

Samsung FJM, 5 Port Condensing Unit

Job Name _____
 Purchaser _____
 Submitted to _____
 Unit Designation _____

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

Specifications

Performance*	Capacity (standard / max.)	Cooling (Btu/h)	36,000 / 36,000
		Heating (Btu/h)	40,000 / 44,000
	Minimum Cooling Capacity (Btu/h)		9,500
	Minimum Heating Capacity (Btu/h)		7,600
	Maximum Indoor Unit Connection Ratio		125%
	SEER (Non-ducted / Ducted)		18.5 / 16.5
	EER (Non-ducted / Ducted)		10.4 / 9.8
	HSPF (Non-ducted / Ducted)		9.5 / 9.0
Power	Voltage (øV/Hz)		1/208-230V/60Hz
	Rated Current (amps)	Cooling (low / std. / max.)	2.9 / 16.5 / 16.5
		Heating (low / std. / max.)	2.2 / 15.1 / 18.4
	Max. Breaker	Amps	30
	Minimum Circuit Ampacity (A)		18.2
Dimensions	W X H X D (inches)		37 X 39 9/32 X 13
	Weight (lbs)		166
Noise Level	Outdoor Unit (Db)		54
Operating Temperatures	Cooling	°F	23 ≤ T ≤ 115
	Heating	°F	5 ≤ T ≤ 75
Pipe Connections	High Side		1/4" X 5
	Low Side (suction)		3/8" X 2 + 1/2" X 3
	Maximum Individual Line Set Length		82 feet
	Maximum Line Set Length (total)		262 feet
	Maximum Vertical Separation	Outdoor to Indoor	49 feet
		Highest to lowest indoor	25 feet
Included Pipe Adaptors		3 - 1/2" X 3/8", 2 - 1/2" X 5/8"	
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	Output	Watts / FLA	248 / 1.04
		CFM	2,210
Compressor	Type		DC, Inverter Driven, Twin BLDC Rotary
	RLA	Amps	13.7
Heat Exchanger	Type		Aluminum Fin - Copper Tube
	Rows		2
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge		116.4 oz
	Charged for		131 feet
	Additional Refrigerant		0.22 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	TBA
Back		TBA	
Certifications	Safety		ETL & ETLc
	AHRI Certification Number	Non-Ducted	7915886
		Ducted	7915887
Warranty	10 Years compressor, 10Year Parts, 1 Year Limited Labor		



- 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 5 separate electronic expansion valves at outdoor unit

