SAMSUNG

SUBMITTAL AC036BN6DCH/AA / AC036BXADCH/AA (CNH366DB / CXH36ADB)
Samsung 360 Cassette, Single Zone, Split System

Job Name _____ Location _____

Purchaser _____ Engineer _____

Submitted to _____ Reference ☐ Approval ☐ Construction ☐

Unit Designation _____ Schedule # _____

Specifications

Model	Indoor Unit Model Number (US Code)		AC036BN6DCH/AA (CNH366DB)
	Outdoor Unit Model Number (US Code)		AC036BXADCH/AA (CXH36ADB)
Performance	Nominal Capacity[1]	Cooling / Heating (Btu/h)	36,000 / 40,000
	Capacity Range	Cooling (Btu/h)	11,000 - 43,000
		Heating (Btu/h)	12,500 - 52,000
	SEER / EER		20.3 / 11.5
	COP (nominal heating)		3.60
	HSPF		10.3
	AHRI Certification Number		207465461
Power	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)	4.6 / 13.9 / 19.1
		Heating (A)	3.6 / 14.5 / 24.0
	Max. Breaker	Amps	35
	Min. Circuit Ampacity (A)		24.5
Dimensions	W X H X D (in.)	Indoor Unit	37 1/4 X 14 3/8 X 37 1/4
		Outdoor Unit	37 X 47 11/16 X 13
	Weight (lbs.)	Indoor Unit	55.8
		Outdoor Unit	190.7
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	32 / 38 / 43
	Outdoor Unit dB(A)	Cooling / Heating (high)	52 / 54
Operating Temperatures	Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C)
			0 ~ 122°F (-18 ~ 50°C) W/Baffle
		Heating	-4 ~ 75°F (-20 ~ 24°C)
	Indoor	Cooling	61 ~ 90°F (16 ~ 32°C)
		Heating	T ≤ 80°F (27°C)
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8"
		Low side (flare)	5/8"
	Maximum (ft.)		246.0
	Maximum Vertical Separation (ft.)		98.4
	Condensate Connection		1 1/4" OD, 1" ID
Refrigerant	Type		R410A
	Factory Charge	lbs.	6.39
	Charged for		25 ft
	Additional Refrigerant		0.11 oz./ft. over 24.6 ft
Compressor	Manufacturer		Samsung
	Type		Inverter Driven, Twin BLDC Rotary
	RLA	Amps	14.7
Evaporator Fan	Type		BLDC (1) With Turbo Type Fan (1)
	Air Volume	CFM (L/M/H)	710 / 943 / 1180
	Output	Watts	97 W / 0.79 A
Condenser Fan	Motor		BLDC With Axial Type Fan (2)
	FLA / Watts / CFM (max.)		1.25 A / 125 W / 3,532 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

[1]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.

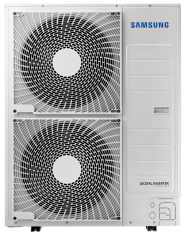
Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.



Shown with PC4NUNMUN (open type panel)



Shown with PC4NUDMUN (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 *(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° ~ 60° 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

- 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.
- 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)

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Required Accessories

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

Optional Accessories

Wired Controller	Simplified Touch Controller	☐ MWR-SH11UN
	Advanced Wired Controller	☐ MWR-WG00UN
Wi-Fi Adapter	Single Indoor Unit	☐ MIM-H14UN
	1-16 Indoor Units	☐ MIM-H05UN
External Temperature Sensor		☐ 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 back and side guards)		☐ HGK-4
Line Sets - insulated and flared, interconnect cables included		☐ 25' - ILS-2510
		☐ 50' - ILS-5010
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		☐ MIM-A60UN
Motion Detection Sensor *(For use with PC4NUDMUN panels)*		☐ MCR-SME

