

Job Name

Purchaser

Submitted to

Unit Designation

Location

Engineer

Reference

Schedule #

Approval

Construction

Model	US Code		JXH24S4B
	Model Number		AJ024BXS4CH/AA
Performance	Capacity (min. / standard / max.)	Cooling (Btu/h)	6,500 / 25,000 / 25,000
		Heating (Btu/h)	7,500 / 25,000 / 25,000
	Heating Capacity at 5°F OA, 70°F Indoor DB (Btu/h)		25,000
	Heating Capacity at -13°F OA, 70°F Indoor DB (Btu/h)		17,480
	SEER (Ducted / Mixed / Non-ducted) <sup>1</sup>		16 / 17.5 / 19
	EER (Ducted / Mixed / Non-ducted) <sup>1</sup>		10.6 / 11.8 / 13.0
	HSPF (Ducted / Mixed / Non-ducted) <sup>1</sup>		9.5 / 9.75 / 10.0
	SEER2 (Ducted / Mixed / Non-ducted) <sup>2</sup>		17.5 / 18.75 / 20.0
	EER2 (Ducted / Mixed / Non-ducted) <sup>2</sup>		10.6 / 11.8 / 13.0
	HSPF2 (Ducted / Mixed / Non-ducted) <sup>2</sup>		8.3 / 8.65 / 9.0
Power	Voltage	(ø)V/Hz	1 / 208-230 / 60
	Rated Current (amps) <sup>3</sup>	Cooling (A)	9.2
		Heating (A)	8.8
	Max. Breaker	Amps	30
	Minimum Circuit Ampacity (A)		26.0
Dimensions	W X H X D	Inches	37 x 39 5/16 x 13
	Weight	lbs.	173.1
Noise Level	Cooling	dB (A)	54
	Heating	dB (A)	58
Operating Temperatures	Cooling	14 ~ 114.8°F (-10 ~ 46.0°C)	
	Heating	-13 ~75°F (-25 ~ 24.0°C)	
Pipe Connections	High Side		1/4" X 4
	Low Side (suction)		3/8" X 2 + 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 Adapters		2 - 1/2" X 3/8"
Condenser Fan	Motor		BLDC With Propeller Fan (1)
	Output	Watts / FLA	125 / 1.28
		CFM	2,493
Compressor	Type		Twin BLDC Rotary Inverter
	RLA	Amps	18.4
Heat Exchanger	Type		Aluminum Fin - Copper Tube
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge		119.9 oz
	Charged for		131 ft
	Additional Refrigerant		0.22 oz/ft over 131 ft
Accessories	Wall Bracket		CKN-250
	Wind Baffle	Front	WBF-2M-B
		Back	WBB-11M
Certifications	Safety		ETL (UL 60335-2-40)
	ENERGY STAR® Certification		Applies to AHRI non ducted listing
Warranty	10 Years compressor, 10 year parts, 1 year limited labor (registration required)		



- General Information
- The Samsung Max Heat system shall provide high heating capacity at -13°F outside temperature
  - The outdoor unit shall supply power individually to the indoor units via 14 AWG X 3 power wire
  - The outdoor unit shall have a base pan heater as standard to ensure optimal defrost cycle water drainage
  - 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
  - Auto or manual addressing of indoor units

