

### Specifications

Model	Indoor Unit Model Number (US Code)	AC036KN4DCH/AA (CNH364DK)	
	Outdoor Unit Model Number (US Code)	AC036JXADCH/AA (CXH36ADJ)	
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	36,000 / 40,000
	Capacity Range	Cooling (Btu/h)	14,000 - 41,000
		Heating (Btu/h)	11,500 - 48,000
	SEER / EER		20.70 / 12.00
	COP (nominal heating)		3.4
	HSPF		9.7
	AHRI Certification Number		8856697
Condensate (pints/h)		8.5	
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)
	Operating Current	Cooling (A)	4.80 / 13.60 / 17.00
		Heating (A)	3.70 / 16.10 / 23.00
	Max. Breaker	Amps	35
Min. Circuit Ampacity (A)		22.56	
Dimensions	W X H X D (in.)	Indoor Unit	37 1/4 X 14 3/8 X 37 1/4
		Outdoor Unit	37 X 48 X 13
	Weight (lbs.)	Indoor Unit	52.91
		Outdoor Unit	194
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	32 / 38 / 43
	Outdoor Unit dB(A)	Cooling / Heating (high)	49 / 51
Operating Temperatures °F (°C)	Outdoor	Cooling	23 ~ 115°F (-5 ~ 46°C)
		Heating	0 ~ 115°F (-18 ~ 46°C) W/Baffle
	Indoor	Cooling	-4 ~ 75°F (-20 ~ 24°C)
		Heating	61 ~ 90°F (16 ~ 32°C) T ≤ 80°F (27°C)
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8"
		Low side (flare)	5/8"
	Maximum (ft.)		246
	Maximum Vertical Separation (ft.)		98
	Condensate Connection		1 1/4" OD, 1" ID
Refrigerant	Type		R410A
	Factory Charge	oz.	98.77
	Charged for		25 ft
	Additional Refrigerant		0.355 oz./ft. over 25 ft
Compressor	Manufacturer	Samsung	
	Type	Inverter Driven, Twin BLDC Rotary	
	RLA	Amps	17.0
Evaporator Fan	Type	BLDC (1) With Turbo Type Fan (1)	
	Air Volume	CFM (L/M/H)	710 / 943 / 1,179
	Output	Watts	97 X 1
	FLA	Amps	0.35
Condenser Fan	Motor	BLDC With Axial Type Fan (2)	
	FLA / Watts / CFM (max.)	0.48 A X 2 / 125 W X 2 / 3,040 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 (Round)	Diameter X H	41 15/16 X 3 3/8
		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	



Shown with PC4NUNMUN (open type panel)



Shown with PC4NUDMUN (ceiling 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 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

