

FUJITSU



FO*13C SERIES

Efficiencies up to 15.5 SEER/13 EER
 Nominal Sizes 1 1/2 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.

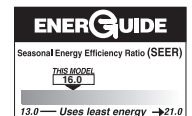


TABLE OF CONTENTS

| | |
|--|------|
| Model Number Identification | 3 |
| Available SKUs | 3 |
| General Data/Electrical Data | 4 |
| Accessories | 5 |
| Weighted Sound Power | 5 |
| Unit Dimensions..... | 6 |
| Clearances..... | 7 |
| Wiring Diagrams | 8 |
| Application Guidelines..... | 8 |
| Refrigerant Line Size Information..... | 9-12 |
| Performance Data | 13 |
| Guide Specifications | 14 |
| Limited Warranty | 15 |

Air Conditioners*

| <u>FO</u> | <u>18</u> | <u>13</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] | 13 - 13 SEER | C = AC | S = Single | J = 208/230 1 ph C = 208/230 3 ph | N = Non-communicating | A = First Design Series B = Second Design Series (LPC/HPC) | A = First Design Series B = Second 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 |
|------------------|
| F01813CSJNAA |
| F02413CSJNAB |
| F02413CSJNBB |
| F03013CSJNAA |
| F03013CSJNBA |
| F03613CSCNBA |
| F03613CSJNAA |
| F03613CSJNBA |
| F04213CSCNBA |
| F04213CSJNAA |
| F04213CSJNBA |
| F04813CSCNBA |
| F04813CSJNAA |
| F04813CSJNBA |
| F06013CSCNBA |
| F06013CSJNAA |
| F06013CSJNBA |

| Physical Data | | | | | | | |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| PHYSICAL DATA | | | | | | | |
| Model No. | F01813C | F02413C | F03013C | F03613C | F04213C | F04813C | F06013C |
| 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 | 54 | 60 | 72 | 86 | 105 | 106 | 148 |
| Compressor Type | Scroll | | | | | | |
| Outdoor Coil | | | | | | | |
| Net face area – Outer Coil | 5.9 | 9.1 | 9.1 | 12.1 | 14.2 | 14.8 | 18.8 |
| 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 | 22 | 18 | 22 | 22 | 22 | 22 | 22 |
| Outdoor Fan | | | | | | | |
| Diameter – in. | 20 | 20 | 20 | 20 | 20 | 24 | 26 |
| Number of blades | 2 | 2 | 3 | 3 | 2 | 3 | 2 |
| Motor hp | 1/8 | 1/8 | 1/4 | 1/4 | 1/8 | 1/6 | 1/5 |
| CFM | 2040 | 2325 | 2795 | 2900 | 2465 | 4144 | 3870 |
| RPM | 1075 | 1075 | 1075 | 1075 | 1075 | 850 | 820 |
| watts | 144 | 137 | 189 | 186 | 176 | 279 | 234 |
| Shipping weight – lbs. | 127 | 142 | 163 | 164 | 195 | 202 | 235 |
| Operating weight – lbs. | 120 | 135 | 156 | 157 | 188 | 195 | 228 |
| 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 | 30 | 35 | 40 | 50 | 60 |
| Minimum circuit ampacity³ | 13 | 15 | 18 | 23 | 24 | 29 | 35 |
| Compressor | | | | | | | |
| Rated load amps | 9.7 | 11.2 | 12.8 | 16.7 | 17.9 | 21.8 | 26.4 |
| Locked rotor amps | 48 | 60.8 | 64 | 83.9 | 112 | 117 | 134 |
| Condenser Fan Motor | | | | | | | |
| Full load amps | 0.7 | 0.7 | 1.3 | 1.3 | 0.7 | 1 | 1.2 |
| Locked rotor amps | 1.3 | 1.3 | 2.5 | 2.6 | 1.3 | 2.2 | 2 |
| 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 | | | | 15 | 18 | 19 | 22 |
| Compressor | | | | | | | |
| Rated load amps | | | | 10.4 | 13.2 | 13.7 | 16 |
| Locked rotor amps | | | | 73 | 88 | 83.1 | 110 |
| Condenser Fan Motor | | | | | | | |
| Full load amps | | | | 1.3 | 0.7 | 1 | 1.3 |
| Locked rotor amps | | | | 2.6 | 1.3 | 2.2 | 2 |
| 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 | 8 | 9 | 11 |
| Compressor | | | | | | | |
| Rated load amps | | | | 5.8 | 6 | 6.2 | 7.8 |
| Locked rotor amps | | | | 38 | 44 | 41 | 52 |
| Condenser Fan Motor | | | | | | | |
| Full load amps | | | | 0.6 | 0.3 | 0.6 | 0.6 |
| Locked rotor amps | | | | 2.5 | 0.9 | 1.6 | 1.1 |

