

Job Name _____
Purchaser _____
Submitted to _____
Unit Designation _____

Location _____
Engineer _____
Reference _____ Approval _____ Construction _____
Schedule # _____

Specifications			
Model	Indoor Unit Model Number		AC018KN4DCH/AA
	Outdoor Unit Model Number		AC018JXADCH/AA
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,000
	Capacity Range	Cooling (Btu/h)	5,000 - 21,000
		Heating (Btu/h)	3,800 - 25,000
	SEER / EER		20.10 / 11.40
	COP (nominal heating)		3.66
	HSPF		10.0
	AHRI Certification Number		8856681
Power	Condensate (pints/h)		2.00
	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)
	Operating Current (min. / std. / max.)	Cooling (A)	2.10 / 7.20 / 10.00
		Heating (A)	1.70 / 7.40 / 12.00
	Max. Breaker	Amps	15
	Min. Circuit Ampacity (A)		8.09
Dimensions	W X H X D (in.)	Indoor Unit	37 1/4 X 11 X 37 1/4
		Outdoor Unit	34 5/8 X 25 1/8 X 12 1/4
	Weight (lbs.)	Indoor Unit	46.3
		Outdoor Unit	99.2
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	29 / 32 / 35
	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48
Operating Temperatures °F (°C)	Outdoor	Cooling	23 ~ 115°F (-5 ~ 46°C)
		Heating	0 ~ 115°F (-18 ~ 46°C) W/Baffle
	Indoor	Cooling	-4 ~ 76°F (-20 ~ 24°C)
		Heating	61 ~ 90°F (16 ~ 32°C) T ≤ 80°F (27°C)
Pipe Connections	Indoor & Outdoor	High side (flare)	1/4"
		Low side (flare)	1/2"
	Maximum (ft.)		98
	Maximum Vertical Separation (ft.)		66
	Condensate Connection		1 1/4" OD, 1" ID
Refrigerant	Type	R410A	
	Factory Charge	oz.	45.86
	Charged for	25 ft	
	Additional Refrigerant		0.11 oz./ft. over 25 ft
Compressor	Manufacturer		Samsung
	Type		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	6.1
Evaporator Fan	Type	BLDC (1) With Turbo Type Fan (1)	
	Air Volume	CFM (L/M/H)	480 / 547 / 646
	Output	Watts	65 X 1
	FLA	Amps	0.33
Condenser Fan	Motor	BLDC With Axial Type Fan (1)	
	FLA / Watts / CFM (max.)	0.13 A / 39 W / 1,550 CFM	
Fascia Panel	Ceiling Type (Square)	L X W X H	39 3/8 X 39 3/8 X 2 5/8
		Weight	7.94
	Open Type	Diameter X H	41 15/16 X 3 3/8
	(Round)	Weight	5.95
Safety	Certifications	ETL (UL 1995)	
	Devices	PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing	

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.



- 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
 - All indoor unit addressing and option settings shall be done digitally; the indoor unit does not contain rotary dials or setting switches.
 - 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)
 - 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.

- 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 indoor unit shall be 16AWG X 2 shielded
- Wired or wireless controls must be purchased separately
- Connection to optional wired controllers shall be 2 X 16AWG shielded wire
- No additional interface modules/adapters are required when connecting to Samsung NASA DVM S central control options.
- 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

