

Job Name _____
Purchaser _____
Submitted to _____
Unit Designation _____

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

Specifications

Model	Indoor Unit Model Number (US Code)		AC018KNLDCH/AA (CNH18LDK)
	Outdoor Unit Model Number (US Code)		AC018KXADCH/AA (CXH18ADK)
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/h)			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 (in.)	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 (in.)	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 (in.)	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(°C)	Outdoor	Cooling	23 ~ 115°F(-5 ~ 46°C)
		Heating	0 ~ 115°F(-18 ~ 46°C) w/ baffle
	Indoor	Heating	-4 ~ 75°F(-20 ~ 24°C)
		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 1/2
	Maximum Length	ft.	98.4
	Maximum Vertical Separation (ft.)		65.6
	Condensate Connection		1 1/4" OD, 1" ID
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	oz.	45.92
	Charged for		25 ft
	Additional Refrigerant		0.11 oz./ft. over 25 ft
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
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
- 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.
- 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, 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

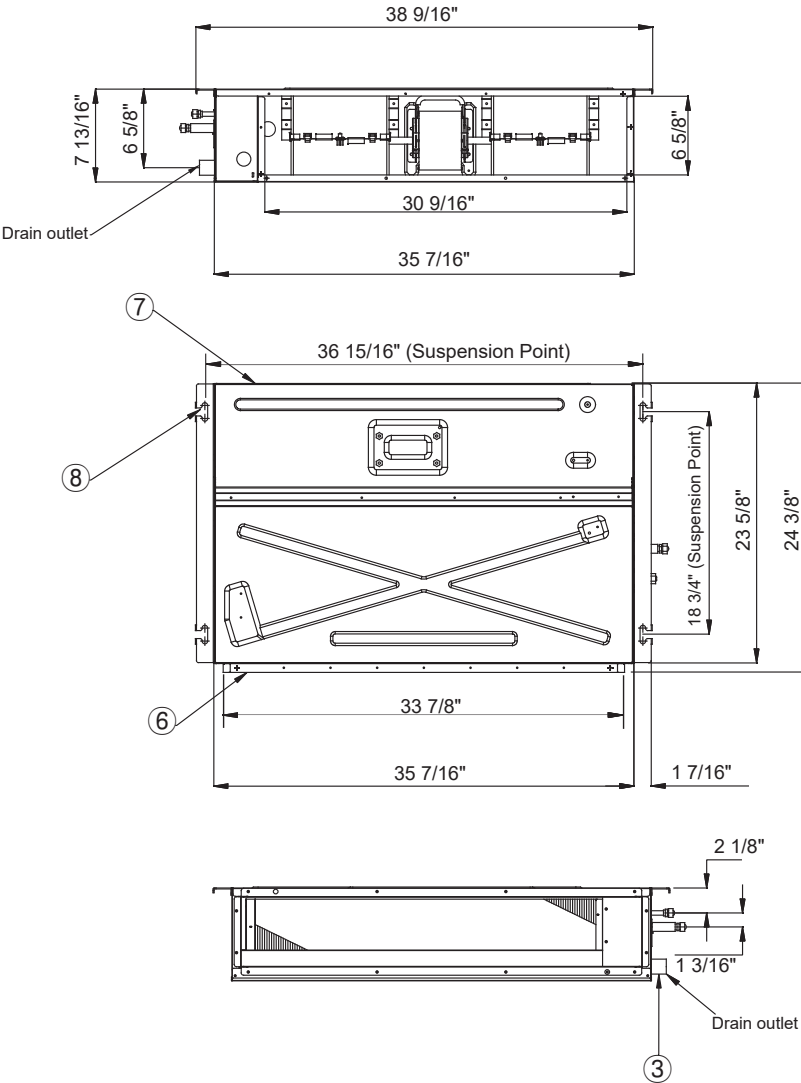
ATTENTION

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.

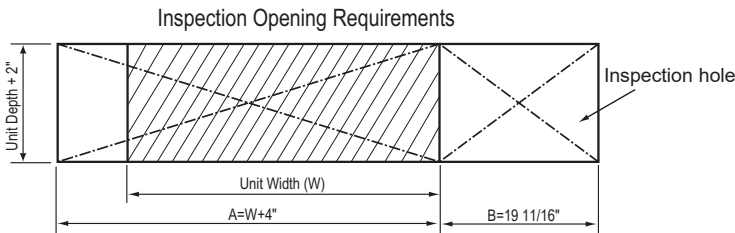
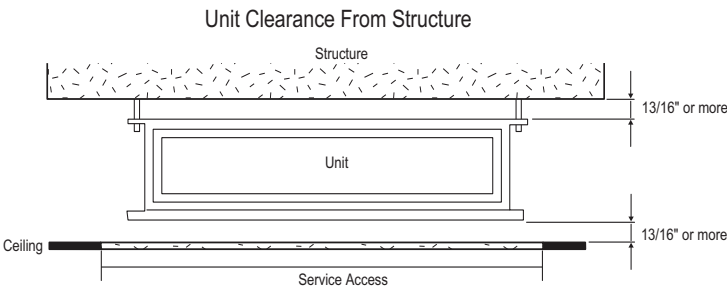
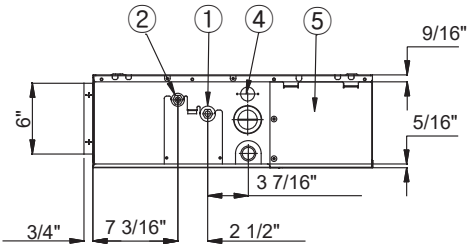
Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.

