Model

Performance

Power

Dimensions

Pressure Level

Sound

Operating

Temperatures

Connections

Refrigerant

Compressor

Evaporator Fan

Condenser

Fascia Panel

Safety

Specifications

Cooling / Heating (Btu/h)
Cooling (Btu/h)

Heating (Btu/h)

SEER

FFR

HSPF

EER2

SEER2

HSPF2

ø/V/Hz

Cooling (A)

Heating (A)

Indoor Unit

Outdoor Unit

Outdoor Unit

Cooling / Heating (high)

Indoor Unit

L/M/H

Cooling

Heating

Cooling

Heating

Hiah side

ow side

Amps

CFM (L/M/H)

LXWXH(in.)

Weight (lbs.)

Amps

Indoor Unit Model Number (US Code)

Nominal Capacity

Capacity Range

AHRI 210-240 2017

AHRI 210-240 2023²

Operating Current

(min. / std. / max.)

Min. Circuit Ampacity (A)

Max. Breaker

WXHXD(in.)

Weight (lbs.)

Outdoor

Indoor

Type

Туре

RLA

Type

Output

Motor

Air Volume

FLA / Watts / CFM (max.)

WindFree™* Type

Certifications

Devices

Indoor Unit dB(A)

Indoor & Outdoor

Maximum Vertical Separation (ft.)

Condensate Connection

Maximum (ft.)

Factory Charge

Charged for

Manufacturer

Outdoor Unit dB(A)

Working Voltage Range (VAC)

Voltage

Outdoor Unit Model Number (US Code)

SUBMITTAL AC048BN4DCH/AA / AC048BXADCH/AA (CNH484DB / CXH48ADB)

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

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

AC048BN4DCH/AA (CNH484DB)

AC048BXADCH/AA (CXH48ADB)

48,000 / 54,000

12,000 - 52,000

13,000 - 60,000

17.2

8.3

10.0

8.3

8.6

1 / 208-230 / 60

187 - 253

5.0 / 25.6 / 28.8

3.7 / 22.7 / 32.0

40

32.8

33 1/16 X 11 5/16 X 33 1/16

37 X 47 11/16 X 13

46.7

195.1

35 / 40 / 45

56 / 58

23 ~ 122°F (-5 ~ 50°C)

0 ~ 122°F (-18 ~ 50°C) W/Baffle

-4 - 75°F (-20 - 24°C)

61 ~ 90°F (16 ~ 32°C)

T ≤ 86°F (30°C)

3/8

5/8'

246

98.4

1 1/4" OD, 1" ID

R410A

7.5

24.6 ft.

Samsung

Inverter Driven, Twin BLDC Rotary

20.9

BLDC (1) With Turbo Type Fan (1)

749 / 996 / 1,289

97

BLDC With Axial Type Fan (2)

1.25A X 2 / 125W X 2 / 3,532 CFM 37 3/8 X 37 3/8 X 2 1/2 in.

UL 60335-2-40

PCB fuses, indoor unit terminal block thermal fuse, current

transformer, over-voltage protection, crankcase heating,





Page 1 of 4

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
- •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
- 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.

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

Controls

- 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

Warrant

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

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.

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)

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.

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 your contractor for details or visit www.energystar.gov.







SAMSUNG

SUBMITTAL AC048BN4DCH/AA / AC048BXADCH/AA (CNH484DB / CXH48ADB) Samsung WindFree™ 4-Way Cassette, Single Zone, Split System

Required Accessories

Fascia panel	WindFree [™] Type	PC4NUFMUN
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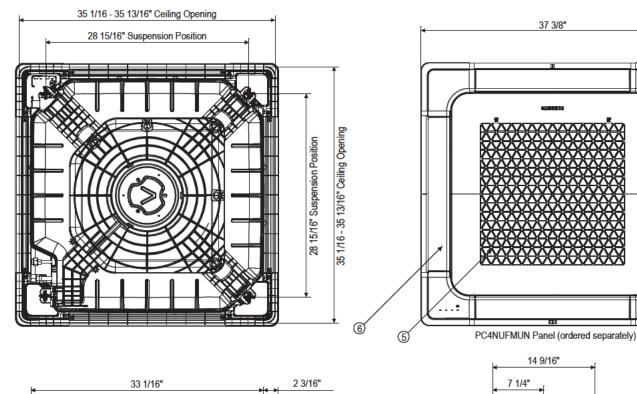
Optional Accessories