Required Accessories

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

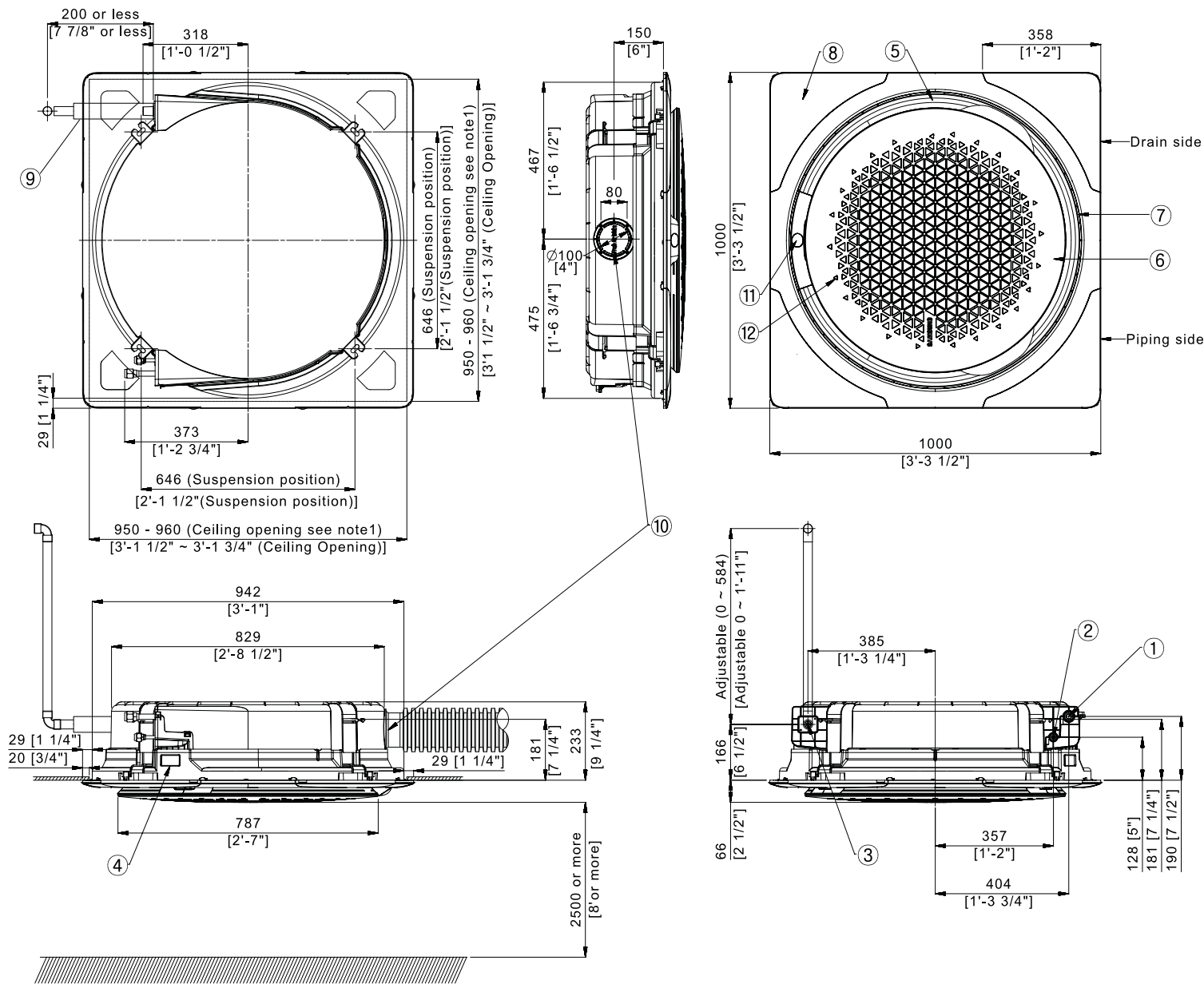
**A fascia panel is required for cassette unit operation and is sold separately.*

Optional Accessories

Wired Controller	Simplified Touch Controller	MWR-SH11UN
	Advanced Wired Controller	MWR-WG00UN
Wi-Fi Adapter		MIM-H04UN
External Temperature Sensor		MRW-TA
Wireless Controller		AR-KH03U
External Contact Control		MIM-B14
Central Control Interface Module for Connection to DVM Plus Controls (non-NASA)		MIM-N01
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-4M
	Back	WBB-6M
Line Sets - insulated and flared, interconnect cables included		25' - ILS-2507
		50' - ILS-5007
Thermostat Adaptor		TADPT2
Motion Detection Sensor		MCR-SME

