



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

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

**Specifications**

Model	Indoor Unit Model Number	AC018JN4DCH/AA
	Outdoor Unit Model Number	AC018JXADCH/AA
Performance	Nominal Capacity	Cooling / Heating (Btu/h) 18,000 / 20,000
	Capacity Range	Cooling (Btu/h) 5,000 - 21,000 Heating (Btu/h) 3,800 - 25,000
	SEER / EER	20.1 / 11.7
	COP (nominal heating)	3.66
	HSPF	10
	AHRI Certification Number	7917618
	Condensate (pints/hour)	2
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) 2.1 / 7.1 / 10.0 Heating (A) 1.7 / 7.4 / 12.0
	Max. Breaker	Amps 15
	Min. Circuit Ampacity (A)	8.6
Dimensions	W X H X D (inches)	Indoor Unit 33 X 8 X 33 Outdoor Unit 34 5/8 X 25 1/8 X 12 1/4
	Weight (lbs.)	Indoor Unit 33.7 Outdoor Unit 99
	Indoor Unit	Type Aluminum Fin / Copper Tube FPI 18 Pipe Diameter (inches) 1/4
Heat Exchanger	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 (°F)	Outdoor	Cooling 23 ≤ T ≤ 115 Heating 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) 1/2"
		Maximum (ft.) 98
	Condensate Connection	Maximum Vertical Separation (ft.) 66
		1 1/8" OD
Refrigerant	Type	R410A
	Control Method	Electronic Expansion Valve
	Factory Charge oz.	45.86
	Charged for	25 feet
	Additional Refrigerant	0.11 oz/ft over 25 feet
Compressor	Manufacturer	Samsung
	Type	Inverter Driven, Twin BLDC, Rotary
	RLA	A 6.1
Evaporator Fan	Type	BLDC With Turbo Type Fan (1)
	Air Volume	CFM (L/M/H) 460 / 550 / 600
	Output	Watts 65
	Operating Current	Amps 0.33
Condenser Fan	Motor	BLDC With Axial Type Fan (1)
	FLA / Watts / CFM (max.)	0.13 A / 39 W / 1,550 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
		Simplified Touch Controller MWR-SH10N
		Premium w/scheduling MWR-WE10N
	Wi-Fi Adapter	MIM-H03UN
	External Temperature Sensor	MRW-TA
	Wireless Controller	MR-EH00U
	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 WBMF-9/12/18
		Back WBMB-9/12/18/36
	Line Sets - insulated and flared, interconnect cables included	25' - ILS-2507
		50' - ILS-5007
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

\* 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.



- 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 unit 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).

• The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night.

