Samsung FJM Series, 3 Port Condensing Unit

Job Name	Location				
Purchaser	Engineer				
Submitted to	Reference	Approval	Construction		
Unit Designation	Schedule #				

Model	US Code		JXH24J3B	
iviodei	Model Number		AJ024BXJ3CH/AA	
	Capacity	Cooling (Btu/h)	6,500 / 22,000 / 22,000	
	(min. / standard / max.)		4,300 / 25,000 / 29,600	
			17.0 / 18.0 / 19.0	
	SEER (Ducted / Mixed / Non-ducted) ¹ EER (Ducted / Mixed / Non-ducted) ¹		10.1 / 11.4 / 12.7	
Performance	HSPF (Ducted / Mixed / Non-ducted) ¹		9.0 / 9.5 / 10.0	
	SEER2 (Ducted / Mixed / Non-ducted) ²		17.5 / 18.5 / 19.5	
	EER2 (Ducted / Mixed / Non-ducted) ²		10.1 / 11.4 / 12.7	
	HSPF2 (Ducted / Mixed / Non-ducted) ²		8.2 / 8.5 / 8.8	
	Voltage	(a/\/ \\\\\\\	1 / 208-230 / 60	
	Voltage	(ø/V/Hz) Cooling (A)		
Power	Nominal Current ³		8.3	
Powei	May Drasker	Heating (A)	8.5	
	Max. Breaker Amps		25	
	Minimum Circuit Ampaci	ıy (A)	19.5	
Dimensions	WXHXD	Inches	34 5/8 X 31 7/16 X 12 3/16	
חייוופוופוטוטוופ	Weight	lbs.	125.7	
Noise Level	Cooling (Max.)	dB (A)	48	
	Heating (Max.)	dB (A)	51	
Operating	Cooling		14 ~ 114.8°F (-10 ~ 46.0°C)	
Temperatures	Heating		5 ~75°F (-15 ~ 24.0°C)	
•			1/4" X 3	
	High Side			
	Low Side (suction)		3/8" X 1 + 1/2" X 2 82 ft	
Pipe	Maximum Individual Line			
Connections	Maximum Line Set Length (total)		230 ft 49 ft	
	Maximum Vertical Separation	Outdoor to Indoor Highest to Lowest Indoor	49 ft 25 ft	
	Included Pipe Adapter	Highest to Lowest Indoor	2 - 1/2" X 3/8"	
	moldded i ipe Adaptei		Z - 1/2 X 3/0	
	Motor		BLDC With Propeller Fan (1	
Condenser Fan	Output	Watts / FLA	125 / 1.28	
	Catput	CFM	1,667	
0	Туре		Twin BLDC Rotary Inverter	
Compressor	RLA Amps		13.3	
Heat Exchanger	Туре		Aluminum Fin - Copper Tube	
	Туре		R410A	
	Control Method		Electronic Expansion Valve	
Refrigerant	Factory Charge		93.44 oz	
	Charged for		131 ft	
	Additional Refrigerant		0.11 oz/ft over 131 ft	
Accessories	Wall Bracket		CKN-250 WBF-7M	
Accessories	Wind Baffle	Front Back	WBB-7M-B	
		Daok	4 A D D - 1 IAI - D	
Certifications	Safety		ETL (UL 60335-2-40)	

- ¹Performance data certified by AHRI to AHRI 210-240 (2017) with Addendum 1.
- ²Performance data certified by AHRI to AHRI 210-240 (2023). Effective January 1st, 2023.
- ³Rated current based on highest combination ratio of non-ducted indoor units.

This publication reflects both the 1987 Appendix M metric (SEER) and the 2023 Appendix M1 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy metrics.

Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.

