Model

SUBMITTAL AC009BN1DCH/AA / AC009BXADCH/AA (CNH091DB / CXH09ADB)

Samsung WindFree™	1-Way Cassette,	Single Zone,	Split Syster
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Job Name	Location	
Purchaser	Engineer	
Submitted to	Reference Approval Cor	nstruction
Unit Designation	Schedule #	

AC009BN1DCH/AA (CNH091DB)

AC009BXADCH/AA (CXH09ADB) 9,000 / 12,000





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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: ISO-9227 The heat exchanger showed no unusual rust or corrosion development to 500 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.

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
- 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

BLDC With Axial Type Fan (1)

0.42A X 1 / 40W X 1 / 1,060 CFM

19.69 x 47.17 x 1.38

9.5

UL 60335-2-40

PCB fuses, indoor unit terminal block thermal fuse, current

transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing

- 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)

	Norminal Capacity	Cooling / Heating (Did/H)	0,0007 12,000
Performance	Canacity Dance	Cooling (Btu/h)	2,700 - 12,500
	Capacity Range	Heating (Btu/h)	2,400 - 18,000
		SEER	21.8
	AHRI 210-240 2017 ¹	EER	13.4
		HSPF	13.50
		SEER2	22.1
	AHRI 210-240 2023 ²	EER2	13.4
		HSPF2	8.3
	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Rang	ge (VAC)	187 - 253
Dawar	Operating Current	Cooling (A)	1.1 / 3.3 / 5.8
Power	(min. / std. / max.)	Heating (A)	1.1 / 5.5 / 9.5
	Max. Breaker	Amps	15
	Min. Circuit Ampacity (A)		10.9
	WY11Y B (;)	Indoor Unit	38 3/16 X 5 5/16 X 16 1/8
. .	W X H X D (in.)	Outdoor Unit	31 1/8 X 21 9/16 X 11 1/4
Dimensions	M : 1 / ///)	Indoor Unit	20.5
	Weight (lbs.)	Outdoor Unit	74.3
Sound Pressure	Indoor Unit dB(A)	L/M/H	26 / 29 / 32
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	46 / 47
	Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C)
o			0 ~ 122°F (-18 ~ 50°C) W/Baffle
Operating Temperatures		Heating	-13 ~ 75°F (-25 ~ 24°C)
Temperatures	Indoor	Cooling	61 ~ 90°F (16 ~ 32°C)
	mdoor	Heating	T ≤ 86°F (30°C)
	Indoor & Outdoor	High side (flare)	1/4"
D :	indoor & Outdoor	Low side (flare)	3/8"
Pipe Connections	Maximum (ft.)		65.6
Comicononio	Maximum Vertical Separation (ft.)		49.2
	Condensate Connection		1 1/4" OD, 1" ID
	Туре		R410A
Refrigerant	Factory Charge	lbs.	2.54
	Charged for		24.6 ft.
	Manufacturer		Samsung
Compressor	Туре		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	6
	Туре		BLDC (1) With Turbo Type Fan (1)
Evaporator Fan	Air Volume CFM (L/M/H)		205 / 230 / 258
	Output	Watts	27

Specifications

Cooling / Heating (Btu/h)

Indoor Unit Model Number (US Code)

Nominal Capacity

Outdoor Unit Model Number (US Code)

This publication reflects both the 1987 Appendix M metric (SEER) and the 2023 Appendix M1 metric 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.

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 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.







Motor

FLA / Watts / CFM (max.)

