SUBMITTAL AC024JN4DCH/AA
Samsung 4-Way Cassette S, Single Zone, Split System

Job Name _____ Location _____

Purchaser _____ Engineer _____

Submitted to _____ Reference ☐ Approval ☐ Construction ☐

Unit Designation _____ Schedule # _____

Specifications

Model	Indoor Unit Model Number		AC024JN4DCH/AA
	Outdoor Unit Model Number		AC024JXADCH/AA
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	24,000 / 27,000
	Capacity Range	Cooling (Btu/h)	7,000 - 27,000
		Heating (Btu/h)	5,200 - 31,000
	SEER / EER		20.5 / 11.4
	COP (nominal heating)		3.17
	HSPF		9.7
	AHRI Certification Number		7918786
	Condensate (pints/hour)		6.8
Power	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)	2.8 / 9.8 / 12.0
		Heating (A)	2.5 / 11.6 / 14.5
	Max. Breaker	Amps	20
	Min. Circuit Ampacity (A)		11.7
Dimensions	W X H X D (inches)	Indoor Unit	33 X 8 X 33
		Outdoor Unit	37 X 39 11/16 X 12 3/4
	Weight (lbs.)	Indoor Unit	33.7
		Outdoor Unit	142
Heat Exchanger	Indoor Unit	Type	Aluminum Fin / Copper Tube
		FPI	18
		Pipe Diameter (inches)	1/4
	Outdoor Unit	Type	Aluminum, flat fin, micro channel
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	30 / 33 / 36
	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48
Operating Temperatures (^{0}F)	Outdoor	Cooling	23 ≤ T ≤ 115
			0 ≤ T ≤ 115 w/wind baffle
		Heating	-4 ≤ T ≤ 76
	Indoor	Cooling	61 ≤ T ≤ 90
		Heating	T ≤ 80
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4"
		Low side (flare)	5/8"
	Maximum (ft.)		164
	Maximum Vertical Separation (ft.)		98
	Condensate Connection		1 1/8" OD
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	74.08
	Charged for		25 feet
	Additional Refrigerant		0.11 oz/ft over 25 feet
Compressor	Manufacturer		Samsung
	Type		Inverter Driven, Twin BLDC, Rotary
	RLA	A	9.0
Evaporator Fan	Type		BLDC With Turbo Type Fan (1)
	Air Volume	CFM (L/M/H)	500 / 580 / 640
	Output	Watts	65
	Operating Current	Amps	0.33
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	FLA / Watts / CFM (max.)		0.48 A / 125 W / 2,190 CFM
Fascia Panel	Model Number		PC4NUSKFN (purchased separately)
	L X W X H	Inches	37 3/8 X 37 3/8 X 1
	Weight	lbs.	13
Optional Accessories	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
	Line Sets - insulated and flared, interconnect cables included		☐ 25' - ILS-2509
			☐ 50' - ILS-5009
Safety	Certifications		ETL & ETLc
	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 system 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 AC024JN4DCH/AA (cassette) and AC024JNHDCH/AA (duct) indoor units.

