

Job Name _____
 Purchaser _____
 Submitted to _____
 Unit Designation _____

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

Specifications

Model	Indoor Unit Model Number	AC018KNLDCH/AA		
	Outdoor Unit Model Number	AC018KXADCH/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 - 22,000	
	SEER / EER	19.5 / 10.7		
	COP (nominal heating)	2.96		
	HSPF	9.7		
	AHRI Certification Number	8717196		
Condensate (pints/hour)	5.07			
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)	1.9 / 7.7 / 9.5	
		Heating (A)	1.7 / 8.8 / 12.0	
	Max. Breaker	Amps	20	
Min. Circuit Ampacity (A)	12.7			
Dimensions	W X H X D (inches)	Indoor Unit	35 7/16 X 7 13/16 X 23 5/8	
		Outdoor Unit	34 5/8 X 25 1/8 X 12 3/16	
	Weight (lbs.)	Indoor Unit	52	
		Outdoor Unit	103.6	
	Duct Connections (inches)	Supply (W X H)	33 7/8 X 6	
Return (W X H, ID)	30 9/16 X 6 11/16			
Heat Exchanger	Indoor and Outdoor Unit	Type	Aluminum Fin / Copper Tube	
		Pipe Diameter (inches)	1/4	
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	28 / 32 / 35	
	Outdoor Unit dB(A)	Cooling / Heating (high)	49 / 50	
Operating Temperatures (°F)	Outdoor	Cooling	23 ≤ T ≤ 115	
		Heating	0 ≤ T ≤ 115 W/Baffle	
	Indoor	Cooling	-4 ≤ T ≤ 76	
		Heating	61 ≤ T ≤ 90	
Pipe Connections	Indoor & Outdoor	High side X low side (flare)	1/4 X 1/2	
	Maximum Length	Feet	98.4	
	Maximum Vertical Separation (ft.)	65.6		
	Condensate Connection	1" OD, 3/4" ID		
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	Type	Inverter Driven, Twin BLDC Rotary		
	RLA	A	9.7	
Evaporator Fan	Type	BLDC (1) With Sirocco Fan (2)		
	Air Volume	CFM (L / M / H)	353 / 424 / 495	
	Output	Watts	84	
	FLA	A	0.38	
	Static Pressure	Standard ("WC)	0.1	
Min. / Max. ("WC)		0 / .24		
Condenser Fan	Motor	BLDC With Axial Type Fan (1)		
	FLA / Watts / Max. CFM	0.17 / 39W / 1,526 CFM		
Optional Accessories	Filter Box		FB-SLIM2	
			MWR-SH00N	
	Wired Controller	Simplified	MWR-SH10N	
		Simplified Touch Controller	MWR-SH10N	
		Premium W/Scheduling	MWR-WE10N	
	Wireless Signal Control	Wireless Signal Receiver	MRK-A00N	
		Wireless Controller	MR-EH00U	
	Wi-Fi Adapter	MIM-H03UN		
	External Temperature Sensor	MRW-TA		
	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' - ILS2507			
	50' - ILS5007			
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		



- Horizontal discharge airflow
- The indoor unit shall have a built-in condensate pump as standard with a 29" lift (from bottom of unit).
- 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 option settings shall be done digitally; the indoor unit does not contain rotary dials or setting switches.
- The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night.
- Electrostatic, washable filter included as standard.

Construction

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

The indoor unit shall be insulated, galvanized steel.

Heat Exchanger

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

Controls

Control signal shall be a DDC type signal

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

Wired or wireless controls must be purchased separately

Connection to optional wired controllers shall be 2 X 16AWG 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

