

# FUJITSU



## FO\*14C SERIES

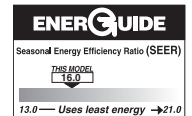
Efficiencies up to 16 SEER/13 EER  
Nominal Sizes 1½ to 5 Ton [5.28 to 17.6 kW]  
Cooling Capacities 17.3 to 60.5 kBTU  
[5.7 to 17.7 kW]

Manufactured for  
**Fujitsu General America, Inc.**  
Fairfield, NJ

## AIR CONDITIONERS

### Features

- New composite base pan – dampens sound, captures louver panels, eliminates corrosion and reduces number of fasteners needed
- Powder coat paint system – for a long lasting professional finish
- Scroll compressor – uses 70% fewer moving parts for higher efficiency and increased reliability
- Modern cabinet aesthetics – increased curb appeal with visually appealing design
- 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
- 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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## Air Conditioners\*

<u>FO</u>	<u>18</u>	<u>14</u>	<u>C</u>	<u>S</u>	<u>J</u>	<u>N</u>	<u>A</u>	<u>A</u>
Brand	Capacity	SEER	AC/HP	Speed	Volt	Communication	Minor Series	Major Series
Fujitsu	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	S = Single	J = 208/230/60 1 ph C = 208/230/60 3 ph D = 460/60 3 ph	N = Non-communicating	A = First Design Series B = Second Design Series (LPC/HPC)	A = First Design Series B = Second Design Series C = Third Design Series

\*\*Model number ID's are for reference only. See available SKU page of applicable spec sheet for table of available SKU's for a specific model.

[ ] Designates Metric Conversions

## Available SKUs

Available Models
FO1814CSJNAA
FO1814CSJNBA
FO2414CSJNAA
FO2414CSJNAB
FO2414CSJNBB
FO3014CSJNAA
FO3014CSJNBA
FO3614CSCNBA
FO3614CSDNBA
FO3614CSJNAA
FO3614CSJNBA
FO3614CSDNBA
FO4214CSCNBC
FO4214CSJNAC
FO4214CSJNBC
FO4814CSCNBA
FO4814CSDNBA
FO4814CSJNAA
FO4814CSJNBA
FO6014CSCNBC
FO6014CSDNBC
FO6014CSJNAC
FO6014CSJNBC

<b>Physical Data</b>							
<b>PHYSICAL DATA</b>							
<b>Model No.</b>	<b>F01814</b>	<b>F02414</b>	<b>F03014</b>	<b>F03614</b>	<b>F04214</b>	<b>F04814</b>	<b>F06014</b>
<b>Nominal Tonnage</b>	1.5	2.0	2.5	3.0	3.5	4.0	5.0
<b>Valve Connections</b>							
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
<b>Refrigerant (R410A) furnished oz.<sup>1</sup></b>	68	80	87	106	134	129	199
<b>Compressor Type</b>	Scroll						
<b>Outdoor Coil</b>							
Net face area – Outer Coil	9.1	11.1	12.1	14.8	17.3	18.9	28.27
Net face area – Inner Coil	—	—	—	—	—	—	—
Tube diameter – in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Number of rows	1	1	1	1	1	1	1
Fins per inch	22	22	22	22	22	22	22
<b>Outdoor Fan</b>							
Diameter – in.	20	20	20	24	24	26	26
Number of blades	2	2	2	3	3	2	3
Motor hp	1/10	1/8	1/8	1/6	1/5	1/5	1/3
CFM	2225	2295	2605	3105	4105	4264	5000
RPM	1075	1121	1075	850	833	820	795
watts	130	138	142	173	236	236	239
<b>Shipping weight – lbs.</b>	143	148	158	178	207	232	268
<b>Operating weight – lbs.</b>	122	141	151	171	200	221	261
<b>Electrical Data</b>							
<b>Line Voltage Data (Volts-Phase-Hz)</b>	<b>208/230-1-60</b>	<b>208/230-1-60</b>	<b>208/230-1-60</b>	<b>208/230-1-60</b>	<b>208/230-1-60</b>	<b>208/230-1-60</b>	<b>208/230-1-60</b>
<b>Maximum overcurrent protection (amps)<sup>2</sup></b>	20	25	25	30	35	45	50
<b>Minimum circuit ampacity<sup>3</sup></b>	13	15	17	19	23	27	35
<b>Compressor</b>							
Rated load amps	9.7	10.9	12.8	14.1	16.7	19.9	27.1
Locked rotor amps	48	62.9	64	77	109	109	110
<b>Condenser Fan Motor</b>							
Full load amps	0.6	0.8	0.8	0.8	1.2	1.2	1
Locked rotor amps	1.1	1.5	1.4	1.5	2.0	2.3	1
<b>Line Voltage Data (Volts-Phase-Hz)</b>	—	—	—	<b>208/230-3-60</b>	<b>208/230-3-60</b>	<b>208/230-3-60</b>	<b>208/230-3-60</b>
Maximum overcurrent protection (amps) <sup>2</sup>	—	—	—	20	25	30	25
Minimum circuit ampacity <sup>3</sup>	—	—	—	13	16	18	24
<b>Compressor</b>							
Rated load amps	—	—	—	9	11.2	13.1	17.8
Locked rotor amps	—	—	—	71	84	83.1	110
<b>Condenser Fan Motor</b>							
Full load amps	—	—	—	0.8	1.2	1.2	1
Locked rotor amps	—	—	—	1.5	3.0	2.3	2.6
<b>Line Voltage Data (Volts-Phase-Hz)</b>	—	—	—	<b>480-3-60</b>	<b>480-3-60</b>	<b>480-3-60</b>	<b>480-3-60</b>
Maximum overcurrent protection (amps) <sup>2</sup>	—	—	—	15	—	15	15
<sup>3</sup> Minimum circuit ampacity	—	—	—	8	—	9	12
<b>Compressor</b>							
Rated load amps	—	—	—	5.6	—	6.1	8.6
Locked rotor amps	—	—	—	38	—	41	60
<b>Condenser Fan Motor</b>							
Full load amps	—	—	—	0.5	—	0.6	0.5
Locked rotor amps	—	—	—	1.1	—	1.6	1.4

