SUBMITTAL AC048BN6DCH/AA / AC048BXADCH/AA (CNH486DB / CXH48ADB) Samsung 360 Cassette, Single Zone, Split System

Page	1	of
------	---	----

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

Submit	ted to		
Unit De	signation		
		Specifications	
Model	Indoor Unit Model N	umber (US Code)	AC048BN6DCH/AA (CNH486DB)
wodei	Outdoor Unit Model	Number (US Code)	AC048BXADCH/AA (CXH48ADB)
	Nominal Capacity	Cooling / Heating (Btu/h)	48,000 / 54,000
	Consoity Bongo	Cooling (Btu/h)	12,000 - 52,000
	Capacity Range	Heating (Btu/h)	13,000 - 60,000
		SEER	17.2

	Canasity Danse	Cooling (Btu/h)	12,000 - 52,000
	Capacity Range	Heating (Btu/h)	13,000 - 60,000
		SEER	17.2
Performance	AHRI 210-240 2017 ¹	EER	8.3
		HSPF	9.60
		SEER2	17.8
	AHRI 210-240 2023 ²	EER2	8.3
		HSPF2	8.7
	Voltage	ø / V / Hz	1 / 208-230 / 60
Working Voltage Ran		ge (VAC)	187 - 253
Power Operating Current (min. / std. / max.)	Operating Current	Cooling (A)	4.9 / 25.6 / 28.8
	(min. / std. / max.)	Heating (A)	3.6 / 24.7 / 32.0
Max. Breaker		Amps	40
	Min. Circuit Ampacity	(A)	32.8
	WYLLYD (i.e.)	Indoor Unit	37 1/4 X 14 3/8 X 37 1/4
	WXHXD (in.)	Outdoor Unit	37 X 47 11/16 X 13
Dimensions We	Maight (lba)	Indoor Unit	55.6
	Weight (lbs.)	Outdoor Unit	195.1
Sound Pressure	Indoor Unit dB(A)	L/M/H	35 / 40 / 45

Sound Pressure	Indoor Unit dB(A)	L/M/H	35 / 40 / 45
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	56 / 58
		O - alian	23 ~ 122°F (-5 ~ 50°C)
	Outdoor	Cooling	0 ~ 122°F (-18 ~ 50°C) W/Baffle
Operating Temperatures		Heating	-4 - 75°F (-20 - 24°C)
Temperatures	Indoor	Cooling	61 ~ 90°F (16 ~ 32°C)
	maoor	Heating	T ≤ 86°F (30°C)
Indoor & Outdoor	In de on 8 Outdoor	High side	3/8"
	Low side	5/8"	
Pipe Connections	Maximum (ft.)		246
Maximum Vertical Se		eparation (ft.)	98.4
	Condensate Connec	tion	1 1/4" OD, 1" ID
	Туре	<u> </u>	R410A
Refrigerant	Factory Charge	lbs.	7.5
	Charged for		24.6 ft.

Compressor	Туре		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	20.9
	Туре		BLDC (1) With Turbo Type Fan (1)
Evaporator Fan	Air Volume	CFM (L/M/H)	823 / 1,024 / 1,257
	Output	Watts	97
Condenser	Motor		BLDC With Axial Type Fan (2)
Fan	FLA / Watts / CFM (n	nax.)	1.25A X 2 / 125W X 2 / 3,532 CFM
	Ceiling Type	L X W X H (in.)	39 3/8 X 39 3/8 X 2 5/8
Fascia Panel	(Square)	Weight (lbs.)	7.94
Open Type (Round)	Diameter X H (in.)	41 15/16 X 2 5/8	
	Weight (lbs.)	5.95	

		Weight (lbs.)	5.95
	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.

Manufacturer

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.







Shown with PC4NUDMU (ceiling type panel)



General Information

- 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.

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
- Knock-out for outside air capability (with booster fan connection)
- · Fascia panel shall have LED indicator lights and an infrared receiver
- The indoor unit shall not have air louvers or blades allowing full airflow without restriction
- Air direction control shall be achieved by creating a low pressure area near air outlet causing discharge air to change direction angle.
- Fixed or auto-swing air direction shall be possible with wireless, touch, or premium wired controller (10° ~ 60° angle)
- Independent air distribution control shall be possible with wireless or premium wired controller (three directions, $10^\circ \sim 60^\circ$ angle)

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

Samsung

- 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.
- 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

Warranty

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







SAMSUNG

SUBMITTAL AC048BN6DCH/AA / AC048BXADCH/AA (CNH486DB / CXH48ADB) Samsung 360 Cassette, Single Zone, Split System

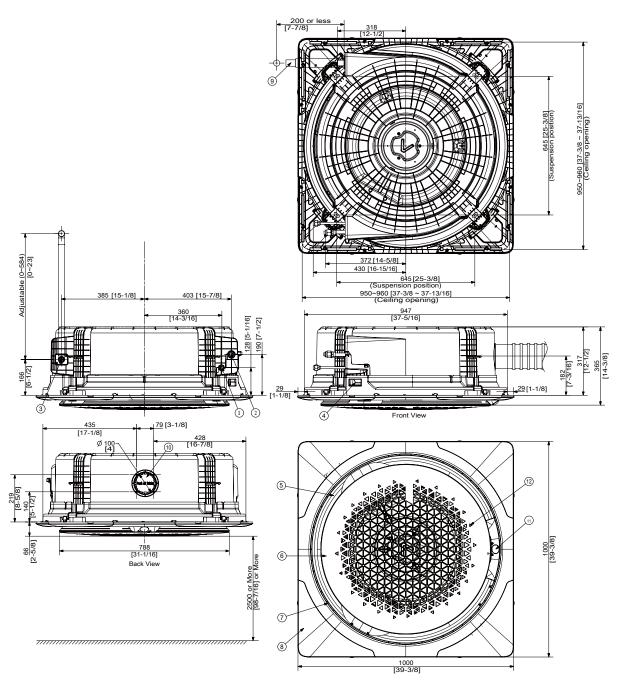
Required Accessories

	Ceiling Type (square, white)	PC4NUDMUN
Fascia Panel	Ceiling Type (square, black)	PC4NBDMUN
Fascia Panei	Open Type (round, white)	PC4NUNMUN
	Open Type (round, black)	PC4NBNMUN

