

iM Air Conditioners





FOC18

EcoNet® Enabled

Cooling Efficiencies up to: 20.0 SEER2/13 EER2

Nominal Sizes: 2 to 5 Tons [7.0 to 17.6 kW]

Cooling Capacities: 22.8 to 54 kBTU [6.7 to 15.83 kW]

Manufactured for

Fujitsu General America, Inc.

Fairfield, NJ











^{*}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.

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Features and Benefits

- EcoNet® Enabled: Automatic system configuration and optimization
- Diagnostics & Bluetooth Connectivity: With the BluArch[™]
 Contractor & EcoNet® Apps, built-in technology makes
 advanced set-up, monitoring, troubleshooting, and repairing
 the product easier than ever before
- Brushless DC Condenser Motors (BLDC): Enhances reliability and allows for easier serviceability
- Swept Wing Fan Technology: Features quieter operation and improved unit acoustics
- Expanded Valve Space: 3 in. 4 in. 5 in. service valve space—provides a minimum working area of 27-square inches for easier access
- Triple Service Access: 15 in. wide, industry leading corner service access, two fastener, removeable corner and individual louver panels – makes repairs easier and faster

Air Conditioners

<u>F</u>	<u>o</u>	<u>c</u>	<u>18</u>	<u>24</u>			<u>A</u>	<u>z</u>	<u>c</u>	<u>A</u>	1
Brand	Product Category	Refrigerant	SEER2	Capacity BTU/HR	Stages	Voltage	Region	Refrigerant	Controls	Major Series	Minor Series
F - Fujitsu	O - Outdoor Unit	C - Air Conditioner	18 - 18 SEER2	24 - 24,000 [7.03 kW] 36 - 36,000 [10.55 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	M - Modulating	J - 208/230/1/60	A - All	Z - R-410A	C - Communicating	A - 1st Design	1 - 1st Series

[] Designates Metric Conversions

AVAILABLE MODELS	DESCRIPTION
FOC1824MJAZCA1	2 ton EcoNet® Enabled Inverter Driven Variable Speed iM Air Conditioner - 208/230/1/60
FOC1836MJAZCA1	3 ton EcoNet® Enabled Inverter Driven Variable Speed iM Air Conditioner - 208/230/1/60
FOC1848MJAZCA1	4 ton EcoNet® Enabled Inverter Driven Variable Speed iM Air Conditioner - 208/230/1/60
FOC1860MJAZCA1	5 ton EcoNet® Enabled Inverter Driven Variable Speed iM Air Conditioner - 208/230/1/60

STANDARD EQUIPMENT
R-410A Refrigerant
EcoNet® Enabled
Variable Speed Compressor
Compressor Sound Blanket
Variable speed outdoor fan motor
Swept wing fan blade
Field Installed Filter Drier
Front Seating Service Valves
Internal Pressure Relief Valve
Internal Thermal Overload
Low Ambient capability
3-4-5 Expanded Valve Space
Composite Basepan
1" Screw Control Box Access
15" Access to Internal Components
Quick release louver panel design
No fasteners to remove along bottom
Optimized Venturi Airflow
Single row condenser coil ¹
Powder coated paint
Rust resistant screws
QR code
External gauge ports
Service trays

¹⁵ Ton model includes 2 row condenser coil

	G	ENERAL DATA				
MODEL NO.	FOC1824MJAZCA1	FOC1836MJAZCA1	FOC1848MJAZCA1	FOC1860MJAZCA1		
Nominal Tonnage	2.0	3.0	4.0	5.0		
Valve Connections						
Liquid Line O.D. – in.	3/8	3/8	3/8	3/8		
Suction Line O.D. – in.	3/4	3/4	7/8	7/8		
Refrigerant (R410A) furnished oz. ¹	210	212	222	252		
Compressor Type		Sc	roll			
Outdoor Coil						
Net face area – Outer Coil	22.2	22.3	32.5	32.5		
Net face area – Inner Coil	_	_	_	32.5		
Tube diameter – in.	0.375	0.375	0.375	0.375		
Number of rows	1	1	1	2		
Fins per inch	20	20	22	20		
Outdoor Fan						
Diameter – in.	24	24	26	26		
Number of blades	3	3	3	3		
Motor hp	1/5	1/3	1/2	1/2		
CFM	3330	4315	6240	6175		
RPM	772	825	935	900		
watts	83	114	278	278		
Shipping weight – lbs.	226	244	263	316		
Operating weight – lbs.	214	236	255	307		
Electrical Data						
Line Voltage Data (Volts-Phase-Hz)	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60		
Maximum overcurrent protection (amps) ²	35	45	70	80		
Minimum circuit ampacity³	21	29	46	48		
Compressor		<u>'</u>	•	•		
Rated load amps	15	20.1	32	34.1		
Locked rotor amps	35	35	50	50		

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.