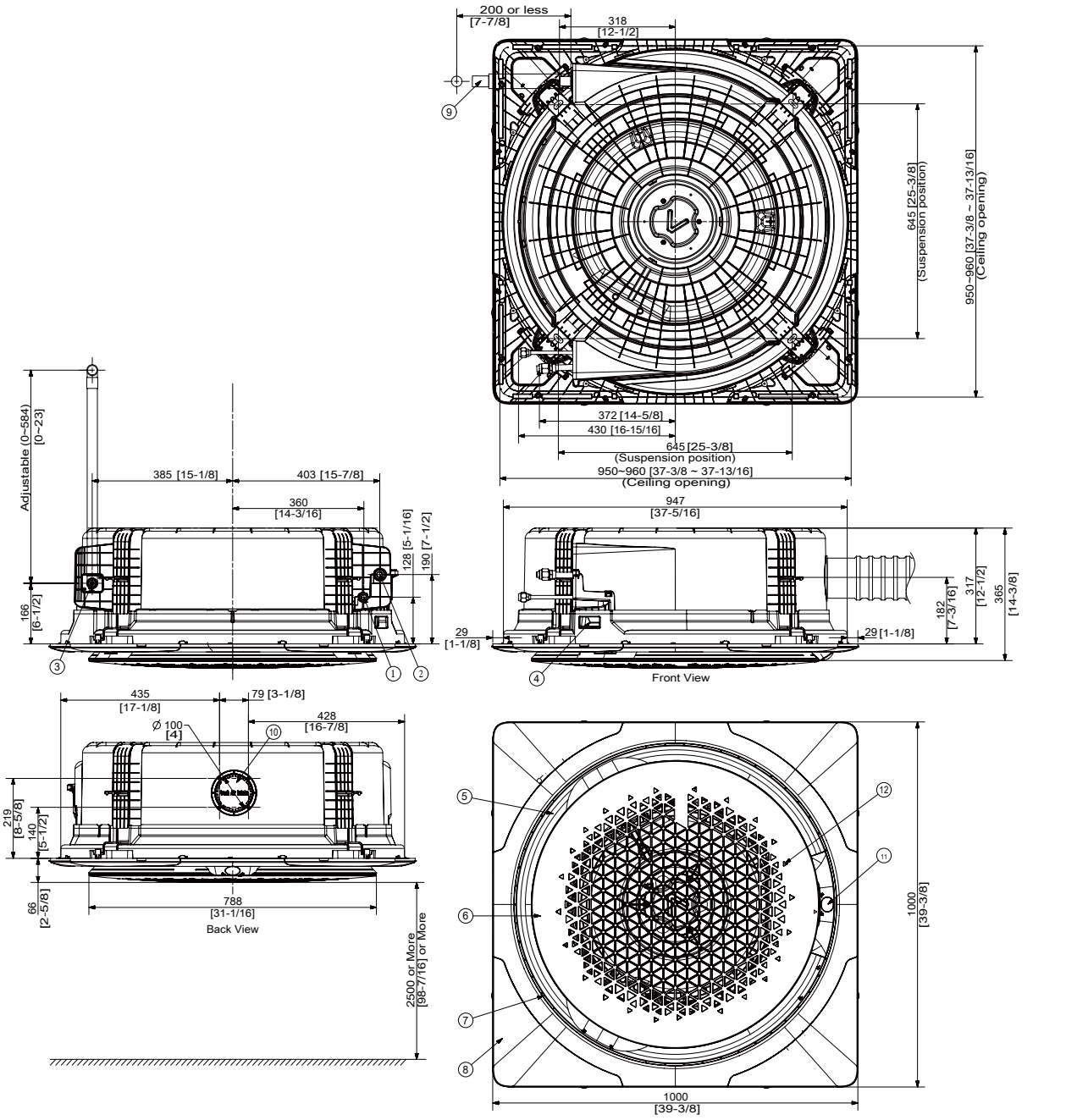
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SUBMITTAL AC036BN6DCH/AA / AC036BXADCH/AA (CNH366DB / CXH36ADB)