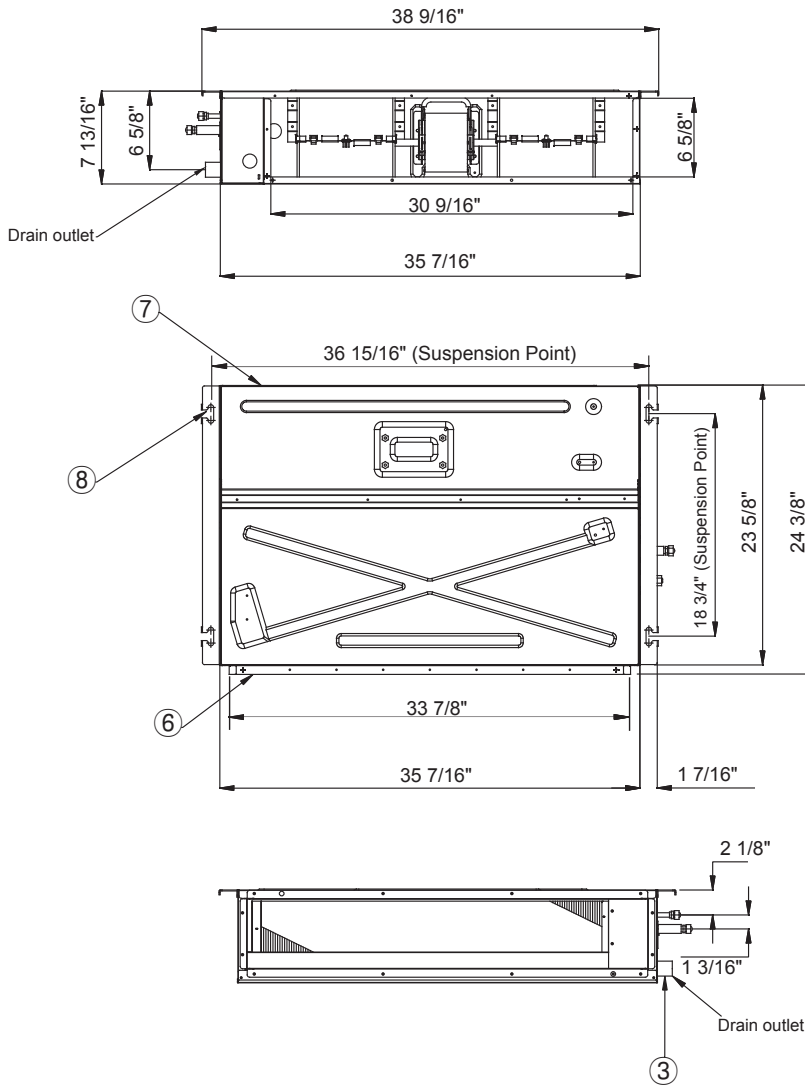
10 Years compressor, 10 years parts, 1 year limited labor when registered

ATTENTION

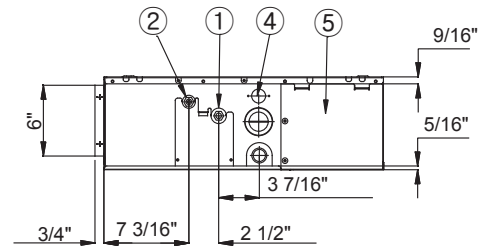
This air handling unit is intended for free-air discharge or for connection to a duct supplying only one room. Improper installation could contribute to the spread of smoke or flame in the event of a fire.

* 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.

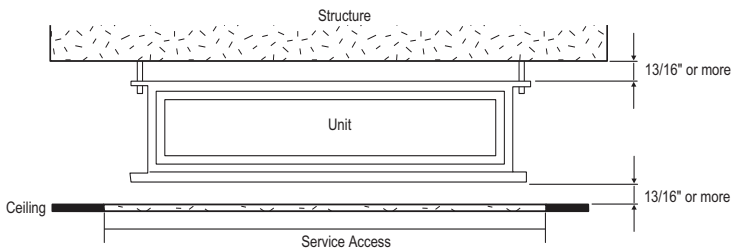
Quietside maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.



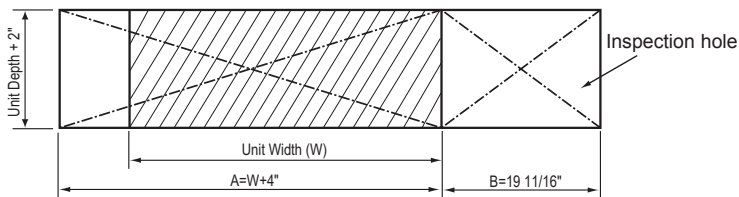
No.	Name	Description
①	Gas Pipe Connection	Ø 1/4" Flare
②	Liquid Pipe Connection	Ø 1/2" Flare
③	Drain Pipe Connection (gravity drain)	OD 1", ID 3/4"
④	Drain Pipe Connection (condensate pump)	OD 1", ID 3/4"
⑤	Control Box	-
⑥	Air Discharge Flange	-
⑦	Air Inlet	-
⑧	Suspension Hook	5/16" - 3/8"



