

Samsung FJM Series, 3 Port Condensing Unit

Job Name _____
Purchaser _____
Submitted to _____
Unit Designation _____

Location _____
Engineer _____
Reference _____ Approval _____ Construction _____
Schedule # _____

Model	US Code	JXH24J3B
	Model Number	AJ024BXJ3CH/AA

Performance*	Capacity (standard / max.)	Cooling (Btu/h)	22,000 / 22,000
		Heating (Btu/h)	25,000 / 29,600
	Minimum Cooling Capacity (Btu/h)		6,500
	Minimum Heating Capacity (Btu/h)		4,300
	SEER (Ducted / Mixed / Non-ducted)		17.0 / 18.0 / 19.0
	EER (Ducted / Mixed / Non-ducted)		10.1 / 11.4 / 12.7
	HSPF (Ducted / Mixed / Non-ducted)		9.0 / 9.5 / 10.0

Power	Voltage	(ø)V/Hz	1 / 208-230 / 60
	Nominal Current ¹	Cooling (A)	8.3
		Heating (A)	8.5
	Max. Breaker	Amps	25
	Minimum Circuit Ampacity (A)		19.5

Dimensions	W X H X D	Inches	34 5/8 X 31 7/16 X 12 3/16
	Weight	lbs.	125.7

Noise Level	Cooling (Max.)	dB (A)	48
	Heating (Max.)	dB (A)	51

Operating Temperatures	Cooling	14 ~ 114.8°F (-10 ~ 46.0°C)
	Heating	5 ~75°F (-15 ~ 24.0°C)

Pipe Connections	High Side	1/4" X 3
	Low Side (suction)	3/8" X 1 + 1/2" X 2
	Maximum Individual Line Set Length	82 ft
	Maximum Line Set Length (total)	230 ft
	Maximum Vertical Separation	Outdoor to Indoor 49 ft
		Highest to Lowest Indoor 25 ft
	Included Pipe Adapter	2 - 1/2" X 3/8"

Condenser Fan	Motor	BLDC With Propeller Fan (1)
	Output	Watts / FLA 125 / 1.28
		CFM 1,667

Compressor	Type	Twin BLDC Rotary Inverter
	RLA	Amps 13.3

Heat Exchanger	Type	Aluminum Fin - Copper Tube
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Refrigerant	Type	R410A
	Control Method	Electronic Expansion Valve
	Factory Charge	93.44 oz
	Charged for	131 ft
	Additional Refrigerant	0.11 oz/ft over 131 ft

Accessories	Wall Bracket	CKN-250
	Wind Baffle	Front WBF-7M
		Back WBB-7M-B

Certifications	Safety	ETL (UL 1995)
	AHRI Certification Number	Non-Ducted 207349915
		Ducted 207350071
		Mixed 207350089

Warranty	10 Years compressor, 10 year parts, 1 year limited labor (registration required)
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* Certified in accordance with the AHRI Unitary Small Air-Source Heat Pumps (USHP) Certification Program which is based on the latest edition of AHRI Standard 210/240. Refer to www.ahridirectory.org for current reference numbers.

¹ Rated current is based on highest combination ratio of non-ducted indoor units.

Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.



- Auto or manual addressing of indoor units
- The outdoor unit shall supply power individually to the indoor units via 14 AWG X 3 power wire
- Soft-start to reduce current demand during compressor start
- Auto-restart after power loss
- System can be set up as heating/cooling, cooling only, or heating only via outdoor unit option setting.
- Available maximum current setting option to reduce maximum operating current.
- System energy consumption can be viewed using Samsung SmartThings mobile app (not revenue grade, for reference only).

Construction

The outdoor unit shall be galvanized steel with abaked on powder coated finish for durability

Heat Exchanger

The heat exchanger shall be mechanically bonded fin to copper tube

Controls

Control signal shall be a DDC type signal

Interconnect control wire between outdoor and indoor units shall be 16AWG X 2

The system shall integrate with the Samsung Controls Solution without the use of an interface module.

Refrigerant System

The refrigerant shall be R410A

The compressor shall be hermetically sealed, inverter controlled, Twin BLDC Rotary