Compatibility

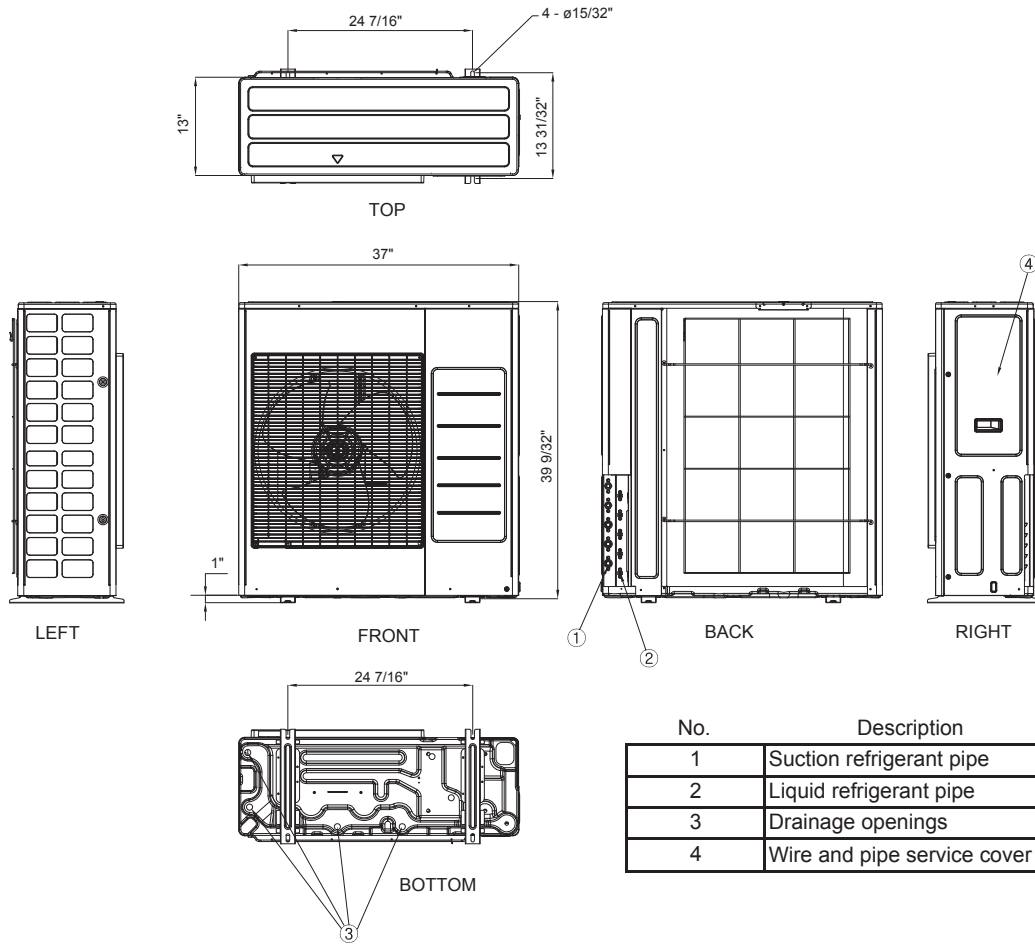
Will only operate with Samsung evaporator model numbers: AJ009JNLDCH/AA, AJ012JNLDCH/AA, AJ018JNLDCH/AA, AJ009JNNDCH/AA, AJ012JNNDCH/AA, AJ018JNNDCH/AA, AJ007JNADCH/AA, AJ009JNADCH/AA, AJ012JNADCH/AA, AJ018JNADCH/AA, AJ024JNADCH/AA.

* 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.



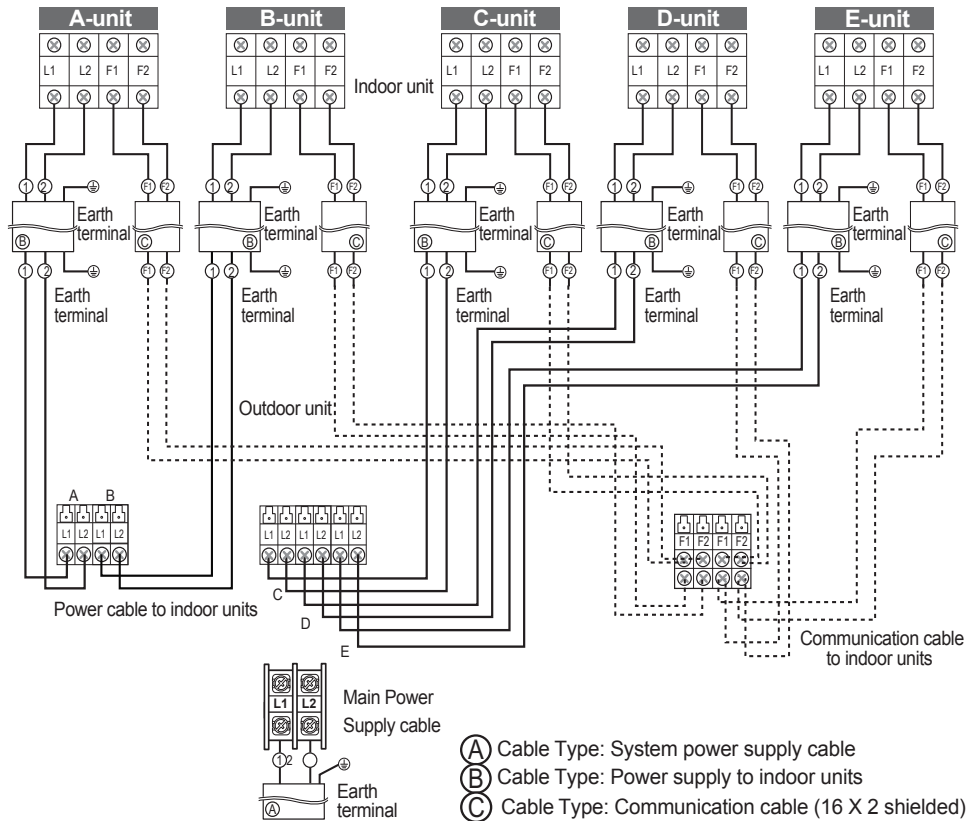
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Dimensional drawing / wiring example