Unit Clearance From Structure

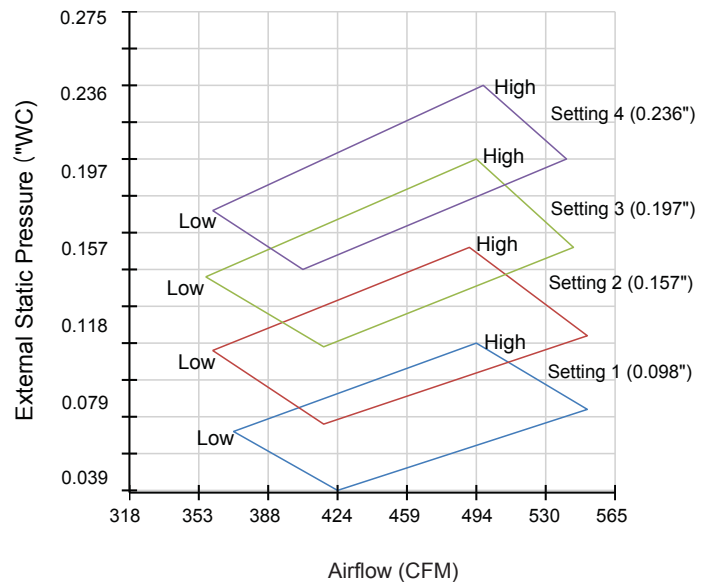


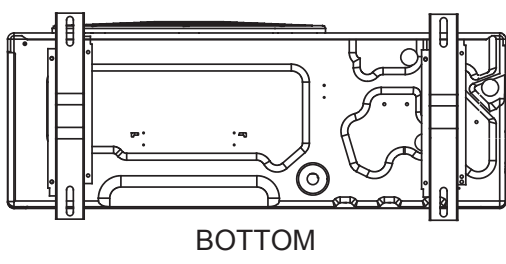
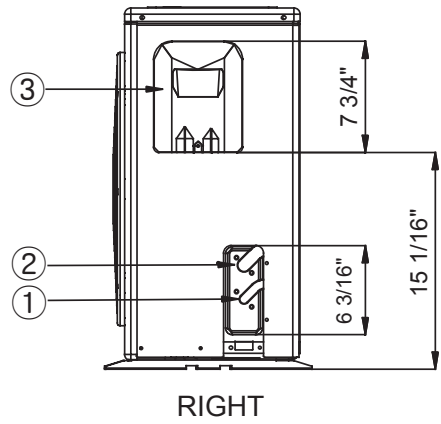
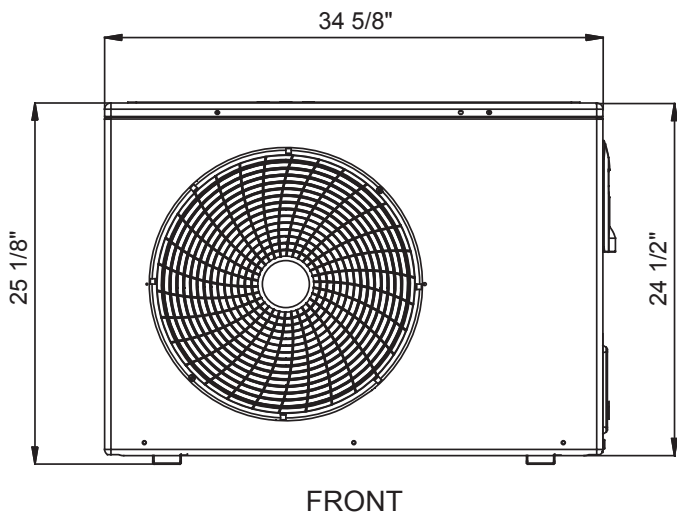
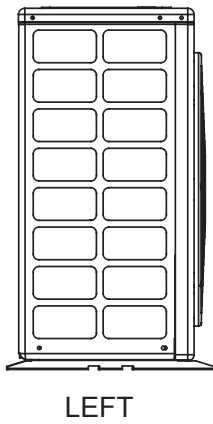
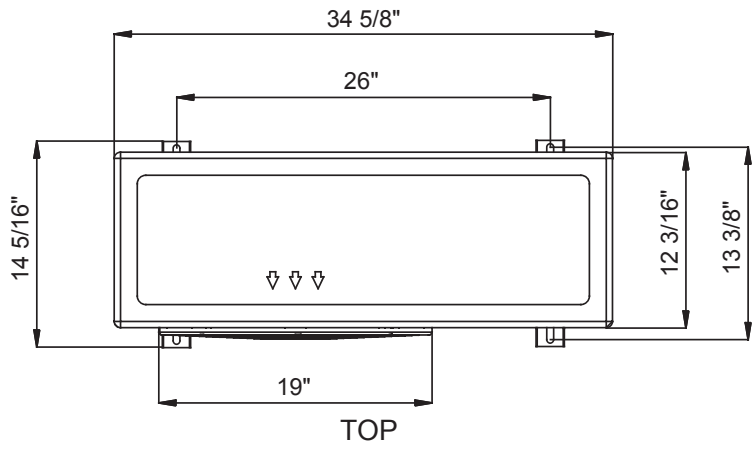
Inspection Opening Requirements



In applications where there is not a tile ceiling, an inspection hole is required.
 If height between ceiling and structure is 3.25' or more, inspection opening "B" is recommended.
 If height between ceiling and structure is less than 3.25', inspection opening "A" and "B" is recommended (verify state and local codes).

P-Q Curve





No.	Name	Description
①	Gas Pipe Connection	Ø 1/4" Flare
②	Liquid Pipe Connection	Ø 1/2" Flare
③	Power and Comm. Wire Connection Cover	-