## **SAMSUNG**

SUBMITTAL AC009BNNDCH/AA / AC009BXADCH/AA (CNH09NDB / CXH09ADB) Page 1 of 4

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

Job Name	Location			
Purchaser	Engineer			
Submitted to	Reference	Approval	Construction	
Unit Designation	Schedule #			





		Specifications		
	Indoor Unit Model Nur	•	AC009BNNDCH/AA (CNH09NDE	
Model	Outdoor Unit Model N		AC009BXADCH/AA (CXH09ADE	
	Nominal Capacity Cooling / Heating (Btu/h)		9,100 / 10,000	
	Conneity Dance	Cooling (Btu/h)	3,400 - 14,000	
	Capacity Range	Heating (Btu/h)	2,900 - 15,000	
	AHRI 210-240 2017 <sup>1</sup>	SEER	21.0	
Performance		EER	13.0	
		HSPF	11.70	
	2	SEER2	22.0	
	AHRI 210-240 2023 <sup>2</sup>	EER2	13.0	
		HSPF2	9.5	
	Voltage	ø / V / Hz	1 / 208-230 / 60	
	Working Voltage Rang	ge (VAC)	187 - 253	
Power	Operating Current	Cooling (A)	1.3 / 3.3 / 6.5	
	(min. / std. / max.)	Heating (A)	1.1 / 3.2 / 7.9	
	Max. Breaker	Amps	15	
	Min. Circuit Ampacity	(A)	10.9	
	W V H V D (in )	Indoor Unit	22 5/8 X 9 13/16 X 22 5/8	
Dimensions	W X H X D (in.)	Outdoor Unit	31 1/8 X 21 9/16 X 11 1/4	
Dimensions	Weight (lbs.)	Indoor Unit	25.6	
		Outdoor Unit	74.3	
Sound Pressure Level	Indoor Unit dB(A)	L/M/H	25 / 28 / 31	
	Outdoor Unit dB(A)	Cooling / Heating (high)	46 / 47	
	( )	Cooling	23 ~ 122°F (-5 ~ 50°C)	
	Outdoor		0 ~ 122°F (-18 ~ 50°C) W/Baffle	
Operating		Heating	-13 ~ 75°F (-25 ~ 24°C)	
Temperatures	Indoor	Cooling	61 ~ 90°F (16 ~ 32°C)	
		Heating	T ≤ 86°F (30°C)	
		High side	1/4"	
	Indoor & Outdoor	Low side	3/8"	
Pipe	Maximum (ft.)		65.6	
Connections	Maximum Vertical Separation (ft.)		49.2	
	Condensate Connection		1 1/4" OD, 1" ID	
	Туре		R410A	
Refrigerant	Factory Charge	lbs.	2.54	
rteingerant	Charged for	103.	24.6 ft.	
C	Manufacturer		Samsung Inverter Driven, Twin BLDC Rotar	
Compressor	Type RLA Amps		6	
	NLA	Amps	0	
Evaporator Fan	Туре		BLDC (1) With Turbo Type Fan (1	
	Air Volume	CFM (L/M/H)	212 / 247 / 283	
	Output	Watts	65	
Condenser	Motor	1	BLDC With Axial Type Fan (1)	
Condenser Fan	FLA / Watts / CFM (max.)		0.42A X 1 / 40W X 1 / 1,060 CFM	
	. 217 TTGLIS / OT WI (III			
Fascia Panel	WindFree™* Type	L X W X H (in.)	24 7/16 x 24 7/16 x 1 13/16	
		Weight (lbs.)	6	
	Certifications	U	L 60335-2-40	
0.1.	PCB fuses, indoor unit		ninal block thermal fuse, current	
Safety			rotection crankease heating	

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.

transformer, over-voltage protection, crankcase heating,

temperature limit protection logic, compressor overload sensing

<sup>1</sup>Performance data certified by AHRI to AHRI 210-240 (2017) with Addendum 1. <sup>2</sup>Performance 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.

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 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.
- Knock-out for outside air capability (with booster fan connection)

#### **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.

- 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

- 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

### Warrantv

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









Devices

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

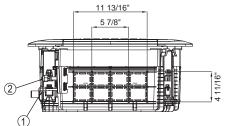
## **Required Accessories**

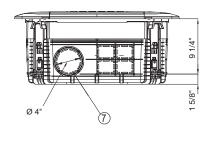
Fascia panel	WindFree <sup>™</sup> Type	PC4SUFMUN
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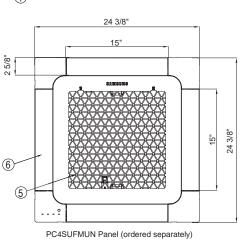
## **Optional Accessories**

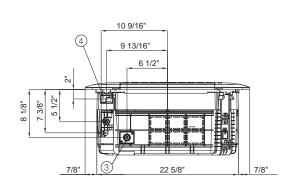
Wired controller	Advanced	MWR-WG00UN	
wired controller	Touchscreen	MWR-SH11UN	
Thermostat adapter (24vac)		MIM-A60UN	
Wireless controller		AR-EH04U	
Wi-Fi adapter	Single indoor unit	MIM-H14UN	
	1-16 indoor units	MIM-H05UN	
Motion Detection Sensor		MCR-SMD	
External temperature sensor		MRW-TA	
External 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	

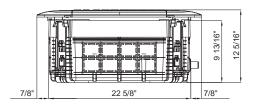
Samsung WindFree  $^{\text{TM}}$  Mini 4-Way Cassette, Single Zone, Split System AC009BNNDCH/AA Dimensional Drawing

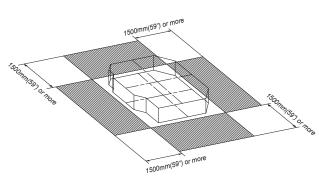










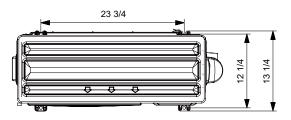


Proper clearance must be maintained around unit for proper operation.

	22 13/16 - 24 1/16" Ceiling Opening  19 13/16" Suspension Point
22 13/16 - 23 1/16" Ceiling Opening 19 13/16" Suspension Point	

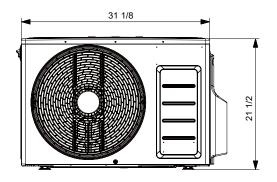
No.	Name	Description
1	Liquid Pipe Connection	Ø 1/4" Flare
2	Gas Pipe Connection	Ø 3/8" Flare
3	Drain Pipe Connection	Quick Lock, OD 1 1/4", ID 1"
4	Conduit for Power & Comm. Wiring	ı
<b>⑤</b>	Air Inlet Grille	-
6	Air Outlet Louver	_
7	Fresh Air Intake	Ø 4 "

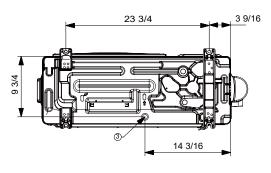
Samsung WindFree  $^{\text{TM}}$  Mini 4-Way Cassette, Single Zone, Split System AC009BXADCH/AA Dimensional Drawing

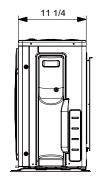


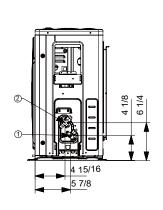


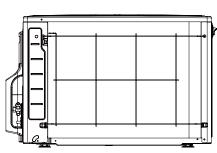
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No.	Name	Description
1	Refrigerant liquid pipe	Ø 1/4
2	Refrigerant gas pipe	Ø 3/8
3	Drain hole	Connect with provided drain plug