FUJITSU FOC1418SJAZNA1 Air Conditioners User Manual

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FUJITSU FOC1418SJAZNA1 Air Conditioners

FOC14

- **Cooling Efficiency up to** 16 SEER2/13 EER2
- **Nominal Sizes:** 11/2 to 5 Ton [5.28 to 17.6 kW]
- **Cooling Capacities:** 17.1 to 55.5 kBTU [5.0 to 16.3 kW].
    - A.F.U.E. (Annual Fuel Utilization Efficiency) is calculated in accordance with Department of Energy test procedures.
    - Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet Energy Star. Ask your Contractor for details or visit www.energystar.gov.

Air Conditioners

F	O	C	14	18	S	J	A	Z	N	A	1	LHP
Brand	**Product Category**	**Type**	**SEER2**	**Capacity**	**Stages**	**Voltage**	**Region**	**Refrigerant**	**Controls**	**Major Series**	**Minor Series**	**Option**
F - Fujitsu	O - Outdoor Unit	C - Air Conditioners	14 - 13.8/14.3 SEER2	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]	S - 1-Stage	J - 208/230/1/60	A - All Regions	Z - R-410A	N - Non-Communicating	A - 1st Design	1 - 1st Series	LHP - W/HLPC

[ ] Designates Metric Conversions

AVAILABLE MODELS	DESCRIPTION
FOC1418SJAZNA1	1 1/2 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60
FOC1418SJAZNA1LHP	1 1/2 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60
FOC1424SJAZNA1	2 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60
FOC1424SJAZNA1LHP	2 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60
FOC1430SJAZNA1	2 1/2 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60
FOC1430SJAZNA1LHP	2 1/2 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60
FOC1436SJAZNA1	3 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60
FOC1436SJAZNA1LHP	3 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60
FOC1442SJAZNA1	3 1/2 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60
FOC1442SJAZNA1LHP	3 1/2 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60
FOC1448SJAZNA1	4 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60
FOC1448SJAZNA1LHP	4 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60
FOC1460SJAZNA1	5 ton 14.3 SEER2 Single-Stage iM Air Conditioner-208/230/1/60
FOC1460SJAZNA1LHP	5 ton 14.3 SEER2 Single-Stage iM Air Conditioner w/ High/Low Pressure-208/230/1/60

STANDARD EQUIPMENT
R-410A Refrigerant
Scroll Compressor
Field Installed Filter Drier
Front Seating Service Valves
Internal Pressure Relief Valve
Internal Thermal Overload
Long Line capability
Low Ambient capability with Kit
3-4-5 Expanded Valve Space
Composite Basepan
2 Screw Control Box Access
15″ Access to Internal Components
Quick release louver panel design
No fasteners to remove along bottom
Optimized Venturi Airflow
Powder coated paint
Rust resistant screws
QR code
External gauge ports
Service trays

General Data							
GENERAL DATA							
MODEL NO.	**FOC1418**	**FOC1424**	**FOC1430**	**FOC1436**	**FOC1442**	**FOC1448**	**FOC1460**
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]	94	115	120	124	149	153	203
Compressor Type	Scroll						
Outdoor Coil							
Net face area – Outer Coil	10.9	13.3	14.3	16.4	19.5	19.5	32.5
Net face area – Inner Coil	10.5	12.9	13.9	15.9	18.8	18.8	—
Tube diameter – in.	0.276	0.276	0.276	0.276	0.276	0.276	0.375
Number of rows	2	2	2	2	2	2	1
Fins per inch	24	24	24	24	24	24	22
Outdoor Fan							
Diameter – in.	20	24	24	24	24	24	26
Number of blades	2	2	2	2	3	3	3
Motor hp	1/7	1/6	1/6	1/6	1/5	1/5	1/3
CFM	2156	2723	2830	2991	3655	3655	5178
RPM	1075	825	825	825	850	850	910
watts	152	161	165	145	214	214	271
Shipping weight – lbs.	151	185	197	217	259	250	294
Operating weight – lbs.	144	178	190	210	252	243	287
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	30	40	40	60
Minimum circuit ampacity[3]	14	18	19	20	24	24	40
Compressor							
Rated load amps	9	12	14	13	18	18	26
Locked rotor amps	43	60	68	83	110	102	150
Condenser Fan Motor							
Full load amps	0.8	0.8	0.8	0.8	1.0	1.0	2.8
Locked rotor amps	1.5	1.5	1.7	1.7	2.6	2.6	—

1. 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.
2. HACR type circuit breaker of fuse.
3. Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.

