

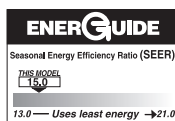
FUJITSU



FO*15R SERIES

Efficiencies up to 16 SEER/13 EER/9 HSPF
Nominal Sizes 1.5-5 Ton

Manufactured for
Fujitsu General America, Inc.
Fairfield, NJ



15 SEER HEAT PUMPS

Features

- New composite base pan – dampens sound, secures wire grille, 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 finish – 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
- Louver panels – provide ultimate coil protection, enhance cabinet strength and increase cabinet rigidity
- Optimized fan orifice – optimizes airflow and reduces unit sound
- Rust resistant screws – confirmed through 1500-hour salt spray testing
- Service valve has between – 3"-4"-5" 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

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Model Number Identification

<u>FO</u>	<u>36</u>	<u>15</u>	<u>R</u>	<u>S</u>	<u>J</u>	<u>N</u>	<u>A</u>	<u>A</u>
Product	Capacity	SEER	HP	Speed	Voltage	Communication	Minor Series	Major Series
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]	15 - 15 SEER	R - HP	S - Single	J - 1ph, 208-230/60 C - 3ph, 208-230/60	N - Non-Communicating	A = First Design Series	A = First Design Series B = Second Design Series C = Third Design Series

[] Designates Metric Conversions

Available SKUs

Models Available
FO1815RSJNAB
FO1815RSJNAC
FO2415RSJNAB
FO3015RSJNAB
FO3615RSCNAA
FO3615RSJNAA
FO4215RSCNAA
FO4215RSJNAA
FO4815RSCNAA
FO4815RSJNAA
FO6015RSCNAA
FO6015RSJNAA

Physical Data							
Model No. #	F01815R	F02415R	F03015R	F03615R	F04215R	F04815R	F06015R
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	99	105	116	118	139	188	212
Compressor Type	Scroll						
Outdoor Coil							
Net face area – Outer Coil ft ²	9.1	11.1	17.3	19.8	19.8	24.2	28.3
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	24	24	24	26	26
Number of blades	2	3	3	3	3	3	3
Motor hp	1/8	1/8	1/5	1/3	1/5	1/3	1/5
CFM	2411	2478	3850	3121	3815	4380	3655
RPM	1077	1075	825	910	825	870	850
watts	151	138	197	134	201	266	274
Shipping weight – lbs.	156	159	198	206	228	264	285
Operating weight – lbs.	149	152	191	199	221	257	278

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	25	25	35	40	40	50
Minimum circuit ampacity³	12	15	18	23	24	26	31
Compressor							
Rated load amps	9	10.9	12.8	15.4	17.9	18.5	23.7
Locked rotor amps	47.5	62.9	67.8	83.9	112	124	152.5
Condenser Fan Motor							
Full load amps	0.7	0.7	1	2.8	1	2.8	1
Locked rotor amps	1.3	1.3	1.2	—	1.2	—	2.3
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				25	30	30	35
Minimum circuit ampacity ³				16	18	21	21
Compressor							
Rated load amps				10.4	13.5	13.8	15.9
Locked rotor amps				73	88	83.1	110
Condenser Fan Motor							
Full load amps				2.8	1	2.8	1
Locked rotor amps				—	1.2	—	2.3

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.		F01815R	F02415R	F03015R	F03615R	F04215R	F04815R	F06015R
Compressor crankcase heater		44-17402-44	44-17402-44	44-17402-44	44-17402-44	44-17402-45	Factory Standard	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
Heat Pump Riser – 6 inch		686020	686020	686020	686020	686020	686020	686020