Samsung 360 Cassette, Single Zone, Split System

AC036BN6DCH/AA Dimensional Drawing With Ceiling Type Fascia Panel

Units: inches



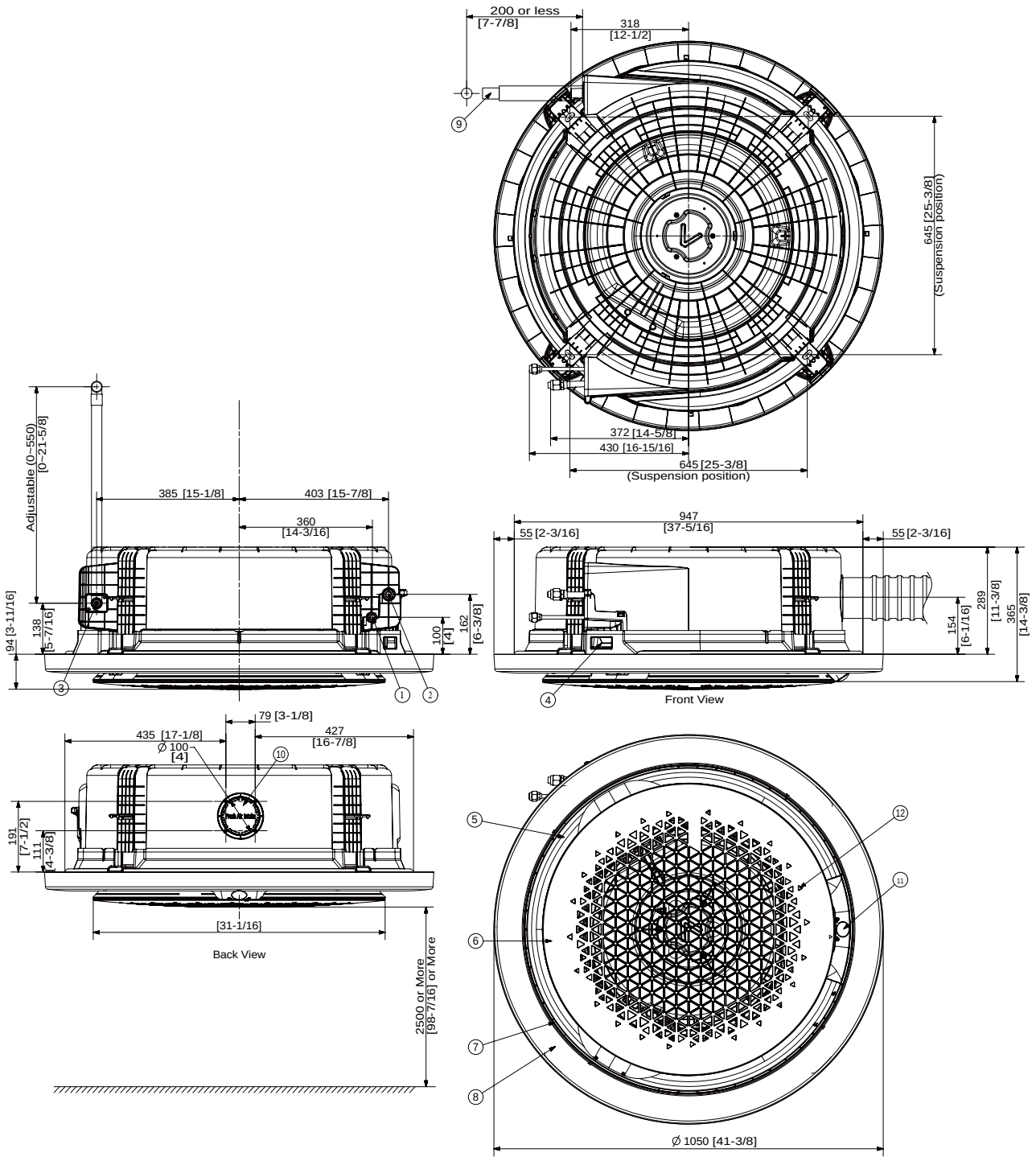
No.	Description
1	Refrigerant Gas Pipe
2	Refrigerant Liquid Pipe
3	Condensate drain
4	Power and wiring entry
5	Air discharge opening
6	Air suction grille