Accessories

MODEL NO.		FOC1418	FOC1424	FOC1430	FOC1436	FOC1442	FOC1448	FOC1460
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 V AC, 50/60 Hz)	Solenoid Valve	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC
	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	200RD2T3TVLC	200RD2T3TVLC
	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		91-101123-21	91-101123-21	91-101123-21	91-101123-21	91-101123-21	91-101123-21	91-101123-21

- Crankcase Heater recommended with Low Ambient Kit.

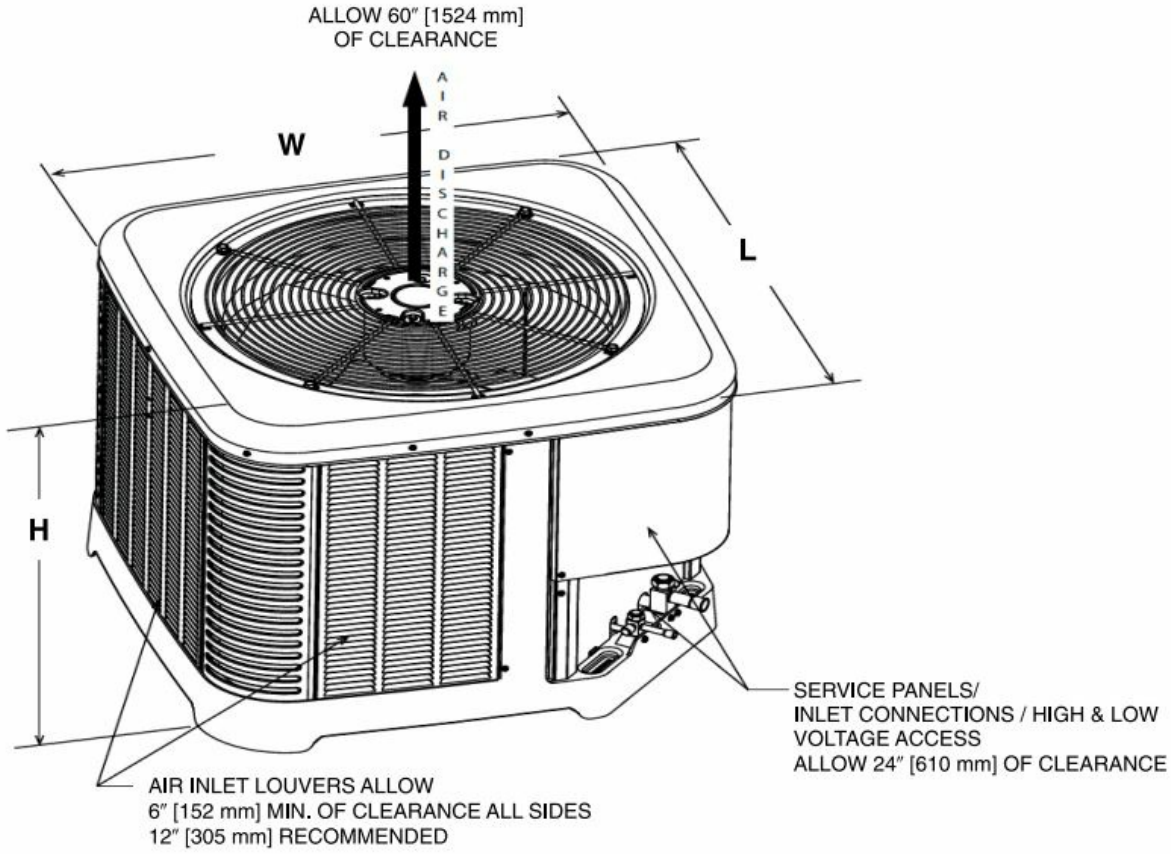
Weighted Sound Power Level (dBA)

