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

	US Code	JXH24J3B							
Model	Model Number	AJ024BXJ3CH/AA							
	Capacity ¹	6,500 / 22,000 / 27,600							
	(min. / standard / max.)	Cooling (Btu/h) ¹ Heating (Btu/h) ¹	4,300 / 25,000 / 31,300						
	SEER (Ducted / Mixed		17.0 / 18.0 / 19.0						
	EER (Ducted / Mixed / I		10.1 / 11.4 / 12.7						
Performance	HSPF (Ducted / Mixed /	· · · · · · · · · · · · · · · · · · ·	9.0 / 9.5 / 10.0						
	SEER2 (Ducted / Mixed	d / Non-ducted) ³	17.5 / 18.5 / 19.5						
	EER2 (Ducted / Mixed /	Non-ducted) 3	10.1 / 11.4 / 12.7						
	HSPF2 (Ducted / Mixed	I / Non-ducted) 3	8.2 / 8.5 / 8.8						
	Voltage	(ø/V/Hz)	1 / 208-230 / 60						
		Cooling (A)	8.3						
Power	Nominal Current ⁴	Heating (A)	8.5						
	Max. Breaker	Amps	25						
	Minimum Circuit Ampac	19.5							
Dimensions	WXHXD	Inches	34 5/8 X 31 7/16 X 12 3/16						
Dimensions	Weight	lbs.	125.7						
NI-: II	Cooling (Max.)	dB (A)	48						
Noise Level	Heating (Max.)	dB (A)	51						
Operating	Cooling		14 ~ 114.8°F (-10 ~ 46.0°C						
Temperatures	Heating		5 ~75°F (-15 ~ 24.0°C)						
	High Side	1/4" X 3							
	Low Side (suction)	3/8" X 1 + 1/2" X 2							
Dina	Maximum Individual Line	82 ft							
Pipe Connections	Maximum Line Set Leng	230 ft							
	Maximum Vertical	Outdoor to Indoor	49 ft						
	Separation	Highest to Lowest Indoor	25 ft						
	Included Pipe Adapter		2 - 1/2" X 3/8"						
	Motor		BLDC With Propeller Fan (1						
Condenser Fan	Output	Watts / FLA	125 / 1.28						
	Cutput	CFM	1,667						
Compressor	Туре		Twin BLDC Rotary Inverter						
Compressor	RLA	Amps	13.3						
Heat Exchanger	Туре		Aluminum Fin - Copper Tub						
	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							
	Wall Bracket		CKN-250						
Accessories	Wind Roffle	Front	WBF-7M						
	Wind Baffle	Back	WBB-7M-B						
Certifications	Safety	<u> </u>	ETL (UL 60335-2-40)						

¹ Standard capacity is based on non-ducted rated capacity. Minimum and maximum capacity will vary based on connected indoor unit type, capacity, and quantity along with indoor and outdoor temperatures. Refer to system capacity tables for full capacity details.

- ² Performance data certified by AHRI to AHRI 210-240 (2017) with Addendum 1
- 3 Performance data certified by AHRI to AHRI 210-240 (2023). Effective January 1st, 2023
- 4 Rated 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

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

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



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
- 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

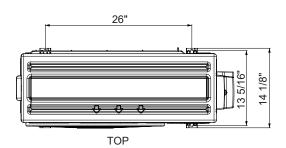
- Control signal shall be a DDC type signal
- · Interconnecting control wire between outdoor and indoor units shall
- The system shall integrate with Samsung Controls Solution without the use of an interface module

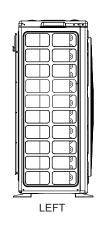
Refrigerant System

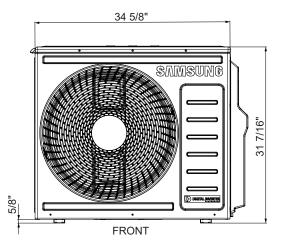
- The refrigerant shall be R410A
- The compressor shall be hermetically sealed, inverter controlled,
- Refrigerant flow shall be controlled by 3 separate electronic expansion valves at outdoor unit