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. | F01813 | F02413 | F03013 | F03613 | F04213 | F04813 | F06013 | |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 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 |
| 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 6 in. | 686020 | 686020 | 686020 | 686020 | 686020 | 686020 | 686020 | |

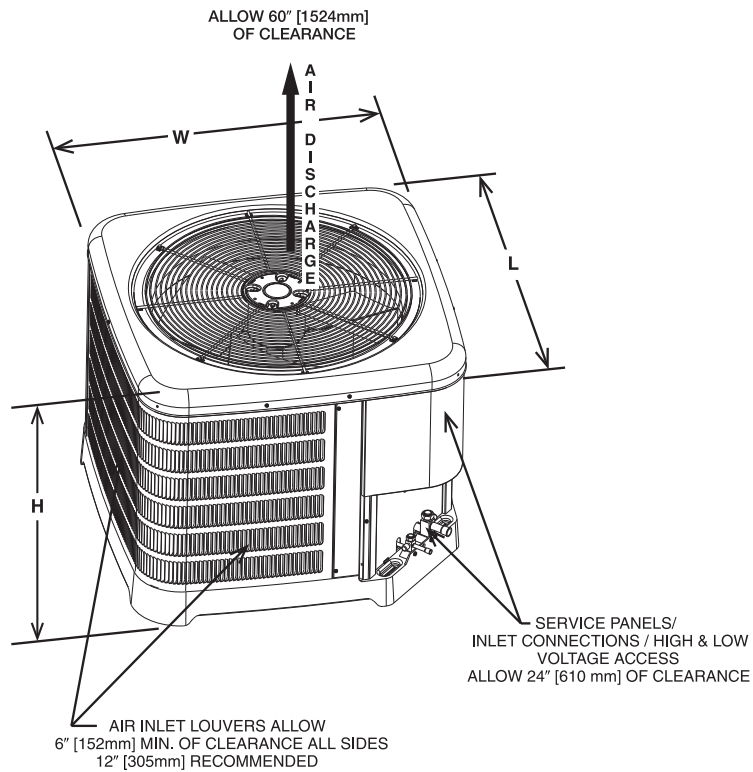
Weighted Sound Power Level (dBA)

| FO*13C Sound Power Level | | | | | | | | |
|--------------------------|---------------------------|---|------|------|------|------|------|------|
| Model | Sound Power Level [dB(A)] | Full Octave Linear Sound Power Level dB - Center Frequency - Hz | | | | | | |
| | | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| F01813C | 72.0 | 51.7 | 58.3 | 61.5 | 61.1 | 57.0 | 54.0 | 47.0 |
| F02413C | 75.0 | 55.4 | 60.3 | 64.7 | 66.4 | 62.6 | 58.0 | 52.4 |
| F03013C | 78.0 | 51.4 | 67.1 | 67.5 | 68.2 | 65.5 | 59.8 | 53.6 |
| F03613C | 77.0 | 55.1 | 66.1 | 66.9 | 68.2 | 64.6 | 60.7 | 55.6 |
| F04213C | 73.0 | 48.9 | 56.1 | 62.9 | 62.2 | 61.1 | 55.2 | 50.2 |
| F04813C | 76.0 | 51.4 | 59.6 | 65.2 | 65.9 | 64.3 | 58.5 | 53.7 |
| F06013C | 78.0 | 51.7 | 60.9 | 66.9 | 70.4 | 63.5 | 57.4 | 53.8 |

