

Job Name _____
Purchaser _____
Submitted to _____
Unit Designation _____

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

Specifications

Model	Indoor Unit Model Number (US Code)		AC009KNLDCH/AA (CNH09LDK)
	Outdoor Unit Model Number (US Code)		AC009KXADCH/AA (CXH09ADK)
Performance	Nominal Capacity*	Cooling / Heating (Btu/h)	9,000 / 12,000
	Capacity Range*	Cooling (Btu/h)	3,200 - 12,000
		Heating (Btu/h)	2,900 - 14,000
	SEER / EER		21 / 13.95
	COP (nominal heating)		2.98
	HSPF		10.5
	AHRI Certification Number		8717080
Condensate (pints/h)		2.11	
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)	1.5 / 3.1 / 5.2
		Heating (A)	1.4 / 5.3 / 6.1
	Max. Breaker	Amps	15
Min. Circuit Ampacity (A)		10.6	
Dimensions	W X H X D (in.)	Indoor Unit	27 9/16 X 7 13/16 X 23 5/8
		Outdoor Unit	31 1/8 X 21 9/16 X 11 1/4
	Weight (lbs.)	Indoor Unit	44.0
		Outdoor Unit	79.8
	Duct Connections (inches)	Supply (W X H)	26 X 6
	Return (W X H, ID)	22 11/16 X 6 11/16	
Heat Exchanger	Indoor and Outdoor Unit	Type	Aluminum Fin / Copper Tube
		Pipe Diameter (in.)	1/4
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	26 / 30 / 33
	Outdoor Unit dB(A)	Cooling / Heating (high)	46 / 47
Operating Temperatures °F(°C)	Outdoor	Cooling	23 ~ 115°F(-5 ~ 46°C) 0 ~ 115°F(-18 ~ 46°C) w/ baffle
		Heating	-4 ~ 75°F(-20 ~ 24°C)
	Indoor	Cooling	61 ~ 90°F(16 ~ 32°C)
		Heating	T ≤ 80°F(27°C)
Pipe Connections	Indoor & Outdoor	High side X low side (flare)	1/4 X 3/8
	Maximum Length	Feet	65.6
	Maximum Vertical Separation (ft.)		49
	Condensate Connection		1 1/4" OD, 1" ID
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	36.96
	Charged for		25 ft
	Additional Refrigerant		0.11 oz./ft. over 25 ft
Compressor	Type		Inverter Driven, BLDC Rotary
	RLA	A	8.1
Evaporator Fan	Type		BLDC (1) With Sirocco Fan (2)
	Air Volume	CFM (L / M / H)	283 / 318 / 353
	Output	Watts	69
	FLA	A	0.31
	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 / 1,271 CFM
Safety	Certifications	ETL (UL 1995)	
	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing	

*Certified in accordance with the AHRI Unitary Small Air-Source Heat Pumps (USHP) Certification Program which is based on the latest edition of AHRI Standard 210/240.



- Horizontal discharge airflow
- 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
- The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night.
- Electrostatic, washable filter included as standard.
- Built in condensate pump with maximum 29" lift and float switch that disables indoor unit during overflow detection

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 and indoor unit shall be 16AWG X 2 shielded

Wired or wireless controllers must be purchased separately

Controls shall integrate with a BMS system

No additional interface modules/adapters are required when connecting to Samsung NASA DVM S central control options.

Refrigerant System
The refrigerant shall be R410A

The compressor shall be hermetically sealed, inverter controlled, 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.