888-699-6067



General Information

- Auto or manual addressing of indoor units
- The outdoor unit shall supply power individually to the indoor units via 14/3 AWG power wire
- Auto-restart after power loss
- Available maximum current setting option to reduce operating current
- System energy consumption can be viewed using Samsung SmartThings mobile app (not revenue grade, for reference only)
- Soft-start to reduce current demand during compressor start
- Optional snow accumulation prevention setting to prevent snow drifting against idle outdoor units

Construction

 The outdoor unit shall be galvanized steel with a 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
- Interconnecting control wire between outdoor and indoor units shall be 16/2 AWG
- The system shall integrate with 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 Rotary BLDC
- Refrigerant flow shall be controlled by 3 separate electronic expansion valves at outdoor unit

Compatibility

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**BNLDCH/AA (CNH**LDB): 9,000 – 18,000 Btu/h models AC012BNZDCH/AA (CNH*ZDB)

AJ0**BNHDCH/AA (JNH**HDB): 9,000 - 15,000 Btu/h models

Refer to the engineering Technical Data Book for allowed indoor unit combinations

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

Note: Qualification for ENERGYSTAR requires use of non-ducted indoor units.

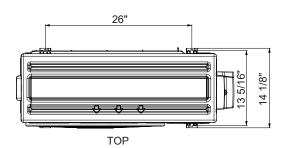


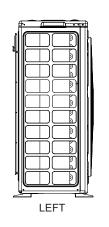


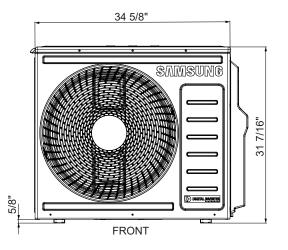


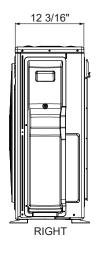
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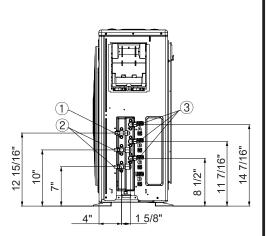
Dimensional drawing



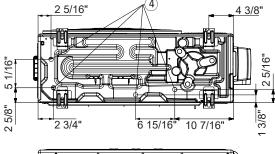


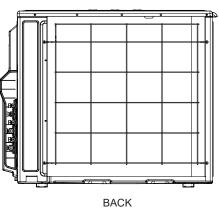






воттом





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



SUBMITTAL AJ024BXJ3CH/AA (JXH24J3B)

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Indoor unit connection options

Indoor Unit Connection Options

Unit	Indoor Nominal Capacity (K Btu/h)		Duct S / MPAH Compatibility*		Connected Capacity	
Qty.	Α	В	С	Duct S	MPAH	(K Btu/h)
	7	7				14
	7	9		•		16
	7	12		•	•	19
	7	15		•		22
	7	18				25
	9	9		•		18
2	9	12		•	•	21
	9	15		•		24
	9	18				27
	12	12		•	•	24
	12	15				27
	12	18				30
	15	15				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

^{*} Combatable combination that includes 1 X MPAH (AC0**BNZDCH/AA) OR 1 X Duct S (AJ0**BNHDCH/AA) unit.

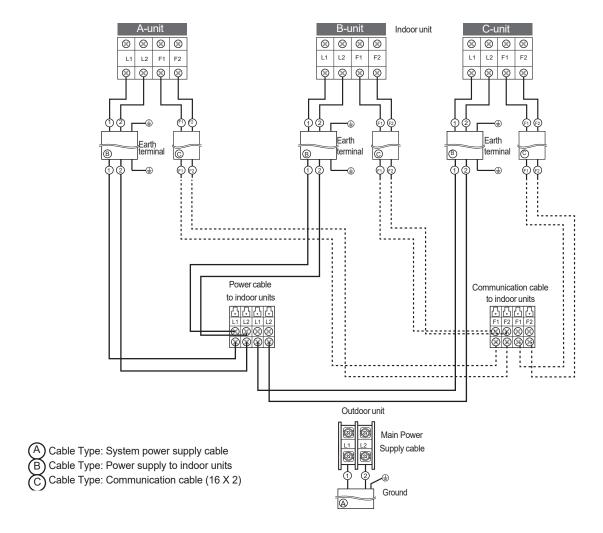
Notes

- 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.

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Wiring example

Basic Wire Connection Diagram



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