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

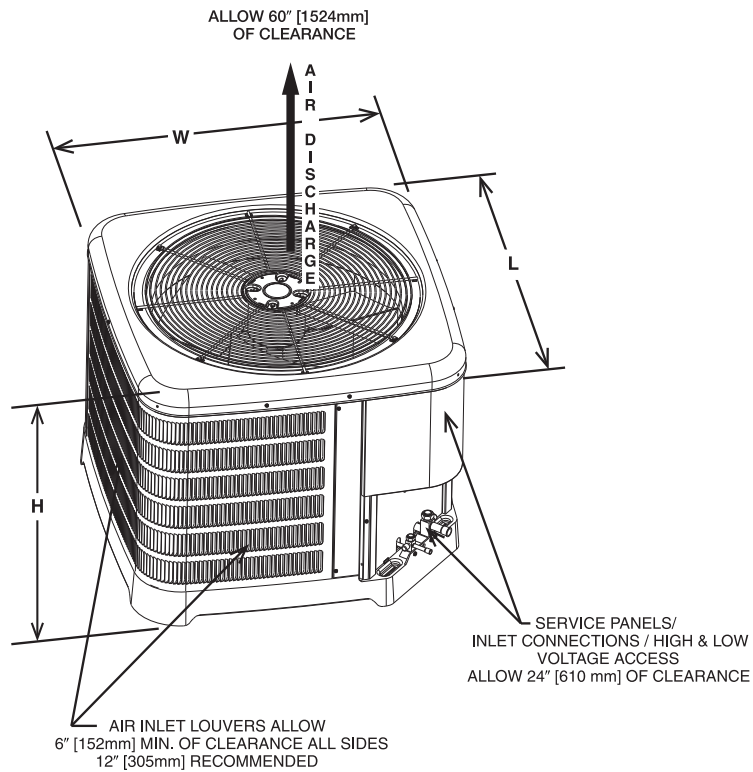
Weighted Sound Power Level (dBA)

Unit Size – Voltage, Series	Standard Rating (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
F01815R	76.4	53.7	61.8	66.2	66.8	62.9	58	52
F02415R	76.4	53.7	61.3	66.2	66.8	62.9	58	52
F03015R	75.3	53.2	55.4	64.3	65.6	63.1	59.2	57
F03615R	74.7	48.9	54.3	63.1	66.4	62.2	55.2	53.2
F04215R	74.1	52.9	55.9	64	63.5	61.4	58	52.1
F04815R	76.5	55.8	59	68.2	66.3	64.3	60.5	55.4
F06015R	73.9	58.9	55.7	63.4	63.3	61.5	58.6	56.4