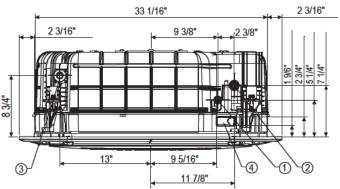
Wired controller	Advanced	MWR-WG00UN	
whed controller	Touchscreen	MWR-SH11UN	
Thermostat adapter (24vac)		MIM-A60UN	
Wireless controller		AR-EH04U	
Wi-Fi adapter	Single indoor unit	MIM-H14UN	
vvi-ri adaptei	1-16 indoor units	MIM-H05UN	
External temperature sensor		MRW-TA	
External contact control		MIM-B14	
Wall bracket (for outdoor unit)		CKN-250	
Wind baffle	Front	WBF-1M2	
willd ballle	Back	WBB-2M-B	
Hail guard kit (includes back and side guards)		HGK-4	
Line sets - insulated and flared, interconnect cables		25' - ILS2510	
included		50' - ILS5010	

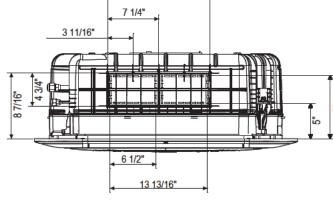
SAMSUNG

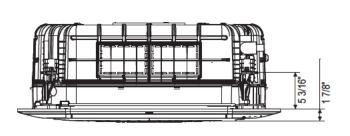
SUBMITTAL AC048BN4DCH/AA / AC048BXADCH/AA (CNH484DB / CXH48ADB) Samsung WindFree $^{\text{TM}}$ 4-Way Cassette, Split System

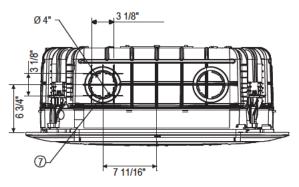
AC048BN4DCH/AA Dimensional Drawing

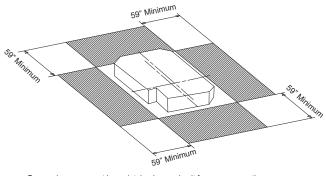






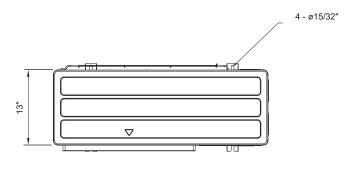




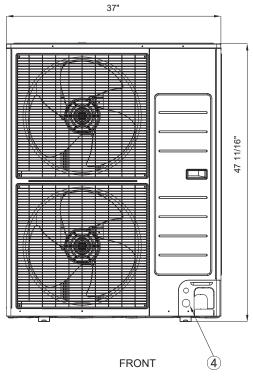


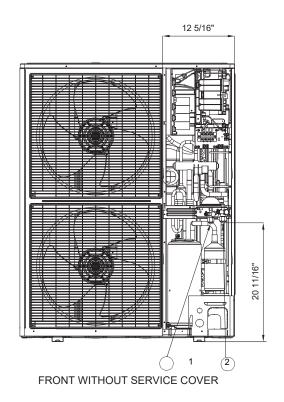
Proper clearance must b	e maintained around	unit for proper	operation.
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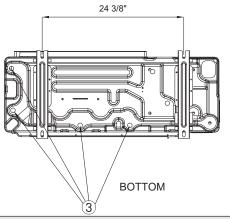
No.	Name	Description
1	Liquid Pipe Connection	Ø 3/8" Flare
2	Gas Pipe Connection	Ø 5/8" Flare
3	Drain Pipe Connection	OD 1 1/4", ID 1"
4	Conduit for Power & Communication Wil	ring _
5	Air Inlet Grille	-
6	Air Outlet Louver	-
7	Fresh Air Inlet	Ø 4"



TOP







No.	Name	Description
1	Refrigerant liquid pipe	Ф 3/8
2	Refrigerant gas pipe	Ф 5/8
3	Drain hole	Connect with provided drain plug
4	Power and communication conduit openings	