SUBMITTAL AC024BNADCH/AA / AC024BXADCH/AA (CNH24ADB / CXH24AE Samsung WindFree™ High-Wall Evaporator, Split System

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Job Name	
Purchaser	
Submitted to	
Unit Designation	
_	Specifications

Model		Specifications	
Model	Indoor Unit Model Nu	•	AC024BNADCH/AA (CNH24ADB
	Outdoor Unit Model N	, ,	AC024BXADCH/AA (CXH24ADB
	Nominal Capacity	Cooling / Heating (Btu/h)	24,000 / 27,000
	140minar Capacity	Cooling (Btu/h)	8,000 - 27,000
	Capacity Range	Heating (Btu/h)	7,000 - 40,000
		SEER	18.9
Performance	AHRI 210-240 2017 ¹	EER	10.3
		HSPF	10.80
		SEER2	19.5
	AHRI 210-240 2023 ²	EER2	10.3
		HSPF2	8.5
	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Rang	ge (VAC)	187 - 253
Power	Operating Current	Cooling (A)	2.5 / 10.6 / 12.9
owei	(min. / std. / max.)	Heating (A)	2.0 / 12.4 / 23.5
	Max. Breaker	Amps	30
	Min. Circuit Ampacity	(A)	24.1
	MVIIVD (in)	Indoor Unit	41 9/16 X 8 7/16 X 11 3/4
Dimensions	W X H X D (in.)	Outdoor Unit	37 X 39 5/16 X 13
Dirichsions	Weight (lbs.)	Indoor Unit	28
	Troigin (ibo.)	Outdoor Unit	158.7
Sound Pressure	Indoor Unit dB(A)	L/M/H	35 / 39 / 44
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	50 / 52
		Cooling	23 ~ 122°F (-5 ~ 50°C)
	Outdoor		0 ~ 122°F (-18 ~ 50°C) W/Baffle
Operating Temperatures		Heating	-13 - 75°F (-25 - 24°C)
remperatures	Indoor	Cooling	64 ~ 90°F (16 ~ 32°C)
	Indoor	Heating	T ≤ 86°F (30°C)
		High side	1/4"
	Indoor & Outdoor	Low side	5/8"
Pipe Connections	Maximum (ft.)		164
0000	Maximum Vertical Sep	paration (ft.)	98.4
	Condensate Connecti	on	11/16 in. OD
	Туре		R410A
Refrigerant	Factory Charge	lbs.	5.73
	Charged for		24.6 ft.
	Manufacturer		Samsung
Compressor	Туре		Inverter Driven, Twin BLDC Rotar
·	RLA Amps		15.9
	Туре		BLDC With Crossflow Fan (1)
Evaporator Fan	Air Volume	CFM (L/M/H)	466 / 537 / 629
	Output	Watts	27
Condenser	Motor	•	BLDC With Axial Type Fan (1)
Fan	FLA / Watts / CFM (m	ax.)	1.25A X 1 / 125W X 1 / 2,684 CFM
	Certifications	,	L 60335-2-40

	Certifications	UL 60335-2-40
Safety	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing

This publication reflects both the 1987 Appendix M metric (SEER) and the 2023 Appendix M1 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy metrics

¹Performance data certified by AHRI to AHRI 210-240 (2017) with Addendum 1. ²Performance data certified by AHRI to AHRI 210-240 (2023). Effective January 1st, 2023.

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

The WindFree[™] unit delivers an air current that is under 0.15 m/s while in WindFree[™] mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers)

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.

Location			
Engineer			
Reference	Approval	Construction	
Schedule #			





General Information

- The indoor unit shall feature "WindFree™" mode*. In cooling mode, as room temperature nears set temperature, the unit will close its louver and will disperse air into the space through thousands of micro-holes on the front of the indoor unit preventing cold air drafts on occupants
- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire
- High-voltage terminal block temperature sensor to disable unit in the event of power connection overheating
- Auto-restart after power loss
- · Soft-start compressor minimizing current inrush
- Base pan heater equipped as standard
- All heat exchangers shall be mechanically bonded aluminum fin to copper tube
- The condensing unit heat exchanger salt spray test method: ISO-9227 the heat exchanger showed no unusual rust or corrosion development to 3,000 hours.
- The system shall provide 100% heating capacity at -4°F (-20°C).