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

Unit Dimensions

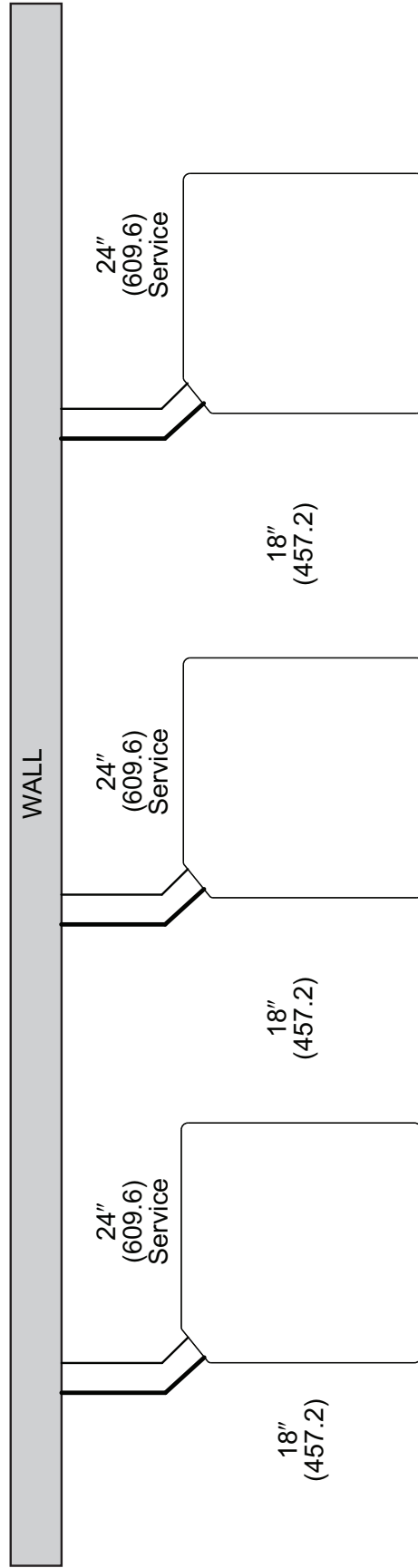
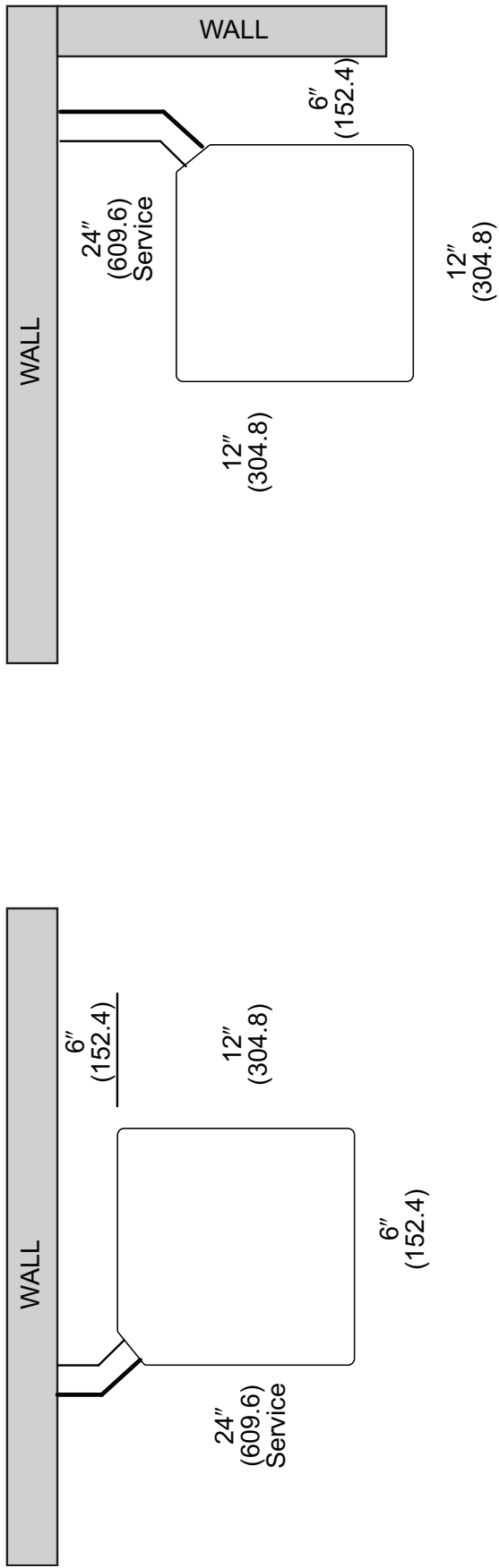
MODEL NUMBER	OPERATING						SHIPPING					
	H (Height)		L (Length)		W (Width)		H (Height)		L (Length)		W (Width)	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
FO1815R	25	635	29.75	755	29.75	755	27.90	708	33.25	844	33.00	838
FO2415R	25	635	29.75	755	29.75	755	27.90	708	33.25	844	33.00	838
FO3015R	31	787	33.75	857	33.75	857	33.32	846	37.64	956	37.56	954
FO3615R	35	889	33.75	857	33.75	857	38.35	974	37.64	956	37.56	954
FO4215R	35	889	33.75	857	33.75	857	38.35	974	37.64	956	37.56	954
FO4815R	39	990	35.75	908	35.75	908	42.00	1066	39.37	999	39.64	1006
FO6015R	45	1143	35.75	908	35.75	908	48.18	1223	39.37	999	39.64	1006



