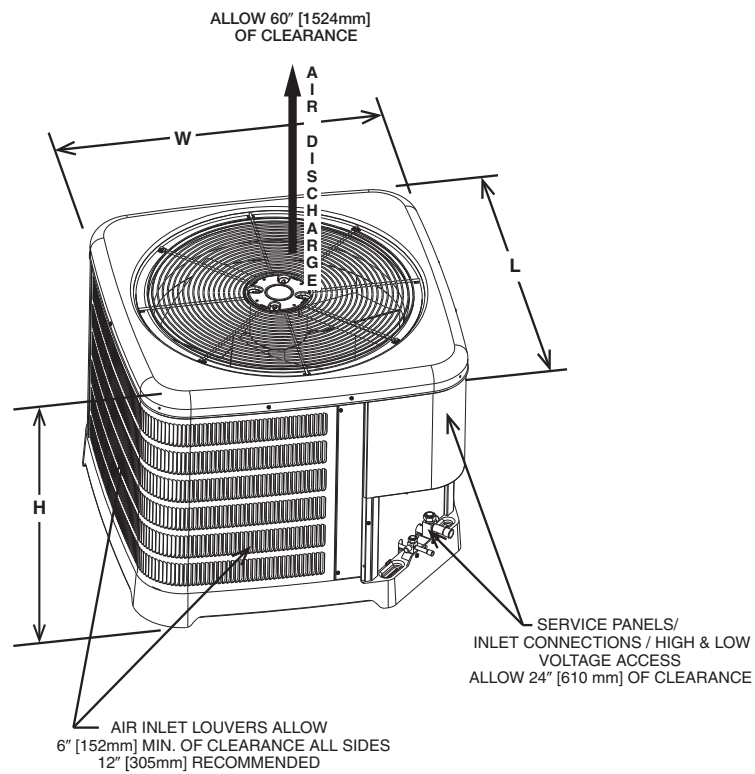
Accessories

Model No.		F01814	F02414	F03014	F03614	F04214	F04814	F06014
Compressor crankcase heater		44-17402-44	44-17402-44	44-17402-44	44-17402-44	44-17402-45	44-17402-45	Factory Standard
Low ambient control		RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08
Compressor sound cover		68-23427-26	68-23427-26	68-23427-26	68-23427-26	68-23427-25	68-23427-25	68-23427-25
Compressor hard start kit		SK-A1	SK-A1	SK-A1	SK-A1	SK-A1	SK-A1	SK-A1
Low pressure control*		Factory Standard	Factory Standard	Factory Standard	Factory Standard	Factory Standard	Factory Standard	Factory Standard
High pressure control*		Factory Standard	Factory Standard	Factory Standard	Factory Standard	Factory Standard	Factory Standard	Factory Standard
Liquid Line Solenoid (24 VAC, 50/60 Hz)	Solenoid Valve	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD3T3TVLC	200RD3T3TVLC
	Solenoid Coil	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V
	Bi-flow kit*	KS30387	KS30387	KS30387	KS30387	KS30387	KS30387	KS30387
Liquid Line Solenoid (120/240 VAC, 50/60 Hz)	Solenoid Valve	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD3T3TVLC	200RD3T3TVLC
	Solenoid Coil	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V
	Bi-flow kit*	KS30387	KS30387	KS30387	KS30387	KS30387	KS30387	KS30387
Classic Top Cap w/Label		91-101123-30	91-101123-30	91-101123-30	91-101123-30	91-101123-30	91-101123-30	91-101123-30
Heat Pump Riser		686020	686020	686020	686020	686020	686020	686020

*Bi-flow kits are required when installing a liquid line solenoid on a heat pump.