WindFree™* Type

Certifications

Devices

Condenser Fan

Fascia Panel

Safety

Samsung WindFree™ 1-Way Cassette, Single Zone, Split System

Required Accessories

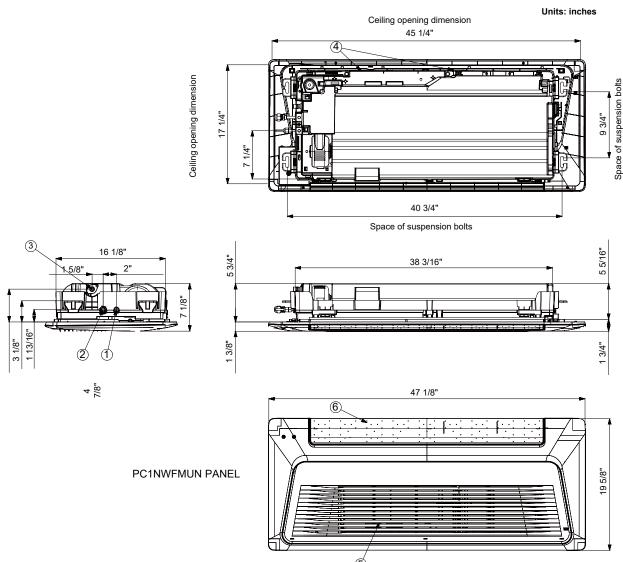
Fascia panel	WindFree [™] Type	PC1NWFMUN
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Optional Accessories

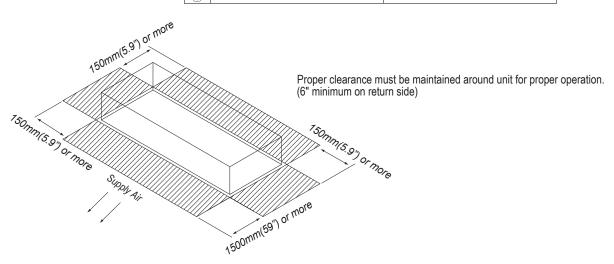
Wired controller	Advanced	MWR-WG00UN	
wired controller	Touchscreen	MWR-SH11UN	
Thermostat adapter (24vac)		MIM-A60UN	
Wireless controller		AR-EH04U	
Wi-Fi adapter	Single indoor unit	MIM-H14UN	
	1-16 indoor units	MIM-H05UN	
External temperature sensor		MRW-TA	
External contact control		MIM-B14	
Wall bracket (for outdoor unit)		CKN-250	
Wind baffle	Front	WBF-3M	
	Back	WBB-5M	
Hail guard kit (includes back and side guards)		HGK-1	
Line sets - insulated and flared, interconnect cables		25' - ILS2506	
included		50' - ILS5006	

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Samsung WindFree™ 1-Way Cassette, Single Zone, Split System AC009BN1DCH/AA Dimensional Drawing

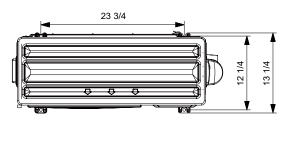


No.	Name	Description
1	Liquid Pipe Connection	Ø 1/4" Flare
2	Gas Pipe Connection	Ø 3/8" Flare
3	Drain Pipe Connection	Quick Lock, OD 1 1/4", ID 1"
4	Conduit for Power & Communication	Wiring –
(5)	Air Inlet Grille	-
(6)	Air Outlet Louver	-

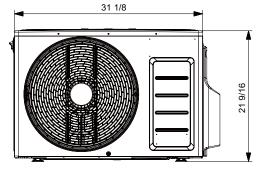


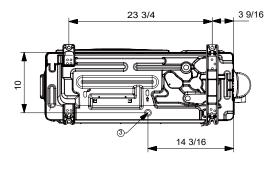
Samsung WindFree $^{\text{TM}}$ 1-Way Cassette, Single Zone, Split System AC009BXADCH/AA Dimensional Drawing

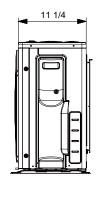
Units: inches

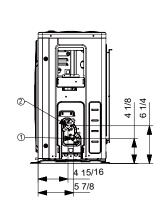


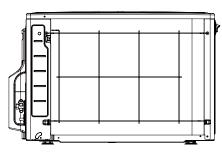












No.	Name	Description
1	Refrigerant liquid pipe	Ø 1/4
2	Refrigerant gas pipe	Ø 3/8
3	Drain hole	Connect with provided drain plug