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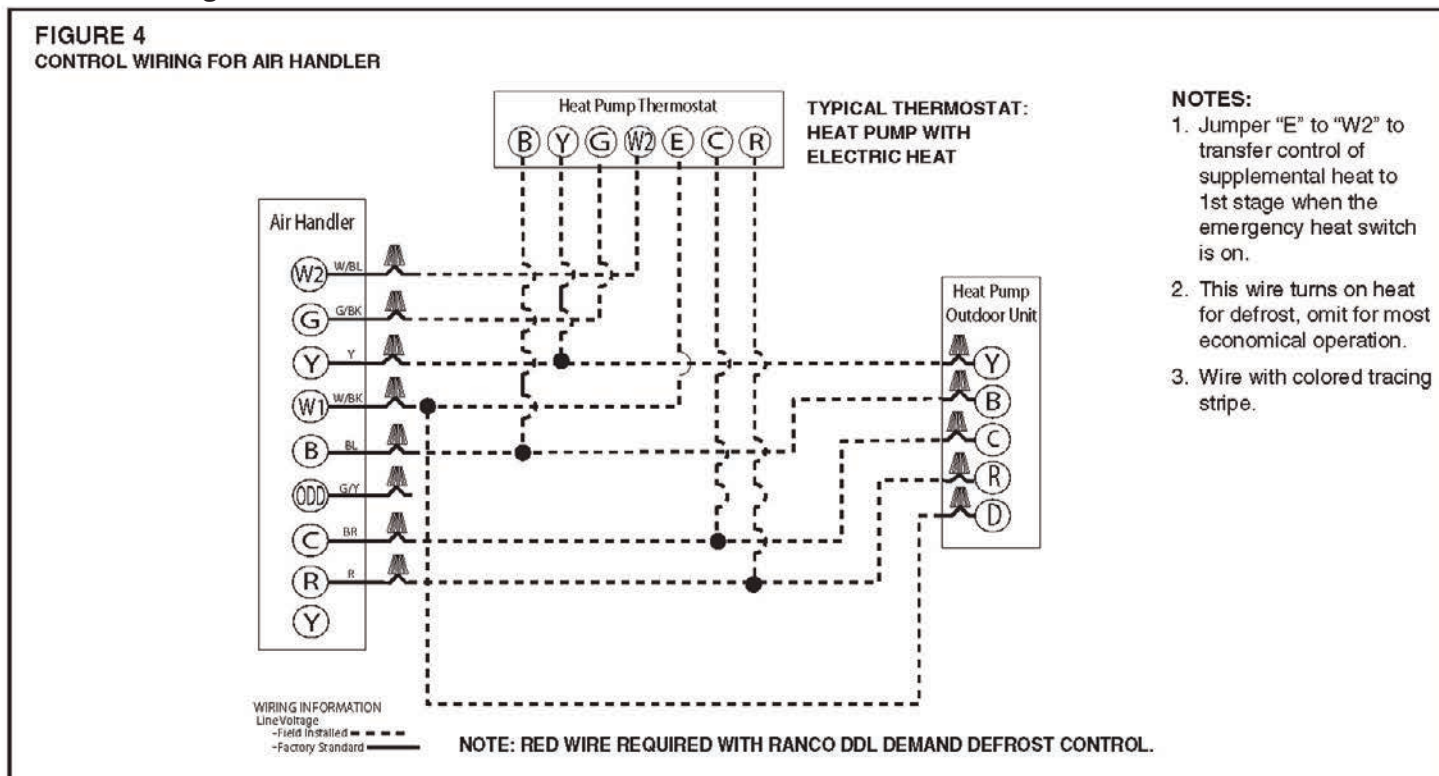
CLEARANCES



