SAMSUNG

SUBMITTAL AC042JNHDCH/AA Samsung, Single Zone Duct, Split System

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Job Name _			_	
Purchaser				
Submitted to	0			
Unit Design	ation			
		Specifications		
Model	Indoor Unit Model N		AC042JNHDCH/AA	
	Outdoor Unit Model Number		AC042JXADCH/AA	
Performance	Nominal Capacity	Cooling / Heating (Btu/h) Cooling (Btu/h)	42,000 / 47,000 16,300 - 45,000	
	Capacity Range	Heating (Btu/h)	13,400 - 50,000	
	SEER / EER		19.0 / 10.5	
	COP (nominal heating) HSPF		3.46 10.0	
	AHRI Certification Number		8032174	
	Condensate (pints/hour)		9.37	
Power	Voltage	ø / V / Hz	1 / 208-230 / 60	
	Working Voltage Ra Operating Current	Cooling (A)	176 - 254 (max. 3% deviation from each) 5.6 / 16.4 / 21.0	
	(min. / std. / max.)	Heating (A)	4.3 / 17.3 / 25.0	
	Max. Breaker	Amps	35	
	Min. Circuit Ampaci		25.5	
	W X H X D (inches)	Indoor Unit Outdoor Unit	47 1/4 X 14 3/16 X 25 9/16 37 X 48 X 13	
5	Weight	Indoor Unit	128	
Dimensions	(lbs.)	Outdoor Unit	194	
	Duct Connections (W X H)	Supply (inches)	45 3/4 X 10 15/16 45 5/8 X 10 1/4	
	(VV A FI)	Return (ID, inches)		
	Indoor & Outdoor Unit	Type FPI	Aluminum Fin / Copper Tube	
Heat Exchanger		Pipe Diameter (inches)	1/4	
	Outdoor Unit	Туре	Aluminum, flat fin, micro channe	
Sound Pressure	Indoor Unit dB(A)	L/M/H	34 / 37 / 40	
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	51 / 53	
Operating	Outdoor	Cooling	23 ≤ T ≤ 115 0 ≤ T ≤ 115 w/wind baffle	
Temperatures		Heating	-4 ≤ T ≤ 76	
(°F)		Cooling	61 ≤ T ≤ 90	
		Heating	T ≤ 80	
	Indoor & Outdoor	High side (flare) Low side (flare)	3/8" 5/8"	
Pipe Connections	Maximum (ft.) Maximum Vertical Separation (ft.)		246	
			98	
	Condensate Connection		1" OD, 3/4" ID	
	Type Control Method		R410A	
Refrigerant	Factory Charge	OZ.	Electronic Expansion Valve 98.77	
rtomgoram	Charged for	+	25 feet	
	Additional Refrigerant		0.355 oz/ft over 25 feet	
Compressor	Manufacturer		Samsung	
	Type RLA	Amps	Inverter Driven, Twin BLDC, Rotary 17.0	
Evaporator Fan	Туре	1	BLDC (2) With Sirocco Fan (2)	
	Air Volume	CFM (L/M/H)	1160 / 1280 / 1400	
	Output (W) / FLA (A		183 W X 2 / 1.9 A X 2	
	Static Pressure	Standard ("WC) Min. / Max. ("WC)	0.12 0 - 0.8	
	Motor	, , , , , , , , , , , , , , , , , , ,	BLDC With Axial Type Fan (2)	
Condenser Fan	FLA / Watts / CFM	(max.)	0.48 A X 2 / 125 W X 2 / 3,040 CFN	
Optional Accessories	Wired Controller	Simplified	MWR-SH00N	
		Simplified Touch Controller	MWR-SH10N	
	Wi-Fi Adapter	Premium w/scheduling	MWR-WE10N MIM-H03UN	
	Wireless Signal	Wireless Signal Receiver	MRK-A10N	
	Control	Wireless Controller	MR-EH00U	
	External Temperature Sensor Filter Box		MRW-TA FB-M48/H3648	
	External Contact Control		MIM-B14	
	Central Control Interface Module for Connection		MIM-N01	
	to DVM Plus Controls (non-NASA) Wall Bracket (for outdoor unit)		CKN-250	
	,	Front	WBF-1 (requires 2)	
	Wind Baffles	Back	WBB-2	
	Line Sets - insulate cables included	d and flared, interconnect	25' - ILS-2510 50' - ILS-5010	
		<u> </u>		
Safety	Certifications ETL Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage			
	and the second s			

Location

Engineer

Reference Approval Construction

Schedule #





- 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 addressing and option settings shall be done digitally; the indoor unit does not contain rotary dials or setting switches.
- The indoor unit shall have a built-in condensate pump as standard with a 29" lift (from bottom of unit).
- Pipe connections at the outdoor unit shall be made inside the unit chassis. Refrigerant pipes can exit through the front, side, rear, or bottom sides of the outdoor unit.
- The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night (automatic or manual activation with dry contact signal).