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

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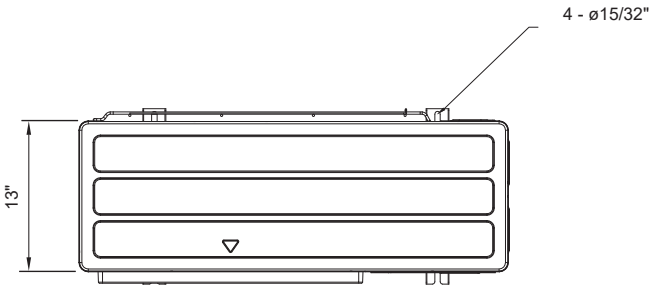
SUBMITTAL AC036BN6DCH/AA / AC036BXADCH/AA (CNH366DB / CXH36ADB)
Samsung 360 Cassette, Single Zone, Split System
AC036BN6DCH/AA Dimensional Drawing With Open Type Fascia Panel

Units: inches

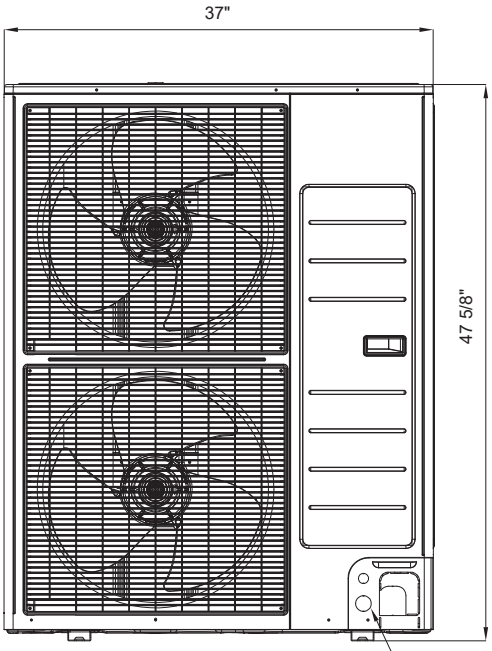


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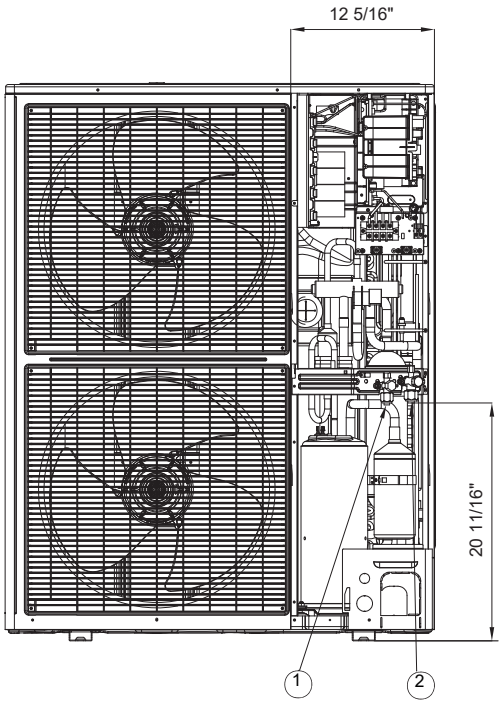
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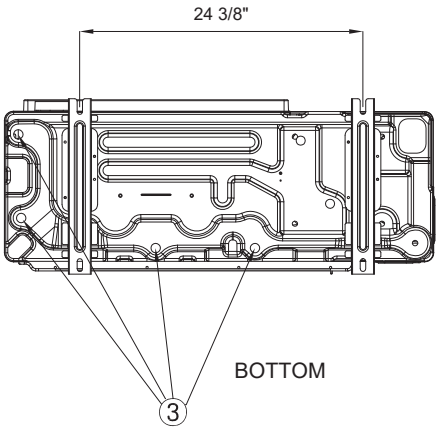
TOP



FRONT



FRONT WITHOUT SERVICE COVER



BOTTOM

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