Unit Dimensions

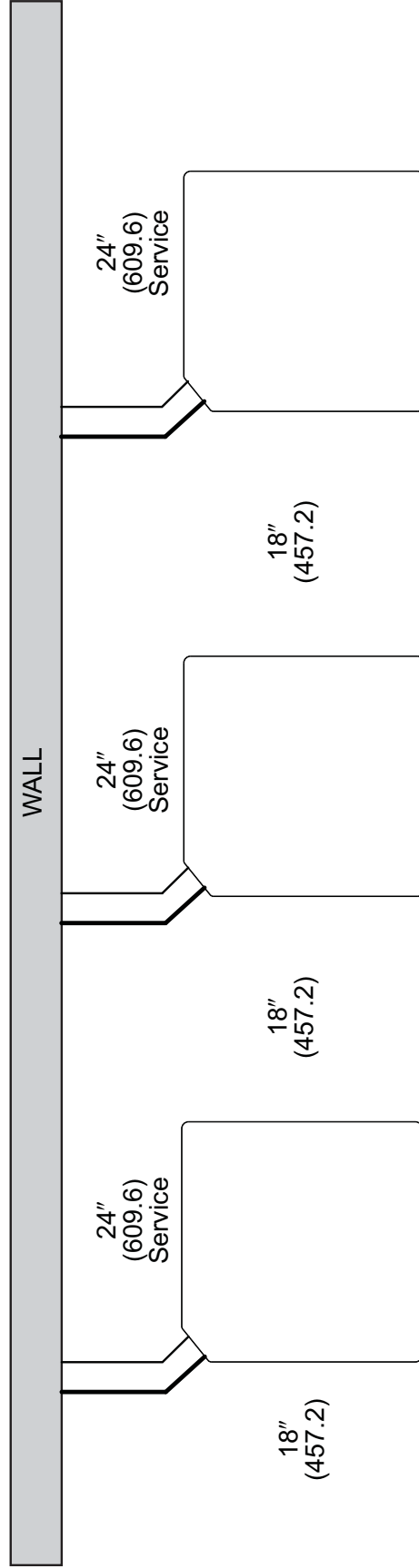
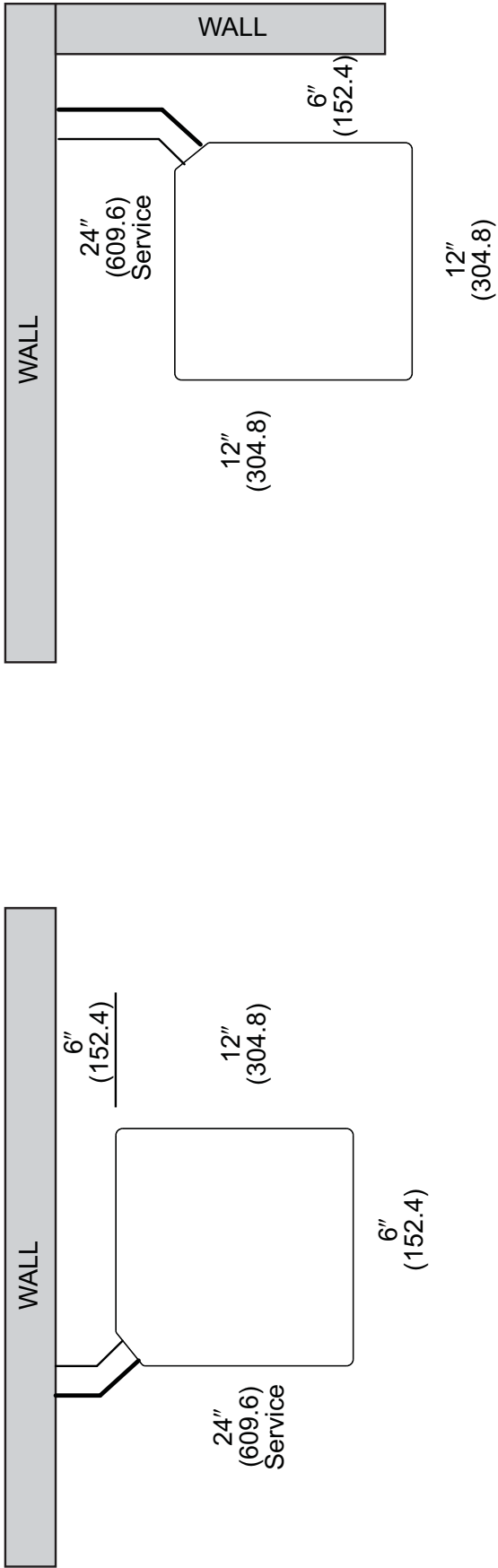
MODEL NUMBER	OPERATING						SHIPPING					
	H (Height)		L (Length)		W (Width)		H (Height)		L (Length)		W (Width)	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
FO1814R	26.25	666	23.63	600	23.63	600	27.90	708	33.25	844	33.00	838
FO2414R	26.25	666	23.63	600	23.63	600	27.90	708	33.25	844	33.00	838
FO3014R	26.25	666	27.63	701	27.63	701	27.90	708	33.25	844	33.00	838
FO3614R	27.00	685	33.75	857	33.75	857	30.08	764	37.64	956	37.56	954
FO3614R	27.38	695	31.63	803	31.63	803	30.08	764	37.64	956	37.56	954
FO4214R	27.00	685	33.75	857	33.75	857	30.08	764	37.64	956	37.56	954
FO4814R	35.00	889	33.75	857	33.75	857	38.35	974	37.64	956	37.56	954
FO6014R	39.00	990	35.75	908	35.75	908	42.00	1066	39.37	999	39.64	1006