Optional Accessories

Wired Controller	Simplified Touch Controller	MWR-SH11UN
whiled Controller	Advanced Wired Controller	MWR-WG00UN
140 Et A 1	Single Indoor Unit	MIM-H14UN
Wi-Fi Adapter	1-16 Indoor Units	MIM-H05UN
External Temperature Sen	sor	MRW-TA
Wireless Controller		AR-KH04U
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-1M2
	Back	WBB-2M-B
Hail guard kit (includes ba	ck and side guards)	HGK-4
		25' - ILS-2510
Line Sets - insulated and flared, interconnect cables included		50' - ILS-5010
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN
Motion Detection Sensor (For use with PC4NUDMUN panels)		MCR-SME

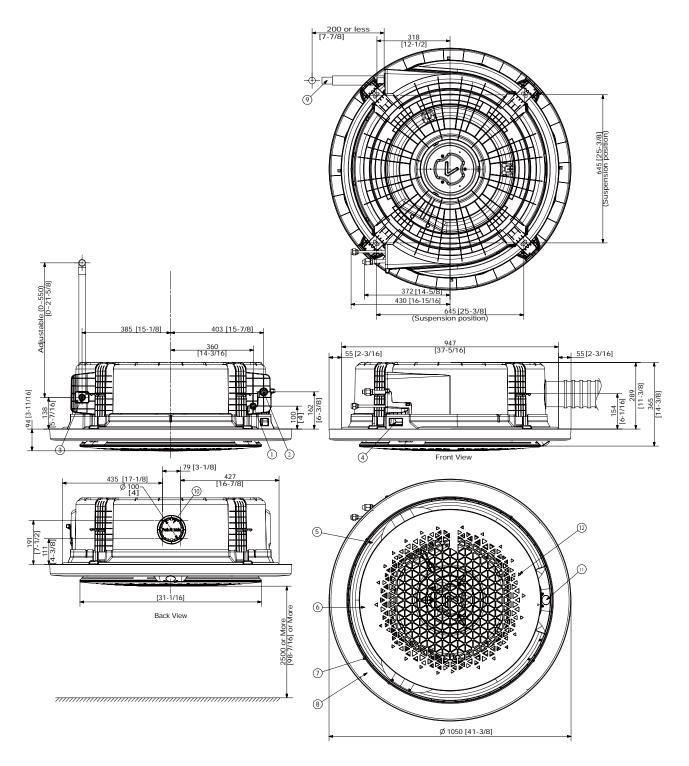
Units: inches



No.	Description
1	Refrigerant Gas Pipe
2	Refrigerant Liquid Pipe
3	Condensate drain
4	Power and wiring entry
5	Air discharge opening
6	Air suction grille

No.	Description
7	Suction rim for air direction booster fan
8	Decoration fascia panel
9	Drain hose
10	Fresh air knockout hole
11	Status display
12	Infrared receiver

Units: inches

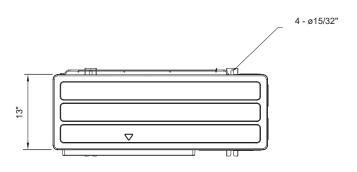


No.	Description
1	Refrigerant Gas Pipe
2	Refrigerant Liquid Pipe
3	Condensate drain
4	Power and wiring entry
5	Air discharge opening
6	Air suction grille

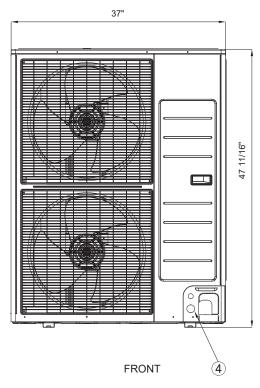
No.	Description	
7	Suction rim for air direction booster fan	
8	Decoration fascia panel	
9	Drain hose	
10	Fresh air knockout hole	
11	Status display	
12	Infrared receiver	

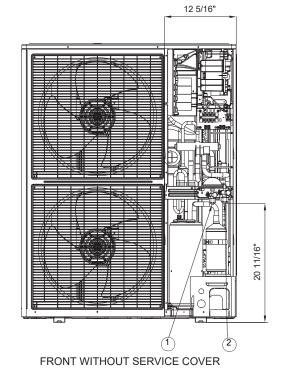
SAMSUNG

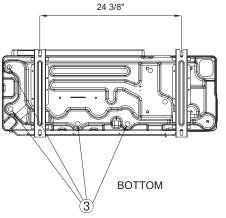
SUBMITTAL AC048BN6DCH/AA / AC048BXADCH/AA (CNH486DB / CXH48ADB) Samsung 360 Cassette, Single Zone, Split System AC048BXADCH/AA Dimensional Drawing



TOP







No.	Name	Description
1	Refrigerant liquid pipe	Ø 3/8
2	Refrigerant gas pipe	Ø 5/8
3	Drain hole	Connect with provided drain plug