SUBMITTAL AC042KN4DCH/AA

Samsung 360 Cassette, Single Zone, Split System

ob Name	Location
Purchaser	Engineer
Submitted to	Reference Approval Construction
Jnit Designation	Schedule #

	·	Specifications	
	Indoor Unit Model N		AC042KN4DCH/AA (CNH424DK
Model		Number (US Code)	AC042JXADCH/AA (CXH42ADJ
	Nominal Capacity	Cooling / Heating (Btu/h)	42,000 / 47,000
Performance		Cooling (Btu/h)	16,300 - 45,000
	Capacity Range	Heating (Btu/h)	13,400 - 50,000
	SEER / EER	,	19.70 / 10.00
	COP (nominal heating)		3.04
	HSPF		9.5
	AHRI Certification Number		8856698
	Condensate (pints/h	1)	11.2
	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Ra		176 - 254 (max. 3% deviation from each
Power		Cooling (A)	5.60 / 18.80 / 21.00
	(min. / std. / max.)	Heating (A)	4.30 / 20.50 / 25.00
	Max. Breaker	Amps	35
	Min. Circuit Ampaci		22.56
	WXHXD	Indoor Unit	37 1/4 X 14 3/8 X 37 1/4
Dimensions	(in.)	Outdoor Unit	37 X 48 X 13
	Weight	Indoor Unit	52.91
	(lbs.)	Outdoor Unit	194
	Indoor Unit dB(A)	L/M/H	34 / 39 / 44
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	51 / 53
	Outdoor	Cooling	23 ~ 115°F (-5 ~ 46°C)
Operating		Cooling	0 ~ 115°F (-18 ~ 46°C) W/Baffle
Temperatures		Heating	-4 ~ 75°F (-20 ~ 24°C)
°F(°C)	Indoor	Cooling	61 ~ 90°F (16 ~ 32°C)
		Heating	T ≤ 80 (27°C)
	Indoor & Outdoor	High side (flare)	3/8"
Pipe		Low side (flare)	5/8"
Connections	Maximum (ft.)		246
	Maximum Vertical Separation (ft.)		98
	Condensate Conne	ction	1 1/4" OD, 1" ID
	Туре		R410A
Refrigerant	Factory Charge	OZ.	98.77
3	Charged for		25 ft
	Additional Refrigera	int	0.355 oz./ft. over 25 ft
	Manufacturer		Samsung
Compressor	Туре	1	Inverter Driven, Twin BLDC Rotary
	RLA	Amps	17.0
	Туре		BLDC (1) With Turbo Type Fan (1)
Evaporator	Air Volume	CFM (L/M/H)	745 / 981 / 1,218
Fan	Output	Watts	97 X 1
ran		Amps	0.35
ran	FLA		
Condenser	FLA Motor	1	BLDC With Axial Type Fan (2)
		* :	BLDC With Axial Type Fan (2) 0.48 A X 2 / 125 W X 2 / 3,040 CFI
Condenser	Motor	* :	0.48 A X 2 / 125 W X 2 / 3,040 CFI
Condenser Fan	Motor FLA / Watts / CFM ((max.)	71 (7
Condenser	Motor FLA / Watts / CFM (Ceiling Type	(max.)	0.48 A X 2 / 125 W X 2 / 3,040 CFI 39 3/8 X 39 3/8 X 2 5/8
Condenser Fan	Motor FLA / Watts / CFM (Ceiling Type (Square)	(max.) L X W X H Weight	0.48 A X 2 / 125 W X 2 / 3,040 CFI 39 3/8 X 39 3/8 X 2 5/8 7.94
Condenser Fan	Motor FLA / Watts / CFM (Ceiling Type (Square) Open Type (Round)	(max.) L X W X H Weight Diameter X H Weight	0.48 A X 2 / 125 W X 2 / 3,040 CFI 39 3/8 X 39 3/8 X 2 5/8 7.94 41 5/16 X 3 3/8 5.95
Condenser Fan	Motor FLA / Watts / CFM (Ceiling Type (Square) Open Type	(max.) L X W X H Weight Diameter X H Weight ET	0.48 A X 2 / 125 W X 2 / 3,040 CFI 39 3/8 X 39 3/8 X 2 5/8 7.94 41 5/16 X 3 3/8

Certified in accordance with the AHRI Unitary Small Air-Source Heat Pumps (USHP) Certification Program which is based on the latest edition of AHRI Standard 210/240.