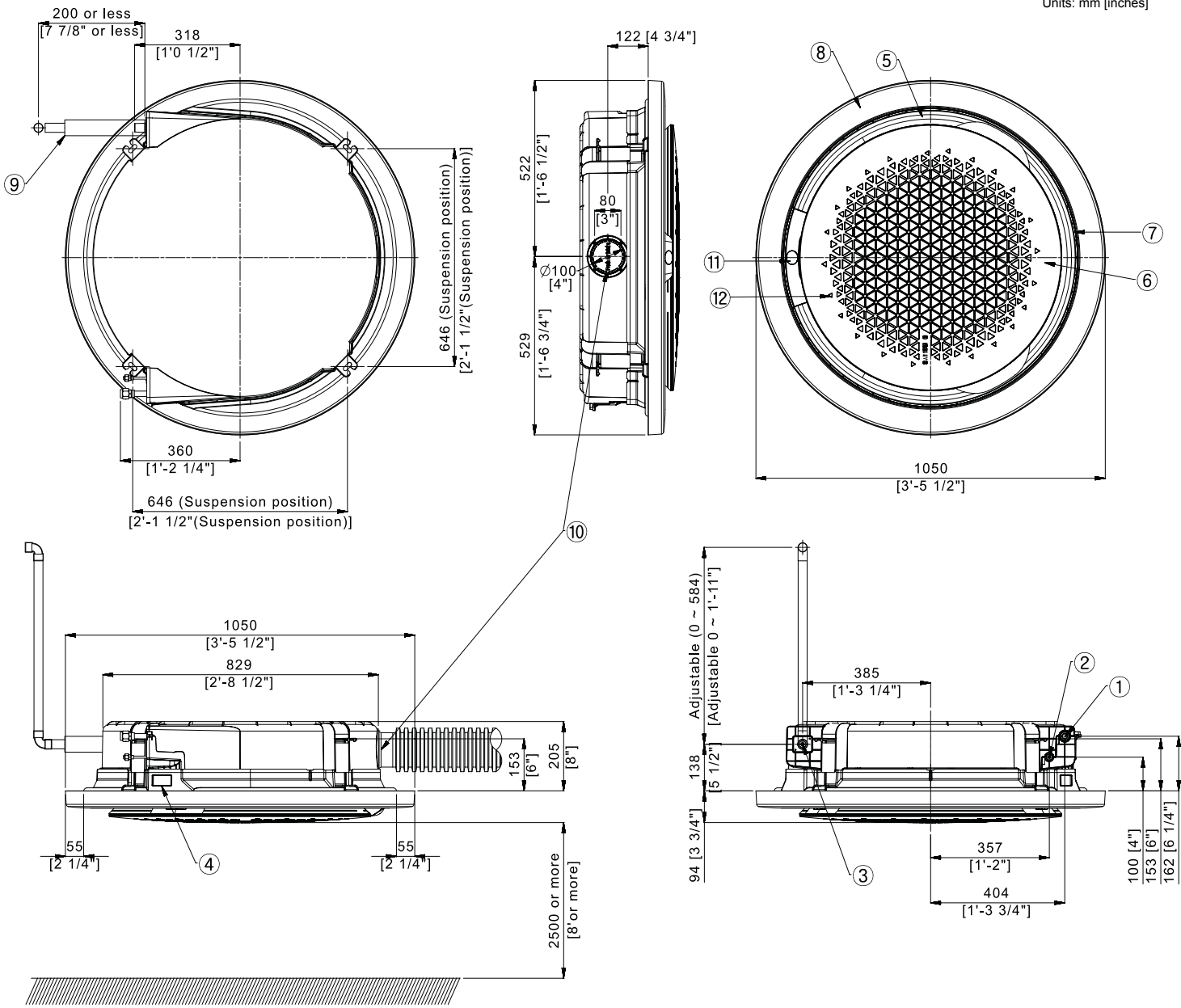
Samsung 360 Cassette, Single Zone, Split System
AC018KN4DCH/AA Dimensional Drawing With Ceiling Type Fascia Panel