<sup>1</sup>Refrigerant 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.

<sup>2</sup>HACR type circuit breaker of fuse.

<sup>3</sup>Refer 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	44-17402-45	
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	
Compressor time delay	RXMD-B01	RXMD-B01	RXMD-B01	RXMD-B01	RXMD-B01	RXMD-B01	RXMD-B01	
Low pressure control	RXAC-A07	RXAC-A07	RXAC-A07	RXAC-A07	RXAC-A07	RXAC-A07	RXAC-A07	
High pressure control	RXAB-A07	RXAB-A07	RXAB-A07	RXAB-A07	RXAB-A07	RXAB-A07	RXAB-A07	
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
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
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	

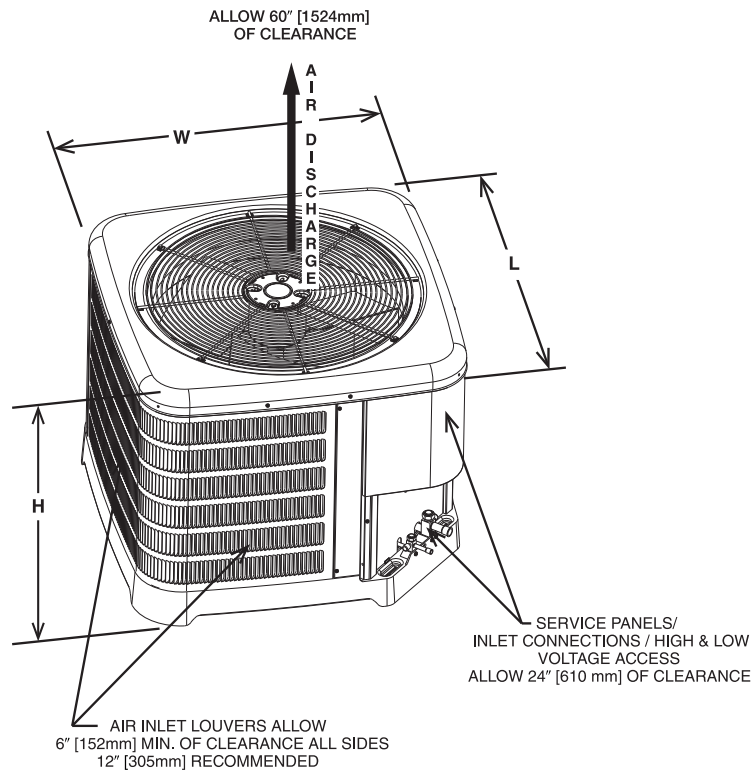
\*Crankcase Heater recommended with Low Ambient Kit.