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



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

14 - 15 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																
			14 SEER A/B/C	15 SEER F/G	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 **SEE NOTE 3	1/4"	5/8"	117	117	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"	92	92	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	63/0.93	58/0.92	53/0.91	48/0.90	43/0.89	38/0.88	33/0.87
	3/8"	5/8"	66	66	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	100/0.93	100/0.92	100/0.91	100/0.90	100/0.89	100/0.88	100/0.87
	1/4"	3/4"***	117	117	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	NR
	5/16"	3/4"***	92	92	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	63/0.97	58/0.96	53/0.95	48/0.94	43/0.93	38/0.92	33/0.91
	3/8"	3/4"***	66	66	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	100/0.97	100/0.97	100/0.97	100/0.97	100/0.97	100/0.97
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	NR	NR	NR	NR	NR
	5/16"	5/8"	177	129	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	30/0.89	23/0.88	16/0.87	9/0.86	2/0.85	NR	NR
	3/8"	5/8"	123	91	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	87/0.89	84/0.88	81/0.87	78/0.86	75/0.85	72/0.84	69/0.83
	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	NR
	5/16"	3/4"	177	129	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	30/0.95	23/0.94	16/0.93	9/0.92	2/0.91	NR	NR
	3/8"	3/4"	123	91	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	87/0.95	84/0.94	81/0.93	78/0.92	75/0.91	72/0.90	69/0.89
2.5 Ton	5/16"	5/8"	134	104	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	NR
	3/8"	5/8"	94	74	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	NR
	5/16"	3/4"	134	104	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	NR	NR	NR	NR	NR	NR	NR
	3/8"	3/4"	94	74	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	74/0.94	70/0.93	66/0.92	62/0.91	58/0.90	54/0.89	50/0.88
	5/16"	5/8"	122	104	25/0.99	50/0.97	66/0.94	49/0.92	32/0.90	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	3/8"	5/8"	86	74	25/0.99	50/0.97	75/0.94	95/0.92	89/0.90	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
3 Ton	5/16"	3/4"	122	104	25/1.00	50/0.99	66/0.98	49/0.98	32/0.97	15/0.96	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	3/8"	3/4"	86	74	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	56/0.92	51/0.91	46/0.90	41/0.89	36/0.88	31/0.87	26/0.86
	1/2"	3/4"	51	45	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	100/0.92	100/0.91	100/0.90	100/0.89	100/0.88	100/0.87	100/0.86
	5/16"	7/8"	122	104	25/1.00	50/1.00	66/1.00	49/0.99	32/0.99	15/0.99	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	3/8"	7/8"	86	74	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	56/0.96	51/0.95	46/0.94	41/0.93	36/0.92	31/0.91	26/0.90
	1/2"	7/8"	51	45	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	100/0.97	100/0.96	100/0.96	100/0.95	100/0.95	100/0.94	100/0.94
3.5 Ton	3/8"	3/4"	67	103	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	NR	NR	NR	NR	NR	NR	NR
	1/2"	3/4"	33	59	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	NR	NR	NR	NR	NR	NR	NR
	3/8"	7/8"	67	103	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	35/0.95	28/0.94	21/0.93	14/0.92	7/0.91	NR	NR
	1/2"	7/8"	33	59	25/1.00	50/1.00	75/0.99	100/0.99	100/0.99	100/0.99	100/0.98	100/0.97	100/0.97	100/0.96	100/0.96	100/0.95	100/0.95	100/0.94	100/0.94	100/0.93	100/0.93
	3/8"	3/4"	67	103	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	NR	NR	NR	NR	NR	NR	NR
	1/2"	7/8"	33	59	25/1.00	50/1.00	75/0.99	100/0.99	100/0.99	100/0.99	100/0.98	100/0.97	100/0.97	100/0.96	100/0.96	100/0.95	100/0.95	100/0.94	100/0.94	100/0.93	100/0.93

NOTES:
 1. Do not exceed 200 ft linear line length.
 2. * Do not exceed 100 ft vertical separation if outdoor unit is above indoor unit.
 3. **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.
 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 pressure drop.