UNIT SIZE– VOLTAGE, SERIES	STANDARD RATING (DBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
FOC1418	70.7	48.2	56.0	61.9	61.0	56.5	53.5	45.7
FOC1424	68.5	44.6	53.6	58.7	58.0	55.5	50.5	45.7
FOC1430	70.8	45.1	54.5	59.8	59.0	56.8	53.8	45.9
FOC1436	71.6	45.4	52.6	60.2	60.8	58.7	55.9	48.4
FOC1442	72.5	46.6	55.3	63.9	62.1	59.4	55.2	48.2
FOC1448	74.0	45.4	55.7	64.2	62.9	60.8	56.7	51.2
FOC1460	75.8	43.4	59.8	67.2	65.5	62.7	59.2	53.1

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
FOC1418	25.00	635	29.75	756	29.75	756	26.50	673	32.38	822	32.38	822
FOC1424	25.00	635	33.75	857	33.75	857	26.50	673	36.38	924	36.38	924
FOC1430	27.00	686	33.75	857	33.75	857	28.50	724	36.38	924	36.38	924
FOC1436	31.00	787	33.75	857	33.75	857	32.50	826	36.38	924	36.38	924
FOC1442	35.00	889	33.75	857	33.75	857	36.50	927	36.38	924	36.38	924
FOC1448	35.00	889	33.75	857	33.75	857	36.50	927	36.38	924	36.38	924
FOC1460	51.00	1295	35.75	908	35.75	908	52.50	1334	38.38	975	38.38	975