## Weighted Sound Power Level (dBA)

A-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
F01814	76.0	51.4	59.6	65.2	65.9	64.3	58.5	53.7
F02414	75.0	50.0	59.5	63.2	64.4	61.4	56.8	52.6
F03014	74.0	48.8	57.5	63.5	64	61.9	56.1	51
F03614	76.0	52.2	61.3	65.4	65.3	62.4	57.3	53.1
F04214	73.0	51.5	54.7	63.5	63.3	59.4	54.9	48.4
F04814	76.0	52.3	59.1	66.7	65.7	62.4	59.3	55.9
F06014	74.8	62.4	58.7	64.5	64.9	60.7	55.3	50.2

## Unit Dimensions

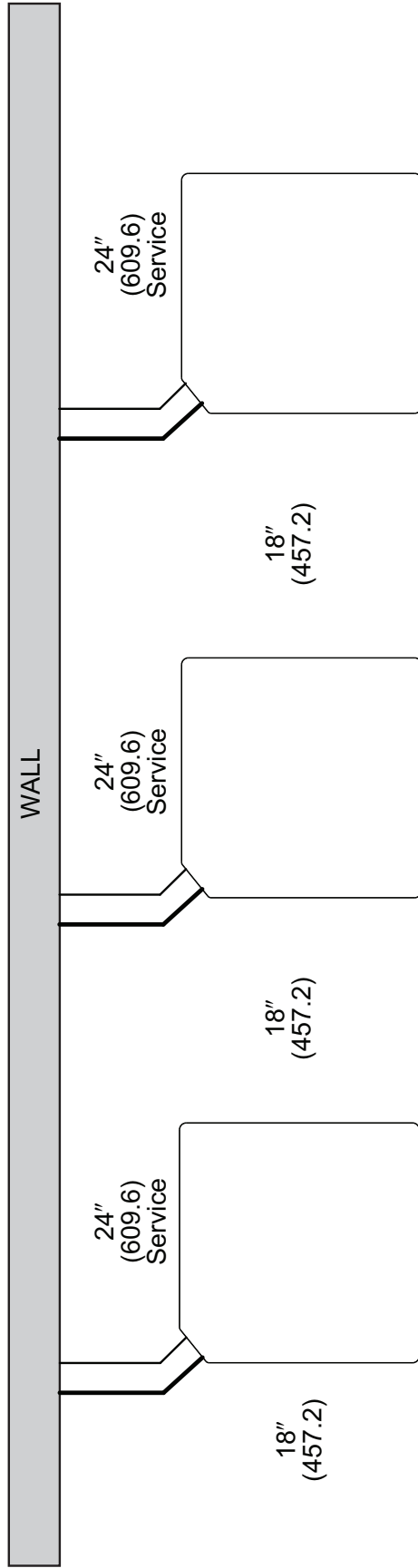
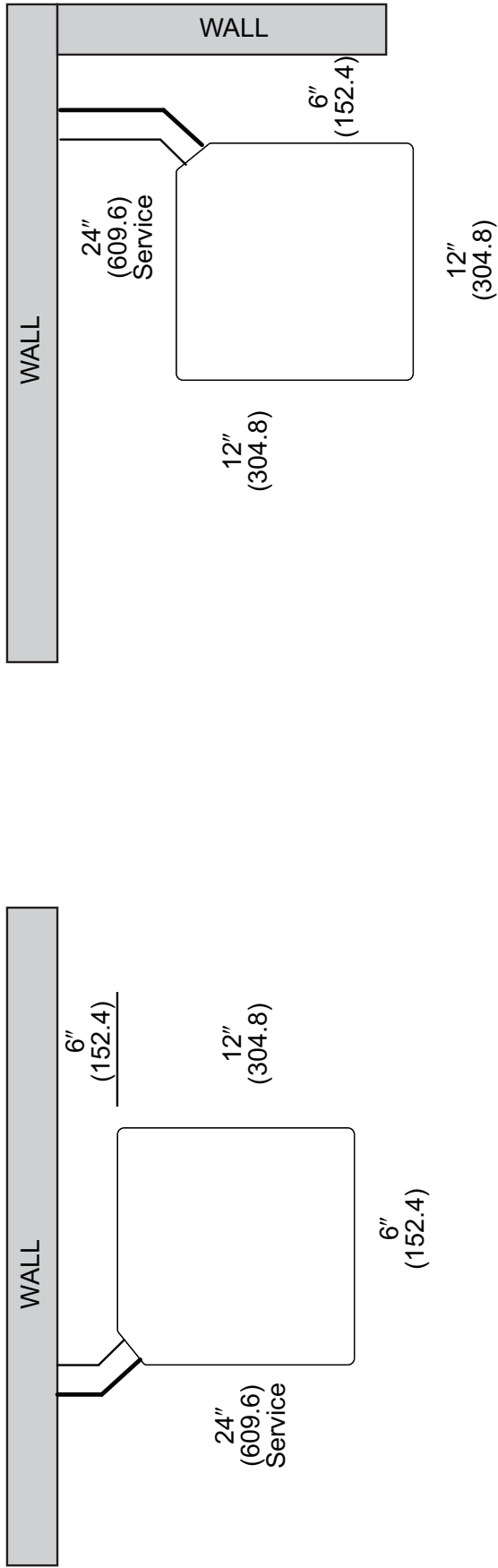
MODEL NO.	OPERATING						SHIPPING					
	H (Height)		L (Length)		W (Width)		H (Height)		L (Length)		W (Width)	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
F01814C	25	635	29.75	755	29.75	755	26.75	679	32.38	822	32.38	822
F02414C	25	635	29.75	755	29.75	755	26.75	679	32.38	822	32.38	822
F03014C	27	685	29.75	755	29.75	755	28.75	730	32.38	822	32.38	822
F03614C	27	685	33.75	857	33.75	857	28.75	730	36.38	924	36.38	924
F04214C	35	889	33.75	857	33.75	857	36.75	933	36.38	924	36.38	924
F04814C	31	787	35.75	908	35.75	908	32.75	832	38.38	975	38.38	975
F016014C	45	1143	35.75	908	35.75	908	45.38	1153	38.25	972	38.25	972