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

Unit Dimensions

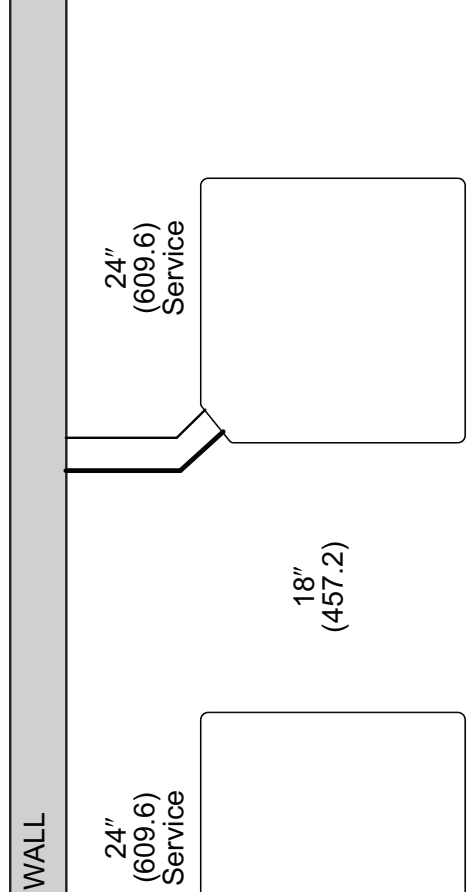
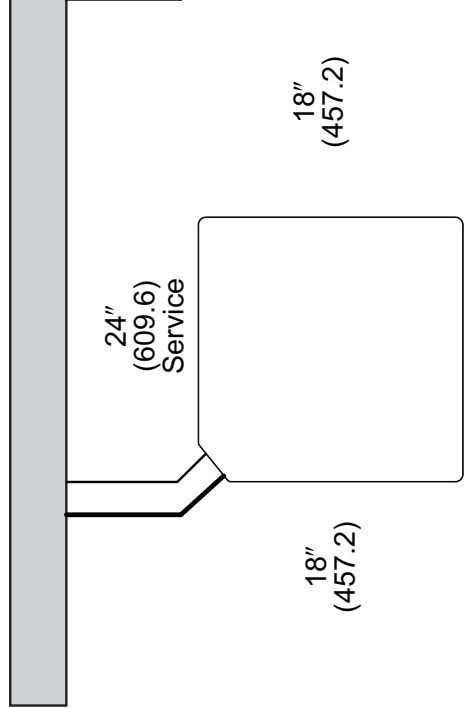
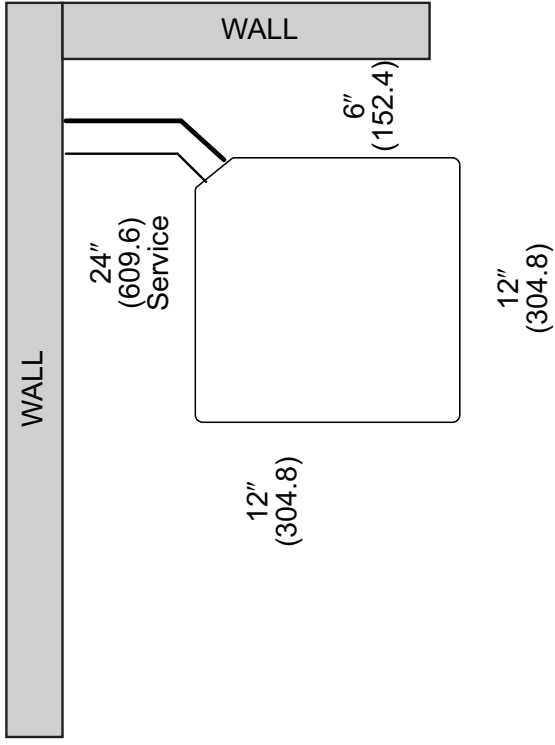
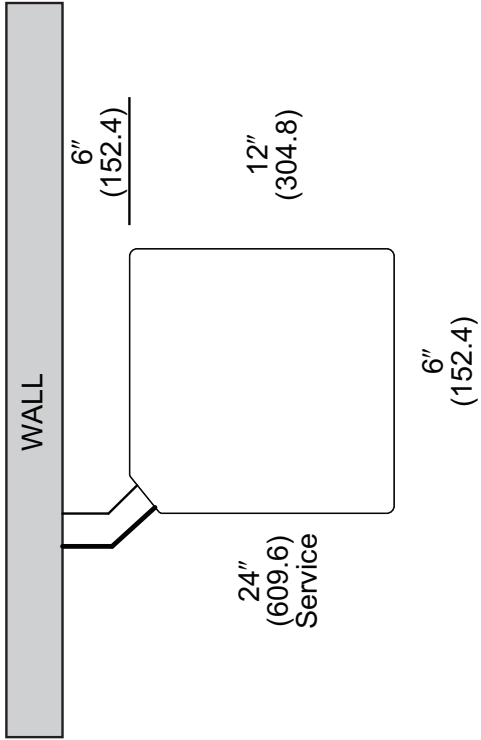
| MODEL NO. | OPERATING | | | | | | SHIPPING | | | | | |
|-----------|------------|-----|------------|-----|-----------|-----|------------|-----|------------|-----|-----------|------|
| | H (Height) | | L (Length) | | W (Width) | | H (Height) | | L (Length) | | W (Width) | |
| | INCHES | mm | INCHES | mm | INCHES | mm | INCHES | mm | INCHES | mm | INCHES | mm |
| FO1813C | 27 | 685 | 29.75 | 755 | 29.75 | 755 | 30.35 | 770 | 33.25 | 844 | 33.00 | 838 |
| FO2413C | 25 | 635 | 29.75 | 755 | 29.75 | 755 | 27.90 | 708 | 33.25 | 844 | 33.00 | 838 |
| FO3013C | 25 | 635 | 29.75 | 755 | 29.75 | 755 | 27.90 | 708 | 33.25 | 844 | 33.00 | 838 |
| FO3613C | 27 | 685 | 29.75 | 755 | 29.75 | 755 | 30.35 | 770 | 33.25 | 844 | 33.00 | 838 |
| FO4213C | 31 | 787 | 29.75 | 755 | 29.75 | 755 | 34.19 | 868 | 33.25 | 844 | 33.00 | 838 |
| FO4813C | 27 | 685 | 33.75 | 857 | 33.75 | 857 | 30.08 | 764 | 37.64 | 956 | 37.56 | 954 |
| FO6013C | 31 | 787 | 35.75 | 908 | 35.75 | 908 | 35.15 | 892 | 39.37 | 999 | 39.64 | 1006 |