2HACR type circuit breaker of fuse.

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

Accessories

MODEL NO.	FOC1824MJAZCA1	FOC1836MJAZCA1	FOC1848MJAZCA1	FOC1860MJAZCA1
EcoNet® Smart Thermostat	CETST800SYS	CETST800SYS	CETST800SYS	CETST800SYS
Compressor Sound Cover	STD	STD	STD	STD
Supply / Return Sensor	RXHT-A02	RXHT-A02	RXHT-A02	RXHT-A02

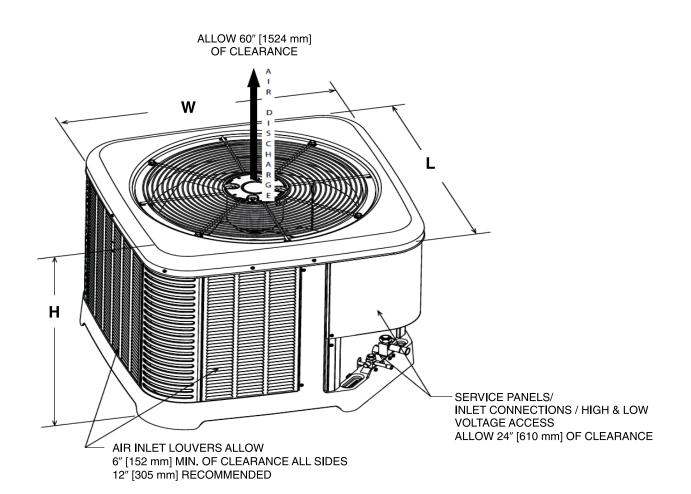
Weighted Sound Power Level

MODEL	SOUND POWER Level [DB(A)]	FULL OC	NCY - HZ	SOUND POWER Level [DB(A)]					
MODEL	LOW SPEÈD/ HIGH SPEED	125	250	500	1000	2000	4000	8000	WITH SOUND Blanket
FOC1824MJAZCA1	58.9	29	36.5	42	45.7	42.3	43.2	33	
FOCTOZ4IVIJAZGAT	68	47.1	47.7	58.8	57.1	55.0	52.7	45.6	
FOC1836MJAZCA1	57	29.2	36.7	44.9	45.4	42.2	39.4	32.2	
FOCTOSONISAZOAT	72	42.9	52.8	62.7	63.6	58.7	54.1	52.4	Sound Blankets -
FOC1848MJAZCA1	54	30.6	39	42.2	42.5	36.5	35.2	35	Standard
FUG 1848IVIJAZGA I	72	48.2	55.3	64.6	61.7	56.2	51.7	46.2	
FOC1860MJAZCA1	70	46.6	50.5	62.7	52.9	49.4	46	41.4	
T OO TOOONIJAZOA T	76	50.7	62.7	67.7	65.4	64.2	59.2	54.9	

