

Job Name _____
 Purchaser _____
 Submitted to _____
 Unit Designation _____

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

Model	US Code	JXH20J2T
	Model Number	AJ020TXJ2CH/AA
Performance*	Capacity (standard / max.)	Cooling (Btu/h) 18,000 / 18,000 Heating (Btu/h) 22,000 / 26,400
	Minimum Cooling Capacity (Btu/h)	5,500
	Minimum Heating Capacity (Btu/h)	3,500
	SEER (Ducted / Mixed / Non-ducted)	18.0 / 18.75 / 19.5
	EER (Ducted / Mixed / Non-ducted)	11.1 / 11.9 / 12.7
	HSPF (Ducted / Mixed / Non-ducted)	9.5 / 9.75 / 10.0
Power	Voltage	(ø/V/Hz) 1 / 208-230 / 60
	Rated Current (amps) ¹	Cooling (low / std. / max.) 2.2 / 6.7 / 6.7 Heating (low / std. / max.) 1.9 / 8.4 / 10.9
	Max. Breaker	Amps 20
	Minimum Circuit Ampacity (A)	16.5
Dimensions	W X H X D	Inches 34 5/8 X 31 7/16 X 12 3/16
	Weight	lbs. 116.8
Noise Level	Cooling (Max.)	dB (A) 48
	Heating (Max.)	dB (A) 51
Operating Temperatures	Cooling	14 ~ 114.8°F (-5 ~ 46.0°C)
	Heating	5 ~ 75°F (-15 ~ 24.0°C)
Pipe Connections	High Side	1/4" X 2
	Low Side (suction)	3/8" X 1 + 1/2" X 1
	Maximum Individual Line Set Length	82 ft
	Maximum Line Set Length (total)	164 ft
	Maximum Vertical Separation	Outdoor to Indoor 49 ft Highest to Lowest Indoor 25 ft
	Included Pipe Adapter	1 - 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 11.2
Heat Exchanger	Type	Aluminum Fin - Copper Tube
	Rows	2
Refrigerant	Type	R410A
	Control Method	Electronic Expansion Valve
	Factory Charge	77.6 oz
	Charged for	98 ft
	Additional Refrigerant	0.11 oz/ft over 98 ft
Accessories	Wall Bracket	CKN-250
Certifications	Safety	ETL (UL 1995)
	AHRI Certification Number	Non-Ducted 205291853
		Ducted 205236961
		Mixed 205343310
Warranty	10 Years compressor, 10 year parts, 1 year limited labor (registration required)	

* 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 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

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 2 separate electronic expansion valves at outdoor unit

Compatibility

Will only operate with Samsung evaporator model numbers:

AR**TSFABWKNCV (RNS**ABT): 7,000 - 15,000 Btu/h models

AR**TSFYBWKNCV (RNS**YBT): 7,000 - 15,000 Btu/h models

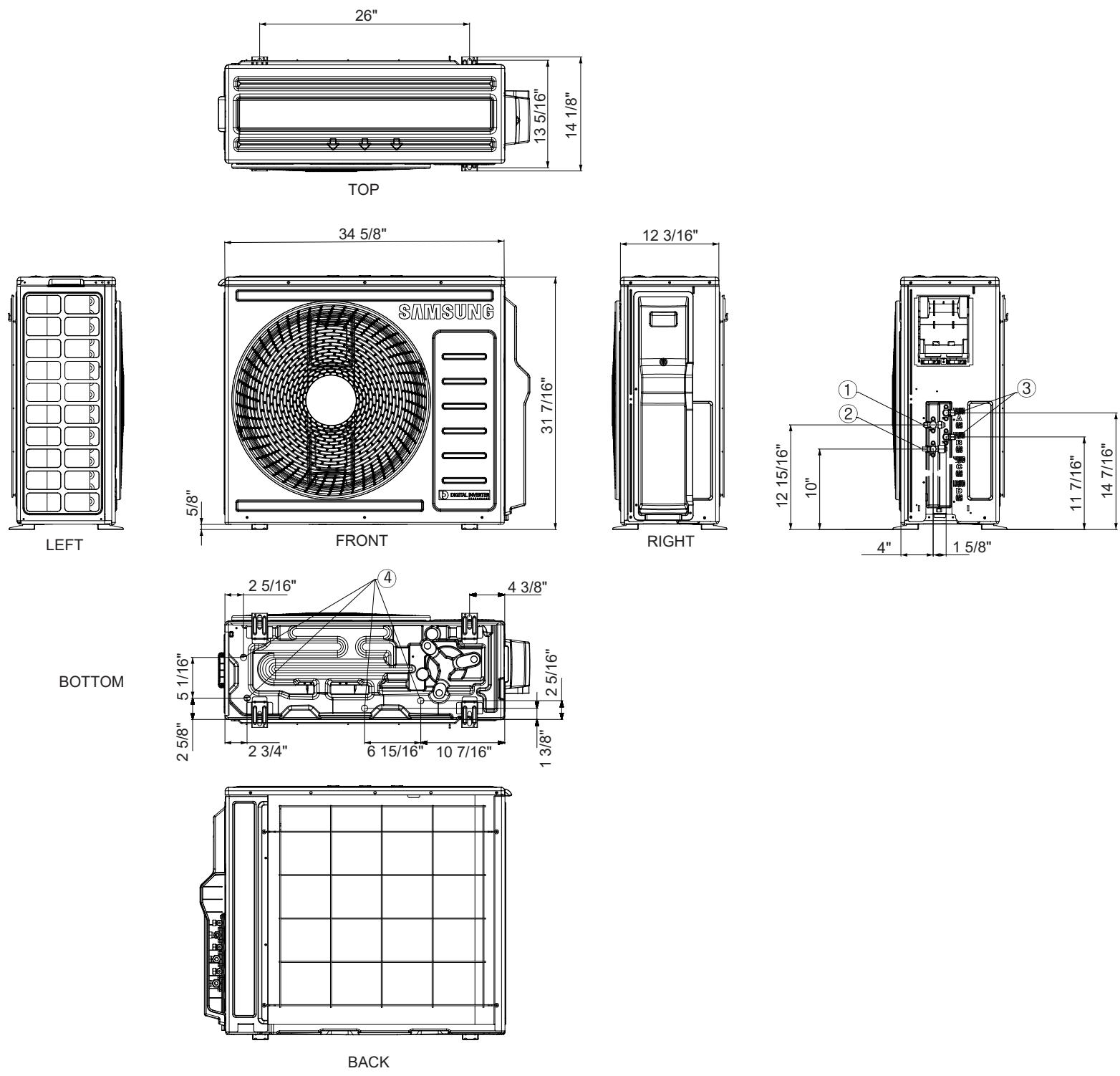
AJ**TNNDCH/AA (JNH**NDT): 9,000 - 12,000 Btu/h models