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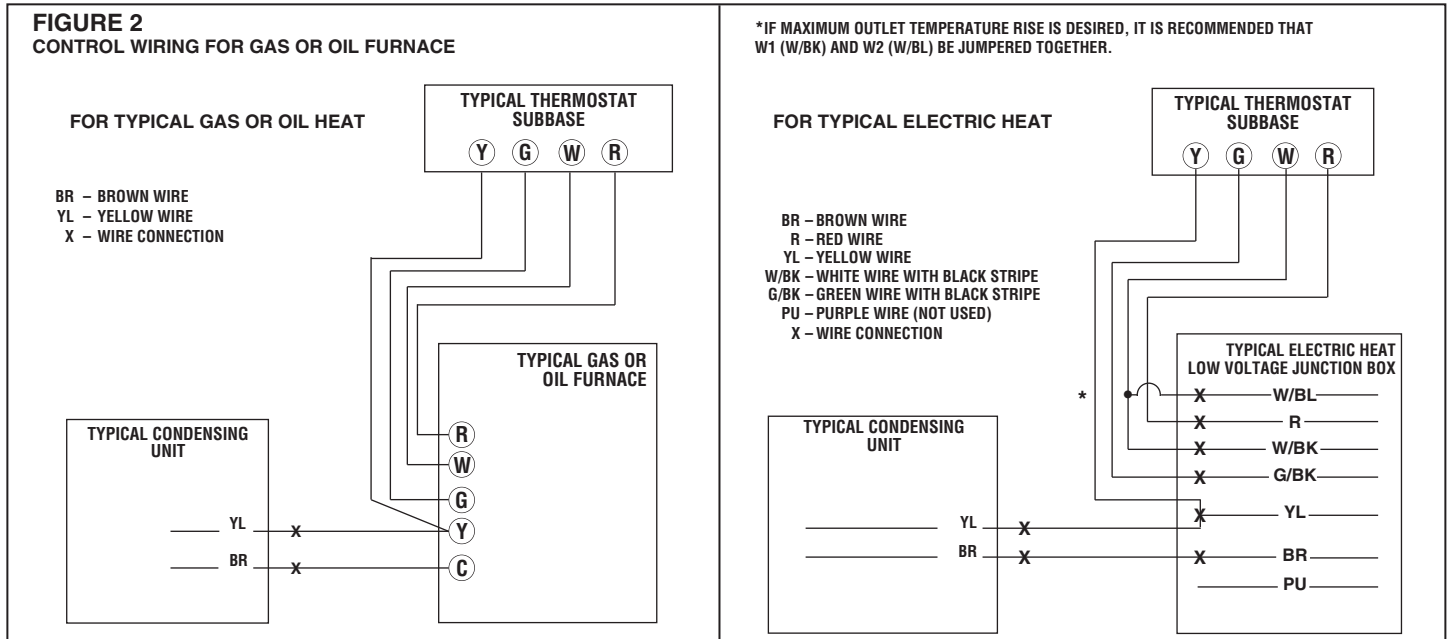
CLEARANCES