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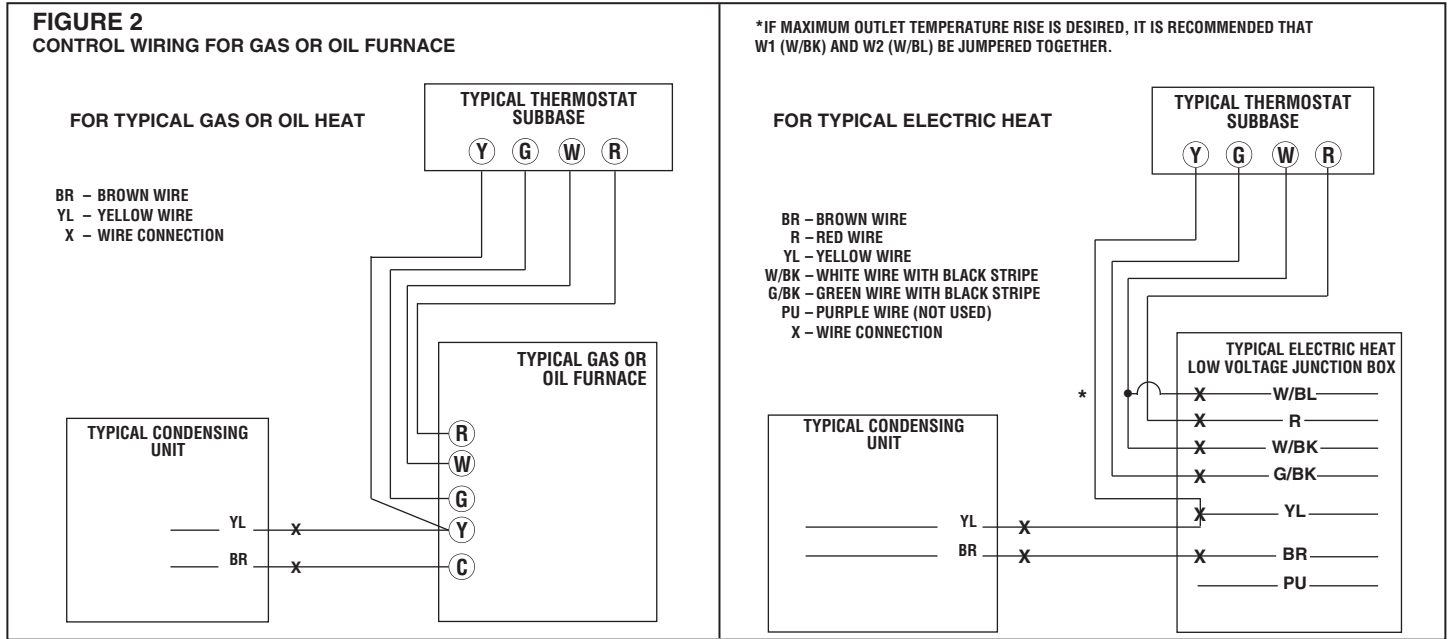
# CLEARANCES