ST-A1226-23-00

[] Designates Metric Conversions

CLEARANCES

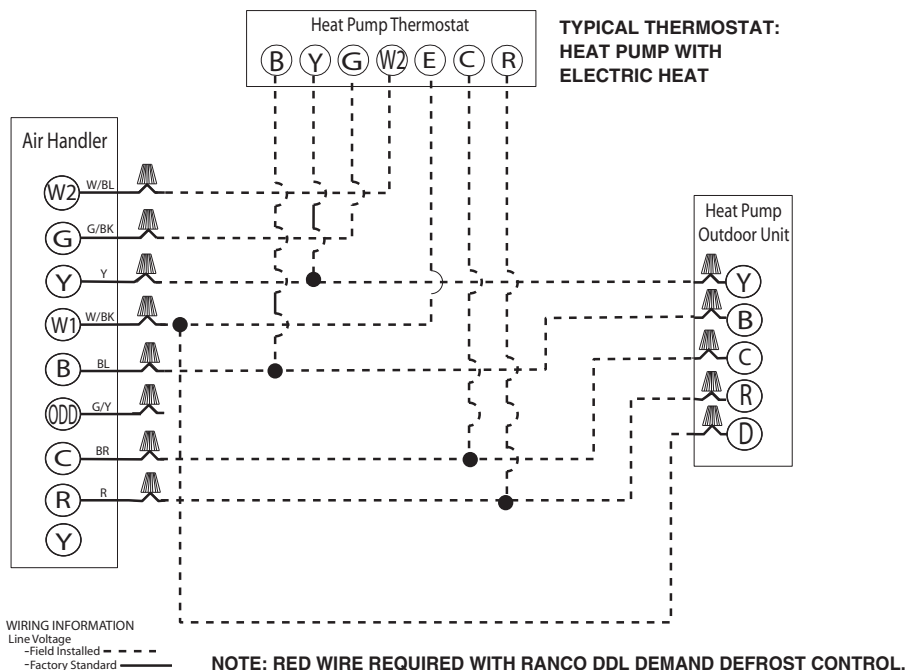


NOTE: NUMBERS IN () = mm

IMPORTANT: When installing multiple units in an alcove, roof well or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.

Control Wiring

FIGURE 4
CONTROL WIRING FOR AIR HANDLER



NOTES:

1. Jumper "E" to "W2" to transfer control of supplemental heat to 1st stage when the emergency heat switch is on.
2. This wire turns on heat for defrost, omit for most economical operation.
3. Wire with colored tracing stripe.

Application Guidelines

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01 -in. wc.
2. Minimum outdoor operation air temperature for cooling mode without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature is 125°F (51.7°C).
4. For reliable operation, unit should be level in all horizontal planes.
5. For interconnecting refrigerant tube lengths greater than 150 ft. (45.72m) and/or 120 ft. (36.58m) vertical separation, consult Residential Piping and Long line guide.
6. If any refrigerant tubing is buried, provide a 8 in. (203.2mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 8 ft. (2.44m) may be buried without further consideration. Do not bury refrigerant lines longer than * in (* mm)
7. Use only copper wire for electric connections at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
8. Do not apply capillary tube indoor coils to these units.
9. Factory-supplied filter drier must be installed.