- Construction
- The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

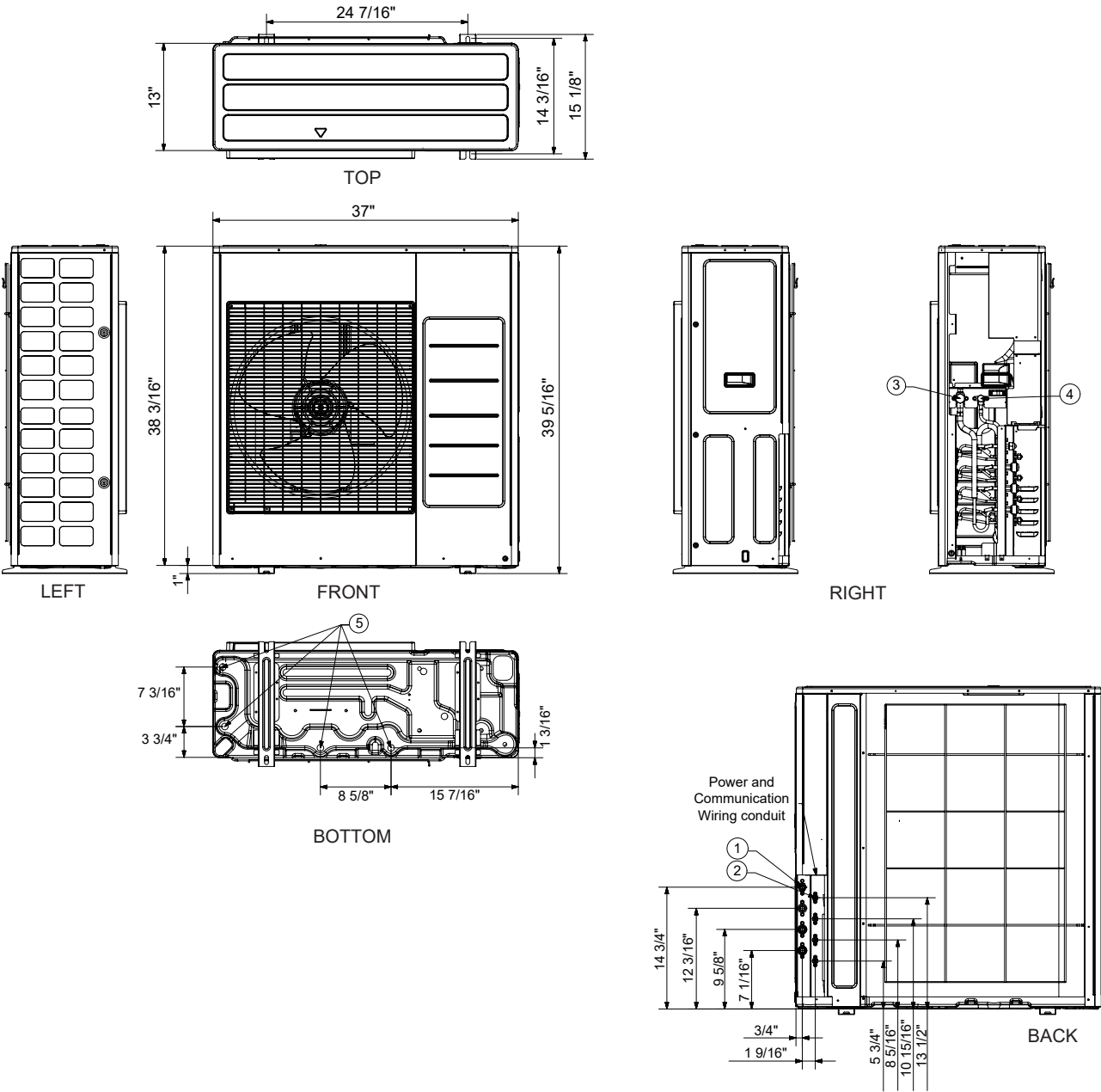
- Heat Exchanger
- The heat exchanger shall be mechanically bonded fin to copper tube

- Controls
- Control signal shall be a DDC type signal
  - Interconnect control wire between outdoor and indoor units shall be 16AWG X 2
  - Controls shall integrate with a BMS system
  - The system shall integrate with the Samsung Controls solution

- Refrigerant System
- The refrigerant shall be R410A
  - The compressor shall be hermetically sealed, inverter controlled, Twin BLDC Rotary
  - Refrigerant flow shall be controlled by 4 separate electronic expansion valves at outdoor unit

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).

Samsung HVAC maintains a policy of ongoing development. Specifications are subject to change without notice. Refer to [www.AHRIdirectory.org](http://www.AHRIdirectory.org) for current reference numbers.



No.	Name	Description
1	Refrigerant suction pipes	ø3/8" x 2, ø1/2" x 2
2	Refrigerant liquid pipes	ø1/4" x 4
3	Service Valve (suction)	5/8"
4	Service Valve (liquid)	3/8"
5	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	D	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
	15	15					30
3	7	7	7				21
	7	7	9		•		23
	7	7	12				26
	7	7	15				29
	7	7	18				32
	7	9	9				25
	7	9	12				28
	7	9	15				31
	7	12	12				31
	9	9	9				27
	9	9	12				30
4	7	7	7	7			28
	7	7	7	9			30
	7	7	9	9			32

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

### Notes

- 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.
- Applies to outdoor units manufactured after 4/30/2022.
- Refer to supporting technical data book (TDB) for indoor unit compatibility available at [www.SamsungHVAC.com](http://www.SamsungHVAC.com).