**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.



# Refrigerant Line Size Information

13 - 16 SEER Single-Stage Air-Conditioners															
Unit Size	Allowable Liquid Line Size	Allowable Suction Line Size	Equivalent Length (Feet)												
			Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier												
			< 25	26-50	51-75	76-100	101-125	126-150	151-175	176-200	201-225	226-250			
Apply Long Line Guidelines if Linear Line Length Exceeds Those Shown Below (Feet)															
FO*13C			FO*14C			FO*14C*W			FO*16C						
1.5 Ton **SEE NOTE 3	1/4"	5/8"	N/R	N/R	N/R	25/1.00	50/0.99	62/0.98	43/0.98	24/0.97	5/0.97	N/R	N/R	N/R	N/R
	5/16"	5/8"	N/R	198	188	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"	178	148	132	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/R	N/R	N/R	25/1.00	50/1.00	62/0.99	43/0.99	24/0.99	5/0.99	N/R	N/R	N/R	N/R
	5/16"	3/4***	N/R	223	198	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***	178	148	132	25/1.00	50/1.00	75/1.00	100/0.99	100/0.99	100/0.99	100/0.99	100/0.98	100/0.98	100/0.98
2 Ton	1/4"	5/8"	N/R	N/R	N/R	25/0.99	50/0.98	21/0.97	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	5/16"	5/8"	243	193	175	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"	162	128	117	25/0.99	50/0.98	75/0.97	100/0.96	100/0.95	100/0.94	98/0.93	95/0.92	92/0.91	89/0.90
	1/4"	3/4"	N/R	N/R	N/R	25/1.00	50/1.00	21/0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	5/16"	3/4"	243	193	175	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"	162	128	117	25/1.00	50/1.00	75/0.99	100/0.99	100/0.98	100/0.98	98/0.98	95/0.97	93/0.97	90/0.96
2.5 Ton	5/16"	5/8"	N/R	N/R	110	25/0.99	50/0.98	75/0.96	70/0.94	59/0.93	48/0.91	36/0.90	N/R	N/R	N/R
	3/8"	5/8"	142	117	73	25/0.99	50/0.98	75/0.96	100/0.94	98/0.93	94/0.91	90/0.90	N/R	N/R	
	5/16"	3/4"	213	175	110	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	
	3/8"	3/4"	142	117	73	25/1.00	50/0.99	75/0.99	100/0.98	98/0.98	94/0.97	90/0.96	86/0.96	82/0.95	78/0.95
	5/16"	5/8"	N/R	N/R	N/R	25/0.99	50/0.97	66/0.94	49/0.92	32/0.90	N/R	N/R	N/R	N/R	N/R
	3/8"	5/8"	108	85	90	25/0.99	50/0.97	75/0.94	95/0.92	89/0.90	N/R	N/R	N/R	N/R	N/R
3 Ton	5/16"	3/4"	N/R	128	135	25/1.00	50/0.99	66/0.98	49/0.98	32/0.97	15/0.96	N/R	N/R	N/R	N/R
	3/8"	3/4"	108	85	90	25/1.00	50/0.99	75/0.98	95/0.98	89/0.97	84/0.96	78/0.95	72/0.94	67/0.93	61/0.93
	1/2"	3/4"	54	43	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
	5/16"	7/8"	N/R	128	135	25/1.00	50/1.00	66/1.00	49/0.99	32/0.99	15/0.99	N/R	N/R	N/R	N/R
	3/8"	7/8"	108	85	90	25/1.00	50/1.00	75/1.00	95/0.99	89/0.99	84/0.99	78/0.98	72/0.98	67/0.98	61/0.97
	1/2"	7/8"	54	43	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
3.5 Ton	3/8"	3/4"	150	102	75	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	N/R
	1/2"	3/4"	75	51	38	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	N/R
	3/8"	7/8"	150	102	75	25/1.00	50/1.00	75/0.99	88/0.99	80/0.99	72/0.98	65/0.97	57/0.97	49/0.96	42/0.96
	1/2"	7/8"	75	51	38	25/1.00	50/1.00	75/0.99	100/0.99	100/0.99	100/0.99	100/0.97	100/0.97	100/0.96	100/0.96