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.

Refrigerant Line Size Information

| 13 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 (Feet) | Equivalent Length (Feet) | | | | | | | | | | | | | | | |
| | | | | < 25 | 26-50 | 51-75 | 76-100 | 101-125 | 126-150 | 151-175 | 176-200 | 201-225 | 226-250 | | | | | | |
| FO*13C | | | | Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier | | | | | | | | | | | | | | | |
| 1.5 Ton **SEE NOTE 3 | 1/4" | 5/8" | n/a | 25 / 1.00 | 50 / 0.99 | 62 / 0.98 | 43 / 0.98 | 24 / 0.97 | 5 / 0.97 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| | 5/16" | 5/8" | n/a | 25 / 1.00 | 50 / 0.99 | 75 / 0.98 | 98 / 0.98 | 93 / 0.97 | 88 / 0.97 | 83 / 0.96 | 78 / 0.96 | 73 / 0.95 | 68 / 0.94 | | | | | | |
| | 3/8" | 5/8" | 178 | 25 / 1.00 | 50 / 0.99 | 75 / 0.98 | 100 / 0.98 | 100 / 0.97 | 100 / 0.97 | 100 / 0.96 | 100 / 0.96 | 100 / 0.95 | 100 / 0.94 | | | | | | |
| | 1/4" | 3/4"*** | n/a | 25 / 1.00 | 50 / 1.00 | 62 / 0.99 | 43 / 0.99 | 24 / 0.99 | 5 / 0.99 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| | 5/16" | 3/4"*** | n/a | 25 / 1.00 | 50 / 1.00 | 75 / 0.99 | 98 / 0.99 | 93 / 0.99 | 88 / 0.99 | 83 / 0.99 | 78 / 0.98 | 73 / 0.98 | 68 / 0.98 | | | | | | |
| | 3/8" | 3/4"*** | 178 | 25 / 1.00 | 50 / 1.00 | 75 / 1.00 | 100 / 0.99 | 100 / 0.99 | 100 / 0.99 | 100 / 0.99 | 100 / 0.99 | 100 / 0.98 | 100 / 0.98 | 100 / 0.98 | | | | | |
| 2 Ton | 1/4" | 5/8" | n/a | 25 / 0.99 | 50 / 0.98 | 21 / 0.97 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| | 5/16" | 5/8" | 213 | 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" | 142 | 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/a | 25 / 1.00 | 50 / 1.00 | 21 / 0.99 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| | 5/16" | 3/4" | 213 | 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" | 142 | 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/a | 25 / 0.99 | 50 / 0.98 | 75 / 0.96 | 70 / 0.94 | 59 / 0.93 | 48 / 0.91 | 36 / 0.90 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| | 3/8" | 5/8" | 142 | 25 / 0.99 | 50 / 0.98 | 75 / 0.96 | 100 / 0.94 | 98 / 0.93 | 94 / 0.91 | 90 / 0.90 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| | 5/16" | 3/4" | 213 | 25 / 1.00 | 50 / 0.99 | 75 / 0.99 | 70 / 0.98 | 59 / 0.98 | 48 / 0.97 | 36 / 0.96 | 25 / 0.96 | 13 / 0.95 | NR | | | | | | |
| | 3/8" | 3/4" | 142 | 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/a | 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 |
| | 3/8" | 5/8" | 108 | 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 |
| 3 Ton | 5/16" | 3/4" | n/a | 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 |
| | 3/8" | 3/4" | 108 | 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 | 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/a | 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 |
| | 3/8" | 7/8" | 108 | 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 | 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 / 0.98 | | | | | | |

