

Job Name _____
Purchaser _____
Submitted to _____
Unit Designation _____

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

Specifications

Model	Indoor Unit Model Number		AC048JN4DCH/AA
	Outdoor Unit Model Number		AC048JXADCH/AA
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	48,000 / 53,000
	Capacity Range	Cooling (Btu/h)	18,600 - 51,000
		Heating (Btu/h)	15,300 - 55,000
	SEER / EER		18.8 / 9.7
	COP (nominal heating)		3.08
	HSPF		9.5
	AHRI Certification Number		7918790
Power	Condensate (pints/hour)		14.8
	Voltage	Ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)
	Operating Current (min. / std. / max.)	Cooling (A)	6.4 / 22.9 / 23.0
		Heating (A)	5.0 / 23.4 / 28.0
	Max. Breaker Amps		35
	Min. Circuit Ampacity (A)		22.2
Dimensions	W X H X D (inches)	Indoor Unit	33 X 11 5/16 X 33
		Outdoor Unit	37 X 48 X 13
	Weight (lbs.)	Indoor Unit	41.89
		Outdoor Unit	194
Heat Exchanger	Indoor Unit	Type	Aluminum Fin / Copper Tube
		FPI	18
	Outdoor Unit	Pipe Diameter (inches)	1/4
		Type	Aluminum, flat fin, micro channel
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	35 / 41 / 45
	Outdoor Unit dB(A)	Cooling / Heating (high)	53 / 55
Operating Temperatures (°F)	Outdoor	Cooling	23 ≤ T ≤ 115
		Heating	0 ≤ T ≤ 115 w/wind baffle
	Indoor	Cooling	-4 ≤ T ≤ 76
		Heating	61 ≤ T ≤ 90
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8"
		Low side (flare)	5/8"
	Maximum (ft.)		246
	Maximum Vertical Separation (ft.)		98
	Condensate Connection		1 1/8" OD
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	98.77
	Charged for	feet	25
Compressor	Additional Refrigerant		0.355 oz/ft over 25 feet
	Manufacturer		Samsung
	Type	Inverter Driven, Twin BLDC, Rotary	
Evaporator Fan	RLA	A	17.0
	Type	BLDC With Turbo Type Fan (1)	
	Air Volume	CFM (L/M/H)	950 / 1040 / 1300
	Output	Watts	97
Condenser Fan	Operating Current		Amps 0.35
	Motor	BLDC With Axial Type Fan (2)	
Fascia Panel	FLA / Watts / CFM (max.)		0.48 A X 2 / 125 W X 2 / 3,040 CFM
	Model Number	PC4NUSKFN (purchased separately)	
	L X W X H	Inches	37 3/8 X 37 3/8 X 1
Optional Accessories	Weight	lbs.	13
	Wired Controller	Simplified	MWR-SH00N
		Premium w/scheduling	MWR-WE10N
	External Temperature Sensor		MRW-TA
	Wireless Controller		MR-DH00U
	External Contact Control		MIM-B14
	Central Control Interface Module for Connection to DVM Plus Controls (non-NASA)		MIM-N01
	Wall Bracket (for outdoor unit)		CKN-250
	Wind Baffles	Front	TBA
		Back	TBA
Safety	Line Sets - insulated and flared, interconnect cables included		25' - ILS-2510 50' - ILS-5010
	Certifications	ETL & ETLc	
Safety	Devices		PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing



- Low ambient control built in
- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire
- Auto-restart after power loss
- The outdoor unit shall have a snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- The indoor and outdoor units shall have a removable EEPROM that stores system programming information, unit name, and other data
- All indoor unit addressing and option settings shall be done digitally; the indoor unit does not contain rotary dials or setting switches.
- Electro-static, washable, pleated filter as standard (included with fascia panel).
- Built in condensate pump and check valve with maximum 29" lift
- Knock-out for outside air capability (with booster fan connection)
- Fascia panel shall have LED indicator lights, IR receiver, and 4 motorized louvers (independent louver control is possible with wireless or premium wired controller).
- Pipe connections at the outdoor unit shall be made inside the unit chassis. Refrigerant pipes can exit through the front, side, rear, or bottom sides of the outdoor unit.
- The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night (automatic or manual activation with dry contact signal).