**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.

**NOTE:** Values based on 105°F liquid temperature and 45°F evaporator temperature in cooling mode depending on size

# Refrigerant Line Size Information (con't.)

13 - 16 SEER Single-Stage Air-Conditioners															
Unit Size	Allowable Liquid Line Suction Line Size	Allowable Suction Line Size	Apply Long Line Guidelines if Linear Line Length Exceeds Those Shown Below (Feet)		Equivalent Length (Feet)										
			FO*13C	FO*14C	FO*14C*W	FO*16C	Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier								
			< 25	26-50	51-75	76-100	101-125	126-150	151-175	176-200	201-225	226-250			
4 Ton	3/8"	3/4"	148	110	N/R	35	25/0.99	50/0.98	75/0.96	77/0.95	67/0.93	57/0.92	46/0.91	N/R	N/R
	1/2"	3/4"	74	55	N/R	18	25/0.99	50/0.98	75/0.96	100/0.95	100/0.93	100/0.92	100/0.91	N/R	N/R
	3/8"	7/8"	148	110	N/R	35	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
	1/2"	7/8"	74	55	N/R	18	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
	3/8"	3/4"	78	0	N/R	0	25/0.99	50/0.97	75/0.94	61/0.92	46/0.90	N/R	N/R	N/R	N/R
	1/2"	3/4"	39	0	N/R	0	25/0.99	50/0.97	75/0.94	100/0.92	100/0.90	N/R	N/R	N/R	N/R
5 Ton	3/8"	7/8"	78	0	N/R	0	25/1.00	50/0.99	75/0.98	61/0.97	46/0.96	32/0.95	18/0.94	N/R	N/R
	1/2"	7/8"	39	0	N/R	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	89/0.92
	3/8"	1-1/8"	78	0	N/R	0	25/1.01	50/1.01	75/1.00	61/1.00	46/0.99	32/0.99	18/0.99	N/R	N/R
	1/2"	1-1/8"	39	0	N/R	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	89/0.98
	3/8"	3/4"	78	0	N/R	0	25/0.99	50/0.97	75/0.94	61/0.92	46/0.90	N/R	N/R	N/R	N/R
	1/2"	3/4"	39	0	N/R	0	25/0.99	50/0.97	75/0.94	100/0.92	100/0.90	N/R	N/R	N/R	N/R