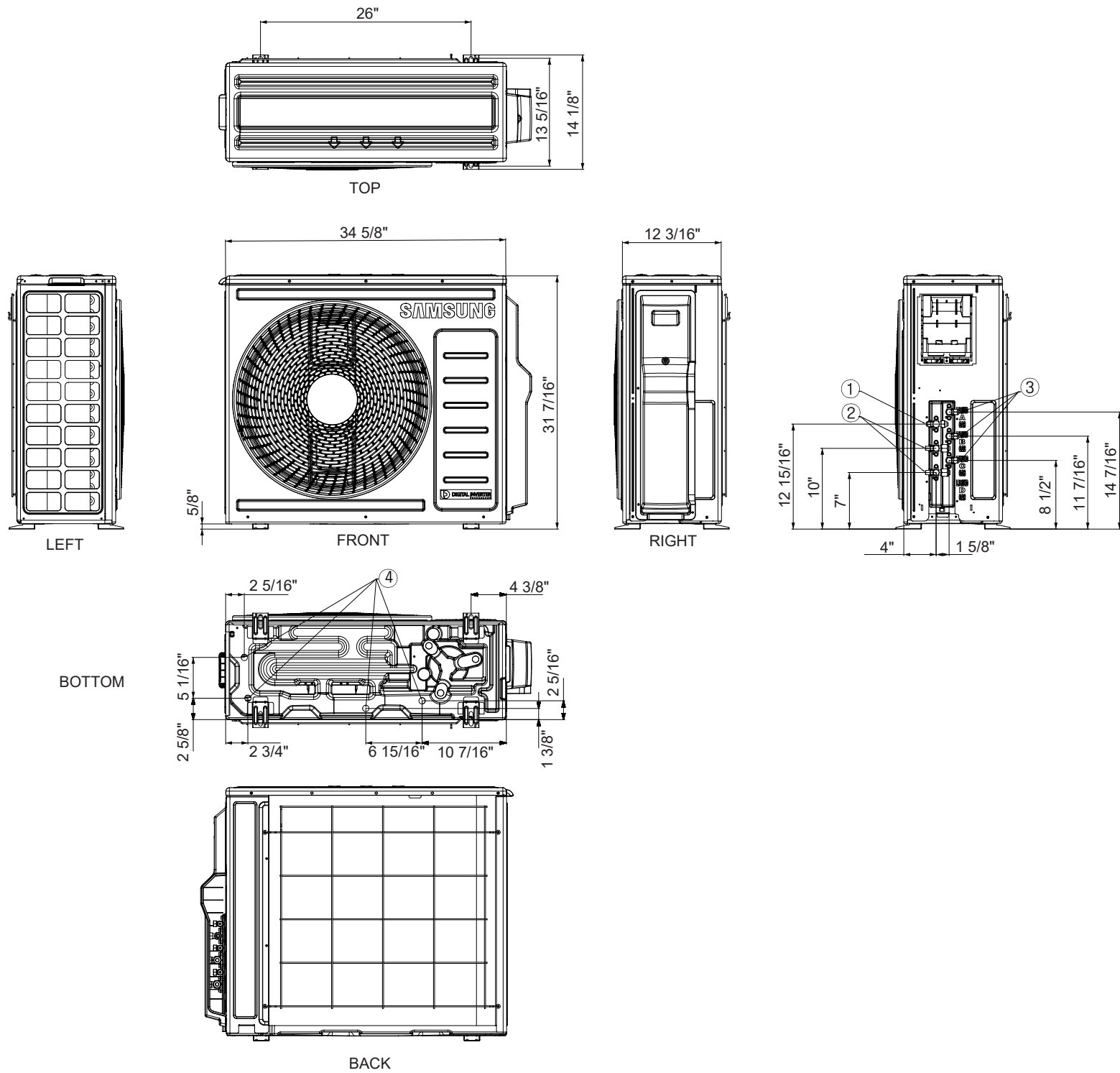
Refrigerant flow shall be controlled by 3 separate electronic expansion valves at outdoor unit

Compatibility

Will only operate with Samsung evaporator model numbers:
AR**TSFABWKNCV (RNS**ABT): 7,000 - 18,000 Btu/h models
AR**BSFCMWKNCV (RNS**CMB): 7,000 - 18,000 Btu/h models
AR**TSFYBWKNCV (RNS**YBT): 7,000 - 18,000 Btu/h models
ACO**BNNDCH/AA (CNH**NDB): 9,000 - 18,000 Btu/h models
ACO**BN1DCH/AA (CNH**1DB): 9,000 - 12,000 Btu/h models
ACO**BNJDCH/AA (CNH**JDB): 9,000 - 18,000 Btu/h models
ACO**BNLDCH/AA (CNH**LDB): 9,000 - 18,000 Btu/h models
ACO**BNZDCH/AA (CNH**ZDB): 12,000 - 18,000 Btu/h models
AJ0**BNHDCH/AA (JNH**HDB): 9,000 - 18,000 Btu/h models

Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details or visit www.energystar.gov.