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

Unit Dimensions

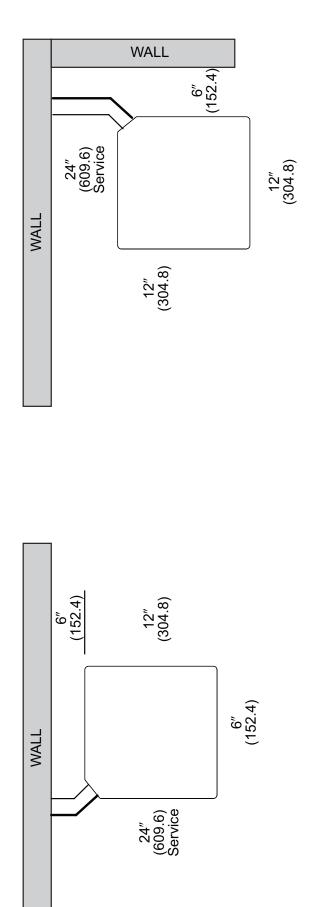
MODEL NO.			0PER	ATING					SHIP	PING		
	H (He	eight)	L (Le	ngth)	W (W	/idth)	H (He	eight)	L (Le	ngth)	W (W	/idth)
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
FOC1824MJAZCA1	39	990	33.75	857	33.75	857	41.56	1055	37.64	956	37.56	954
FOC1836MJAZCA1	39	990	33.75	857	33.75	857	41.56	1055	37.64	956	37.56	954
FOC1848MJAZCA1	51	1295	35.75	908	35.75	908	53.56	1360	39.37	999	39.64	1006
FOC1860MJAZCA1	51	1295	35.75	908	35.75	908	53.56	1360	39.37	999	39.64	1006

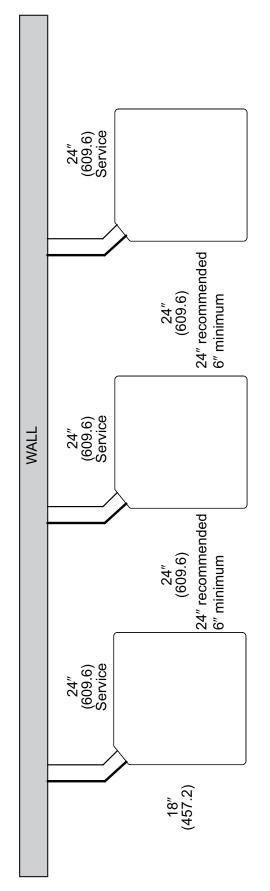


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ST-A1226-02-00

CLEARANCES

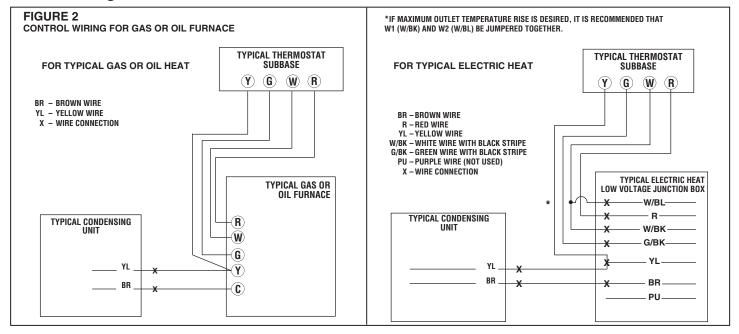




NOTE: NUMBERS IN () = mm

IMPORTANT: When installing multiple units in an alcove, roof well or partially enclosed area, ensure there is adequate ventillation 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. 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