**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.

**NOTE:** Values based on 105°F liquid temperature and 45°F evaporator temperature in cooling mode depending on size

# Refrigerant Line Size Information (con't.)

13 - 16 SEER Single-Stage Air-Conditioners																
Unit Size	Allowable Liquid Line Size mm [in.]	Allowable Suction Line Size mm [in.]	Apply Long Line Guidelines if Linear Line Length Exceeds Those Shown Below (Meters)			Equivalent Length (Meters)										
			FO*13C	FO*14C	FO*14C*W	FO*16C										
			FO*13C	FO*14C	FO*14C*W	Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier										
			< 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] <b>**SEE NOTE 3</b>	6.35 [1/4]	15.88 [5/8]	N/R	N/R	N/R	8 / 1.00	15 / 0.99	19 / 0.98	13 / 0.98	7 / 0.97	2 / 0.97	N/R	N/R	N/R	N/R	N/R
	7.94 [5/16]	15.88 [5/8]	N/R	60	57	8 / 1.00	15 / 0.99	23 / 0.98	30 / 0.98	28 / 0.97	27 / 0.97	25 / 0.96	24 / 0.96	22 / 0.95	21 / 0.94	21 / 0.94
	9.53 [3/8]	15.88 [5/8]	54	45	38	8 / 1.00	15 / 0.99	23 / 0.98	30 / 0.98	30 / 0.97	30 / 0.97	30 / 0.96	30 / 0.96	30 / 0.95	30 / 0.94	30 / 0.94
	6.35 [1/4]	19.05 [3/4]**	N/R	N/R	N/R	8 / 1.00	15 / 1.00	19 / 0.99	13 / 0.99	7 / 0.99	2 / 0.99	N/R	N/R	N/R	N/R	N/R
	7.94 [5/16]	19.05 [3/4]**	N/R	60	57	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	28 / 0.99	27 / 0.99	25 / 0.99	24 / 0.98	22 / 0.98	21 / 0.98	21 / 0.98
	9.53 [3/8]	19.05 [3/4]**	54	45	38	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
7.0 KW [2 Ton]	6.35 [1/4]	15.88 [5/8]	N/R	N/R	N/R	8 / 0.99	15 / 0.98	6 / 0.97	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	7.94 [5/16]	15.88 [5/8]	74	59	53	8 / 0.99	15 / 0.98	23 / 0.97	27 / 0.96	23 / 0.95	21 / 0.94	19 / 0.93	16 / 0.92	14 / 0.91	11 / 0.90	11 / 0.90
	9.53 [3/8]	15.88 [5/8]	49	39	36	8 / 0.99	15 / 0.98	23 / 0.97	30 / 0.96	30 / 0.95	30 / 0.94	30 / 0.93	29 / 0.92	28 / 0.91	27 / 0.90	27 / 0.90
	6.35 [1/4]	19.05 [3/4]	N/R	N/R	N/R	8 / 1.00	15 / 1.00	6 / 0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	7.94 [5/16]	19.05 [3/4]	74	59	53	8 / 1.00	15 / 1.00	23 / 0.99	27 / 0.99	23 / 0.98	21 / 0.98	19 / 0.98	16 / 0.97	14 / 0.97	11 / 0.96	11 / 0.96
	9.53 [3/8]	19.05 [3/4]	49	39	36	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	30 / 0.98	30 / 0.98	30 / 0.98	29 / 0.97	28 / 0.97	27 / 0.96	27 / 0.96
8.8 KW [2.5 Ton]	7.94 [5/16]	15.88 [5/8]	N/R	N/R	N/R	8 / 0.99	15 / 0.98	23 / 0.96	21 / 0.94	18 / 0.93	15 / 0.91	11 / 0.90	N/R	N/R	N/R	N/R
	9.53 [3/8]	15.88 [5/8]	43	36	22	8 / 0.99	15 / 0.98	23 / 0.96	30 / 0.94	30 / 0.93	29 / 0.91	27 / 0.90	N/R	N/R	N/R	N/R
	7.94 [5/16]	19.05 [3/4]	65	53	34	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	N/R	N/R
	9.53 [3/8]	19.05 [3/4]	43	36	22	8 / 1.00	15 / 0.99	23 / 0.99	30 / 0.98	30 / 0.98	29 / 0.97	27 / 0.96	26 / 0.96	25 / 0.95	24 / 0.95	24 / 0.95
	7.94 [5/16]	15.88 [5/8]	N/R	N/R	N/R	8 / 0.99	15 / 0.97	20 / 0.94	15 / 0.92	10 / 0.90	N/R	N/R	N/R	N/R	N/R	N/R
	9.53 [3/8]	15.88 [5/8]	33	26	25	8 / 0.99	15 / 0.97	23 / 0.94	29 / 0.92	27 / 0.90	N/R	N/R	N/R	N/R	N/R	N/R
10.6 KW [3 Ton]	7.94 [5/16]	19.05 [3/4]	N/R	39	41	8 / 1.00	15 / 0.99	20 / 0.98	15 / 0.98	10 / 0.97	5 / 0.96	N/R	N/R	N/R	N/R	N/R
	9.53 [3/8]	19.05 [3/4]	33	26	27	8 / 1.00	15 / 0.99	23 / 0.98	29 / 0.98	27 / 0.97	26 / 0.96	24 / 0.95	22 / 0.94	20 / 0.93	19 / 0.93	19 / 0.93
	12.70 [1/2]	19.05 [3/4]	17	13	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
	7.94 [5/16]	22.23 [7/8]	N/R	39	41	8 / 1.00	15 / 1.00	20 / 1.00	15 / 0.99	10 / 0.99	5 / 0.99	N/R	N/R	N/R	N/R	N/R
	9.53 [3/8]	22.23 [7/8]	33	26	27	8 / 1.00	15 / 1.00	23 / 1.00	29 / 0.99	27 / 0.99	26 / 0.99	24 / 0.98	22 / 0.98	20 / 0.98	19 / 0.97	19 / 0.97
	12.70 [1/2]	22.23 [7/8]	17	13	14	8 / 1.00	15 / 1.00	23 / 1.00	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.97	30 / 0.97
12.3 KW [3.5 Ton]	9.53 [3/8]	19.05 [3/4]	46	31	23	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	N/R	N/R
	12.70 [1/2]	19.05 [3/4]	23	15	11	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	N/R	N/R
	9.53 [3/8]	22.23 [7/8]	46	31	23	8 / 1.00	15 / 1.00	23 / 0.99	27 / 0.99	24 / 0.99	22 / 0.98	20 / 0.97	17 / 0.97	15 / 0.96	13 / 0.96	13 / 0.96
	12.70 [1/2]	22.23 [7/8]	23	15	11	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 / 0.96	30 / 0.96	30 / 0.96

**NOTES:**  
 1. Do not exceed 61 meters linear line length.  
 2. Do not exceed 30 meters vertical separation if outdoor unit is above indoor unit.  
 3. \*\*19.05 mm [3/4 in.] 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.