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

* Nominal cooling capacities are based on: Indoor temperature: 80^{0}F DB, 67^{0}F WB. Outdoor temperature: 95^{0}F DB, 75^{0}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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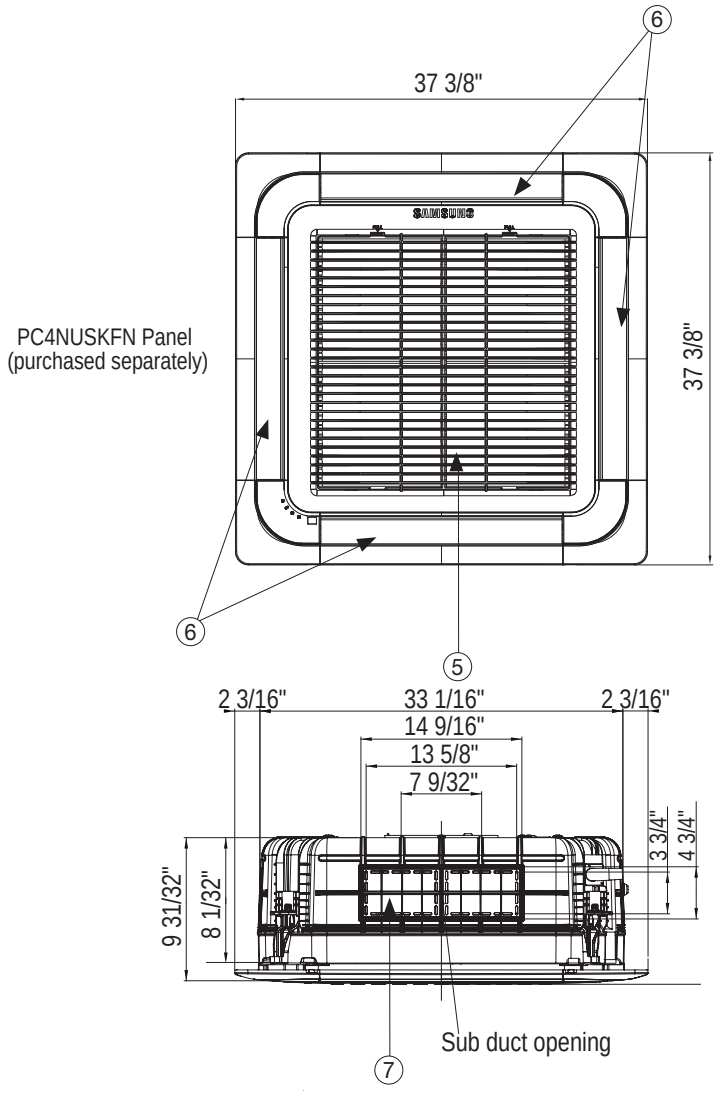
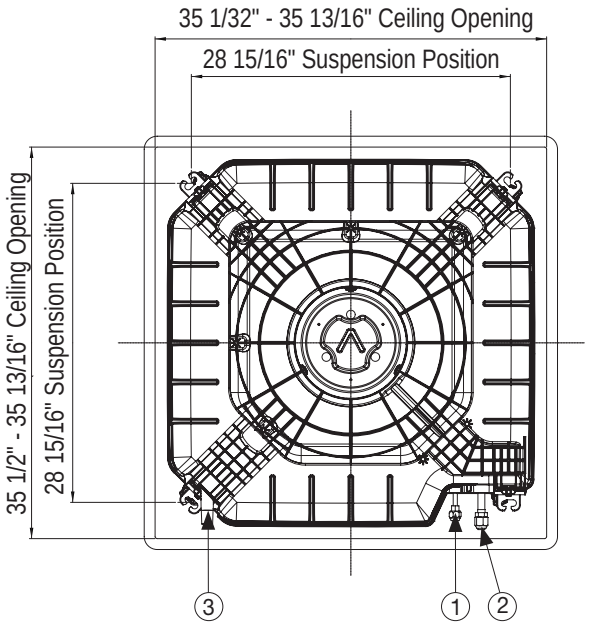
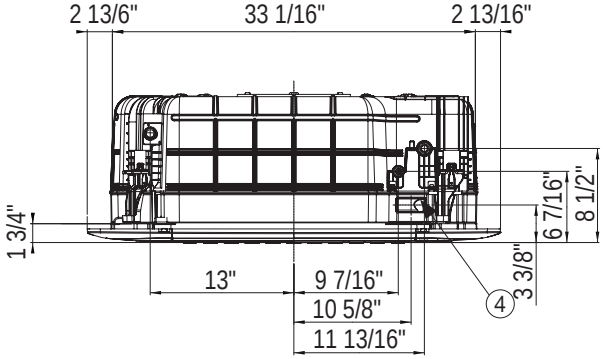
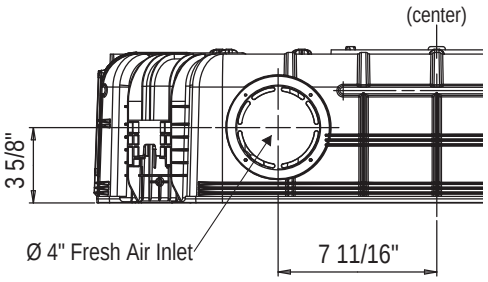
Samsung 4-Way Cassette S, Single Zone, Split System

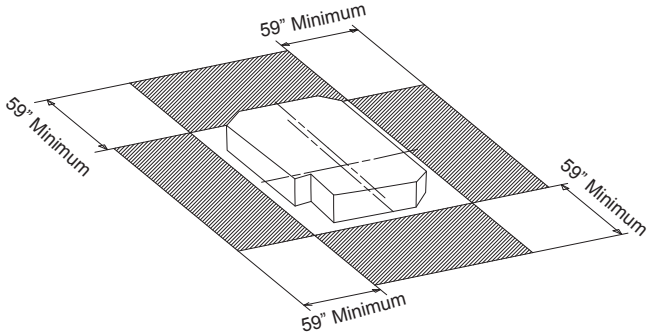
AC024JN4DCH/AA Dimensional Drawing











Proper clearance must be maintained around unit for proper operation.