AJ**TNLDCH/AA (JNH**LDT): 9,000 - 12,000 Btu/h models

AJ**TNJDCH/AA (JNH**JDT): 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.





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

Indoor Unit Connection Options

Indoor Unit Capacity (Btu/h)	
A	B
7,000	7,000
7,000	9,000
7,000	12,000
7,000	15,000
9,000	9,000
9,000	12,000
9,000	15,000
12,000	12,000
12,000	15,000

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

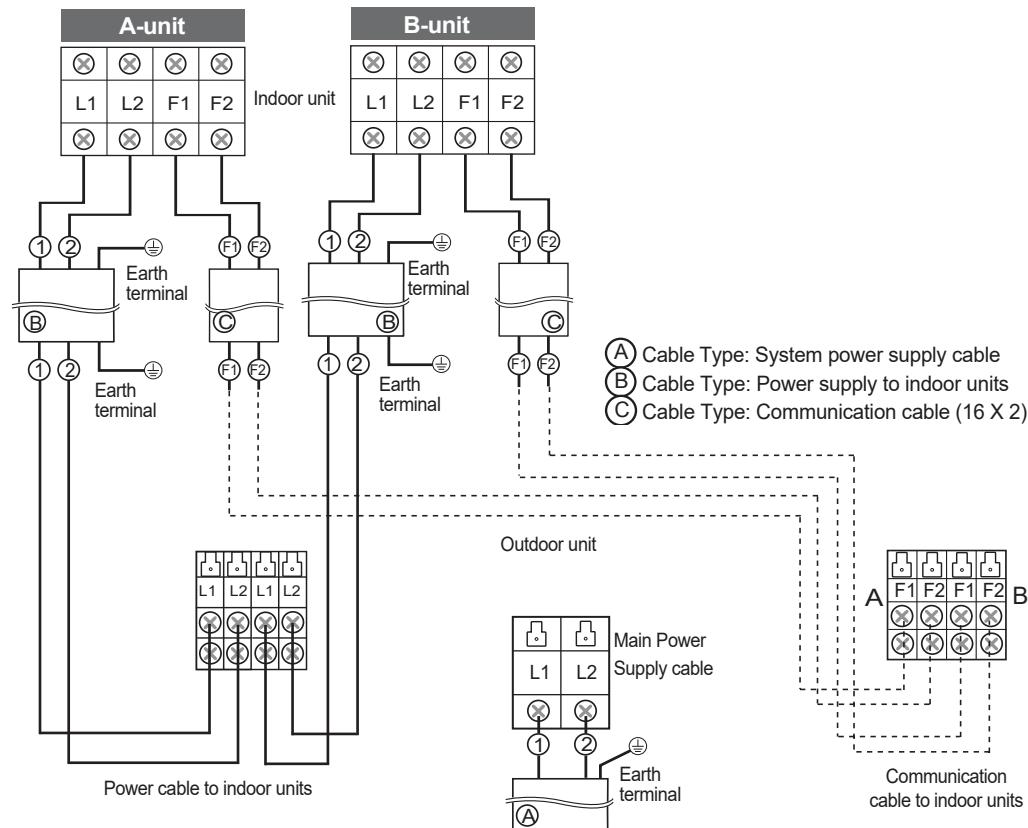
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Basic Wire Connection Diagram

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