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 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 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 (conditions apply)

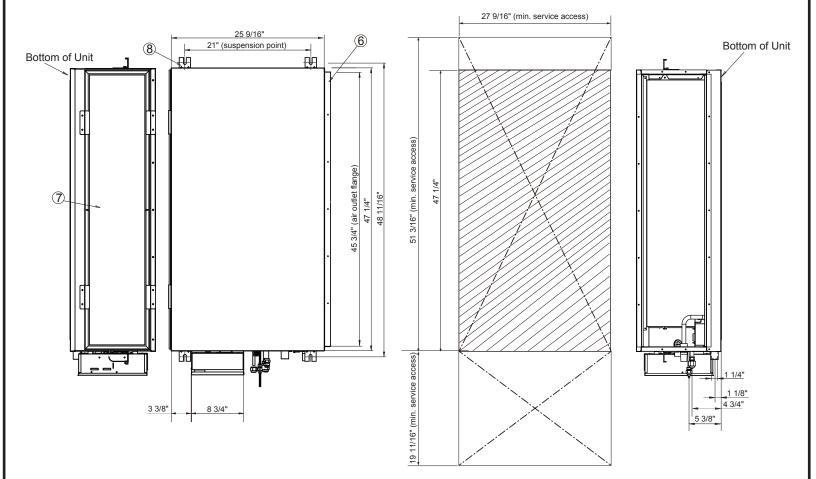
Quietside maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.

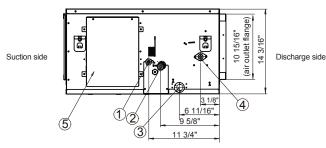


Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.
Nominal heating capacities are based on: Indoor temperature: 70 F DB, 60 F WB. Outdoor temperature: 47 F DB, 43 F WB.

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SUBMITTAL AC042JNHDCH/AA Samsung, Single Zone Duct, Split System AC042JNHDCH/AA Dimensional Drawing





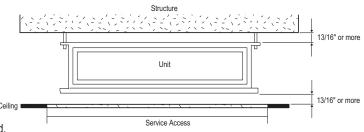
No.	Name	Description
1	Liquid Pipe Connection	Ø 3/8" Flare
2	Gas Pipe Connection	Ø 5/8" Flare
3	Drain Pipe Connection (gravity drain)	OD 1", ID 3/4"
4	Drain Pipe Connection (condensate pump)	OD 1", ID 3/4"
5	Control Box	-
6	Air Discharge Flange	-
7	Air Inlet	-
8	Suspension Hook	5/16" - 3/8"

Inspection Opening Requirements Unit Width (W) P=22 E(9)*

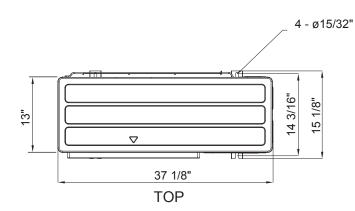
In applications where there is not a tile ceiling, an inspection hole is required.

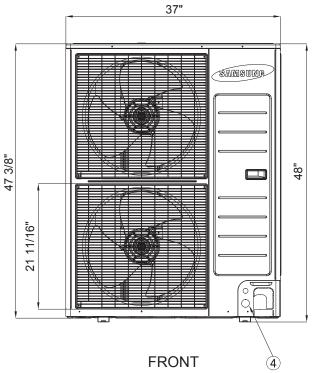
If height between ceiling and structure is 3.25' or more, inspection opening "B" is recommended. If height between ceiling and structure is less than 3.25', inspection opening "A" and "B" is recommended. (verify state and local codes).

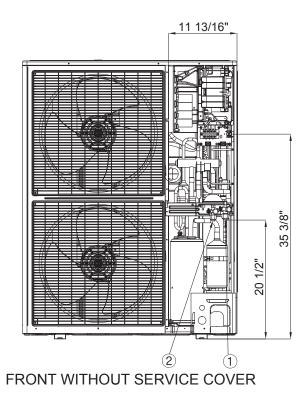
Unit Clearance From Structure

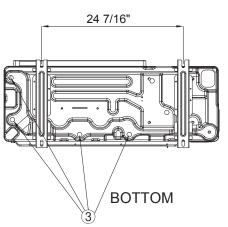


Samsung, Single Zone Duct, Split System AC042JXADCH/AA Dimensional Drawing









No.	Description		
1	Suction service valve		
2	Liquid service valve		
3	Drain opening		
4	Power and communication conduit openings		

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