SUBMITTAL AC012KNLDCH/AA, AC012KXADCH/AA Samsung, Single Zone, Slim Duct, Split System

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Job Name	Location	
Purchaser	Engineer	
Submitted to	Reference	Approval
Unit Designation	Schedule #	

	Indoor Unit Model N	Number (US Code)	AC012KNLDCH/AA (CNH12LDK	
Model		l Number (US Code)	AC012KXADCH/AA (CXH12ADK	
	Nominal Capacity*	Cooling / Heating (Btu/h)	12,000 / 14,000	
	Norminal Capacity	Cooling (Btu/h)	3,400 - 15,300	
	Capacity Range*	Heating (Btu/h)	3,000 - 16,200	
	SEER / EER	rieating (Btu/ii)	20 / 12	
Performance	COP (nominal heating)		3.16	
	HSPF		10.5	
	AHRI Certification Number		8715730	
	Condensate (pints/h)		3.38	
	Voltage	ø / V / Hz	1 / 208-230 / 60	
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each	
	Operating Current		1.6 / 4.7 / 7.1	
Power	(min. / std. / max.)		1.4 / 6.0 / 6.8	
	Max. Breaker	Amps	15	
	Min. Circuit Ampacity (A)		10.6	
	WXHXD	Indoor Unit	27 9/16 X 7 13/16 X 23 5/8	
	(in.)	Outdoor Unit	31 1/8 X 21 9/16 X 11 1/4	
	Weight	Indoor Unit	44.0	
Dimensions	(lbs.)	Outdoor Unit	79.8	
	Duct Connections	Supply (W X H)	26 X 6	
	(inches)	Return (W X H, ID)	22 11/16 X 6 11/16	
Heat	,	, , ,		
	Indoor and Outdoor		Aluminum Fin / Copper Tube	
Exchanger		Pipe Diameter (in.)		
Sound	Indoor Unit dB(A)	L/M/H	27 / 31 / 34	
Pressure Level	Outdoor Unit dB(A)	Cooling / Heating (high)	47 / 48	
	Outdoor	Castina	23 ~ 115°F(-5 ~ 46°C)	
Operating		Cooling	0 ~ 115°F(-18 ~ 46°C) w/ baffle	
Temperatures		Heating	-4 ~ 75°F(-20 ~ 24°C)	
°F(°C)	Indoor	Cooling	61 ~ 90°F(16 ~ 32°C)	
		Heating	T ≤ 80°F(27°C)	
	Indoor & Outdoor	High side X low side (flare)	1/4 X 3/8	
Pipe	Maximum Length	Feet	65.6	
Connections	Maximum Vertical Separation (ft.)		49	
	Condensate Connection		1 1/4" OD, 1" ID	
	Туре		R410A	
	Control Method		Electronic Expansion Valve	
Refrigerant	Factory Charge oz.		36.96	
rtomgorant	Charged for		25 ft	
	Additional Refrigerant		0.11 oz./ft. over 25 ft	
	Туре		Inverter Driven, BLDC Rotary	
Compressor	RLA	A	8.1	
		11		
	Type	OFM (L. / M. / L.)	BLDC (1) With Sirocco Fan (2)	
Evaparatar	Air Volume	CFM (L / M / H)	318 / 370 / 425	
Evaporator Fan	Output FLA	Watts A	69 0.31	
	FLA	A Standard ("WC)	0.31	
	Static Pressure	Min. / Max. ("WC)	0.1	
	I.	IVIII 1. / IVIAX. (VVC)		
Condenser	Motor	BLDC With Axial Type Fan (1)		
Fan	FLA / Watts / Max.	CFIM	0.17 / 39W / 1,271 CFM	
	Certifications	ET	L (UL 1995)	
Cofoty		PCB fuses, indoor unit terminal	l block thermal fuse, current	
Safety	Devices	transformer, over-voltage protection, crankcase heating, temperature		
			cuon, crankcase nealing, temperature	

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

limit protection logic, compressor overload sensing

Construction





- · 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.

