SAMSUNG

SUBMITTAL AC024MNADCH/AA

Samsung, High-Wall Evaporator, Split System

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

EAMSTON	
	0



- · Wall-mounted evaporator
- · Low ambient control built in
- \cdot 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.
- \cdot The indoor unit 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 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

Indoor unit chassis shalle be UL94 V0 with a galvanized steel mounting plate

The indoor unit shall have easy-access to wire, pipe, and drain connections via access panel on front of unit for easier installation and service

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 controls must be purchased separately

Wireless controller included

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.

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

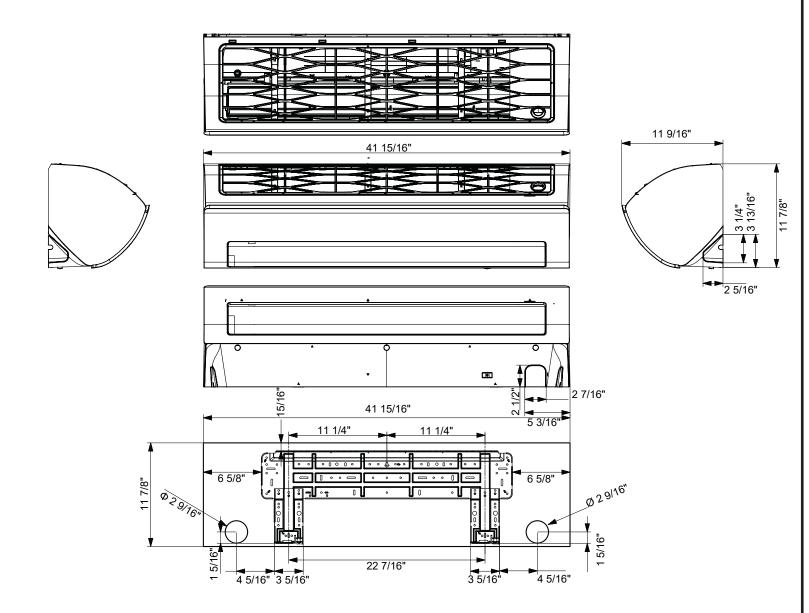
10 years compressor, 10 years parts, 1 year limited labor (conditions apply)

