SUBMITTAL AC024BN4DCH/AA / AC024BXADCH/AA (CNH244DB / CXH24ADB)

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Samsung WindFree™	4-Way Cassette,	Single Zone,	Split System

Job Name	Э		
Purchase	r		
Submitted	to to		
Unit Desig	gnation		
·		Specifications	
	Indoor Unit Model Nu	mber (US Code)	AC024BN4DCH/AA (CNH244DB)
Model	Outdoor Unit Model N	umber (US Code)	AC024BXADCH/AA (CXH24ADB)
	Nominal Capacity	Cooling / Heating (Btu/h)	24,000 / 27,000
		Cooling (Btu/h)	8,000 - 32,000
	Capacity Range	Heating (Btu/h)	7,000 - 40,000
		SEER	20.5
Performance	AHRI 210-240 2017 ¹	EER	12.6
		HSPF	10.40
		SEER2	21.0
	AHRI 210-240 2023 ²	EER2	12.6
		HSPF2	8.6
	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Rang	ge (VAC)	187 - 253
B	Operating Current	Cooling (A)	2.3 / 8.6 / 14.0
Power	(min. / std. / max.)	Heating (A)	2.2 / 11.2 / 23.6
	Max. Breaker	Amps	30
	Min. Circuit Ampacity	(A)	24.1
		Indoor Unit	33 1/16 X 9 11/16 X 33 1/16
	W X H X D (in.)	Outdoor Unit	37 X 39 5/16 X 13
Dimensions	Weight (lbs.)	Indoor Unit	35.3
		Outdoor Unit	158.7
Sound	Indoor Unit dB(A)	L/M/H	30 / 33 / 36
Pressure 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	Indees	Cooling	61 ~ 90°F (16 ~ 32°C)
	Indoor	Heating	T ≤ 86°F (30°C)
		High side	1/4"
	Indoor & Outdoor	Low side	5/8"
Pipe	Maximum (ft.)		164
Connections	Maximum Vertical Separation (ft.)		98.4
	Condensate Connection		1 1/4" OD, 1" ID
	Туре		R410A
Refrigerant	Factory Charge lbs.		5.73
	Charged for		24.6 ft.
	Manufacturer		Samsung
Compressor	Type		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	15.9
	Туре	•	BLDC (1) With Turbo Type Fan (1)
Evaporator Fan	Air Volumo	CEM (L/M/H)	636 / 7/2 / 8/8

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.

LXWXH (in.)

Weight (lbs.)

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.

Watts

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)

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

Select models are ENERGY STAR labeled. Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask our contractor for details or visit www.energystar.gov

Location Engineer Reference Approval Construction Schedule #





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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: ASTM-B117-18 The heat exchanger showed no unusual rust or corrosion development to 3,000 hours
 - •Integral condensate pump with maximum 29" lift from bottom of the unit with check valve and float switch to disable unit in the event of condensate overflow.
- •Knock-out for outside air capability (with booster fan connection)
- •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 turbo type
- · Three fan speed settings and auto setting
- Washable filter as standard
- Fascia panel shall have LED display, infrared receiver, and motorized louver(s)
- 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 options.
- 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: Insulated, HIPS chassis and fascia panel certified to UL94 V0

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BLDC With Axial Type Fan (1)

1.25A X 1 / 125W X 1 / 2,684 CFM

37 3/8 X 37 3/8 X 2 1/2 in.

UL 60335-2-40

temperature limit protection logic, compressor overload sensing

PCB fuses, indoor unit terminal block thermal fuse, current

transformer, over-voltage protection, crankcase heating,

- Control wiring shall be 2 X 16 AWG
- 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 signal

Refrigerant System

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

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









Output

Motor

FLA / Watts / CFM (max.)