Heat Pump Refrigerant Line Size Information

14 - 15 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										
			14 SEER A/B/C	14 SEER F/G	Equivalent Length (Feet)										
					15 SEER	< 25	26-50	51-75	76-100	101-125	126-150	151-175	176-200	201-225	226-250
Maximum Vertical Separation / Capacity Multiplier															
4 Ton	3/8"	3/4"	97	0	0	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"	56	0	0	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"	97	0	0	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"	56	0	0	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	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	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	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	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	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	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.
- Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

Heat Pump Refrigerant Line Size Information

14 - 15 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															
			14 SEER A/B/C	15 SEER F/G	Equivalent Length (Meters)															
			Maximum Vertical Separation / Capacity Multiplier										8-15	16-23	24-30	31-38	39-46	47-53	54-61	62-69
5.3 KW [1.5 Ton] **SEE NOTE 3	6.35 [1/4]	15.88 [5/8]	36	36	8 / 1.00	15 / 0.99	19 / 0.98	13 / 0.98	7 / 0.97	2 / 0.97	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	7.94 [5/16]	15.88 [5/8]	28	28	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	20 / 0.94	30 / 0.94	30 / 0.94	30 / 0.94	30 / 0.94	30 / 0.94
	9.53 [3/8]	15.88 [5/8]	20	20	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	NR	NR	NR	NR	NR	NR
	6.35 [1/4]	19.05 [3/4]**	36	36	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	NR	NR	NR
	7.94 [5/16]	19.05 [3/4]**	28	28	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	20 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98
	9.53 [3/8]	19.05 [3/4]**	20	20	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 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99
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	NR	NR	NR	
	7.94 [5/16]	15.88 [5/8]	54	39	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	27 / 0.90	27 / 0.90	28 / 0.91	27 / 0.90	27 / 0.90	27 / 0.90
	9.53 [3/8]	15.88 [5/8]	37	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	NR	NR	NR	NR	NR	NR
	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	NR	NR	NR	NR
	7.94 [5/16]	19.05 [3/4]	54	39	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	27 / 0.96	27 / 0.96	28 / 0.97	27 / 0.96	27 / 0.96	27 / 0.96
	9.53 [3/8]	19.05 [3/4]	37	28	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	30 / 0.99	30 / 0.98	30 / 0.98	30 / 0.98	29 / 0.97	28 / 0.97	NR	NR	NR	NR	NR	NR
8.8 KW [2.5 Ton]	7.94 [5/16]	15.88 [5/8]	41	32	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	NR	NR	NR	
	9.53 [3/8]	15.88 [5/8]	29	23	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	NR	NR	NR	
	7.94 [5/16]	19.05 [3/4]	41	32	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	NR	NR	NR	
	9.53 [3/8]	19.05 [3/4]	29	23	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	NR	NR	NR	NR	NR	
	7.94 [5/16]	15.88 [5/8]	37	32	8 / 0.99	15 / 0.97	20 / 0.94	15 / 0.92	10 / 0.90	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	9.53 [3/8]	15.88 [5/8]	26	23	8 / 0.99	15 / 0.97	23 / 0.94	29 / 0.92	27 / 0.90	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
10.6 KW [3 Ton]	7.94 [5/16]	19.05 [3/4]	37	32	8 / 1.00	15 / 0.99	20 / 0.98	15 / 0.98	10 / 0.97	5 / 0.96	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	9.53 [3/8]	19.05 [3/4]	26	23	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	30 / 0.93	30 / 0.93	30 / 0.93	30 / 0.93	30 / 0.93	
	12.70 [1/2]	19.05 [3/4]	16	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	NR	NR	NR	NR	NR	
	7.94 [5/16]	22.23 [7/8]	37	32	8 / 1.00	15 / 1.00	20 / 1.00	15 / 0.99	10 / 0.99	5 / 0.99	NR	NR	NR	NR	NR	NR	NR	NR	NR	
	9.53 [3/8]	22.23 [7/8]	26	23	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	30 / 0.97	30 / 0.97	30 / 0.97	30 / 0.97	30 / 0.97	
	12.70 [1/2]	22.23 [7/8]	16	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 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.98	
12.3 KW [3.5 Ton]	9.53 [3/8]	19.05 [3/4]	20	31	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	NR	NR	NR	
	12.70 [1/2]	19.05 [3/4]	10	18	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	NR	NR	NR	
	9.53 [3/8]	22.23 [7/8]	20	31	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	30 / 0.96	30 / 0.96	30 / 0.96	30 / 0.96	30 / 0.96	
	12.70 [1/2]	22.23 [7/8]	10	18	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 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	
	9.53 [3/8]	19.05 [3/4]	20	31	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	NR	NR	NR	
	12.70 [1/2]	22.23 [7/8]	10	18	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	30 / 0.96	30 / 0.96	30 / 0.96	30 / 0.96	30 / 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 - 15 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										
			14 SEER A/B/C	14 SEER F/G	Equivalent Length (Meters)										
			15 SEER		< 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 [4 Ton]	9.53 [3/8]	19.05 [3/4]	30	0	8 / 0.99	15 / 0.98	23 / 0.96	24 / 0.95	20 / 0.93	17 / 0.92	14 / 0.91	NR	NR	NR	NR
	12.70 [1/2]	19.05 [3/4]	17	0	8 / 0.99	15 / 0.98	23 / 0.96	30 / 0.95	30 / 0.93	30 / 0.92	30 / 0.91	NR	NR	NR	NR
	9.53 [3/8]	22.23 [7/8]	30	0	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	30 / 0.95
17.6 KW [5 Ton]	12.70 [1/2]	22.23 [7/8]	17	0	8 / 1.00	15 / 0.99	23 / 0.99	30 / 0.98	30 / 0.97	30 / 0.97	30 / 0.96	30 / 0.95	30 / 0.95	30 / 0.95	30 / 0.95
	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	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	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	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	NR
	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	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	28 / 0.99	27 / 0.98	NR	NR