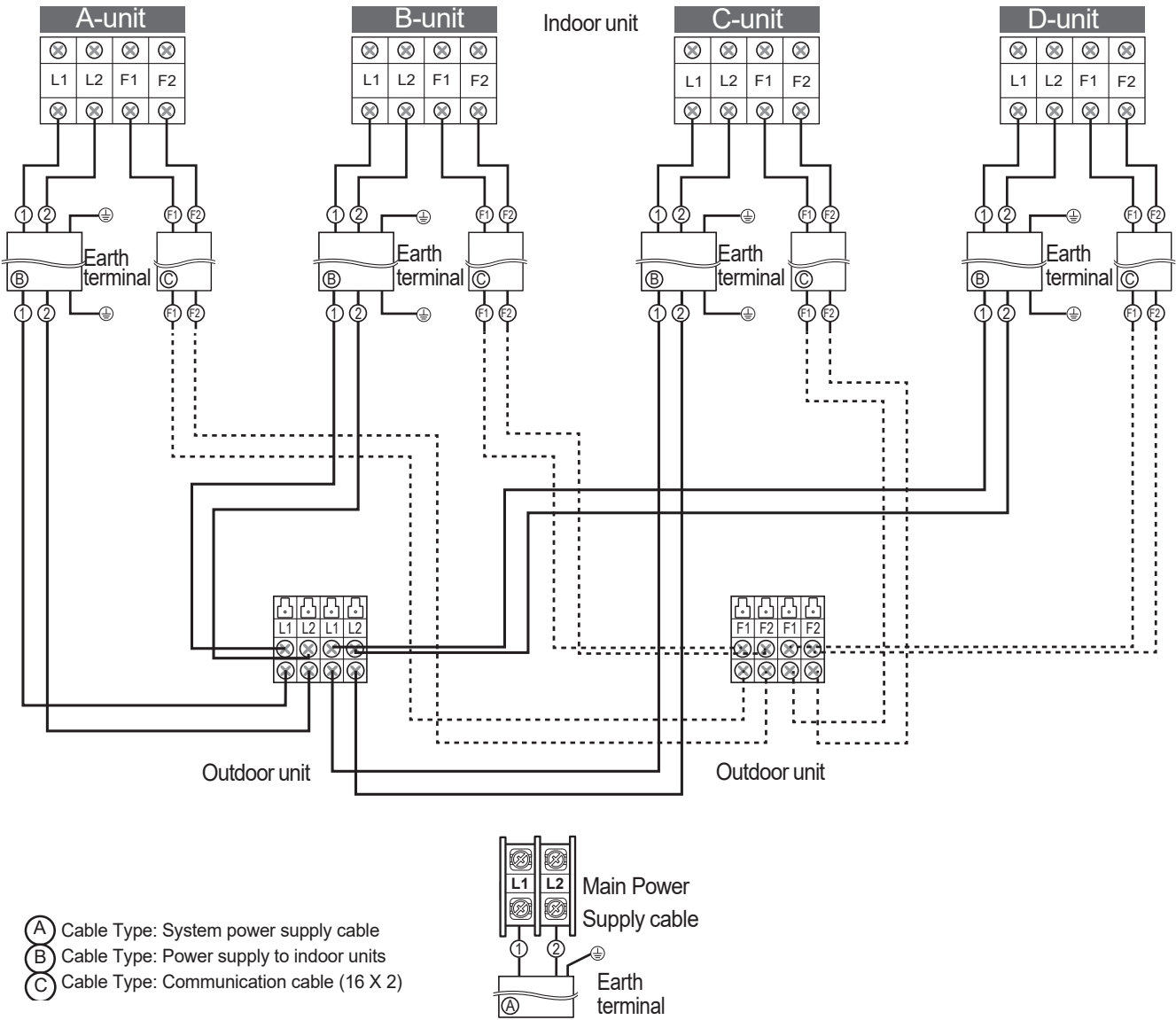
	Indoor Unit Series																													
	WindFree™ 3.0 RNS**A°C (AR**CSDA*WKNXCV)						WindFree™ 3.0e RNS**CMC (AR**CSFCMWKNXCV)						WindFree™ 3.0i RNS**CPC (AR**CSKCPWKNXCV)						WindFree™ 2.0 RNS**ABT (AR**TSFABWKNXCV)						WindFree™ 2.0e RNS**CMB (AR**BSFCMWKNXCV)					
	7	9	12	15	18	24	7	9	12	15	18	24	7	9	12	15	18	24	7	9	12	15	18	24	7	9	12	15	18	24
JXH20S3B (AJ020BXS3CH/AA)	●	●	●	●			●	●	●	●			●	●	●	●			●	●	●	●			●	●	●	●		
JXH24S4B (AJ024BXS4CH/AA)	●	●	●	●	●		●	●	●	●	●		●	●	●	●	●		●	●	●	●	●		●	●	●	●	●	
JXH30S4B (AJ030BXS4CH/AA)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
JXH36S4B (AJ036BXS4CH/AA)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

	Indoor Unit Series																		
	WindFree™ 1 Way CNH**1DB (AC***BN1DCH/AA)		WindFree™ 4Way (2x2) CNH**NDB (AC***BNNDCH/AA)			Slim Duct CNH**LDB (AC***BNLDCH/AA)			Duct S JNH**HDB (AJ***BNHDCH/AA)				Console CNH88JDB (AC***BNJDCH/AA)				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
JXH20S3B (AJ020BXS3CH/AA)	●	●	●	●		●	●		○	○			●	●	●		○		
JXH24S4B (AJ024BXS4CH/AA)	●	●	●	●	●	●	●	●	○	○	○		●	●	●	●	○		
JXH30S4B (AJ030BXS4CH/AA)	●	●	●	●	●	●	●	●	○	○	○	○	●	●	●	●	○	○	
JXH36S4B (AJ036BXS4CH/AA)	●	●	●	●	●	●	●	●	○	○	○	○	●	●	●	●	○	○	○

### Notes

- 2.0(e) and 3.0(e)(i) series may be mixed on the same system.
- Compatible
- 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](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.