**[ ] Designates Metric Conversions**

### Refrigerant Line Size Information (con't.)

13 - 16 SEER Single-Stage Air-Conditioners																
Unit Size	Allowable Liquid Line Size	Allowable Suction Line Size	Apply Long Line Guidelines if Linear Line Length Exceeds Those Shown Below (Meters)		Equivalent Length (Meters)											
			FO*13C	FO*14C	FO*14C*W	FO*16C	Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier									
			< 8	8-15	16-23	24-30	31-38	39-46	47-53	54-61	62-69	70-76				
14.1 KW [4 Ton]	9.53 [3/8]	19.05 [3/4]	45	34	N/R	11	8 / 0.99	15 / 0.98	23 / 0.96	24 / 0.95	20 / 0.93	17 / 0.92	14 / 0.91	N/R	N/R	N/R
	12.7 [1/2]	19.05 [3/4]	23	17	N/R	5	8 / 0.99	15 / 0.98	23 / 0.96	30 / 0.95	30 / 0.93	30 / 0.92	30 / 0.91	N/R	N/R	N/R
	9.53 [3/8]	22.23 [7/8]	45	34	N/R	11	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
	12.7 [1/2]	22.23 [7/8]	23	17	N/R	5	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]	24	0	N/R	0	8 / 0.99	15 / 0.97	23 / 0.94	19 / 0.92	14 / 0.90	N/R	N/R	N/R	N/R	N/R
	12.7 [1/2]	19.05 [3/4]	12	0	N/R	0	8 / 0.99	15 / 0.97	23 / 0.94	30 / 0.92	30 / 0.90	N/R	N/R	N/R	N/R	N/R
	9.53 [3/8]	22.23 [7/8]	24	0	N/R	0	8 / 1.00	15 / 0.99	23 / 0.98	19 / 0.97	14 / 0.96	10 / 0.95	5 / 0.94	N/R	N/R	N/R
	12.7 [1/2]	22.23 [7/8]	12	0	N/R	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]	24	0	N/R	0	8 / 1.01	15 / 1.01	23 / 1.00	19 / 1.00	14 / 0.99	10 / 0.99	5 / 0.99	N/R	N/R	N/R
	12.7 [1/2]	28.58 [1-1/8]	12	0	N/R	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:**

1. Do not exceed 61 meters linear line length.
2. \* Do not exceed 30 meters vertical separation if outdoor unit is above indoor unit.
3. \*\*19.05 mm [3/4 in.] 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.

**[ ] Designates Metric Conversions**

## Performance Data @ AHRI Standard Conditions – Cooling

Tested Combination							
Outdoor Unit	Indoor Coil	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]
FO1814CSJ**A	FCC2417TSA+RXMD-C04	17800 [5.2]	12100 [3.5]	5700 [1.7]	14.00	11.50	600 [283.2]
FO2414CSJ**B	FCC2417TSA+RXMD-C04	23200 [6.8]	17500 [5.2]	5700 [1.7]	14.00	11.50	800 [376.0]
FO3014CSJ**A	FCC3617TSA+RXMD-C04	28800 [8.4]	19500 [5.7]	9300 [2.7]	14.00	11.50	1000 [471.9]
FO3614CSJ**A	FCC3617TSA+RXMD-C04	34200 [10.0]	23200 [6.8]	11000 [3.2]	14.00	11.50	1050 [495.5]
FO3614CSC**A	FCC3617TSA+RXMD-C04	34200 [10.0]	23200 [6.8]	11000 [3.2]	14.00	11.50	1050 [495.5]
FO3614CSD**A	FCC3617TSA+RXMD-C04	34200 [10.0]	23200 [6.8]	11000 [3.2]	14.00	11.50	1050 [495.5]
FO4214CSJ**C	FCC4821TSA+RXMD-C04	39500 [11.6]	28900 [8.5]	10600 [3.1]	14.00	11.50	1350 [634.5]
FO4814CSC**A	FCC4821TSA+RXMD-C04	39500 [11.6]	28900 [8.5]	10600 [3.1]	14.00	11.50	1350 [634.5]
FO4814CSJ**A	FCC4821TSA+RXMD-C04	46000 [13.5]	31200 [9.1]	14800 [4.3]	14.00	11.70	1450 [684.3]
FO4814CSC**A	FCC4821TSA+RXMD-C04	46000 [13.5]	31200 [9.1]	14800 [4.3]	14.00	11.70	1450 [684.3]
FO4814CSD**A	FCC4821TSA+RXMD-C04	46000 [13.5]	31200 [9.1]	14800 [4.3]	14.00	11.70	1450 [684.3]
FO6014CSC**C	FCC6024TSA+RXMD-C04	57000 [16.8]	40200 [11.8]	16800 [5.0]	14.00	11.50	1550 [731.5]
FO6014CSD**C	FCC6024TSA+RXMD-C04	57000 [16.8]	40200 [11.8]	16800 [5.0]	14.00	11.50	1550 [731.5]
FO6014CSJ**C	FCC6024TSA+RXMD-C04	57000 [16.8]	40200 [11.8]	16800 [5.0]	14.00	11.50	1550 [731.5]

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

[ ] Designates Metric Conversions

## GUIDE SPECIFICATIONS

### General

#### System Description

Outdoor-mounted, air-cooled, split-system air conditioner composite base pan unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, propeller-type condenser fan, suction and legend 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 air conditioner 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 AIR CONDITIONER

#### FO\*14C

#### 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.**

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**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."*