**Construction**

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

The indoor unit shall 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

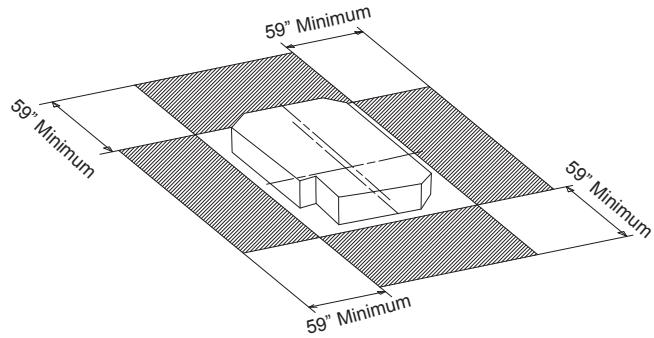
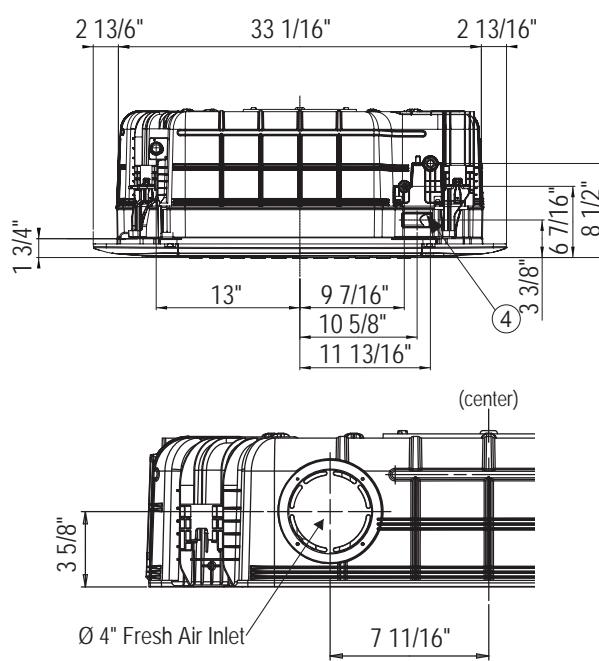
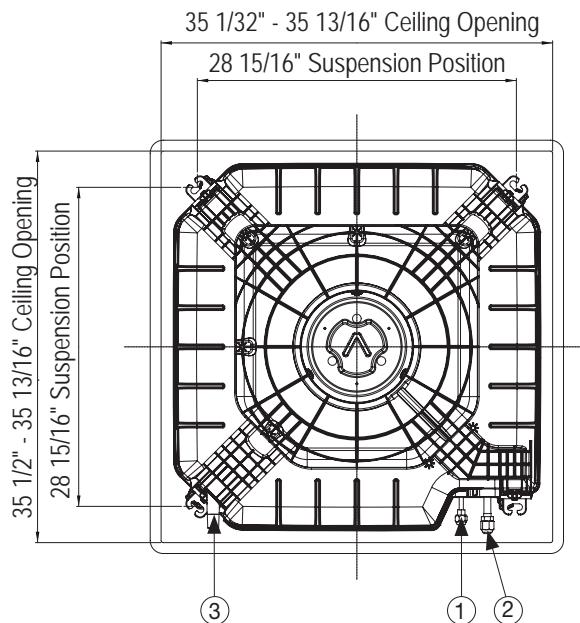
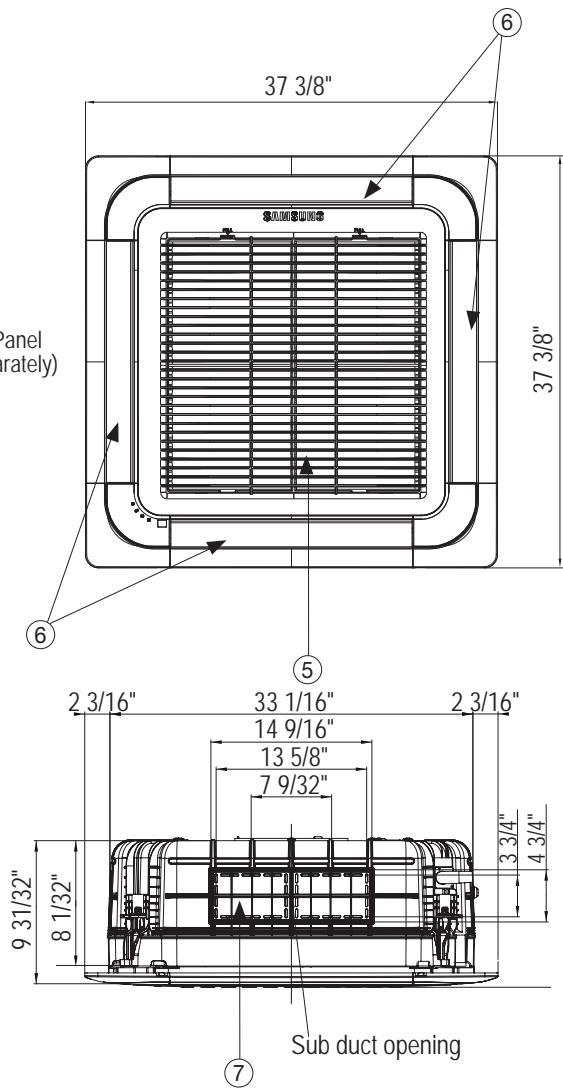
Soft-start to reduce current demand during compressor start