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
F02415RSJ	FH2417TTS*SN	24000 [7.0]	17900 [5.2]	6100 [1.8]	15.50	13.00	800 [377.6]	22000 [6.4]	3.70	13500 [4.0]	2.50	9.00
F03015RSJ	FH3617TTS*SN	29400 [8.6]	22500 [6.6]	6900 [2.0]	15.50	13.00	1025 [483.7]	27000 [7.9]	3.70	16600 [4.9]	2.40	9.00
F03615RSJ	FH3617TTS*SN	35600 [10.4]	26400 [7.7]	9200 [2.7]	15.00	12.50	1175 [554.5]	33800 [9.9]	3.66	22200 [6.5]	2.66	9.00
F04215RSC	FH4821TTS*SN	42500 [12.5]	30500 [8.9]	12000 [3.5]	15.00	12.50	1350 [637.1]	40000 [11.7]	3.76	25600 [7.5]	2.60	9.00
F04215RSJ	FH4821TTS*SN	42500 [12.5]	30500 [8.9]	12000 [3.5]	15.00	12.50	1350 [637.1]	40000 [11.7]	3.76	25600 [7.5]	2.60	9.00
F04815RSC	FH4821TTS*SN	47000 [13.8]	34100 [10.0]	12900 [3.8]	15.00	12.50	1500 [707.9]	44500 [13.0]	3.66	28800 [8.4]	2.60	9.00
F04815RSJ	FH4821TTS*SN	47000 [13.8]	34100 [10.0]	12900 [3.8]	15.00	12.50	1500 [707.9]	44500 [13.0]	3.66	28800 [8.4]	2.60	9.00
F06015RSC	FH6024TTS*SN	58000 [17.0]	42400 [12.4]	15600 [4.6]	15.00	12.50	1775 [837.7]	56000 [16.4]	3.76	35600 [10.4]	2.66	9.00
F06015RSJ	FH6024TTS*SN	58000 [17.0]	42400 [12.4]	15600 [4.6]	15.00	12.50	1775 [837.7]	56000 [16.4]	3.76	35600 [10.4]	2.66	9.00

Note: Additional ratings and system match ups and downloadable ratings certificates can be accessed from the AHRI website: www.ahridirectory.org

[] 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

FO*15R

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."