Submitted to Unit Design				
		Oppositionations		
	Indoor Unit Model N	Specifications lumber	AC024MNADCH/AA	
Model	Outdoor Unit Model		AC024JXADCH/AA	
	Nominal Capacity	Cooling / Heating (Btu/h)	24,000 / 27,000	
	Capacity Range	Cooling (Btu/h)	7,000 - 27,000	
5 (. , ,	Heating (Btu/h)	5,200 - 31,000	
Performance	SEER / EER COP (nominal heati	ina)	18.3 / 10.21 3.08	
	HSPF		10.8	
	AHRI Certification Number		10227625	
	Voltage	ø / V / Hz	1 / 208-230 / 60	
	Working Voltage Ra		176 - 254 (max. 3% deviation from each	
Power	Operating Current (min. / std. / max.)		2.5 / 10.4 / 10.5	
	Max. Breaker	Amps	2.5 / 11.4 / 14.5 20	
	Min. Circuit Ampaci		12.5	
	WXHXD	Indoor Unit	41 7/8 X 11 5/8 X 11 7/8	
Dimensions	(in.)	Outdoor Unit	37 X 39 5/16 X 13	
Dimensions	Weight	Indoor Unit	32.19	
	(lbs.)	Outdoor Unit	142.20	
	Indoor & Outdoor	Туре	Aluminum Fin / Copper Tube	
Heat Exchanger	Unit	FPI Pipe Diameter (in.)	18 1/4	
	Outdoor Unit	Type	Aluminum, flat fin, micro chann	
Sound Pressure	Indoor Unit dB(A)	(Silent) / L / M / H	32 / 35 / 39 / 43	
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	50 / 50	
0	0.11	Cooling	23 ~ 115°F(-5 ~ 46°C)	
Operating Temperatures	Outdoor	Heating	0 ~ 115°F(-18 ~ 46°C) w/ bafflor -4 ~ 76°F(-20 ~ 24°C)	
°F(°C)		Cooling	-4 ~ 76°F(-20 ~ 24°C) 61 ~ 90°F(16 ~ 32°C)	
. (0)	Indoor	Heating	T ≤ 80(27°C)	
		High side (flare)	1/4"	
	Indoor & Outdoor	Low side (flare)	5/8"	
Pipe Connections			164	
	Maximum Vertical S Condensate Conne	,	98 11/16" OD	
	1	CHOIT	11/16" OD	
	Type Control Method		R410A Electronic Expansion Valve	
Refrigerant	Factory Charge	OZ.	74.08	
_	Charged for	1	25 ft	
	Additional Refrigera	ınt	0.11 oz/ft over 25 ft	
_	Manufacturer		Samsung	
Compressor	Туре	A	Inverter Driven, Twin BLDC, Rotar	
	RLA	Amps	9.0	
Evaporator Fan	Type Air Volume	CFM (L/M/H)	BLDC with Crossflow fan (1)	
Evaporator Fan	Output (W) / FLA (A		410 / 477 / 551 27 W / 0.70 A	
	Motor	,		
Condenser Fan	FLA / Watts / CFM	(max.)	0.48 A / 125 W / 2,190 CFM	
		Simplified Touch Controller	MWR-SH11UN	
	Wired Controller	Advanced Wired Controller	MWR-WG00UN	
	Condensate pump	Aspen Mini Orange	ASP-MO-UNIV 110-250	
		Blue Diamond	BD-BLUE230	
	Wi-Fi Adapter		MIM-H04UN	
Optional	External Temperature Sensor External Contact Control		MRW-TA MIM-B14	
Accessories	Central Control Interface Module for Connection			
	to DVM Plus Controls (non-NASA)		MIM-N01	
	Wall Bracket (for ou	,	CKN-250	
	Wind Baffles	Front	WBF-2M	
	Line Sets - insulate	Back d and flared, interconnect	WBB-3M 25' - ILS2509	
	cables included	a aa naroa, mioroomiidol	50' - ILS5009	
			1	
Safety	Certifications Devices: PCB fuses, in		FL (UL 1995) fuse, current transformer, over-voltage	
	Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing			

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

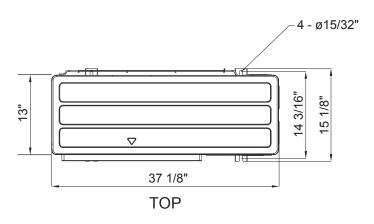
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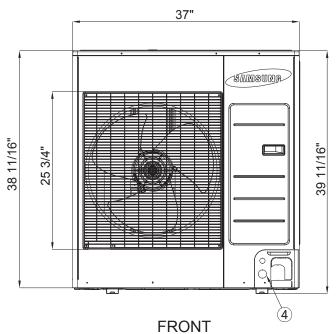
Samsung, High-Wall Evaporator, Split System AC024MNADCH/AA Dimensional Drawing

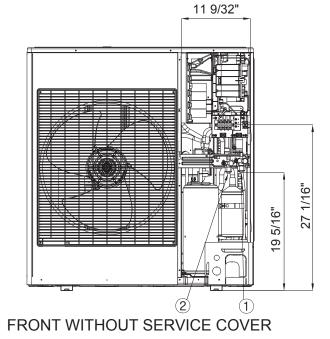


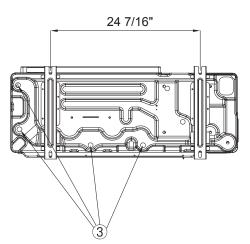
No.	Name	Description
1	Liquid pipe connection	1/4"
2	Gas pipe connection	5/8"
3	Drain pipe connection	11/16"
4	Power supply & Communication wiring conduit	-

Samsung, High-Wall Evaporator, Split System AC024JXADCH/AA Dimensional Drawing









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