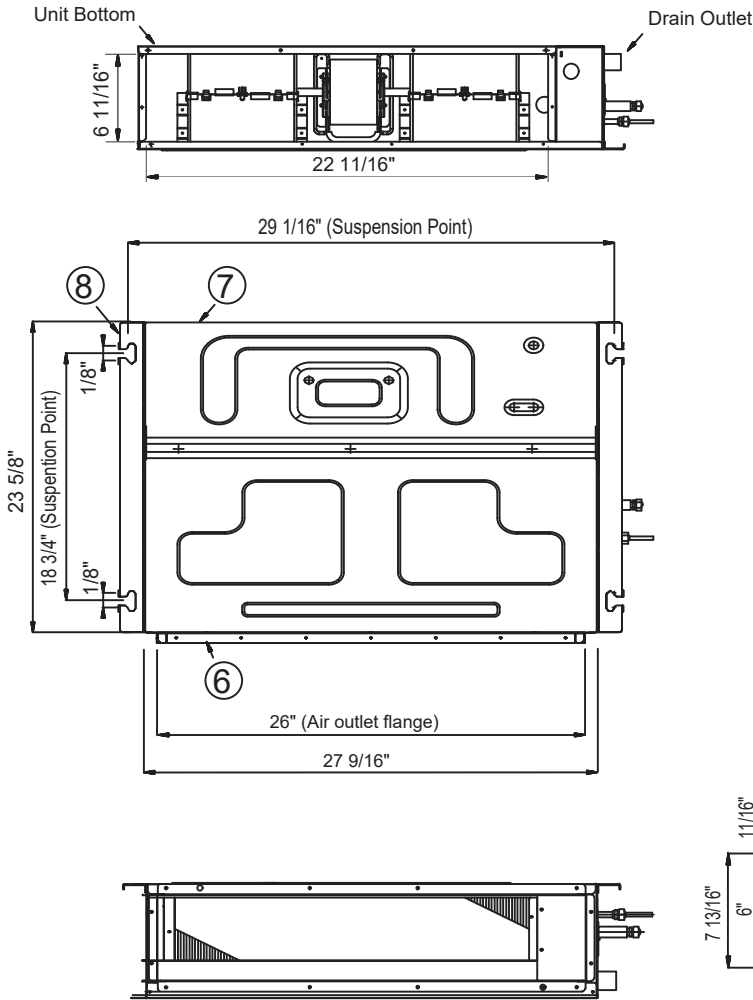
Select models are ENERGY STAR Labeled. Proper sizing and installation of equipment is critical to achieve performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit www.energystar.gov.

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

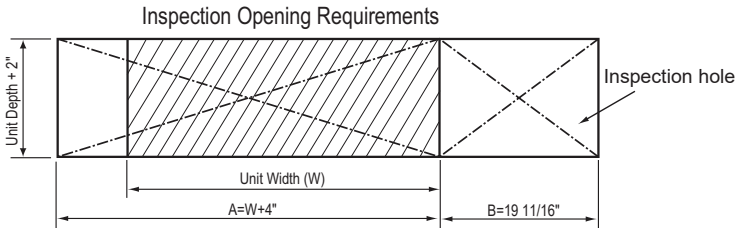
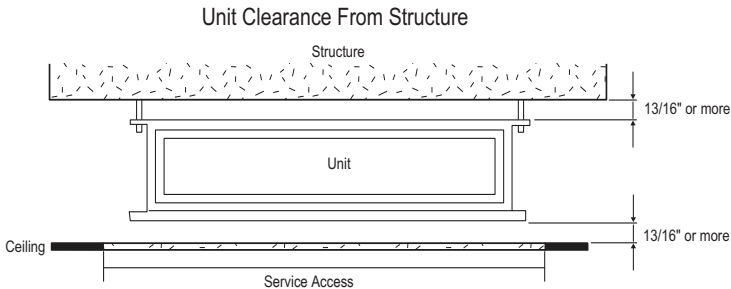
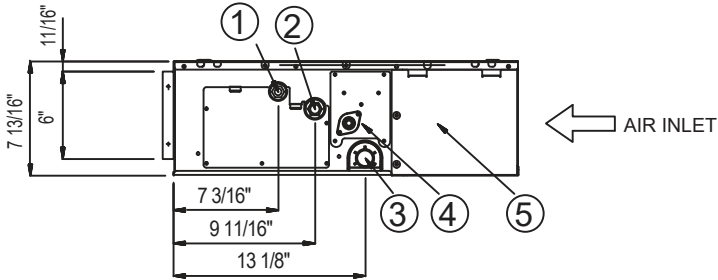