No.	Name	Description
①	Liquid Pipe Connection	Ø 1/4" 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	-

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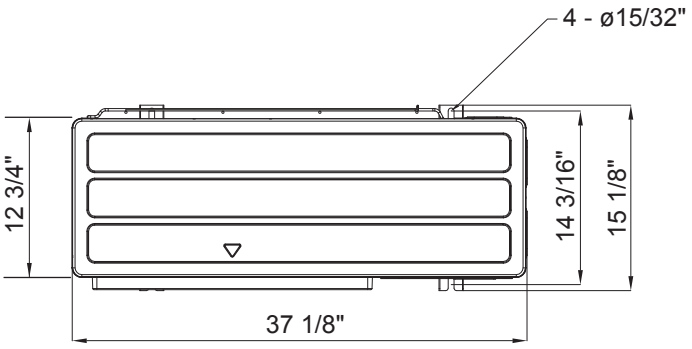
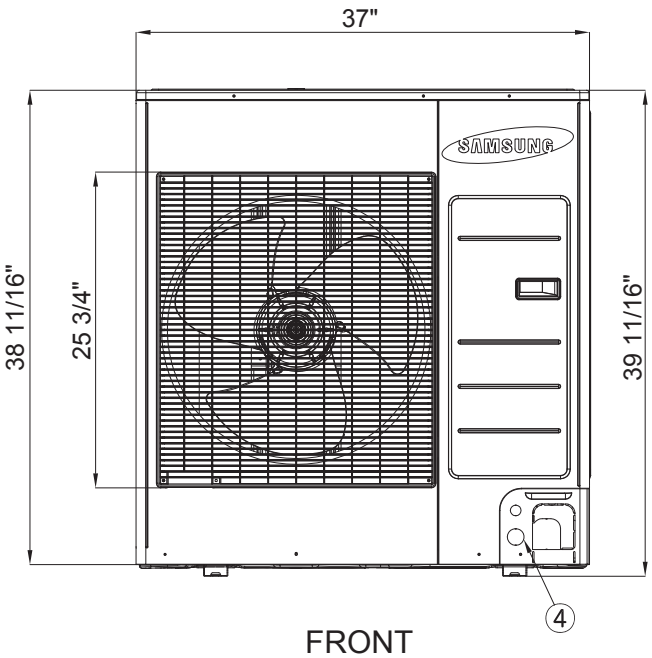
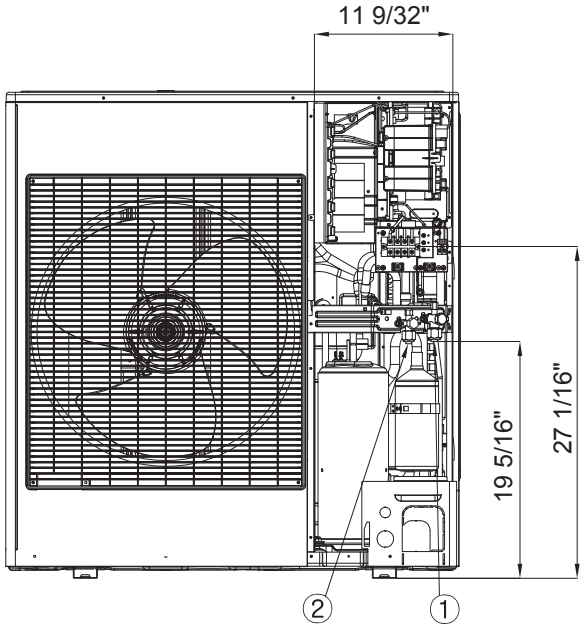


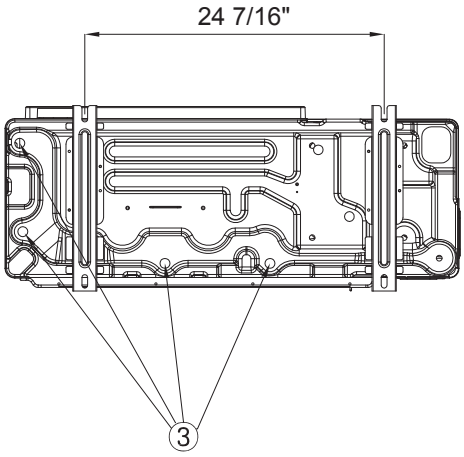
TOP



FRONT



FRONT WITHOUT SERVICE COVER



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