**Warranty**

10 years compressor, 10 years parts, 1 year limited labor (conditions apply)

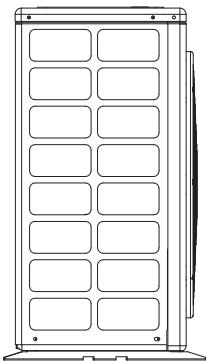
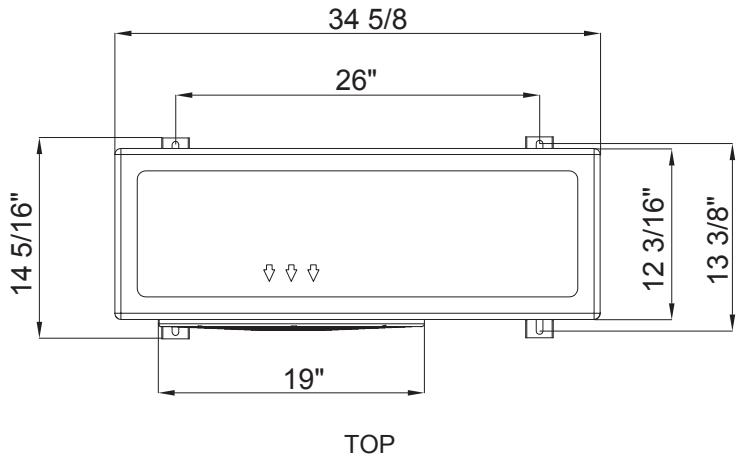
Quietside maintains a policy of ongoing development, specifications are subject to change without notice. Refer to [www.AHRIdirectory.org](http://www.AHRIdirectory.org) for current reference numbers.



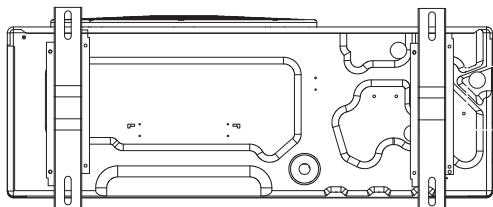
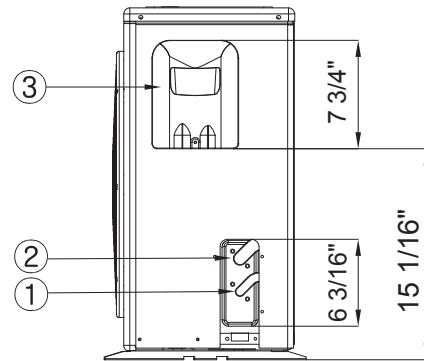
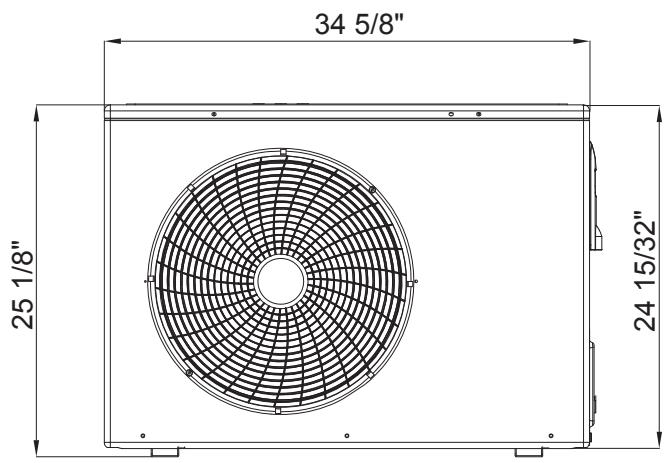


Proper clearance must be maintained around unit for proper operation.

No.	Name	Description
①	Liquid Pipe Connection	Ø 1/4" Flare
②	Gas Pipe Connection	Ø 1/2" 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	-



LEFT



BOTTOM

No. Description

1	Liquid service valve
2	Suction service valve
3	Power and communication conduit openings