			18 SEEF	R2 VARIABLE SPEED	AIR CONDITIONERS	3					
	ALLOWABLE	ALLOWABLE									
UNIT SIZE	LIQUID Line Size	VAPOR Line Size	< 25	26-50	51-75	76-100	101-125	126-150			
	LINE OIZE	LINE OIZE		MAXIMUI	VI VERTICAL SEPAR	ATION/CAPACITY MU	ILTIPLIER				
	1/4"	5/8"	25/1.00	50/0.99	32/0.98	40/0.97	NR	NR			
2 Ton* SEE NOTE 3	5/16"	5/8"	25/1.00	50/0.99	50/0.98	50/0.97	50/0.96	50/0.95			
	3/8"	5/8"	25/1.00	50/0.99	50/0.98	50/0.97	50/0.96	50/0.95			
	1/4"	3/4"**	25/1.00	50/1.00	32/0.99	40/0.99	NR	NR			
	5/16"	3/4"**	25/1.00	50/1.00	50/0.99	50/0.99	50/0.99	50/0.98			
	3/8"	3/4"**	25/1.00	50/1.00	50/0.99	50/0.99	50/0.99	50/0.98			
	5/16"	5/8"	25/0.99	50/0.97	50/0.95	50/0.93	37/0.91	NR			
	3/8"	5/8"	25/0.99	50/0.97	50/0.95	50/0.93	50/0.91	NR			
3 Ton	5/16"	3/4"	25/1.00	50/0.99	50/0.99	50/0.98	37/0.97	22/0.96			
	3/8"	3/4"	25/1.00	50/0.99	50/0.99	50/0.98	50/0.97	50/0.96			
	1/2"	3/4"	25/1.00	50/0.99	50/0.99	50/0.98	50/0.97	50/0.96			
	3/8"	3/4"	25/0.99	50/0.98	50/0.97	50/0.96	50/0.94	50/0.93			
4 Ton	1/2"	3/4"	25/0.99	50/0.98	50/0.97	50/0.96	50/0.94	50/0.93			
4 1011	3/8"	7/8"	25/1.00	50/0.99	50/0.99	50/0.98	50/0.98	50/0.97			
	1/2"	7/8"	25/1.00	50/0.99	50/0.99	50/0.98	50/0.98	50/0.97			
	3/8"	3/4"	25/0.99	50/0.97	50/0.95	50/0.93	50/0.91	NR			
E Ton	1/2"	3/4"	25/0.99	50/0.97	50/0.95	50/0.93	50/0.91	NR			
5 Ton	3/8"	7/8"	25/1.00	50/0.99	50/0.98	50/0.98	50/0.97	38/0.96			
	1/2"	7/8"	25/1.00	50/0.99	50/0.98	50/0.98	50/0.97	50/0.96			

- 1) Do not exceed 150 ft linear line length.
- *Do not exceed 50 ft vertical separation between indoor and outdoor units.
- 3) **3/4" suction line should only be used for 2 ton systems if outdoor unit is below or at same level as indoor unit to assure proper oil return.

 4) 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.)

			18 SEEF	R2 VARIABLE SPEED	AIR CONDITIONERS	3			
_	ALLOWABLE LIQUID	ALLOWABLE VAPOR	OUTDOOR UNIT ABOVE OR BELOW INDOOR UNIT EQUIVALENT LENGTH (METERS)						
UNIT SIZE	LINE	LINE	< 8	8-15	16-23	24-30	31-38	39-46	
	SIZE	SIZE		MAXIMUI	VI VERTICAL SEPAR	ATION/CAPACITY MU	ILTIPLIER		
	6.35 [1/4]	15.88 [5/8]	8/1.00	15/0.99	10/0.98	10/0.97	NR	NR	
	7.94 [5/16]	15.88 [5/8]	8/1.00	15/0.99	15/0.98	15/0.97	15/0.96	15/0.95	
2 Ton* SEE	9.53 [3/8]	15.88 [5/8]	8/1.00	15/0.99	15/0.98	15/0.97	15/0.96	15/0.95	
NOTE 3	6.35 [1/4]	19.05 [3/4]**	8/1.00	15/0.99	10/0.99	12/0.99	NR	NR	
	7.94 [5/16]	19.05 [3/4]**	8/1.00	15/0.99	15/0.99	15/0.99	15/0.99	15/0.98	
	9.53 [3/8]	19.05 [3/4]**	8/1.00	15/0.99	15/0.99	15/0.99	15/0.99	15/0.98	
	7.94 [5/16]	15.88 [5/8]	8/0.99	15/0.97	15/0.95	15/0.93	11/0.91	NR	
	9.53 [3/8]	15.88 [5/8]	8/0.99	15/0.97	15/0.95	15/0.93	15/0.91	NR	
3 Ton	7.94 [5/16]	19.05 [3/4]	8/1.00	15/0.99	15/0.99	15/0.98	11/0.97	7/0.96	
	9.53 [3/8]	19.05 [3/4]	8/1.00	15/0.99	15/0.99	15/0.98	15/0.97	15/0.96	
	12.70 [1/2]	19.05 [3/4]	8/1.00	15/0.99	15/0.99	15/0.98	15/0.97	15/0.96	
	9.53 [3/8]	19.05 [3/4]	8/0.99	15/0.98	15/0.97	15/0.96	15/0.94	15/0.93	
4 Ton	12.70 [1/2]	19.05 [3/4]	8/0.99	15/0.98	15/0.97	15/0.96	15/0.94	15/0.93	
4 1011	9.53 [3/8]	22.23 [7/8]	8/1.00	15/0.99	15/0.99	15/0.98	15/0.98	15/0.97	
	12.70 [1/2]	22.23 [7/8]	8/1.00	15/0.99	15/0.99	15/0.98	15/0.98	15/0.97	
	9.53 [3/8]	19.05 [3/4]	8/0.99	15/0.97	15/0.95	15/0.93	15/0.91	NR	
E Ton	12.70 [1/2]	19.05 [3/4]	8/0.99	15/0.97	15/0.95	15/0.93	15/0.91	NR	
5 Ton	9.53 [3/8]	22.23 [7/8]	8/1.00	15/0.99	15/0.98	15/0.98	15/0.97	12/0.96	
	12.70 [1/2]	22.23 [7/8]	8/1.00	15/0.99	15/0.98	15/0.98	15/0.97	15/0.97	