Construction

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

The indoor unit shall be have a galvanized steel frame with HIPS chassis and fascia panel certified to UL94 V0.

Heat Exchanger

The indoor unit heat exchanger shall be mechanically bonded fin to copper tube

The outdoor unit heat exchanger shall be aluminum, flat fin, micro channel

Controls

Control signal shall be a DDC type signal

Interconnect control wire between outdoor indoor unit shall be 16 AWG X 2 shielded

Wired or wireless controls must be purchased separately

Connection to optional wired controllers shall be 16 AWG X 2 shielded wire

Controls shall integrate with a BMS system

The system shall integrate with the Samsung NASA Controls Solution

No additional interface modules/adapters are required when connecting to Samsung NASA DVM S central control options (MIM-D00AN, MIM-B17N, MIM-B18N, MCM-A300N).

Refrigerant System

The refrigerant shall be R410A

The compressor shall be hermetically sealed, inverter controlled, twin BLDC Rotary

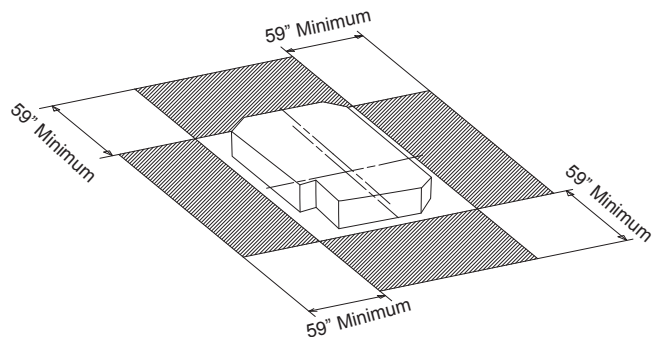
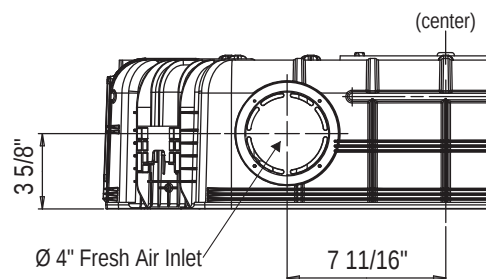
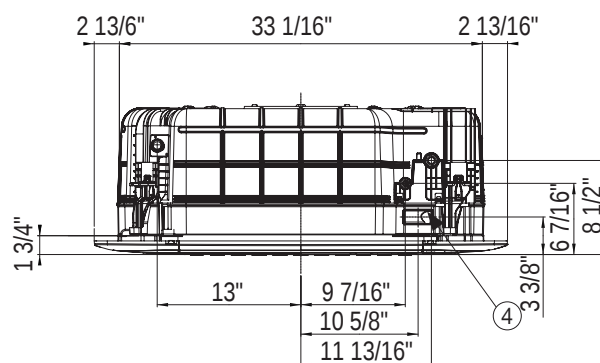
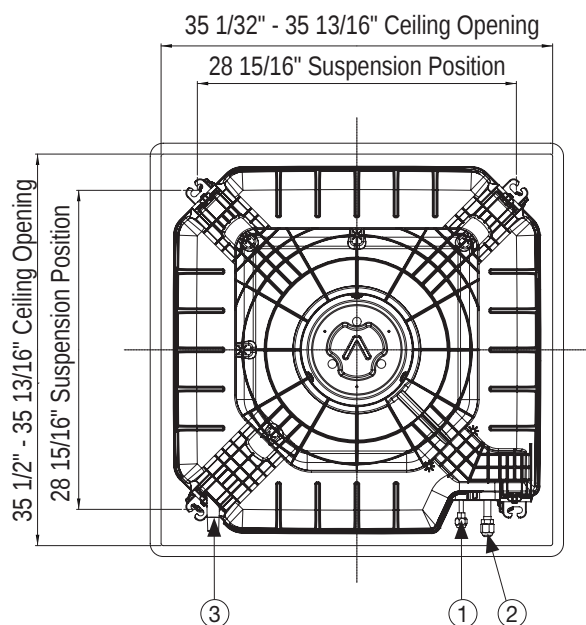
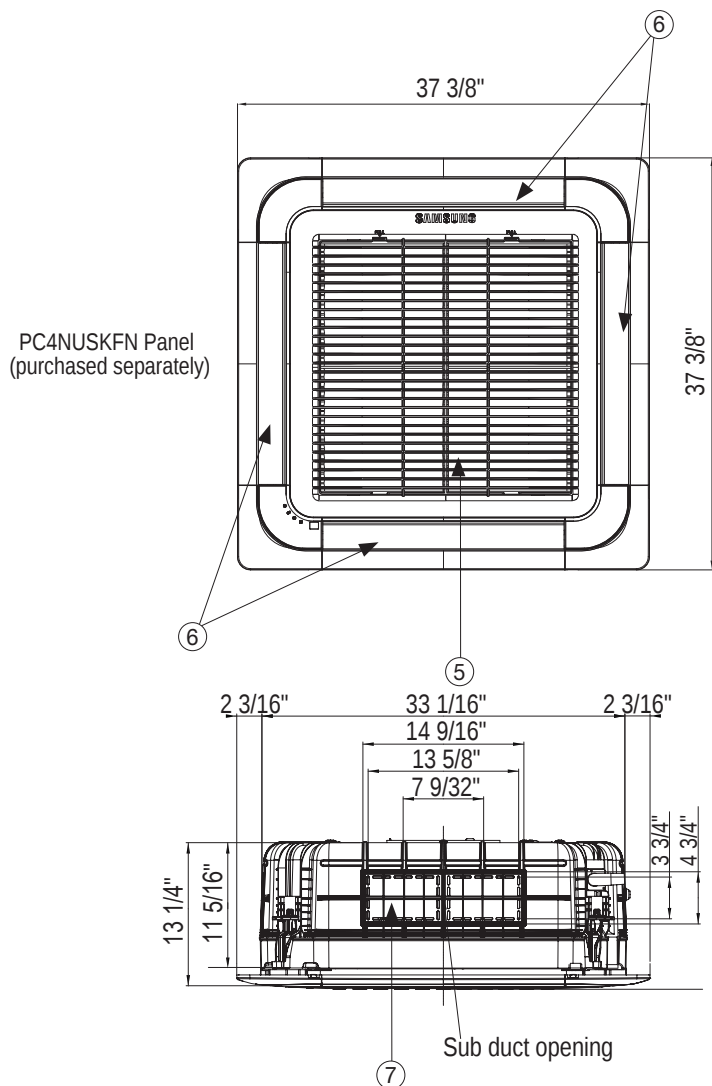
Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Soft-start to reduce current demand during compressor start