- 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.

Refrigerant Line Size Information (con't.)

| 13 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 (Feet) | Equivalent Length (Feet) | | | | | | | | | |
| | | | | < 25 | 26-50 | 51-75 | 76-100 | 101-125 | 126-150 | 151-175 | 176-200 | 201-225 | 226-250 |
| FO*13C | | | | Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier | | | | | | | | | |
| 3.5 Ton | 3/8" | 3/4" | 150 | 25 / 0.99 | 50 / 0.98 | 75 / 0.97 | 88 / 0.96 | 80 / 0.95 | 72 / 0.94 | 65 / 0.92 | 57 / 0.91 | 49 / 0.90 | NR |
| | 1/2" | 3/4" | 75 | 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 |
| | 3/8" | 7/8" | 150 | 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 | 25 / 1.00 | 50 / 1.00 | 75 / 0.99 | 100 / 0.99 | 100 / 0.99 | 100 / 0.98 | 100 / 0.97 | 100 / 0.97 | 100 / 0.96 | 100 / 0.96 |
| 4 Ton | 3/8" | 3/4" | 148 | 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" | 74 | 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" | 148 | 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" | 74 | 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" | 78 | 25 / 0.99 | 50 / 0.97 | 75 / 0.94 | 61 / 0.92 | 46 / 0.90 | NR | NR | NR | NR | NR |
| | 1/2" | 3/4" | 39 | 25 / 0.99 | 50 / 0.97 | 75 / 0.94 | 100 / 0.92 | 100 / 0.90 | NR | NR | NR | NR | NR |
| | 3/8" | 7/8" | 78 | 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" | 39 | 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" | 78 | 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" | 39 | 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.