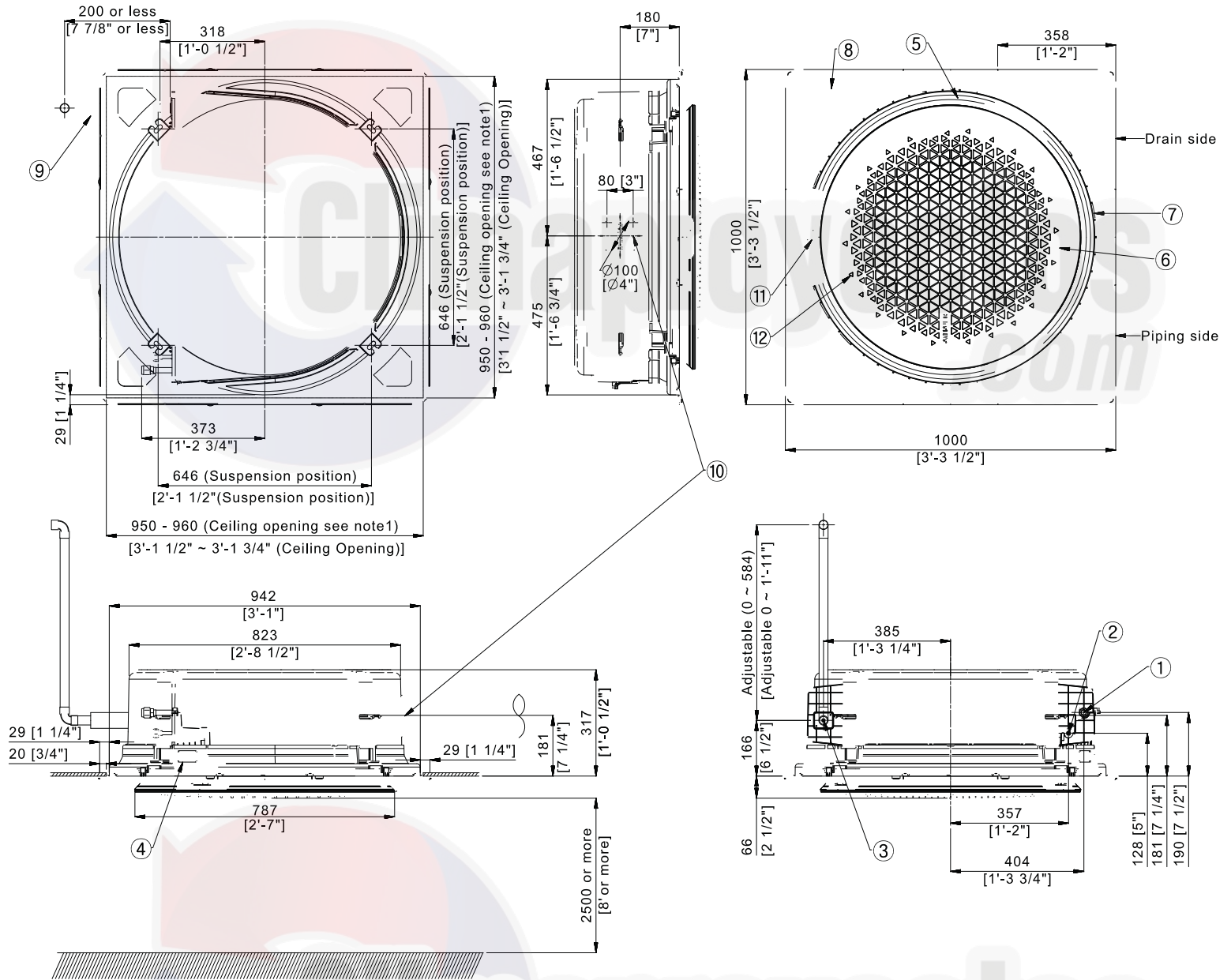
### Warranty

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

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 numbers.





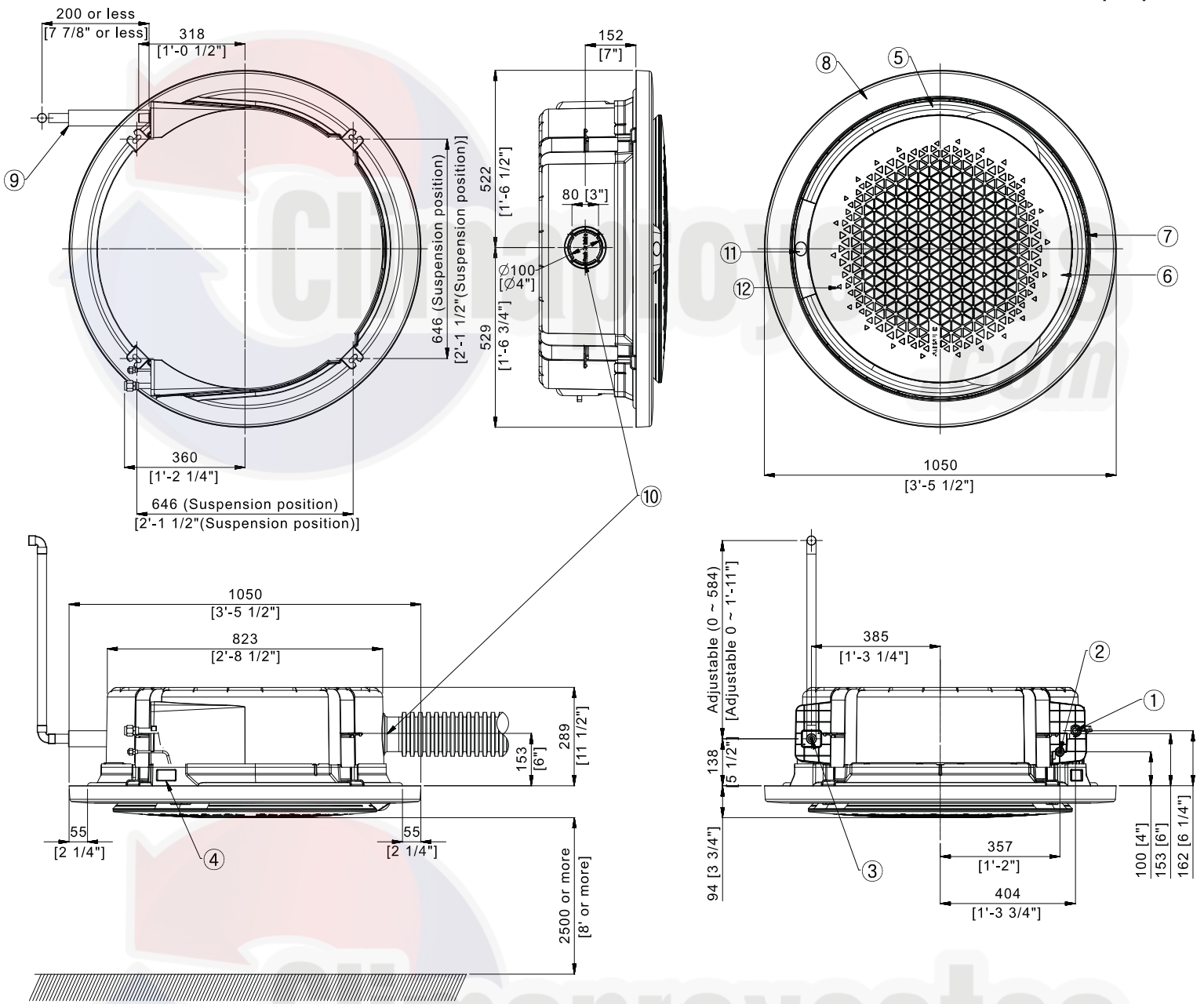
No. Description

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: mm [inches]