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







(ceiling type panel)



Page 1 of 5

Shown with PC4NUNMAN (open type panel)

General Information

- The indoor unit shall be a round ceiling cassette with 360°, even air distribution
- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire
- Auto-restart after power loss
- The outdoor unit shall have a snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- The indoor unit shall have a removable EEPROM that stores system programming information, unit name, and other data
- Electro-static, washable, pleated filter as standard (included with fascia panel).
- Built in condensate pump with maximum 29" lift from the bottom of the unit, check valve, and float switch that disables indoor unit during overflow detection
- Knock-out for outside air capability (with booster fan connection)
- Pipe connections at the outdoor unit shall be made inside the unit chassis. Refrigerant pipes can exit through the front, side, rear, or bottom sides of the outdoor unit.
- · 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° ~ 60° angle)
- The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night (automatic or manual activation with dry contact signal).

Construction

The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

The indoor unit shall be have a galvanized steel frame with HIPS chassis and fascia panel certified to UL94 V0.

Heat Exchanger

The indoor unit heat exchanger shall be mechanically bonded aluminum fin to copper tube

The outdoor unit heat exchanger shall be aluminum, flat fin, micro channel

Controls

Control signal shall be a DDC type signal

The indoor unit shall have a 12VDC output that is interlocked with fan to activate external devices (fan ON = 12VDC ON, fan OFF = 12VDC OFF, pigtail adapter plug required)

Interconnect control wire between outdoor and indoor unit shall be 16AWG X 2 shielded

Wired or wireless controllers must be purchased separately

No additional interface modules/adapters are required when connecting to Samsung NASA DVM S

Refrigerant System

The compressor shall be hermetically sealed, inverter controlled, twin BLDC Rotary

Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Soft-start to reduce current demand during compressor start

Warranty

10 Years compressor, 10 years parts, 1 year limited labor when registered





Samsung 360 Cassette, Single Zone, Split System AC042KN4DCH/AA Accessories

Required Accessories

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

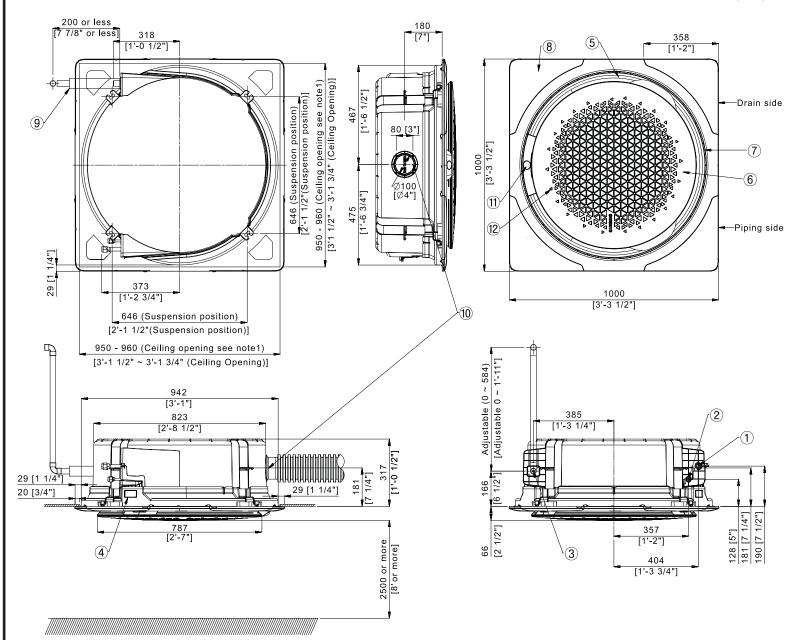
^{*}A fascia panel is required for cassette unit operation and is sold separately.