Refrigerant Line Size Information

| 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) | | | | | | | | | | | | |
|--|--|---|--------------------------------------|---|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|----|----|
| | | | | | < 8 | 8-15 | 16-23 | 24-30 | 31-38 | 39-46 | 47-53 | 54-61 | 62-69 | 70-76 | | | |
| | | FO*13C | | | | | | | | | | | | | | | |
| | | Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier | | | | | | | | | | | | | | | |
| 5.3 KW [1.5 Ton] **SEE NOTE 3 | | 6.35 [1/4] | 15.88 [5/8] | n/a | 8 / 1.00 | 15 / 0.99 | 19 / 0.98 | 13 / 0.98 | 7 / 0.97 | 2 / 0.97 | NR | NR | NR | NR | NR | NR | NR |
| | | 7.94 [5/16] | 15.88 [5/8] | n/a | 8 / 1.00 | 15 / 0.99 | 23 / 0.98 | 30 / 0.98 | 28 / 0.97 | 27 / 0.97 | 25 / 0.96 | 24 / 0.96 | 22 / 0.95 | 21 / 0.94 | | | |
| | | 9.53 [3/8] | 15.88 [5/8] | 54 | 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 | | | |
| | | 6.35 [1/4] | 19.05 [3/4]** | n/a | 8 / 1.00 | 15 / 1.00 | 19 / 0.99 | 13 / 0.99 | 7 / 0.99 | 2 / 0.99 | NR | NR | NR | NR | NR | NR | NR |
| 7.0 KW [2 Ton] | | 7.94 [5/16] | 19.05 [3/4]** | n/a | 8 / 1.00 | 15 / 1.00 | 23 / 0.99 | 30 / 0.99 | 28 / 0.99 | 27 / 0.99 | 25 / 0.99 | 24 / 0.98 | 22 / 0.98 | 21 / 0.98 | | | |
| | | 9.53 [3/8] | 19.05 [3/4]** | 54 | 8 / 1.00 | 15 / 1.00 | 23 / 0.99 | 30 / 0.99 | 30 / 0.99 | 30 / 0.99 | 30 / 0.99 | 30 / 0.98 | 30 / 0.98 | 30 / 0.98 | | | |
| | | 6.35 [1/4] | 15.88 [5/8] | n/a | 8 / 0.99 | 15 / 0.98 | 6 / 0.97 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| | | 7.94 [5/16] | 15.88 [5/8] | 65 | 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 | | | |
| 8.8 KW [2.5 Ton] | | 9.53 [3/8] | 15.88 [5/8] | 43 | 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 | | | |
| | | 6.35 [1/4] | 19.05 [3/4] | n/a | 8 / 1.00 | 15 / 1.00 | 6 / 0.99 | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| | | 7.94 [5/16] | 19.05 [3/4] | 65 | 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 | | | |
| | | 9.53 [3/8] | 19.05 [3/4] | 43 | 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 | | | |
| 10.6 KW [3 Ton] | | 7.94 [5/16] | 15.88 [5/8] | n/a | 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 |
| | | 9.53 [3/8] | 15.88 [5/8] | 43 | 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 |
| | | 7.94 [5/16] | 19.05 [3/4] | 65 | 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 | | | |
| | | 9.53 [3/8] | 19.05 [3/4] | 43 | 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 | | | |
| | | 7.94 [5/16] | 15.88 [5/8] | n/a | 8 / 0.99 | 15 / 0.97 | 20 / 0.94 | 15 / 0.92 | 10 / 0.90 | NR | NR | NR | NR | NR | NR | NR | NR |
| | | 9.53 [3/8] | 15.88 [5/8] | 33 | 8 / 0.99 | 15 / 0.97 | 23 / 0.94 | 29 / 0.92 | 27 / 0.90 | NR | NR | NR | NR | NR | NR | NR | NR |
| | | 7.94 [5/16] | 19.05 [3/4] | n/a | 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 |
| | | 9.53 [3/8] | 19.05 [3/4] | 33 | 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 | | | |
| | | 12.70 [1/2] | 19.05 [3/4] | 17 | 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 | | | |
| | | 7.94 [5/16] | 22.23 [7/8] | n/a | 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 |
| | | 9.53 [3/8] | 22.23 [7/8] | 33 | 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 | | | |
| | | 12.70 [1/2] | 22.23 [7/8] | 17 | 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 | | | |

- 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 in.] vapor line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
 - Always use the smallest liquid line allowable to minimize refrigerant charge.
 - Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
 - Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

[] Designates Metric Conversions

Refrigerant Line Size Information (con't.)