Optional Accessories

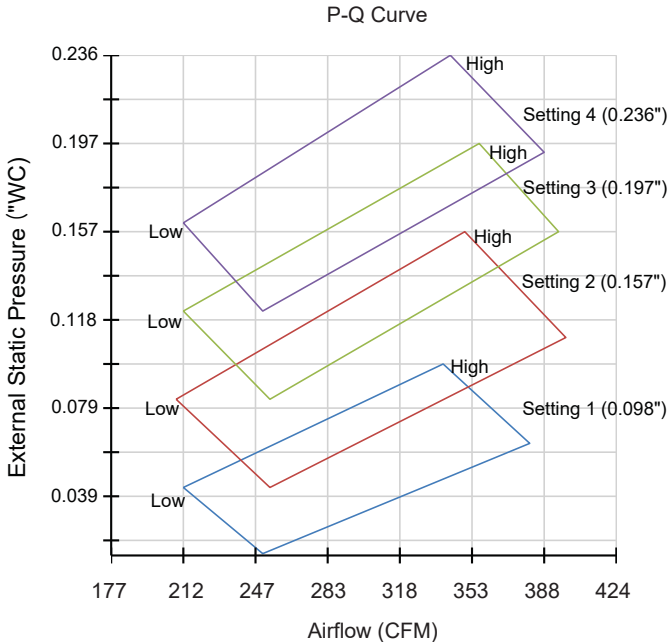
Filter Box		☐	FB-SLIM1
Wired Controller	Simplified Touch Controller	☐	MWR-SH11UN
	Advanced Wired Controller	☐	MWR-WG00UN
Wireless Signal Control	Wireless Signal Receiver	☐	MRK-A10N
	Wireless Controller	☐	AR-EH03U
Wi-Fi Adapter		☐	MIM-H04UN
External Temperature Sensor		☐	MRW-TA
External Contact Control		☐	MIM-B14
Wall Bracket (for outdoor unit)		☐	CKN-250
Wind Baffles	Front	☐	WBF-3M
	Back	☐	WBB-5M
Line Sets - insulated and flared, interconnect cables included		☐	25' - ILS2506
		☐	50' - ILS5006
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		☐	MIM-A60UN