Optional Accessories

Filter Box		FB-SLIM2
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-4M
	Back	WBB-6M-B
Line Sets - insulated and flared, interconnect cables included		25' - ILS2507
		50' - ILS5007
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN

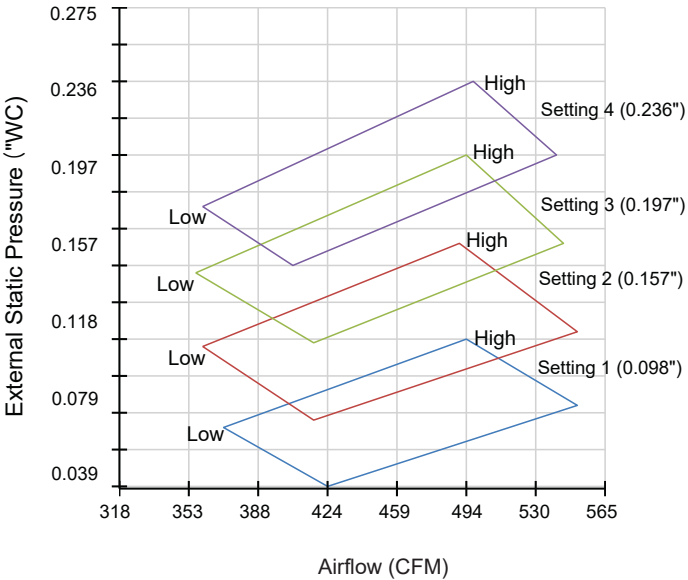


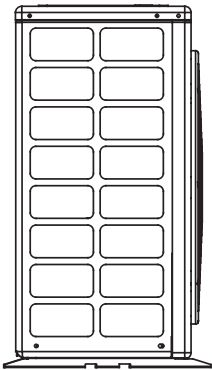
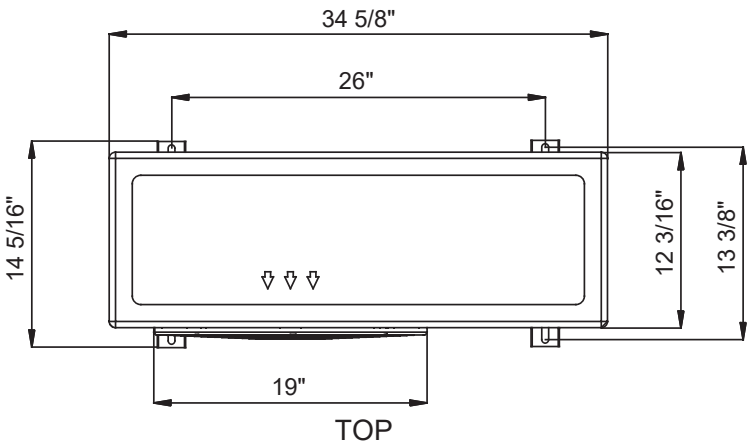
No.	Name	Description
①	Gas Pipe Connection	Ø 1/4" Flare
②	Liquid Pipe Connection	Ø 1/2" Flare
③	Drain Pipe Connection (gravity drain)	OD 1 1/4", ID 1"
④	Drain Pipe Connection (condensate pump)	OD 1 1/4", ID 1"
⑤	Control Box	-
⑥	Air Discharge Flange	-
⑦	Air Inlet	-
⑧	Suspension Hook	5/16" - 3/8"



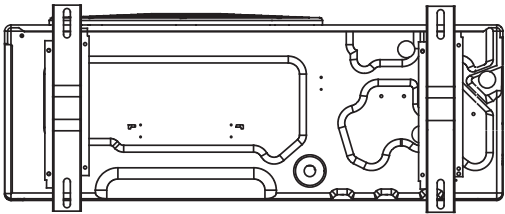
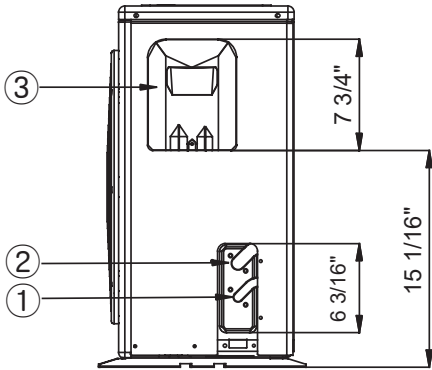
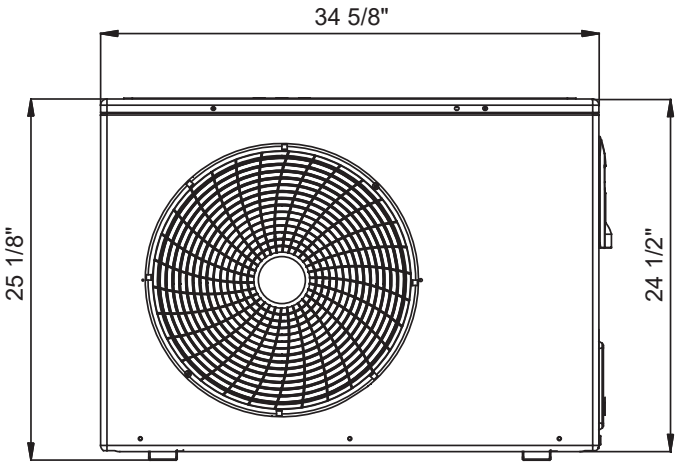
In applications where there is not a tile ceiling, an inspection hole is required.
If height between ceiling and structure is 1.64' or more, inspection opening "B" is recommended.
If height between ceiling and structure is less than 1.64', inspection opening "A" and "B" is recommended (verify state and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

P-Q Curve





LEFT



BOTTOM

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	-