No.	Name	Description
1	Refrigerant suction pipes	ø3/8" x 1 each
2		ø1/2" x 2 each
3	Refrigerant liquid pipes	ø1/4" x 3 each
4	Drain holes	Connection with provided drain fitting

Indoor Unit Connection Options

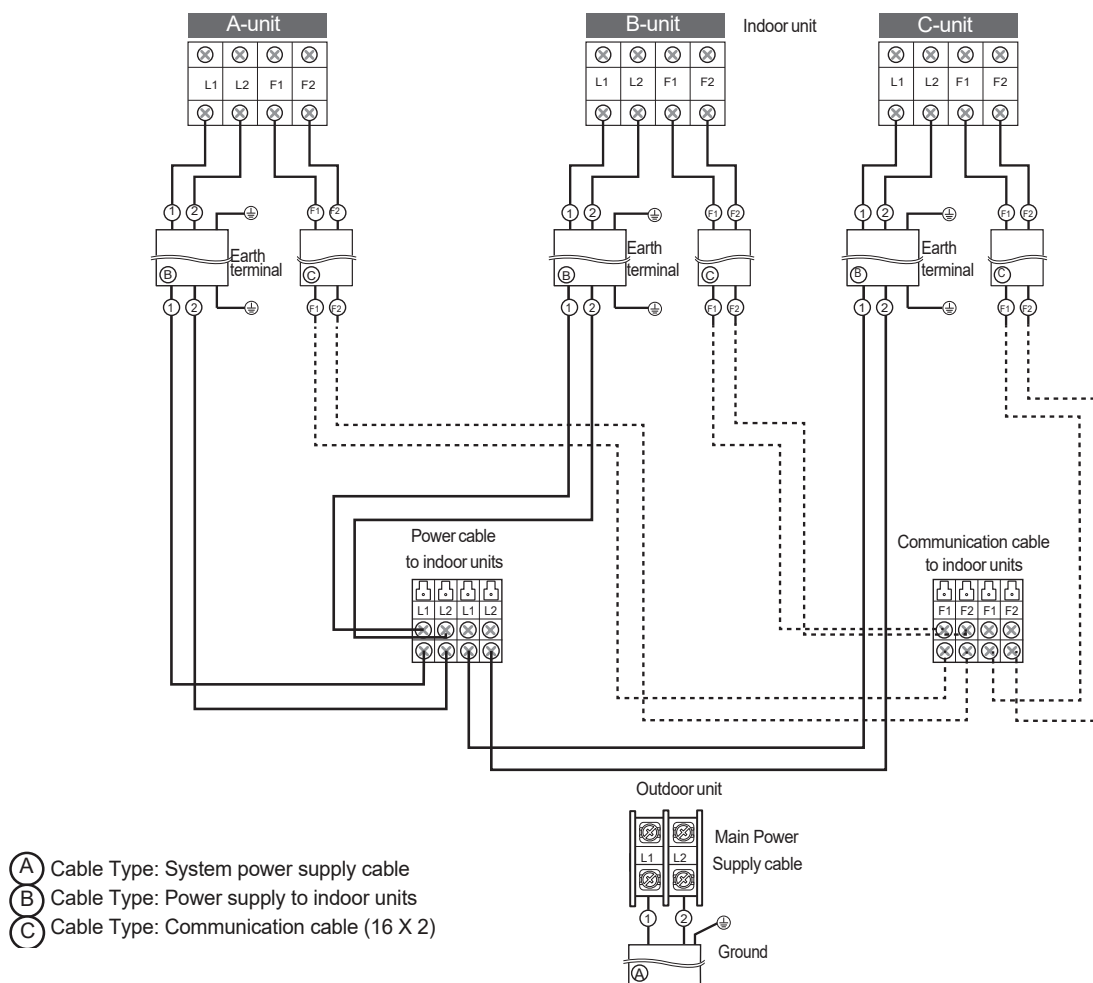
Indoor unit Capacity (Btu/h)			
	A	B	C
2 Indoor Units	7,000	7,000	
	7,000	9,000	
	7,000	12,000	
	7,000	15,000	
	7,000	18,000	
	9,000	9,000	
	9,000	12,000	
	9,000	15,000	
	9,000	18,000	
	12,000	12,000	
	12,000	15,000	
	12,000	18,000	
	15,000	15,000	
3 Indoor Units	7,000	7,000	7,000
	7,000	7,000	9,000
	7,000	7,000	12,000
	7,000	7,000	15,000
	7,000	9,000	9,000
	7,000	9,000	12,000
	7,000	9,000	15,000
	9,000	9,000	9,000
	9,000	9,000	12,000

Must have a minimum of 2 indoor units connected. Will only operate with Samsung evaporator model numbers listed below:

AR**TSFABWKNCV (RNS**ABT): 7,000 - 18,000 Btu/h models
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ATTENTION: When connecting MPAH (AC0**BNZDCH/AA) and Duct S (AJ0**BNHDCH/AA) indoor units the sum of the connected indoor unit capacity is reduced. Other conditions apply. Refer to engineering manuals/technical data books and installation manuals for more information.

Basic Wire Connection Diagram



This simple wiring diagram is for reference only. Please refer to installation manuals for full details and requirements.