No.	Description
1	Suction refrigerant pipe
2	Liquid refrigerant pipe
3	Drainage openings
4	Wire and pipe service cover

Basic Wire Connection Diagram



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

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Indoor unit connection options

Indoor Unit Connection Options

	Indoor Unit				
	A	B	C	D	E
1 Indoor Unit	AJ007JN*DCH/AA				
	AJ009JN*DCH/AA				
	AJ012JN*DCH/AA				
	AJ018JN*DCH/AA				
	AJ024JN*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			
	AJ007JN*DCH/AA	AJ024JN*DCH/AA			
	AJ009JN*DCH/AA	AJ009JN*DCH/AA			
	AJ009JN*DCH/AA	AJ012JN*DCH/AA			
	AJ009JN*DCH/AA	AJ018JN*DCH/AA			
	AJ009JN*DCH/AA	AJ024JN*DCH/AA			
	AJ012JN*DCH/AA	AJ012JN*DCH/AA			
	AJ012JN*DCH/AA	AJ018JN*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	AJ007JN*DCH/AA	AJ018JN*DCH/AA		
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ024JN*DCH/AA		
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA		
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA		
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ018JN*DCH/AA		
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ024JN*DCH/AA		
	AJ007JN*DCH/AA	AJ012JN*DCH/AA	AJ012JN*DCH/AA		
	AJ007JN*DCH/AA	AJ012JN*DCH/AA	AJ018JN*DCH/AA		
	AJ007JN*DCH/AA	AJ012JN*DCH/AA	AJ024JN*DCH/AA		
	AJ007JN*DCH/AA	AJ018JN*DCH/AA	AJ018JN*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	AJ018JN*DCH/AA		
	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ024JN*DCH/AA		
	AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ012JN*DCH/AA		
	AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ018JN*DCH/AA		
	4 Indoor Units	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA
AJ007JN*DCH/AA		AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	
AJ007JN*DCH/AA		AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ012JN*DCH/AA	
AJ007JN*DCH/AA		AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ018JN*DCH/AA	
AJ007JN*DCH/AA		AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ024JN*DCH/AA	
AJ007JN*DCH/AA		AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	
AJ007JN*DCH/AA		AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA	
AJ007JN*DCH/AA		AJ007JN*DCH/AA	AJ012JN*DCH/AA	AJ018JN*DCH/AA	
AJ007JN*DCH/AA		AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	
AJ007JN*DCH/AA		AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA	
AJ007JN*DCH/AA		AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ018JN*DCH/AA	
AJ007JN*DCH/AA		AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ024JN*DCH/AA	
AJ007JN*DCH/AA		AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ012JN*DCH/AA	
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AJ009JN*DCH/AA		AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA	
AJ009JN*DCH/AA		AJ009JN*DCH/AA	AJ012JN*DCH/AA	AJ012JN*DCH/AA	
5 Indoor Units		AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ012JN*DCH/AA
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA
	AJ007JN*DCH/AA	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ018JN*DCH/AA
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ012JN*DCH/AA
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA
	AJ007JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA	AJ009JN*DCH/AA