Heat Pump Refrigerant Line Size Information

R-410A System Capacity Model	Liquid Line Size Connection Size (Inch I.D.) (mm)	Liquid Line Size (Inch O.D.) (mm)	Liquid Line Selection Chart																					
			Elevation (Above or Below) Indoor Coil																					
			Total Equivalent Length - Feet [m]																					
			Maximum Vertical Separation - Feet [m]																					
			25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [45.72]	150 [45.72]	175 [53.34]	200 [60.96]	225 [68.58]	250 [76.20]	275 [83.82]	300 [91.44]										
18	3/8" [9.53]	1/4 [6.35]	25 [7.62]	50 [15.24]	60 [18.29]	50 [15.24]	35 [10.67]	20 [6.1]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R							
		5/16 [7.94]	25 [7.62]	50 [15.24]	75 [22.86]	90 [27.43]	85 [25.91]	80 [24.38]	75 [22.86]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]						
		3/8 [9.53]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	100 [30.48]	95 [28.96]	90 [27.43]	85 [25.91]	80 [24.38]	75 [22.86]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]					
		7/16 [11.12]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	105 [32]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]				
		1/2 [12.71]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	105 [32]	105 [32]	105 [32]	105 [32]	105 [32]	105 [32]	105 [32]	105 [32]	105 [32]	105 [32]	105 [32]	105 [32]	105 [32]	105 [32]				
		1/4 [6.35]	25 [7.62]	50 [15.24]	30 [9.14]	10 [3.05]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R				
24	3/8" [9.53]	5/16 [7.94]	25 [7.62]	50 [15.24]	75 [22.86]	80 [24.38]	75 [22.86]	70 [21.34]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]	15 [4.57]	10 [3.05]					
		3/8 [9.53]	25 [7.62]	50 [15.24]	75 [22.86]	95 [28.96]	95 [28.96]	95 [28.96]	90 [27.43]	85 [25.91]	80 [24.38]	75 [22.86]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]					
		7/16 [11.12]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]				
		1/2 [12.71]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]				
		1/4 [6.35]	25 [7.62]	30 [9.14]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R				
		5/16 [7.94]	25 [7.62]	50 [15.24]	75 [22.86]	80 [24.38]	75 [22.86]	70 [21.34]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]	15 [4.57]	10 [3.05]	5 [1.52]				
30	3/8" [9.53]	3/8 [9.53]	25 [7.62]	50 [15.24]	75 [22.86]	90 [27.43]	85 [25.91]	80 [24.38]	75 [22.86]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]					
		7/16 [11.12]	25 [7.62]	50 [15.24]	75 [22.86]	95 [28.96]	95 [28.96]	90 [27.43]	85 [25.91]	80 [24.38]	75 [22.86]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]					
		1/2 [12.71]	25 [7.62]	50 [15.24]	75 [22.86]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]				
		1/4 [6.35]	25 [7.62]	30 [9.14]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R				
		5/16 [7.94]	25 [7.62]	50 [15.24]	75 [22.86]	80 [24.38]	75 [22.86]	70 [21.34]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]	15 [4.57]	10 [3.05]	5 [1.52]				
		3/8 [9.53]	25 [7.62]	50 [15.24]	75 [22.86]	90 [27.43]	85 [25.91]	80 [24.38]	75 [22.86]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]				
36	3/8" [9.53]	7/16 [11.12]	25 [7.62]	50 [15.24]	75 [22.86]	95 [28.96]	85 [25.91]	80 [24.38]	75 [22.86]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]					
		1/2 [12.71]	25 [7.62]	50 [15.24]	75 [22.86]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]					
		1/4 [6.35]	25 [7.62]	30 [9.14]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R				
		5/16 [7.94]	25 [7.62]	50 [15.24]	75 [22.86]	80 [24.38]	75 [22.86]	70 [21.34]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]	15 [4.57]	10 [3.05]	5 [1.52]				
		3/8 [9.53]	25 [7.62]	50 [15.24]	75 [22.86]	90 [27.43]	85 [25.91]	80 [24.38]	75 [22.86]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]				
		7/16 [11.12]	25 [7.62]	50 [15.24]	75 [22.86]	95 [28.96]	85 [25.91]	80 [24.38]	75 [22.86]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]				
42	3/8" [9.53]	1/2 [12.71]	25 [7.62]	50 [15.24]	75 [22.86]	90 [27.43]	85 [25.91]	80 [24.38]	75 [22.86]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]					
		1/4 [6.35]	5 [1.52]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R					
		5/16 [7.94]	25 [7.62]	40 [12.19]	25 [7.62]	5 [1.52]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R					
		3/8 [9.53]	25 [7.62]	50 [15.24]	60 [18.29]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]	15 [4.57]	10 [3.05]	5 [1.52]	N/R	N/R	N/R						
		7/16 [11.12]	25 [7.62]	50 [15.24]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]	15 [4.57]	10 [3.05]	5 [1.52]	N/R					
		1/2 [12.71]	25 [7.62]	50 [15.24]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]				
48	3/8" [9.53]	1/4 [6.35]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R					
		5/16 [7.94]	25 [7.62]	35 [10.67]	10 [3.05]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R					
		3/8 [9.53]	25 [7.62]	50 [15.24]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]	15 [4.57]	10 [3.05]	5 [1.52]	N/R	N/R	N/R						
		7/16 [11.12]	25 [7.62]	50 [15.24]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]	15 [4.57]	10 [3.05]	5 [1.52]	N/R					
		1/2 [12.71]	25 [7.62]	50 [15.24]	75 [22.86]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]				
		1/4 [6.35]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R				
60	3/8" [9.53]	5/16 [7.94]	25 [7.62]	10 [3.05]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R					
		3/8 [9.53]	25 [7.62]	50 [15.24]	40 [12.19]	30 [9.14]	20 [6.1]	10 [3.05]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R					
		7/16 [11.12]	25 [7.62]	50 [15.24]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]	15 [4.57]	10 [3.05]	5 [1.52]	N/R					
		1/2 [12.71]	25 [7.62]	50 [15.24]	75 [22.86]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]				
		1/4 [6.35]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R				
		5/16 [7.94]	25 [7.62]	10 [3.05]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R				