The outdoor unit shall be compatible with AC048JN4DCH/AA (cassette) and AC048JNHDCH/AA (duct) indoor units.

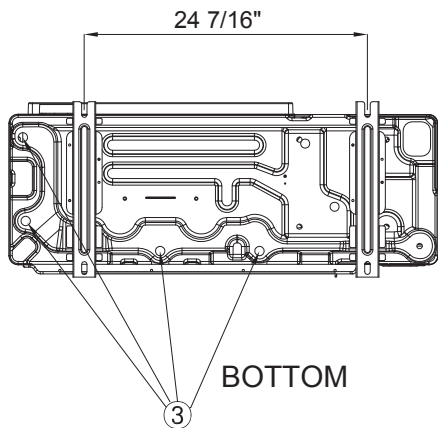
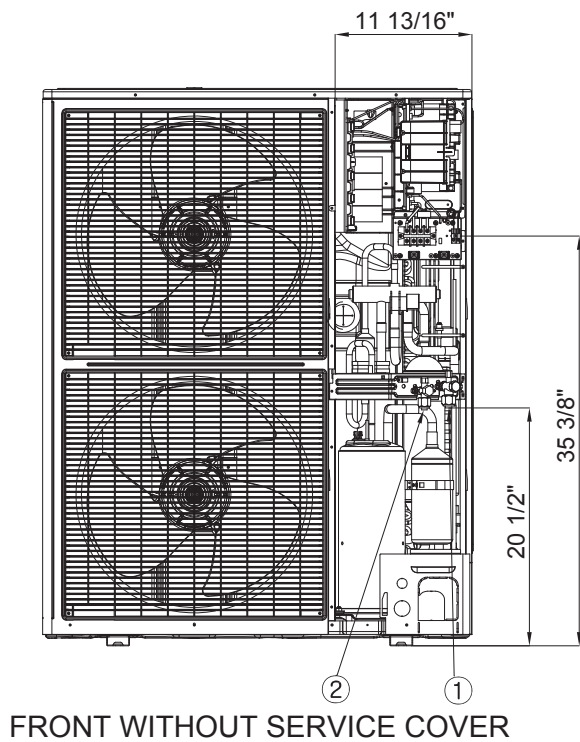
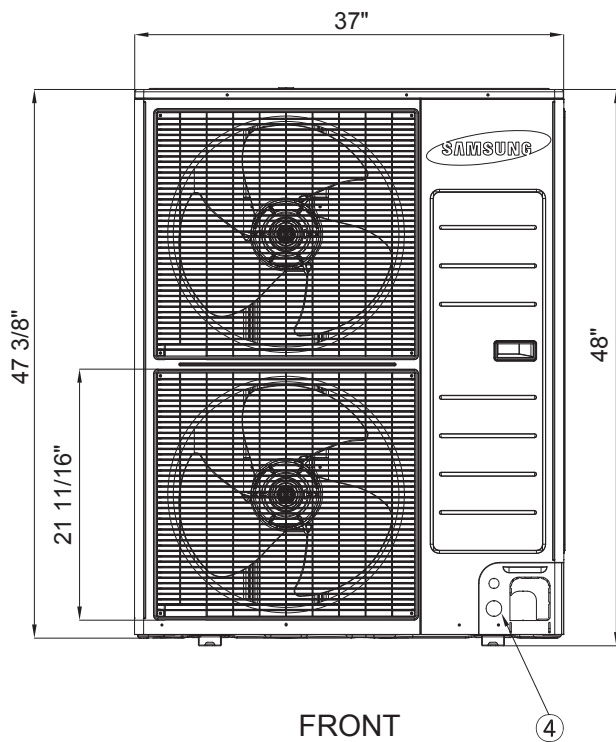
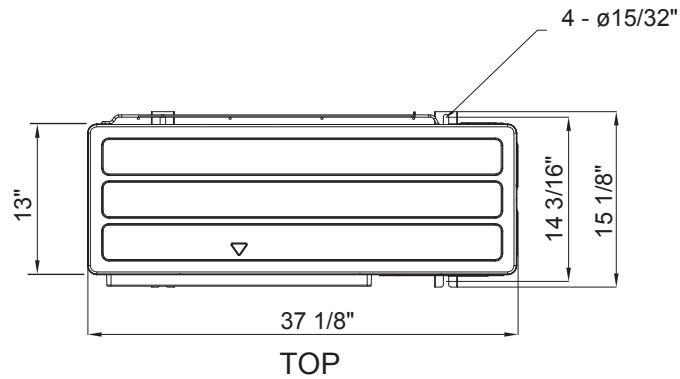
Warranty

10 years compressor, 10 years parts, 1 year limited labor



Proper clearance must be maintained around unit for proper operation.

No.	Name	Description
①	Liquid Pipe Connection	Ø 3/8" Flare
②	Gas Pipe Connection	Ø 5/8" Flare
③	Drain Pipe Connection	OD 1 1/4", ID 1"
④	Conduit for Power & Communication Wiring	-
⑤	Air Inlet Grille	-
⑥	Air Outlet Louver	-
⑦	Sub Duct Outlet	-



No.	Description
1	Suction service valve
2	Liquid service valve
3	Power and communication conduit openings