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





SUBMITTAL AC012KNLDCH/AA, AC012KXADCH/AA
Samsung, Single Zone, Slim Duct, Evaporator, Split System
AC012KNLDCH/AA Accessories

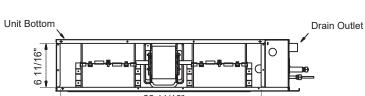
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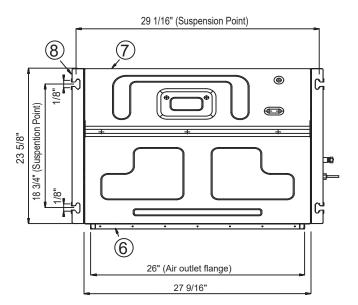
Optional Accessories

Filter Box		FB-SLIM1
Wired Controller	Simplified Touch Controller	MWR-SH11UN
	Advanced Wired Controller	MWR-WG00UN
Wireless Signal	Wireless Signal Receiver	MRK-A10N
Control	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

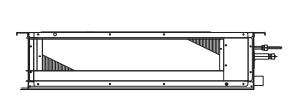
SAMSUNG

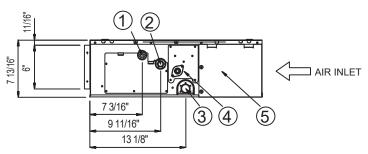
SUBMITTAL AC012KNLDCH/AA, AC012KXADCH/AA Samsung, Single Zone, Slim Duct, Split System AC012KNLDCH/AA Dimensional Drawing



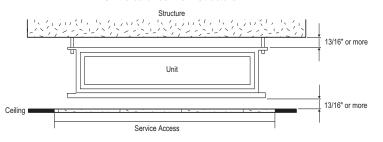


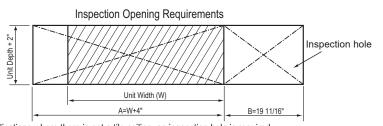
No.	Name	Description
1	Liquid Pipe Connection	Ø 1/4" Flare
2	Gas Pipe Connection	Ø 3/8" Flare
3	Drain Pipe Connection (gravity drain)	OD 1 1/4", ID 1"
4	Drain Pipe Connection (condensate pump)	OD 1", ID 3/4"
(5)	Control Box	-
6	Air Discharge Flange	-
7	Air Inlet	-
8	Suspension Hook	5/16" - 3/8"





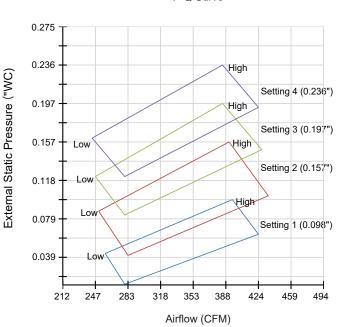
Unit Clearance From Structure



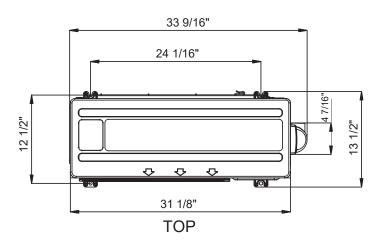


In applications where there is not a tile ceiling, an inspection hole is required. If height between ceiling and structure is 1.64' or more, inspection opening "B" is recommended. If height between ceiling and structure is less than 1.64', inspection opening "A" and "B" is recommended (verify state and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

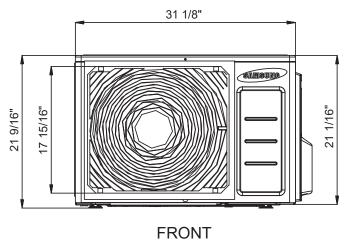
P-Q Curve

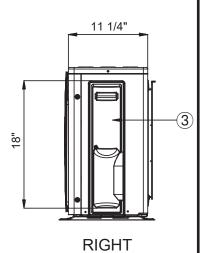


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Samsung, Single Zone, Slim Duct, Split System
AC012KXADCH/AA Dimensional Drawing

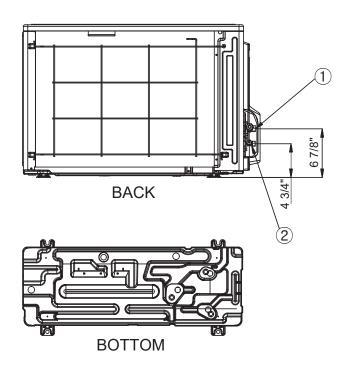








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No.	Name	Description
1	Gas Pipe Connection	Ø 1/4" Flare
2	Liquid Pipe Connection	Ø 3/8" Flare
3	Power and Comm. Wire Connection Cover	-

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