| 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) | | | | | | | | | |
|----------------------|----|---|--------------------------------------|---|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| | | | | | < 8 | 8-15 | 16-23 | 24-30 | 31-38 | 39-46 | 47-53 | 54-61 | 62-69 | 70-76 |
| | | FO*13C | | | | | | | | | | | | |
| | | Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier | | | | | | | | | | | | |
| 12.3 KW [3.5 Ton] | 46 | 19.05 [3/4] | 19.05 [3/4] | 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 | |
| | 23 | 19.05 [3/4] | 19.05 [3/4] | 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 | |
| | 46 | 22.23 [7/8] | 22.23 [7/8] | 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 | |
| | 23 | 22.23 [7/8] | 22.23 [7/8] | 8 / 1.00 | 15 / 1.00 | 23 / 0.99 | 30 / 0.99 | 30 / 0.99 | 30 / 0.98 | 30 / 0.97 | 30 / 0.97 | 30 / 0.96 | 30 / 0.96 | |
| 14.1 KW [4 Ton] | 45 | 19.05 [3/4] | 19.05 [3/4] | 8 / 0.99 | 15 / 0.98 | 23 / 0.96 | 24 / 0.95 | 20 / 0.93 | 17 / 0.92 | 14 / 0.91 | NR | NR | NR | |
| | 23 | 19.05 [3/4] | 19.05 [3/4] | 8 / 0.99 | 15 / 0.98 | 23 / 0.96 | 30 / 0.95 | 30 / 0.93 | 30 / 0.92 | 30 / 0.91 | NR | NR | NR | |
| | 45 | 22.23 [7/8] | 22.23 [7/8] | 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 | |
| | 23 | 22.23 [7/8] | 22.23 [7/8] | 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] | 24 | 19.05 [3/4] | 19.05 [3/4] | 8 / 0.99 | 15 / 0.97 | 23 / 0.94 | 19 / 0.92 | 14 / 0.90 | NR | NR | NR | NR | NR | |
| | 12 | 19.05 [3/4] | 19.05 [3/4] | 8 / 0.99 | 15 / 0.97 | 23 / 0.94 | 30 / 0.92 | 30 / 0.90 | NR | NR | NR | NR | NR | |
| | 24 | 22.23 [7/8] | 22.23 [7/8] | 8 / 1.00 | 15 / 0.99 | 23 / 0.98 | 19 / 0.97 | 14 / 0.96 | 10 / 0.95 | 5 / 0.94 | NR | NR | NR | |
| | 12 | 22.23 [7/8] | 22.23 [7/8] | 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 | |
| | 24 | 28.58 [1-1/8] | 28.58 [1-1/8] | 8 / 1.01 | 15 / 1.01 | 23 / 1.00 | 19 / 1.00 | 14 / 0.99 | 10 / 0.99 | 5 / 0.99 | NR | NR | NR | |
| | 12 | 28.58 [1-1/8] | 28.58 [1-1/8] | 8 / 1.01 | 15 / 1.01 | 23 / 1.00 | 30 / 1.00 | 30 / 0.99 | 30 / 0.99 | 30 / 0.99 | 29 / 0.99 | 28 / 0.99 | 27 / 0.98 | |

NOTES:

- Do not exceed 61 meters linear line length.
- Do not exceed 30 meters vertical separation if outdoor unit is above indoor unit.
- ** 19.05 mm [3/4 in.] vapor line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
- Always use the smallest liquid line allowable to minimize refrigerant charge.
- Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
- Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

[] Designates Metric Conversions

Performance Data @ AHRI Standard Conditions – Cooling

| Designated Tested Combination (DTC) | | | | | | | |
|-------------------------------------|-------------|------------------------------|----------------------------|--------------------------|-------|-------|---------------------|
| 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] |
| FO1813C | FCC2417TSA | 17600 [5.2] | 12600 [3.7] | 5000 [1.5] | 13.00 | 11.00 | 600 [283.2] |
| FO2413C | FCC2417TSA | 23400 [6.9] | 17500 [5.1] | 5900 [1.7] | 13.00 | 11.50 | 800 [376.0] |
| FO3013C | FCC3617TSA | 28400 [8.3] | 21000 [6.2] | 7400 [2.2] | 13.00 | 11.00 | 1000 [471.9] |
| FO3613C | FCC3617TSA | 34600 [10.1] | 23400 [6.9] | 11200 [3.3] | 13.00 | 11.00 | 1025 [483.7] |
| FO4213C | FCC4821TSA | 40500 [11.9] | 28700 [8.4] | 11800 [3.5] | 13.00 | 11.00 | 1400 [660.7] |
| FO4813C | FCC4821TSA | 47500 [13.9] | 34000 [10.0] | 13500 [4.0] | 13.00 | 11.00 | 1500 [707.9] |
| FO6013C | FCC6024TSA | 56000 [16.4] | 39600 [11.6] | 16400 [4.8] | 13.00 | 11.00 | 1600 [755.1] |

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 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*13C

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."