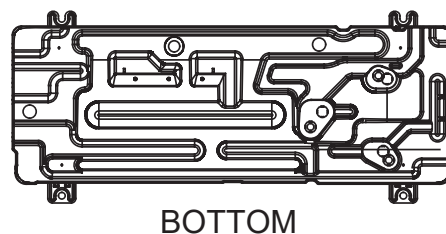
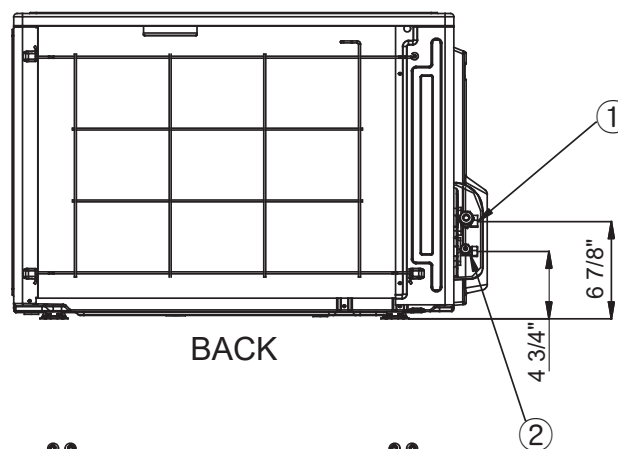
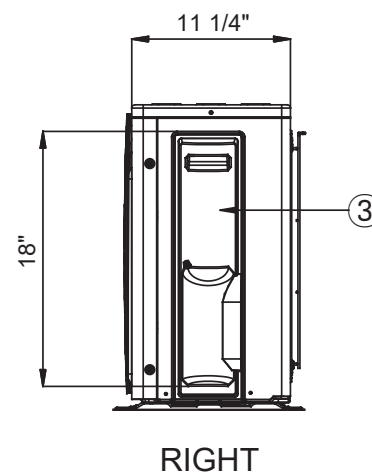
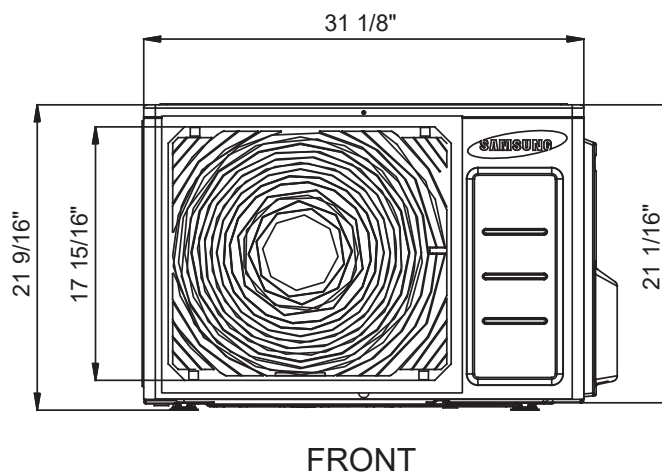
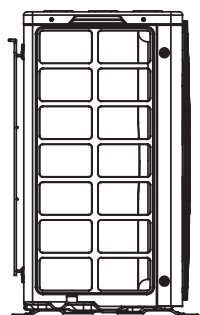
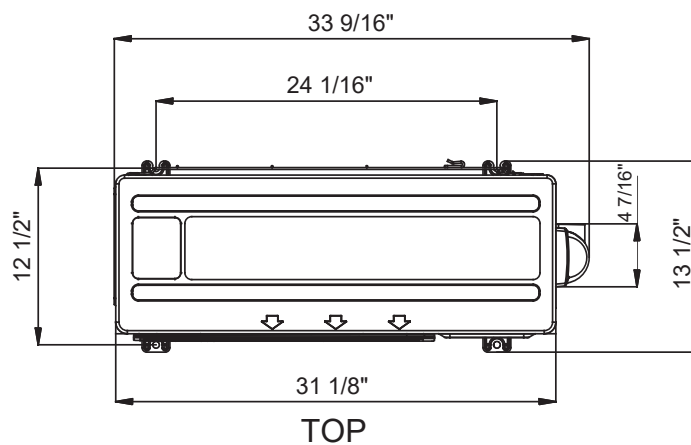


No.	Name	Description
①	Liquid Pipe Connection	Ø 1/4" Flare
②	Gas Pipe Connection	Ø 3/8" Flare
③	Drain Pipe Connection (gravity drain)	OD 1 1/4", ID 1"
④	Drain Pipe Connection (condensate pump)	OD 1 1/4", ID 1"
⑤	Control Box	-
⑥	Air Discharge Flange	-
⑦	Air Inlet	-
⑧	Suspension Hook	5/16" - 3/8"



In applications where there is not a tile ceiling, an inspection hole is required.
If height between ceiling and structure is 1.64' or more, inspection opening "B" is recommended.
If height between ceiling and structure is less than 1.64', inspection opening "A" and "B" is recommended (verify state and local codes).





No.	Name	Description
①	Gas Pipe Connection	Ø 1/4" Flare
②	Liquid Pipe Connection	Ø 3/8" Flare
③	Power and Comm. Wire Connection Cover	-