NOTES: N/R = Application not recommended. Grey = This application is acceptable, but the long line guidelines must be followed. Reference Long Line Set section in the I&O [] Designates Metric Conversions

Heat Pump Refrigerant Line Size Information (con't.)

R-410A System Capacity Model	Vapor Line Connection Size (Inch I.D.) [mm]	Vapor Line Size (Inch O.D.) [mm]	Vapor Line Selection Chart Capacity Multiplier Table																			
			Total Equivalent Length - Feet [m]																			
			25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [45.72]	150 [45.72]	175 [53.34]	200 [60.96]	225 [68.58]	250 [76.20]	275 [83.82]	300 [91.44]								
18	3/4" [19.06]	5/8 [15.88]	1.00	1.00	1.00	0.99	0.99	0.98	0.98	0.98	0.97	0.96	0.96	0.98	0.98	0.97	0.97	0.97	0.97	0.97		
			3/4 [19.05]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
			7/8 [22.23]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
			1 [25.4]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
			1-1/8 [28.58]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
24	3/4" [19.06]	5/8 [15.88]	0.99	0.99	0.98	0.98	0.97	0.96	0.96	0.96	0.97	0.97	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.94		
			3/4 [19.05]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.99	
			7/8 [22.23]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.01	
			1 [25.4]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
			1-1/8 [28.58]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
30	3/4" [19.06]	5/8 [15.88]	0.99	0.98	0.97	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.94	0.93	0.93	0.93	0.93	0.91	0.91	0.9		
			3/4 [19.05]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.96	0.96	
			7/8 [22.23]	1.00	1.01	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.01	1.01	1.00	1.00	1.00	1.00	1.00	0.99
			1 [25.4]	1.00	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.00
			1-1/8 [28.58]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
36	3/4" [19.06]	5/8 [15.88]	0.99	0.97	0.95	0.93	0.92	0.92	0.92	0.92	0.92	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.87	0.86		
			3/4 [19.05]	1.00	0.99	0.98	0.98	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.95	0.94	0.94	
			7/8 [22.23]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	0.98	0.98
			1 [25.4]	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
			1-1/8 [28.58]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
42	7/8" [22.23]	5/8 [15.88]	0.98	0.97	0.95	0.94	0.92	0.92	0.92	0.92	0.91	0.91	0.89	0.88	0.88	0.87	0.87	0.86	0.85	N/R		
			3/4 [19.05]	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.97	0.97	0.96	0.96	0.95	0.95	0.95	0.94	N/R	N/R	
			7/8 [22.23]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	N/R	N/R
			1 [25.4]	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	N/R
			1-1/8 [28.58]	1.01	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.01	N/R