[ ] Designates Metric Conversions

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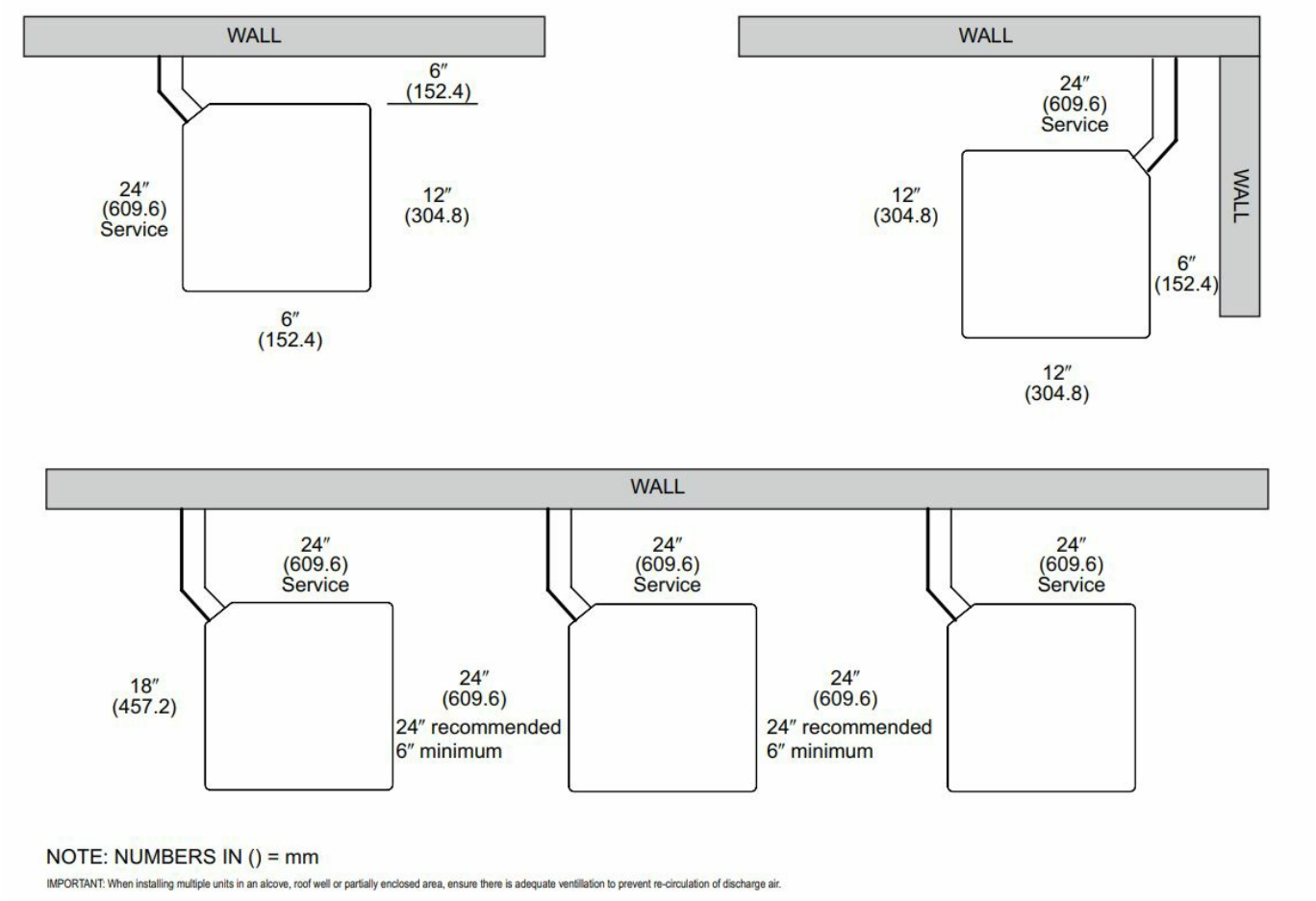
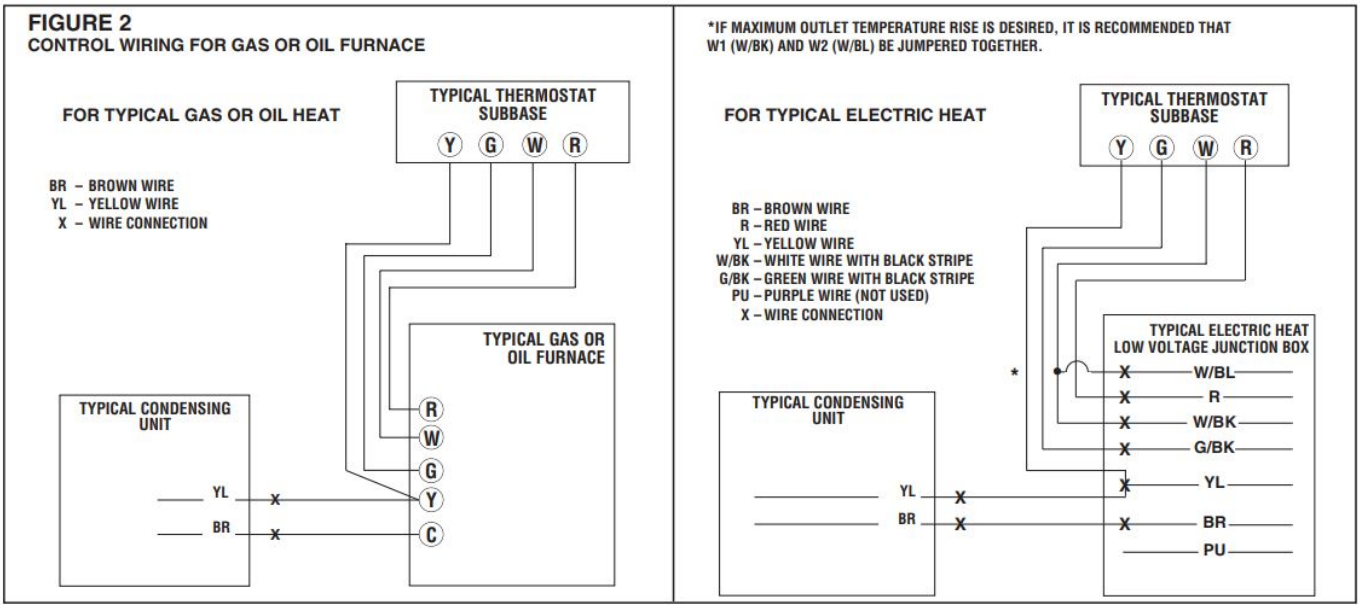
CLEARANCES



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. Use only copper wire for electric connections at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
6. Do not apply capillary tube indoor coils to these units.
7. Factory-supplied filter drier must be installed.