WindFree™* Type

Certifications

Devices

Condense

Fascia Panel

Safety

SAMSUNG

SUBMITTAL AC024BN4DCH/AA / AC024BXADCH/AA (CNH244DB / CXH24ADB) Samsung WindFree™ 4-Way Cassette, Single Zone, Split System

Required Accessories

Fascia panel	WindFree [™] Type	PC4NUFMUN
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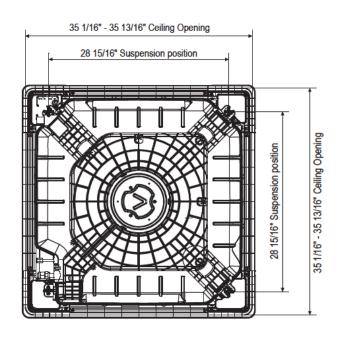
Optional Accessories

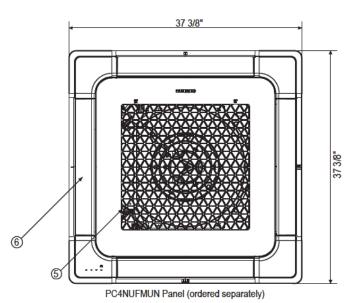
Wired controller	Advanced MWR-WG00UN	
whed controller	Touchscreen	MWR-SH11UN
Thermostat adapter (24vac)		MIM-A60UN
Wireless controller	AR-EH04U	
Wi-Fi adapter	Single indoor unit	MIM-H14UN
vvi-ri adaptei	1-16 indoor units	MIM-H05UN
Motion Detection Sensor		MCR-SMC
External temperature sensor		MRW-TA
External contact control		MIM-B14
Wall bracket (for outdoor unit)		CKN-250
Wind baffle	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' - ILS2509
included		50' - ILS5009

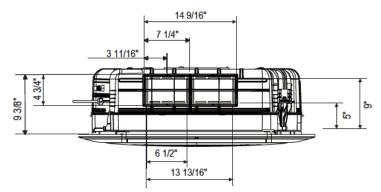
SAMSUNG

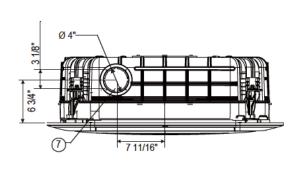
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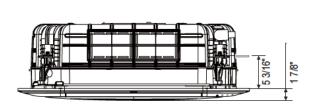
AC024BNADCH/AA Dimensional Drawing

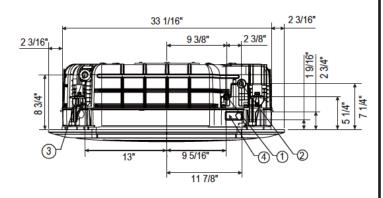


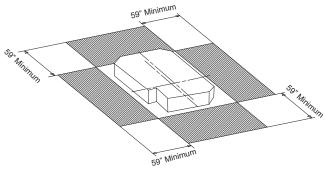










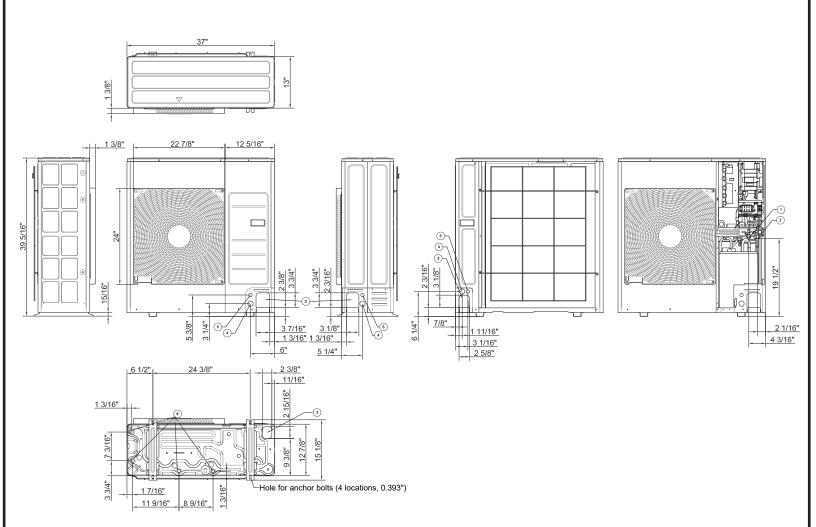


Dropor	alaaranaa	must be	maintained	around un	it for proper	operation

No.	Name	Description
1	Liquid Pipe Connection	Ø 1/4" Flare
2	Gas Pipe Connection	Ø 5/8" Flare
3	Drain Pipe Connection	OD 1 1/4", ID 1"
4	Conduit for Power & Communication Wil	ring _
5	Air Inlet Grille	-
6	Air Outlet Louver	-
7	Fresh Air Inlet	Ø 4"

Samsung WindFree™ 4-Way Cassette, Single Zone, Split System

AC024BXADCH/AA Dimensional Drawing



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