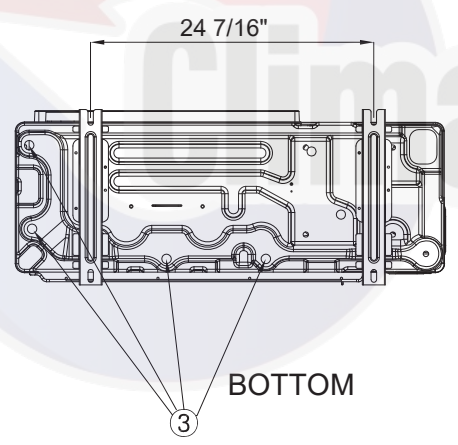
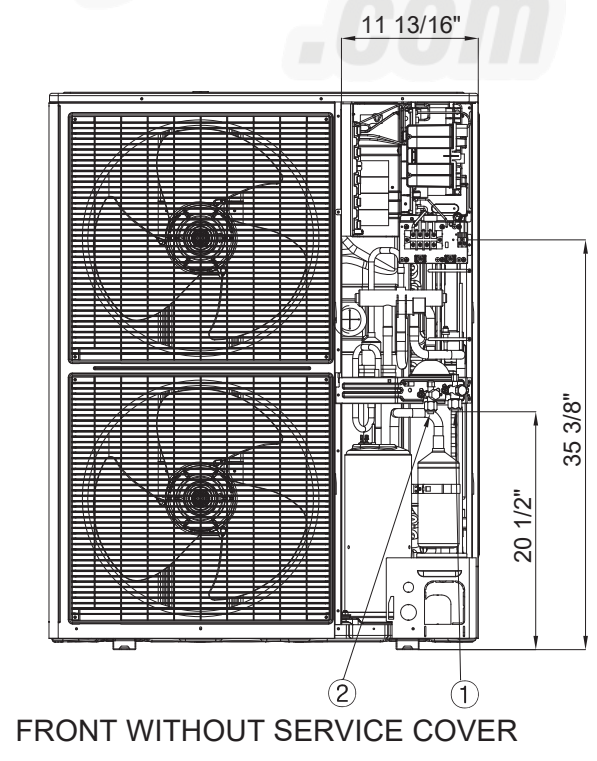
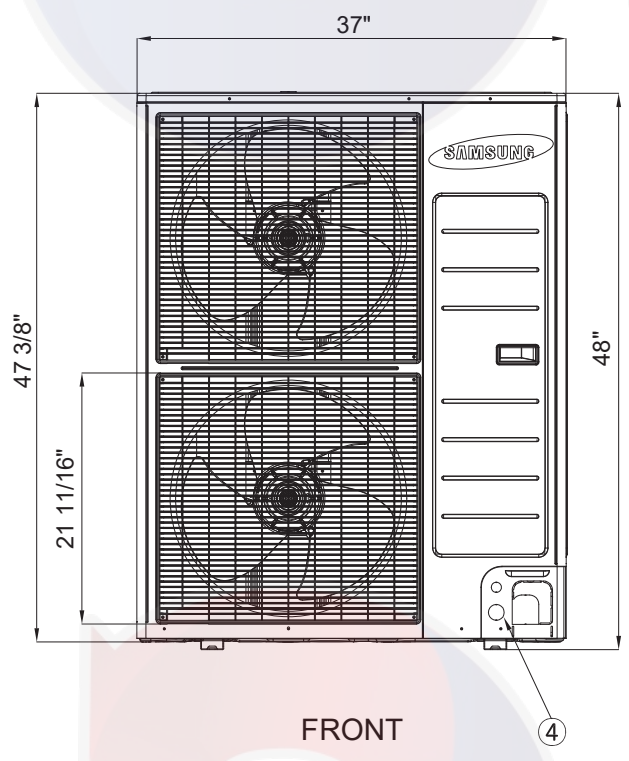
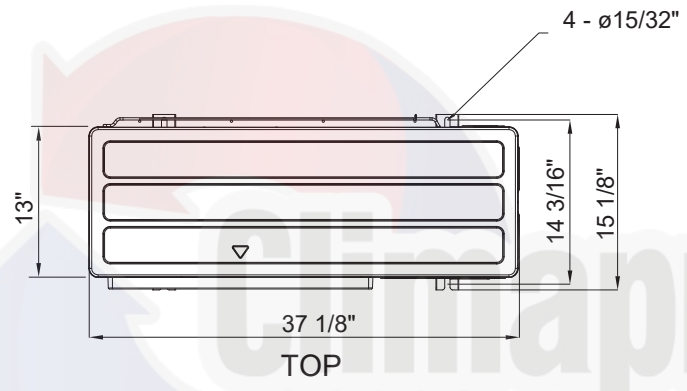


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No.	Description
1	Suction service valve
2	Liquid service valve
3	Drainage hole
4	Power and communication conduit openings