Optional Accessories

01103	
Simplified Touch Controller	MWR-SH11UN
Advanced Wired Controller	MWR-WG00UN
	MIM-H04UN
sor	MRW-TA
	AR-KH03U
	MIM-B14
ınit)	CKN-250
Front	WBF-1M2
Back	WBB-2M-B
hand intercept added	25' - ILS-2510
lared, interconnect cables included	50' - ILS-5010
ection to a standard 24VAC thermostat)	MIM-A60UN
	MCR-SME
	Simplified Touch Controller Advanced Wired Controller sor unit) Front

Samsung 360 Cassette, Single Zone, Split System AC042KN4DCH/AA Dimensional Drawing With Ceiling Type Fascia Panel

Units: mm [inches]

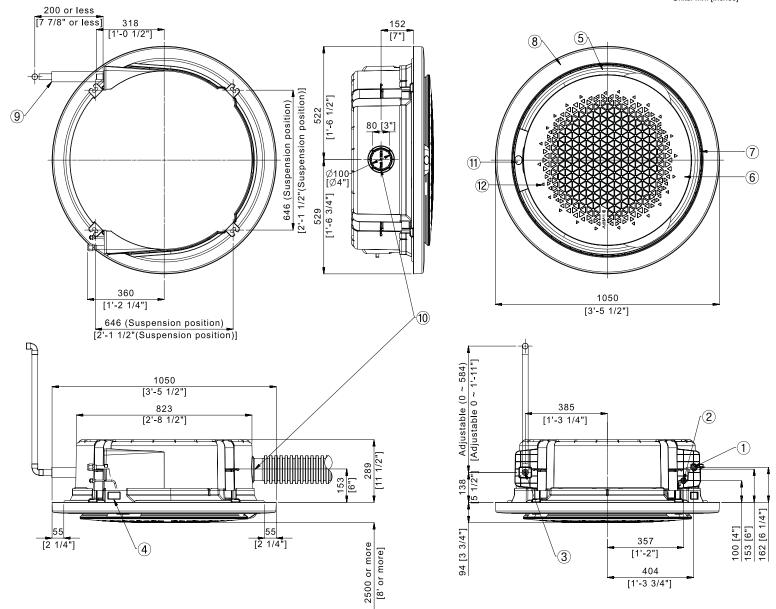


No.	Description
1	Refrigerant Gas Pipe
2	Refrigerant Liquid Pipe
3	Condensate drain
4	Power and wiring entry
5	Air discharge opening
6	Air suction grille

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 360 Cassette, Single Zone, Split System AC042KN4DCH/AA Dimensional Drawing With Open Type Fascia Panel

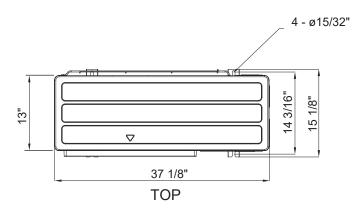
Units: mm [inches]

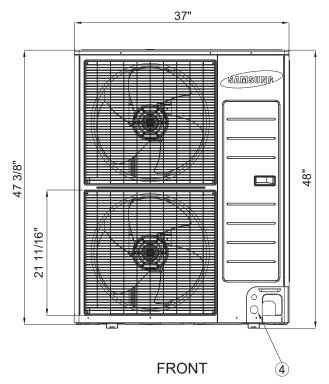


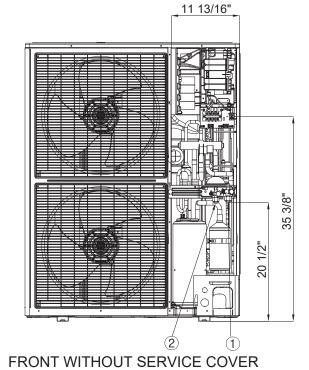
No.	Description
1	Refrigerant Gas Pipe
2	Refrigerant Liquid Pipe
3	Condensate drain
4	Power and wiring entry
5	Air discharge opening
6	Air suction grille

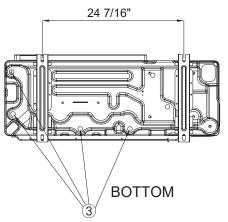
No.	Description
7	Suction rim for air direction booster fan
8	Decoration fascia panel
9	Drain hose
10	Fresh air knockout hole
11	Status display
12	Infrared receiver

Samsung 360 Cassette, Single Zone, Split System AC042JXADCH/AA Dimensional Drawing









No.	Description
1	Suction service valve
2	Liquid service valve
3	Drainage hole
4	Power and communication conduit openings

888-699-6067 www.SamsungHVAC.com