



Samsung FJM, 3 Port Condensing Unit

Job Name \_\_\_\_\_  
 Purchaser \_\_\_\_\_  
 Submitted to \_\_\_\_\_  
 Unit Designation \_\_\_\_\_

Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Reference \_\_\_\_\_ Approval \_\_\_\_\_ Construction \_\_\_\_\_  
 Schedule # \_\_\_\_\_

**Specifications**

Performance*	Capacity (standard / max.)		Cooling (Btu/h)	22,000 / 22,000	
			Heating (Btu/h)	25,000 / 29,200	
	Minimum Cooling Capacity (Btu/h)		7,500		
	Minimum Heating Capacity (Btu/h)		4,300		
	Maximum Indoor Unit Connection Ratio		135%		
	SEER (Non-ducted / Ducted)		18 / 16		
	EER (Non-ducted / Ducted)		12.1 / 10.1		
	HSPF (Non-ducted / Ducted)		9.0 / 8.7		
Power	Voltage (øV/Hz)		1/208-230V/60Hz		
	Rated Current (amps)	Cooling (low / std. / max.)		2.6 / 8.7 / 8.7	
		Heating (low / std. / max.)		1.9 / 8.5 / 13.6	
	Max. Breaker	Amps	25		
Minimum Circuit Ampacity (A)		16.9			
Dimensions	W X H X D (inches)		34 5/8 x 31 7/16 x 14 5/16		
	Weight (lbs)		143		
Noise Level	Outdoor Unit (Db)		49		
Operating Temperatures	Cooling	°F	23 ≤ T ≤ 115		
	Heating	°F	5 ≤ T ≤ 75		
Pipe Connections	High Side		1/4" X 3		
	Low Side (suction)		3/8" X 2 + 1/2" X 1		
	Maximum Individual Line Set Length		82 feet		
	Maximum Line Set Length (total)		230 feet		
	Maximum Vertical Separation	Outdoor to Indoor		49 feet	
		Highest to lowest indoor		25 feet	
Included Pipe Adaptors		1 - 1/2" X 3/8"			
Condenser Fan	Motor		BLDC With Axial Type Fan (1)		
	Output	Watts / FLA		165 / 0.65	
		CFM		1,468	
Compressor	Type		DC, Inverter Driven, Twin BLDC Rotary		
	RLA	Amps	13		
Heat Exchanger	Type		Aluminum Fin - Copper Tube		
	Rows		2		
Refrigerant	Type		R410A		
	Control Method		Electronic Expansion Valve		
	Factory Charge		98.8 oz		
	Charged for		131 feet		
	Additional Refrigerant		0.11 oz/ft over 131 feet		
Accessories	Line Sets - 25' and 50'		Insulated and flared, wire included		
	Wall Bracket		CKN-250		
	Central Control Interface Module	DVM S Controls (NASA)		MIM-N01	
		DVM Plus Controls		MIM-B13D	
	Wind Baffles	Front		WBMF-9/12/18	
Back		WBMB-9/12/18/36			
Certifications	Safety		ETL & ETLc		
	AHRI Certification Number	Non-Ducted		7915888	
		Ducted		7915889	
Warranty	10 Years compressor, 10Year Parts				



- Low ambient control built in
- The outdoor unit shall supply power to indoor unit(s) via 14 AWG X 3 power wire
- Soft-start to reduce current demand during compressor start
- Auto-restart after power loss
- Available maximum current setting option to reduce maximum operating current.

**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 shielded

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 3 separate electronic expansion valves at outdoor unit

**Compatibility**

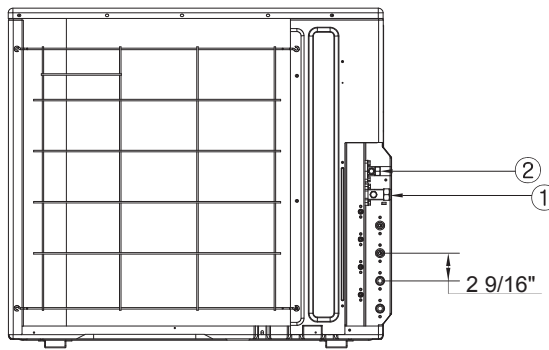
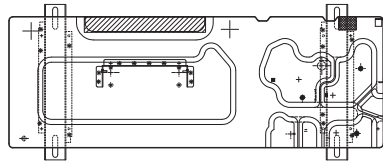
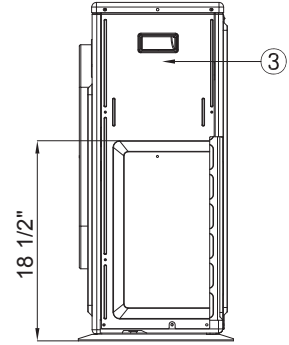
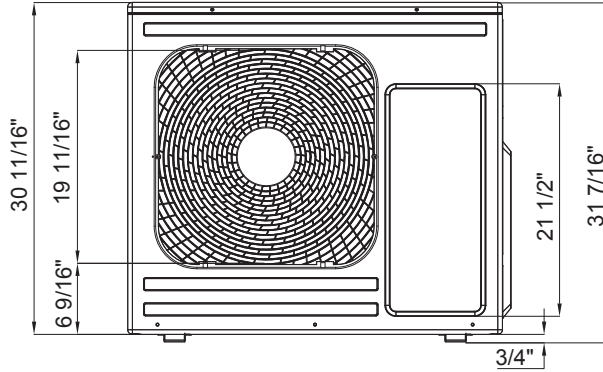
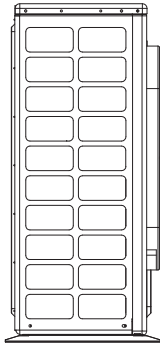
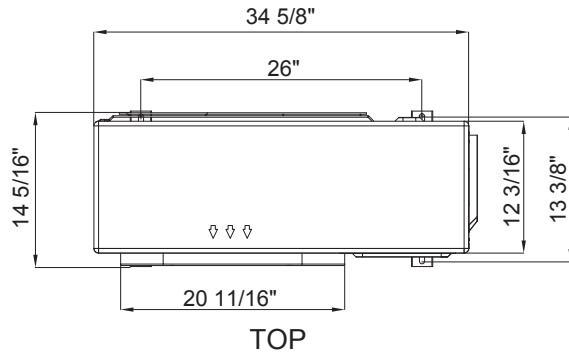
Will only operate with Samsung evaporator model numbers: AJ009JNLDCH/AA, AJ012JNLDCH/AA, AJ018JNLDCH/AA, AJ009JNNDCH/AA, AJ012JNNDCH/AA, AJ018JNNDCH/AA, AJ007JNADCH/AA, AJ009JNADCH/AA, AJ012JNADCH/AA, AJ018JNADCH/AA.

\* Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.  
 \* Nominal heating capacities are based on: Indoor temperature: 70 F DB, 60 F WB. Outdoor temperature: 47 F DB, 43 F WB.  
 Quietside 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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Dimensional drawing

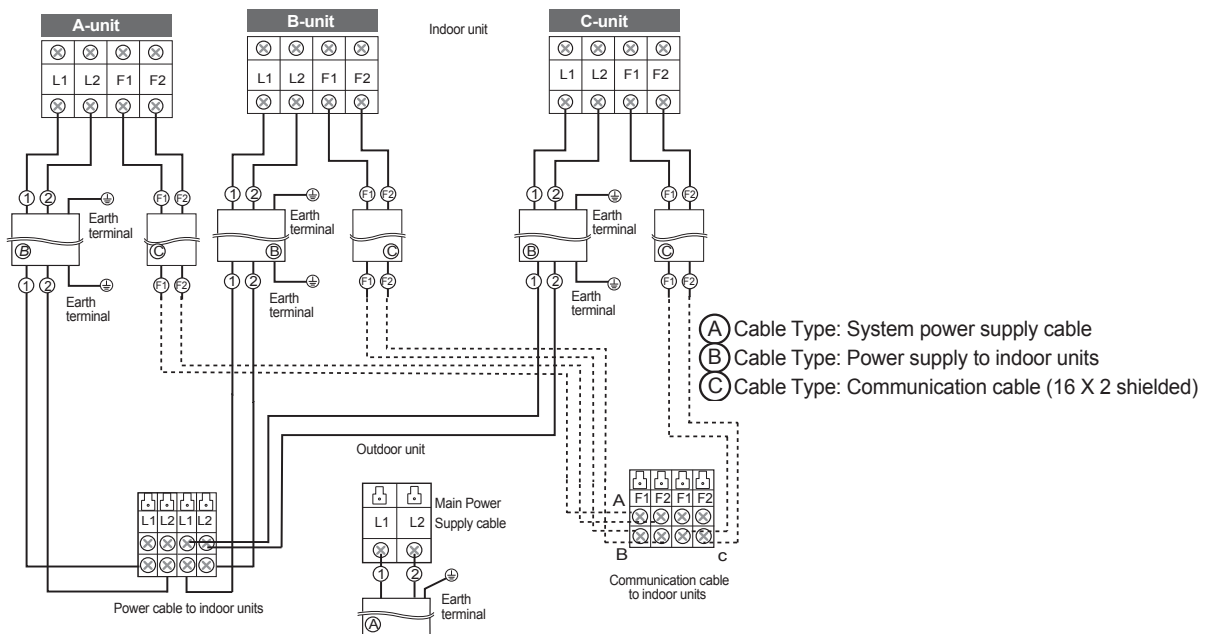


No.	Description
1	Suction service valve
2	Liquid service valve
3	Wire and pipe service cover

**Indoor Unit Connection Options**

	Indoor Unit		
	A	B	C
1 Indoor Unit	AJ007JN*DCH/AA		
	AJ009JN*DCH/AA		
	AJ012JN*DCH/AA		
	AJ018JN*DCH/AA		
2 Indoor Units	AJ007JN*DCH/AA	AJ007JN*DCH/AA	
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	
	AJ007JN*DCH/AA	AJ012JN*DCH/AA	
	AJ007JN*DCH/AA	AJ018JN*DCH/AA	
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	
	AJ009JN*DCH/AA	AJ012JN*DCH/AA	
	AJ009JN*DCH/AA	AJ018JN*DCH/AA	
	AJ012JN*DCH/AA	AJ012JN*DCH/AA	
3 Indoor Units	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ012JN*DCH/AA
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA

**Basic Wire Connection Diagram**



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