Refrigerant Line Size Information

14.3 SEER2 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**
			FOC14	**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**
	5/16″	5/8″	223	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″	148	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**
	5/16″	3/4″**	223	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″**	148	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/A	25 / 0.99	50 / 0.98	21 / 0.97	**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**
	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**
	3/8″	5/8″	117	25 / 0.99	50 / 0.98	75 / 0.96	100 / 0.94	98 / 0.93	94 / 0.91	90 / 0.90	**NR**	**NR**	**NR**
	5/16″	3/4″	175	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″	117	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
3 Ton	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**
	3/8″	5/8″	85	25 / 0.99	50 / 0.97	75 / 0.94	95 / 0.92	89 / 0.90	**NR**	**NR**	**NR**	**NR**	**NR**
	5/16″	3/4″	128	25 / 1.00	50 / 0.99	66 / 0.98	49 / 0.98	32 / 0.97	15 / 0.96	**NR**	**NR**	**NR**	**NR**
	3/8″	3/4″	85	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″	43	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″	128	25 / 1.00	50 / 1.00	66 / 1.00	49 / 0.99	32 / 0.99	15 / 0.99	**NR**	**NR**	**NR**	**NR**
	3/8″	7/8″	85	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″	43	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″	102	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″	51	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″	102	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″	51	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

NOTES

1. Do not exceed 200 ft linear line length.
2. Do not exceed 100 ft vertical separation if the outdoor unit is above the indoor unit.
3. 3/4″ suction line should only be used for 1.5 ton systems if the outdoor unit is below or at the same level as the indoor to ensure 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.

Refrigerant Line Size Information (Con't.)

14.3 SEER2 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**
			FOC14	**MAXIMUM VERTICAL RISE (OUTDOOR UNIT BELOW INDOOR UNIT) * / CAPACITY MULTIPLIER**									
4 Ton	3/8″	3/4″	110	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″	55	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″	110	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″	55	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
	3/8″	3/4″	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	25 / 0.99	50 / 0.97	75 / 0.94	100 / 0.92	100 / 0.90	**NR**	**NR**	**NR**	**NR**	**NR**
5 Ton	3/8″	7/8″	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	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	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	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:

1. Do not exceed 200 ft linear line length.
2. Do not exceed 100 ft vertical separation if the outdoor unit is above the indoor unit.
3. 3/4″ suction line should only be used for 1.5-ton systems if the outdoor unit is below or at the same level as the indoor to ensure 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.

14.3 SEER2 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)** **FOC14**	**EQUIVALENT LENGTH (METERS)** **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] ****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**
	7.94 [5/16]	15.88 [5/8]	68	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]	45	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**
	7.94 [5/16]	19.05 [3/4]**	68	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]**	45	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
7.0 KW [2 Ton]	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**
	7.94 [5/16]	15.88 [5/8]	59	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
	9.53 [3/8]	15.88 [5/8]	39	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**
	7.94 [5/16]	19.05 [3/4]	59	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]	39	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
8.8 KW [2.5	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**
	9.53 [3/8]	15.88 [5/8]	36	8 / 0.99	15 / 0.98	23 / 0.96	30 / 0.94	30 / 0.93	29 / 0.91	27 / 0.90	**NR**	**NR**	**NR**
	7.94 [5/16]	19.05 [3/4]	53	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**

Ton]												
	9.53 [3/8]	19.05 [3/4]	36	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
10. 6 K W [3 T on]	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**
	9.53 [3/8]	15.88 [5/8]	26	8 / 0. 99	15 / 0.97	23 / 0.94	29 / 0.92	27 / 0.90	**NR**	**NR**	**NR**	**NR**	**NR**
	7.94 [5/16]	19.05 [3/4]	39	8 / 1. 00	15 / 0.99	20 / 0.98	15 / 0.98	10 / 0.97	5 / 0. 96	**NR**	**NR**	**NR**	**NR**
	9.53 [3/8]	19.05 [3/4]	26	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]	13	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]	39	8 / 1. 00	15 / 1.00	20 / 1.00	15 / 0.99	10 / 0.99	5 / 0. 99	**NR**	**NR**	**NR**	**NR**
	9.53 [3/8]	22.23 [7/8]	26	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]	13	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
12. 3 K W [3.5 Ton]	9.53 [3/8]	19.05 [3/4]	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**
	12.70 [1/2]	19.05 [3/4]	15	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**
	9.53 [3/8]	22.23 [7/8]	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
	12.70 [1/2]	22.23 [7/8]	15	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

NOTES

1. Do not exceed 61m linear line length.
2. Do not exceed 30m vertical separation if the outdoor unit is above the indoor unit.
3. 19.05mm suction line should only be used for 1.5-ton systems if the outdoor unit is below or at the same level as the indoor to ensure 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.

