

## 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 <sup>1</sup>	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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- 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 baked 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  
 AC0\*\*BNNDCH/AA (CNH\*\*NDB): 9,000 - 18,000 Btu/h models  
 AC0\*\*BN1DCH/AA (CNH\*\*1DB): 9,000 - 12,000 Btu/h models  
 AC0\*\*BNJDCH/AA (CNH\*\*JDB): 9,000 - 18,000 Btu/h models  
 AC0\*\*BNLDCH/AA (CNH\*\*LDB): 9,000 - 18,000 Btu/h models  
 AC0\*\*BNZDCH/AA (CNH\*\*ZDB): 12,000 - 15,000 Btu/h models  
 AJ0\*\*BNHDCH/AA (JNH\*\*HDB): 9,000 - 15,000 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](http://www.energystar.gov).

\* 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](http://www.ahridirectory.org) for current reference numbers.

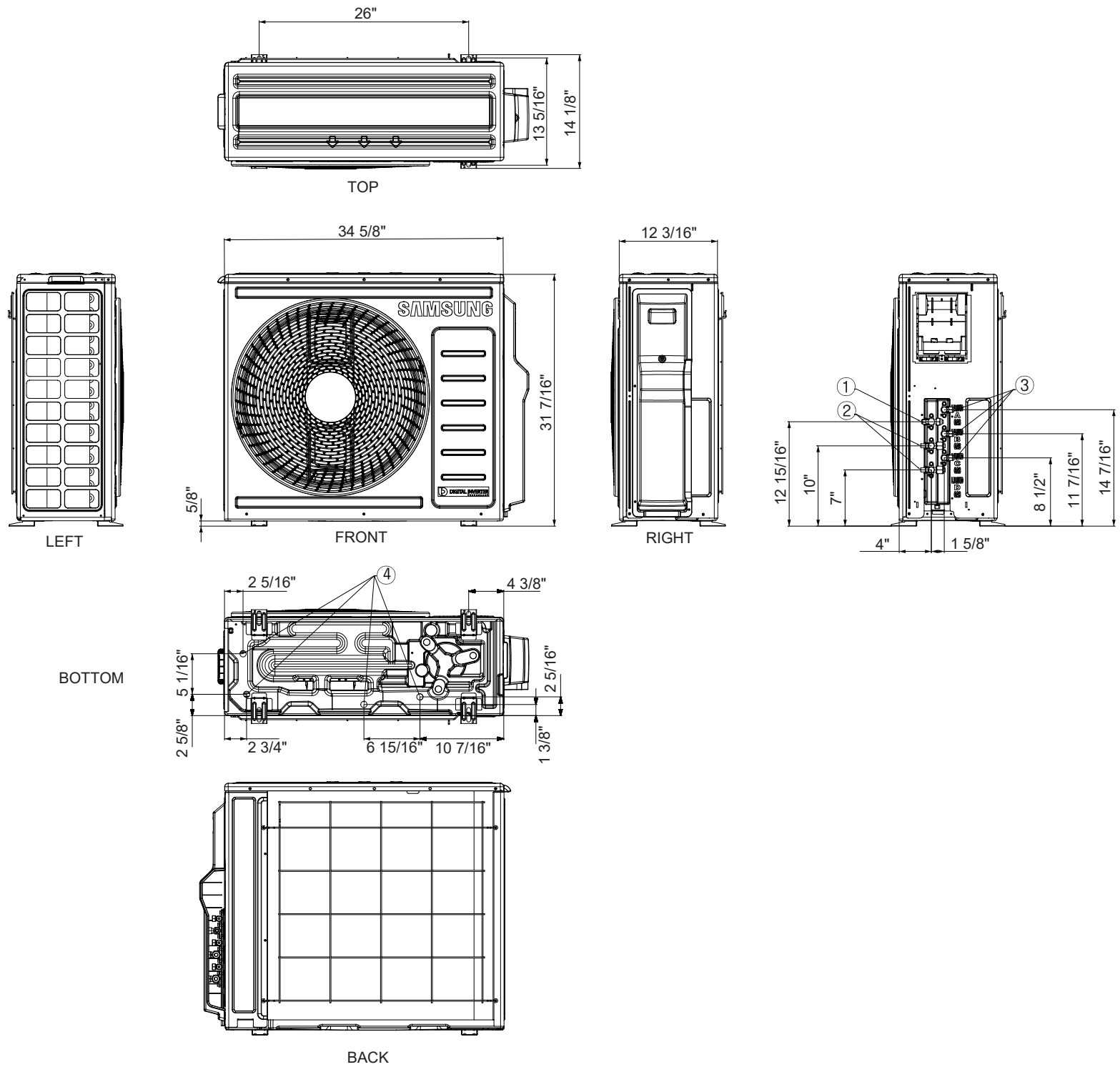
<sup>1</sup>Rated current is based on highest combination ratio of non-ducted indoor units.