48	7/8" [22.23]	5/8 [15.88]	0.97	0.95	0.94	0.92	0.89	0.89	0.89	0.88	0.88	0.88	0.86	0.86	0.84	0.84	0.84	0.84	N/R	N/R		
			3/4 [19.05]	0.99	0.99	0.98	0.97	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.94	0.93	0.93	0.93	N/R	N/R	N/R	
			7/8 [22.23]	1.00	0.99	0.99	0.99	0.99	0.98	0.98	0.98	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.97	N/R	N/R	N/R
			1 [25.4]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	N/R	N/R
			1-1/8 [28.58]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
60	7/8" [22.23]	5/8 [15.88]	0.98	0.94	0.92	0.9	0.88	0.88	0.88	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	N/R	N/R		
			3/4 [19.05]	1.00	0.99	0.98	0.96	0.95	0.95	0.94	0.94	0.94	0.94	0.94	0.94	0.93	0.93	0.93	N/R	N/R	N/R	
			7/8 [22.23]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	N/R	N/R
			1 [25.4]	1.01	1.00	1.00	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	N/R
			1-1/8 [28.58]	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R

NOTES: [] Designates Metric Conversions
N/R = Application not recommended.
All calculations assume a 3/8" liquid line

Performance Data @ AHRI Standard Conditions – Heat Pump

High Sales Volume Tested Combination (HSVTC)												
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
F02414RSJ	FH2417TTS*SN	23800 [7.0]	17600 [5.2]	6200 [1.8]	14	11.5	825 [389.4]	22800 [6.7]	3.6	12600 [3.7]	2.34	8.2
F03014RSJ	FH3617TTS*SN	28800 [8.4]	22200 [6.5]	6600 [1.9]	14	11.5	1050 [495.5]	27400 [8.0]	3.5	16600 [4.9]	2.34	8.2
F03614RSC	FH3617TTS*SN	35200 [10.3]	26200 [7.7]	9000 [2.6]	14	11.5	1200 [566.3]	34800 [10.2]	3.66	23200 [6.8]	2.54	9
F03614RSD	FH3617TTS*SN	35200 [10.3]	26200 [7.7]	9000 [2.6]	14	11.5	1200 [566.3]	34800 [10.2]	3.66	23200 [6.8]	2.54	9
F03614RSJ	FH3617TTS*SN	35200 [10.3]	26200 [7.7]	9000 [2.6]	14	11.5	1200 [566.3]	34800 [10.2]	3.66	23200 [6.8]	2.54	9
F04214RSC	FH4821TTS*SN	42500 [12.5]	32400 [9.5]	10100 [3.0]	14	11.5	1400 [660.7]	39000 [11.4]	3.6	24800 [7.3]	2.5	9
F04214RSD	FH4821TTS*SN	42500 [12.5]	32400 [9.5]	10100 [3.0]	14	11.5	1400 [660.7]	39000 [11.4]	3.6	24800 [7.3]	2.5	9
F04814RSC	FH4821TTS*SN	48000 [14.1]	35700 [10.5]	12300 [3.6]	14	11.5	1525 [719.7]	46000 [13.5]	3.6	29800 [8.7]	2.6	9
F04814RSD	FH4821TTS*SN	48000 [14.1]	35700 [10.5]	12300 [3.6]	14	11.5	1525 [719.7]	46000 [13.5]	3.6	29800 [8.7]	2.6	9
F04814RSJ	FH4821TTS*SN	48000 [14.1]	35700 [10.5]	12300 [3.6]	14	11.5	1525 [719.7]	46000 [13.5]	3.6	29800 [8.7]	2.6	9
F06014RSC	FH6024TTS*SN	56500 [16.6]	40800 [12.0]	15700 [4.6]	14	11.5	1800 [849.5]	57000 [16.7]	3.8	35800 [10.5]	2.66	9
F06014RSD	FH6024TTS*SN	56500 [16.6]	40800 [12.0]	15700 [4.6]	14	11.5	1800 [849.5]	57000 [16.7]	3.8	35800 [10.5]	2.66	9
F06014RSJ	FH6024TTS*SN	56500 [16.6]	40800 [12.0]	15700 [4.6]	14	11.5	1800 [849.5]	57000 [16.7]	3.8	35800 [10.5]	2.66	9