- 1) Do not exceed 46 meters linear line length.
 2) *Do not exceed 15 meters vertical separation between indoor and outdoor units.
 3) **19.05mm [3/4 in.] vapor line should only be used for 2 ton systems if outdoor unit is below or at same level as indoor unit 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 recond propriet in the condition of the conditio Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed

Performance Data @ AHRI Standard Conditions - Cooling

DESIGNATED TESTED	DESIGNATED TESTED COMBINATION (DTC)													
OUTDOOR UNIT	INDOOR COIL	TOTAL CAPACITY BTU/H [KW]	NET SENSIBLE BTU/H [KW]	NET LATENT BTU/H [KW]	SEER2	EER2	INDOOR CFM [L/S]							
FOC1824MJAZCA1	FHRNVM2421HJZECA	22,400 [6.6]	17,200 [5.0]	5,200 [1.5]	18.0	10.5	825 [389.4]							
FOC1836MJAZCA1	FHRNVM6021SJZECA	34,600 [10.1]	25,800 [7.6]	8,800 [2.6]	18.0	10.5	1,225 [578.1]							
FOC1848MJAZCA1	FHRNVM6021SJZECA	45,000 [13.2]	32,600 [9.6]	12,400 [3.6]	18.0	10.5	1,575 [743.3]							
FOC1860MJAZCA1	FHRNVM6024SJZECA	55,000 [16.1]	40,200 [11.8]	14,800 [4.3]	18.0	10.5	1,650 [778.7]							

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

Integrated Controls



EcoNet® is smart, technology that allows Heating and Cooling, products to communicate with each other on one integrated network.

THE ECONET® SMART THERMOSTAT

BUILT-IN WIFI

4.3" LCD TOUCH SCREEN

LOCAL WEATHER - Current conditions plus 6-day forecast

5 OPERATING MODES - Heat, Cool, Auto, Emergency Heat and Fan Only

7-DAY PROGRAMMABLE SCHEDULE - Offers comfort without thought

ONE-TOUCH AWAY – Quickly switch to your energy-saving away preferences

VACATION SCHEDULING - Allows you to save while you're away and come home to comfort

STANDBY SCREEN – Displays indoor temperature and current weather



CETST800SYS

OPERATIONAL FEATURES

AUTOMATIC CHANGEOVER - Transitions between heating and cooling automatically to keep the house comfortable

INTEGRATED WATER CONTROL – Enables easy water heater management

SMOOTH ARRIVAL - Prompts the system to start ahead of schedule to ensure the home is at the desired temperature at the scheduled time

HUMIDITY CONTROL – Supports humidifier accessories or over-cool based dehumidification

DETAILED OPERATING STATUS – View pertinent equipment status information and run times

CONTINUOUS FAN – Offers 5 speeds (Low, Medium Low, Medium, Medium High, High)

SHORT-CYCLE PROTECTION - Avoids damage to equipment from short run cycles

MONITORING & REMOTE CONTROL FEATURES

ACTIVE MONITORING – Alerts to problems that need immediate attention

REMOTE CONTROL – Allows adjusting of comfort and settings from anywhere using a mobile device

SERVICE ALERTS – Sends routine maintenance reminders

AIR FILTER MONITORING - Detects when it's time to replace the air filter

ALARM HISTORY – Displays time-stamped alarm codes with clear descriptions



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.

*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 Unit Replacement (Registration Required)......Ten (10) Years PartsTen (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."