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



## Samsung FJM, 3 Port Condensing Unit

Dimensional drawing



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

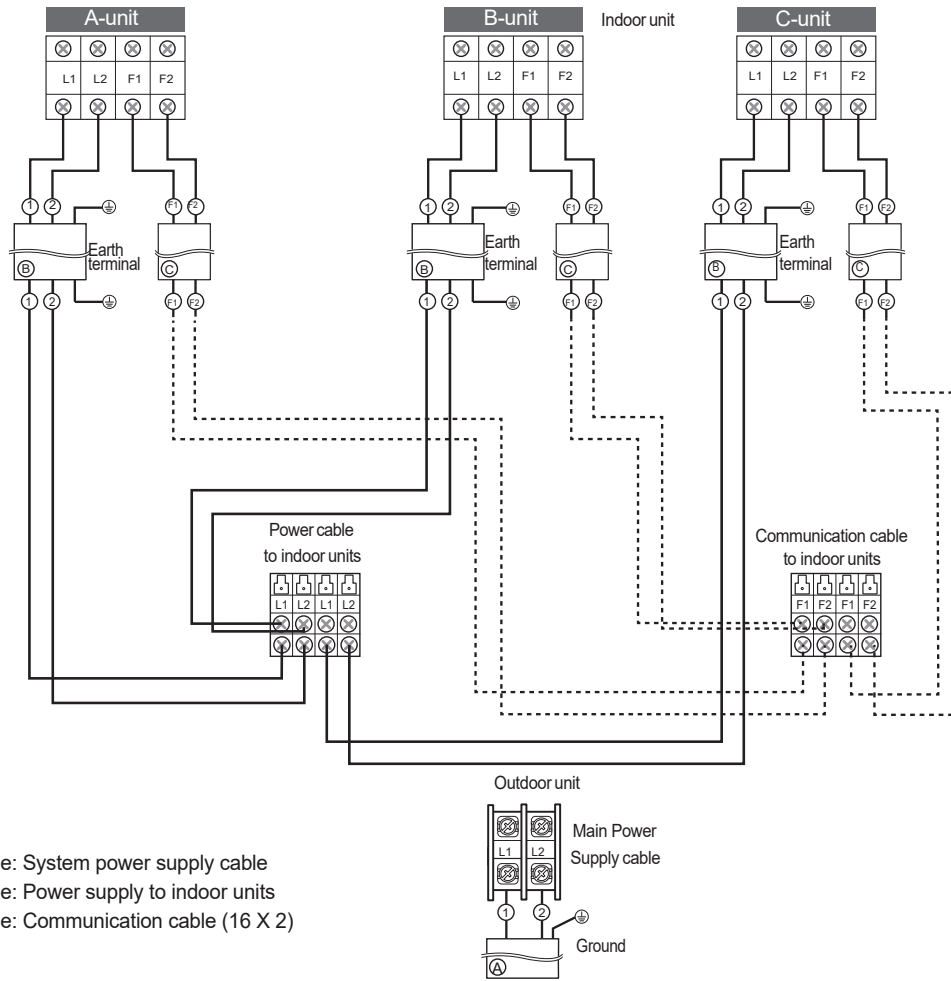
Unit Qty.	Indoor Nominal Capacity (K Btu/h)			Duct S / MPAH Compatibility*		Connected Capacity (K Btu/h)
	A	B	C	Duct S	MPAH	
2	7	7				14
	7	9		•		16
	7	12		•	•	19
	7	15		•		22
	7	18				25
	9	9		•		18
	9	12		•	•	21
	9	15		•		24
	9	18				27
	12	12		•	•	24
	12	15				27
	12	18				30
3	7	7	7			21
	7	7	9			23
	7	7	12			26
	7	7	15			29
	7	9	9			25
	7	9	12			28
	7	9	15			31
	9	9	9			27
	9	9	12			30

\* Combatale combination that includes 1 X MPAH (AC0\*\*BNZDCH/AA) OR 1 X Duct S (AJ0\*\*BNHDCH/AA) unit.

**Notes**

1. Only 1 X MPAH (AC0\*\*BNZDCH/AA) OR 1 X Duct S (AJ0\*\*BNHDCH/AA) unit can be connected to a single FJM outdoor unit.
2. Applies to outdoor units manufactured after 4/30/2022.
3. Refer to supporting technical data book (TDB) for indoor unit compatibility available at [www.SamsungHVAC.com](http://www.SamsungHVAC.com).

## Basic Wire Connection Diagram



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