Air Handler Ratings												
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
F04214RSC	FH4824TTS*SN	42500 [12.5]	33200 [9.7]	9300 [2.7]	14	11.5	1550 [731.5]	39500 [11.6]	3.54	25000 [7.3]	2.46	9
F04214RSD	FH4824TTS*SN	42500 [12.5]	33200 [9.7]	9300 [2.7]	14	11.5	1550 [731.5]	39500 [11.6]	3.54	25000 [7.3]	2.46	9
F04814RSC	FH4824TTS*SN	48000 [14.1]	35700 [10.5]	12300 [3.6]	14	11.5	1550 [731.5]	45500 [13.3]	3.66	29800 [8.7]	2.66	9
F04814RSD	FH4824TTS*SN	48000 [14.1]	35700 [10.5]	12300 [3.6]	14	11.5	1550 [731.5]	45500 [13.3]	3.66	29800 [8.7]	2.66	9
F04814RSJ	FH4824TTS*SN	48000 [14.1]	35700 [10.5]	12300 [3.6]	14	11.5	1550 [731.5]	45500 [13.3]	3.66	29800 [8.7]	2.66	9

[] Designates Metric Conversions

GUIDE SPECIFICATIONS

General

System Description

Outdoor-mounted, air-cooled, split-system heat pump unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, composite basepan, an air-cooled coil, propeller-type condenser fan, suction and liquid line service valve, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a coil unit.

Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 210.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ANSI/ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have c-UL-us approval.
- Unit cabinet will be capable of withstanding ASTM B117 1000-hr salt spray test.
- Air-cooled condenser coils will be leak tested at 150 psig and pressure tested at 550 psig.
- Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

- Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

Warranty (for inclusion by specifying engineer) — U.S. and Canada only.

Products

Equipment

Factory assembled, single piece, air-cooled heat pump unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge R-410A, and special features required prior to field start-up.

Unit Cabinet

- Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.
- All units constructed with louver coil protection and corner post. Louver can be removed by removing one fastener per louver panel.

AIR-COOLED, SPLIT-SYSTEM HEAT PUMP RP14**A

1-1/2 TO 5 NOMINAL TONS

Fans

- Condenser fan will be direct-drive propeller type, discharging air upward.
- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated bearings. Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.

Condenser Coil

- Condenser coil will be air cooled.
- Coil will be constructed of aluminum fins mechanically bonded to copper tubes.

Refrigeration Components

- Refrigeration circuit components will include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of R-410A refrigerant, and compressor oil.
- Unit will be equipped with filter drier for R-410A refrigerant for field installation.

Operating Characteristics

- The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F/°C. The power consumption at full load will not exceed _____ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F/°C wet bulb and _____ °F/°C dry bulb, and air entering the unit at _____ °F/°C.
- The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

- Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Nominal unit electrical characteristics will be _____ v, three phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.

Special Features

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.

GENERAL TERMS OF LIMITED WARRANTY*

Fujitsu General America, Inc. 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.

Conditional Parts
(Registration Required)Ten (10) 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, the right is reserved to make changes without notice."