14.3 SEER2 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)**									
				< 25	**26-50**	**51-75**	**76-100**	**101-125**	**126-150**	**151-175**	**176-200**	**201-225**	**226-250**
			FOC14	**MAXIMUM VERTICAL RISE (OUTDOOR UNIT BELOW INDOOR UNIT) * / CAPACITY MULTIPLIER**									
14.1 KW [4 Ton]	9.53 [3/8]	19.05 [3/4]	34	8 / 0.99	15 / 0.98	23 / 0.96	24 / 0.95	20 / 0.93	17 / 0.92	14 / 0.91	**NR**	**NR**	**NR**
	12.7 [1/2]	19.05 [3/4]	17	8 / 0.99	15 / 0.98	23 / 0.96	30 / 0.95	30 / 0.93	30 / 0.92	30 / 0.91	**NR**	**NR**	**NR**
	9.53 [3/8]	22.23 [7/8]	34	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]	17	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
	9.53 [3/8]	19.05 [3/4]	0	8 / 0.99	15 / 0.97	23 / 0.94	19 / 0.92	14 / 0.90	**NR**	**NR**	**NR**	**NR**	**NR**
	12.7 [1/2]	19.05 [3/4]	0	8 / 0.99	15 / 0.97	23 / 0.94	30 / 0.92	30 / 0.90	**NR**	**NR**	**NR**	**NR**	**NR**
17.6 KW [5 Ton]	9.53 [3/8]	22.23 [7/8]	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**
	12.7 [1/2]	22.23 [7/8]	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]	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**
	12.7 [1/2]	28.58 [1-1/8]	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 61m linear line length.
2. Do not exceed 30m vertical separation if outdoor unit is above the indoor unit.
3. 19.05mm suction line should only be used for 1.5 ton systems if the outdoor unit is below or at the same level as the indoor to ensure 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.

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 2**	**EER2**	**INDOOR CFM [L/s]**
FOC1418SJAZNA	FCCN2417SZTA	17,100 [5.0]	13,100 [3.8]	4,000 [1.2]	14.3	11.7	600 [283.2]
FOC1424SJAZNA	FCCN2417SZTA	22,800 [6.7]	17,500 [5.1]	5,300 [1.6]	14.3	11.7	725 [342.2]
FOC1430SJAZNA	FCCN3617SZTA	28,600 [8.4]	21,800 [6.4]	6,800 [2.0]	14.3	11.7	900 [424.8]
FOC1436SJAZNA	FCCN3617SZTA	34,200 [10.0]	26,200 [7.7]	8,000 [2.3]	14.3	11.7	1,025 [483.7]
FOC1442SJAZNA	FCCN4821SZTA	38,500 [11.3]	29,500 [8.6]	9,000 [2.6]	14.3	11.7	1,300 [613.5]
FOC1448SJAZNA	FCCN4821SZTA	45,000 [13.2]	34,500 [10.1]	10,500 [3.1]	13.8	11.2	1,425 [672.5]
FOC1460SJAZNA	FCCN6024SZTA	56,000 [16.4]	42,900 [12.6]	13,100 [3.8]	13.8	11.2	1,600 [755.1]

NOTE: This data includes DTC (Designated Test Combination) ratings and is for reference purposes only. A full listing of official ratings and system match-ups, along with downloadable certificates, can be accessed from the AHRI website: **www.ahridirectory.org**.

[ ] Designates Metric Conversions

GENERAL TERMS OF LIMITED WARRANTY

Fujitsu General America, Inc. will furnish a replacement for any part of this product that fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

- 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.

Conditional Parts

- (Registration Required)…… Ten (10) Years

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, Fujitsu reserves the right to make changes without notice.

Documents / Resources

	FUJITSU FOC1418SJAZNA1 Air Conditioners [pdf] User Manual FOC1418SJAZNA1 Air Conditioners, FOC1418SJAZNA1, Air Conditioners, Conditioners

References

- ahridirectory.org
- ENERGY STAR | The simple choice for energy efficiency.