Option settings

- The outdoor unit shall have snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- Night-time Quiet Mode: reduction of operational sound during evening hours (automatic or manual activation)
- Emergency Temperature Output (ETO) function: when indoor unit is in error status or when room temperature exceeds configurable temperature level, the system outputs a signal to an external source, e.g., backup system, building management system, alert device (ex: status light, warning lamp, buzzer)
- System can be configured as heating/cooling, cooling only, or heating only via outdoor unit option setting
- Maximum Current Control configurable from 50% 100% via outdoor unit, wired controller, or central controls

Indoor Fan

- · Indoor fan is a single crossflow type
- Three fan speed settings and auto setting
- Washable filter as standard
- The WindFree™ function will close the supply air outlet louver while in cooling mode to gently disperse cool air into the space without blowing directly onto occupants. The WindFree™ feature is optional and can be enabled using central or local control
- The WindFree™ indoor unit has an integral humidity sensor that will open the louver for standard cool mode when space conditions could potentially cause condensation formation on the chassis surface

Construction

- · Outdoor unit: Galvanized steel with a baked-on powder coated finish for durability
- Indoor unit: 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 the front of the unit for easier installation and service

Controls

- Control wiring shall be 2 X 16 AWG
- Wireless controller included as standard
- Wired controllers must be purchased separately
- Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller or central control options
- No additional interface modules/adapters are required when connecting to Samsung central control options
- The unit shall be operated via a wireless or wired remote control with DDC type

Refrigerant System

- The compressor shall be hermetically sealed, inverter-controlled Twin BLDC rotary
- Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Warranty

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







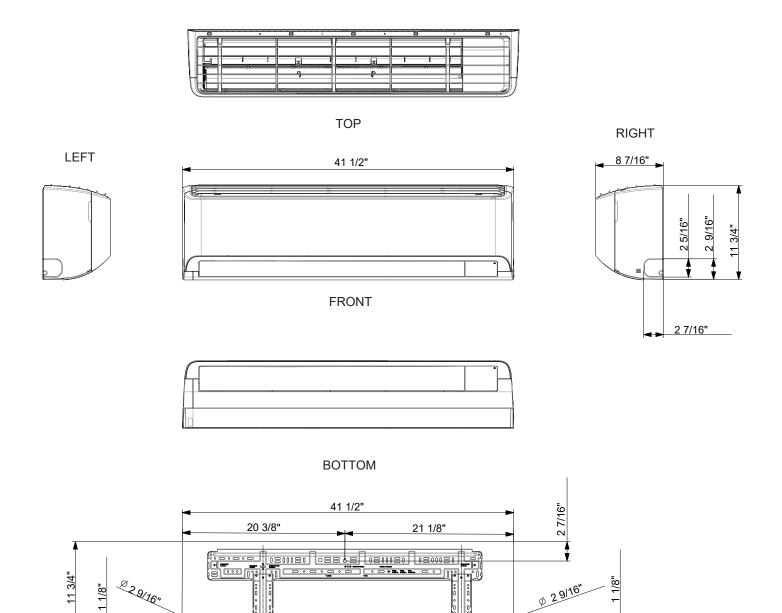
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Optional Accessories

Wired Controller	Advanced	MWR-WG00UN
	Touchscreen	MWR-SH11UN
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN
Wi-Fi adapter		MIM-H05UN
External Temperature Sensor		MRW-TA
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-2M-B
	Back	WBB-3M
Hail Guard Kit (includes back and side guards)		HGK-3
Line Sets - insulated and flared, interconnect cables		25' - ILS-2509
included		50' - ILS-5009

AC024BNADCH/AA Dimensional Drawing

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

2 1/2"

3 5/16

Wall hole for Right Rear Piping

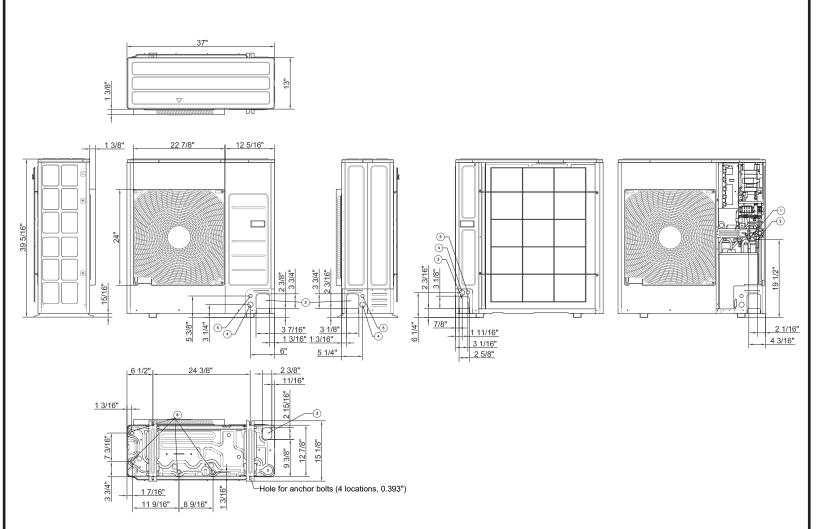
24 7/8"

2 1/2"

6 15/16

Wall hole for Left Rear Piping





No.	Name	Description
1	Liquid pipe connection	ø 1/4"
2	Gas pipe connection	ø 5/8"
3	Piping knockout hole	Front, side, rear, and bottom
4	Power supply knowkout hole	Front, side, and rear (Ø 1 3/8")
5	Comm. Wiring knockout hole	Front, side, and rear (Ø 7/8")
6	Drain hole	Connect using provided drain fitting