Units: mm [inches]



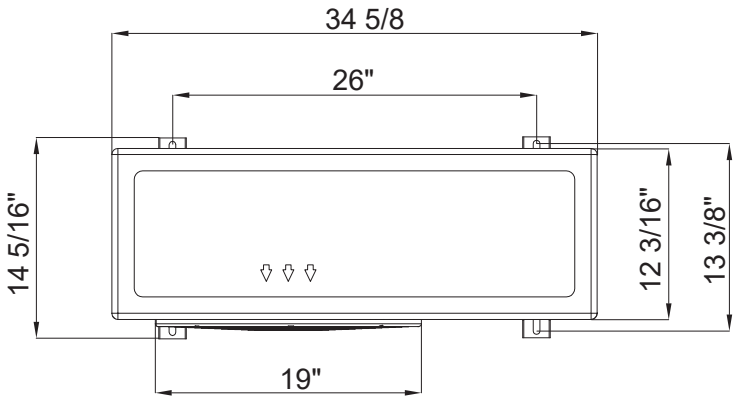
No.	Description
1	Refrigerant Gas Pipe
2	Refrigerant Liquid Pipe
3	Condensate drain
4	Power and wiring entry
5	Air discharge opening
6	Air suction grille

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

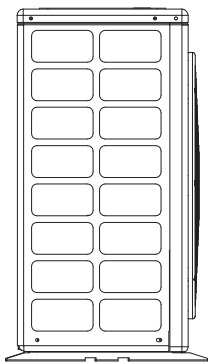


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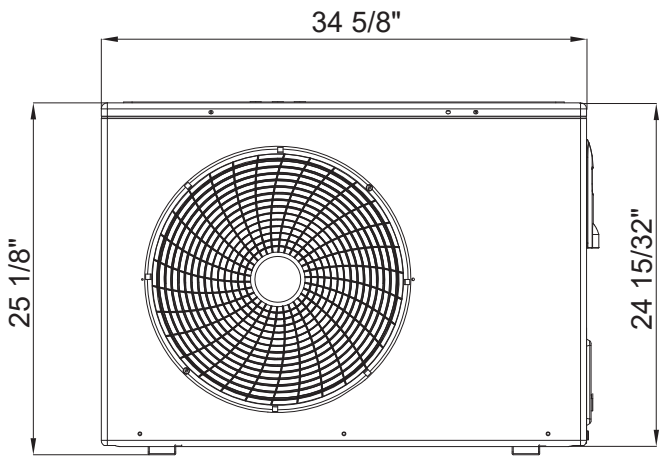
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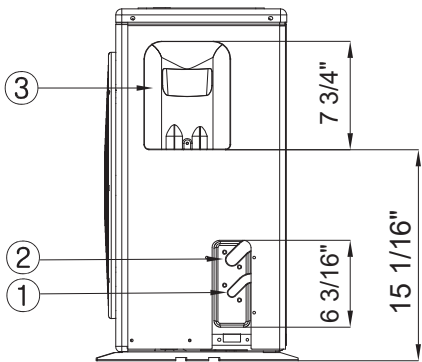
TOP



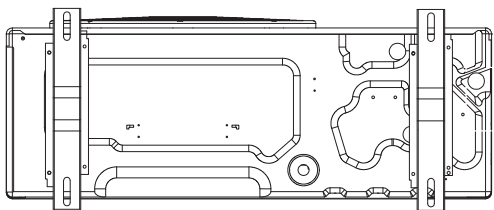
LEFT



FRONT



RIGHT



BOTTOM

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