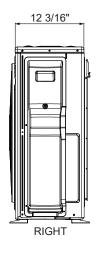


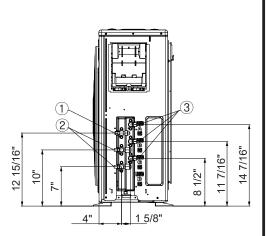
Dimensional drawing



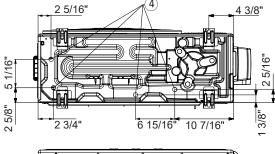


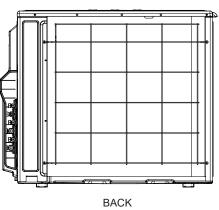






воттом





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							

Indoor unit connection options

Indoor Unit Connection Options

Unit Qty.		or Nom		Duc MPAH Cor	Connected Capacity						
Gty.	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					
	7	7	7			21					
	7	7	9			23					
	7	7	12			26					
	7	7	15			29					
3	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.

	Indoor Unit Series																													
	WindFree [™] 3.0 RNS**A*C (AR**CSDA*WKNXCV)					WindFree [™] 3.0e RNS**CMC (AR**CSFCMWKNXCV)				WindFree TM 3.0i RNS**CPC (AR**CSKCPWKNXCV)					WindFree [™] 2.0 RNS**ABT (AR**TSFABWKNCV)						WindFree TM 2.0e RNS**CMB (AR**BSFCMWKNCV)									
	7	9	12	15	18	24	7	9	12	15	18	24	7	9	12	15	18	24	7	9	12	15	18	24	7	9	12	15	18	24
JXH20J2B (AJ020BXJ2CH/AA)	•	•	•	•			•	•	•	•			•	•	•	•			•	•	•	•			•	•	•	•		
JXH24J3B (AJ024BXJ3CH/AA)	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•		•	•	•	•	•		•	•	•	•	•	
JXH36J4B (AJ036BXJ4CH/AA)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
JXH48J5B (AJ048BXJ5CH/AA)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

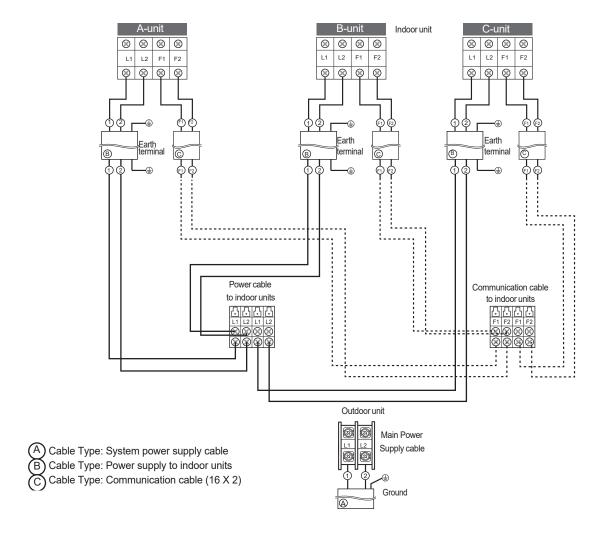
	Indoor Unit Series																			
	CNH ¹	e [™] 1 Way **1DB 1DCH/AA)	WindFree TM 4Way (2x2) CNH**NDB (AC***BNNDCH/AA)			(Slim Duc CNH**LDI **BNLDCI	3	(AJ		t S *HDB HDCH/A	√ A)		CNH	sole 8JDB JDCH/		MPAH CNH**ZDB (AC***BNZDCH/AA)			
	9	12	9	12	18	9	12	18	9	12	15	18	9	12	15	18	12	18	24	
JXH20J2B (AJ020BXJ2CH/AA)	•	•	•	•		•	•		0	0			•	•	•		0			
JXH24J3B (AJ024BXJ3CH/AA)	•	•	•	•	•	•	•	•	0	0	0		•	•	•	•	0			
JXH36J4B (AJ036BXJ4CH/AA)	•	•	•	•	•	•	•	•	0	0	0	0	•	•	•	•	0	0		
JXH48J5B (AJ048BXJ5CH/AA)	•	•	•	•	•	•	•	•	0	0	0	0	•	•	•	•	0	0	0	

Notes

- 1. 2.0(e) and 3.0(e)(i) series may be mixed on the same system.
- Compatible
- O Only (1) Duct S or (1) MPAH may be connected to the same system. Refer to supporting technical data book (TDB) for complete compatibility, available at www.SamsungHVAC.com.

Wiring example

Basic Wire Connection Diagram



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