

Job Name

Purchaser

Submitted to

Unit Designation

Location

Engineer

Reference

Schedule #

Approval

Construction

Specifications			
Model	Indoor Unit Model Number (US Code)		AC030BN4DCH/AA (CNH304DB)
	Outdoor Unit Model Number (US Code)		AC030BXSCC/AA (CXH30SCB)
Performance ¹	Nominal Capacity	Cooling / Heating (Btu/h)	30,000 / 34,000
	Capacity Range	Cooling (Btu/h)	13,000 – 36,000
		Heating (Btu/h)	10,000 – 40,000
	SEER / EER		22.0 / 13.2
	COP (nominal heating)		3.44
	HSPF		10.6
AHRI Certification Number		207698065	
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)	4.5 / 12.5 / 17.1
		Heating (A)	2.9 / 13.8 / 21.1
	Max. Breaker	Amps	40
	Min. Circuit Ampacity (A)	30.4	
Dimensions	W X H X D (in.)	Indoor Unit	33 1/16 X 9 11/16 X 33 1/16
		Outdoor Unit	37 X 55 15/16 X 13
	Weight (lbs.)	Indoor Unit	21.9
		Outdoor Unit	220.5
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	30 / 34 / 37
	Outdoor Unit dB(A)	Cooling / Heating (High)	49 / 50
Operating Temperatures	Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C)
		Heating	-4 ~ 122°F (-20 ~ 50°C) w/ baffle
	Indoor	Cooling	-13 ~ 75°F (-25 ~ 24°C)
		Heating	61 ~ 90°F (16 ~ 32°C)
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8"
		Low side (flare)	5/8"
	Maximum (ft.)		246
	Maximum Vertical Separation (ft.)		98.4
	Condensate Connection		1" OD
Refrigerant	Type		R410A
	Control Method		Electronic Expansion Valve
	Factory Charge	lbs.	8.82
	Charged for		25 ft
Additional Refrigerant		0.11 oz/ft over 25 ft	
Compressor	Manufacturer		Samsung
	Type		Inverter Driven, BLDC, Rotary
	RLA	Amps	21.0
Evaporator Fan	Type		BLDC with Turbo Type fan (1)
	Air Volume	CFM (L/M/H)	629 / 833 / 996
	Output (W)		65 W
Condenser Fan	Motor		BLDC With AxialType Fan (2)
	FLA / W / CFM (max.)		1.25 A / 125 W / 4,414 CFM
Fascia Panel	Model Number		PC4NUFMUN
	L X W X H	in.	37 3/8 X 37 3/8 X 2 1/2
	Weight	lbs.	13.9
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		



- General Information
- The indoor unit shall feature "WindFree™* mode. In cooling mode, as room temperature nears set temperature, the unit will close its louver and will disperse air into the space through thousands of micro-holes on the front of the indoor unit preventing cold air drafts on occupants
 - The system shall provide 100% heating capacity at -4° (-20°C) and high heating performance at -13° (-25°C)
 - Base pan heater equipped as standard
 - Integral condensate pump with maximum 29" lift from bottom of the unit with check valve and float switch that disables indoor should condensate overflow be detected.
 - 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: ASTM-B117-18 - the heat exchanger showed no unusual rust or corrosion development to 2,280 hours.

- 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)
 - System can be set up as heating/cooling, cooling only, or heating only via outdoor unit option setting.
 - 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)
 - 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
 - The WindFree™* function will close the supply air outlet louver while in cooling mode to gently disperse cool air into the space without blowing directly onto occupants. The WindFree™* feature is optional and can be enabled using central or local control options
 - The WindFree™* indoor unit has an integral humidity sensor that will open the louvers for standard cool mode when space conditions could potentially cause condensation formation on the chassis surface

- 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
 - Wired controllers must be purchased separately
 - 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 Twin 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 when registered

Certified in accordance with the AHRI unitary small air-conditioners (USAC) 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.

* The WindFree™ unit delivers an air current that is under 0.15 m/s while in WindFree™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers)

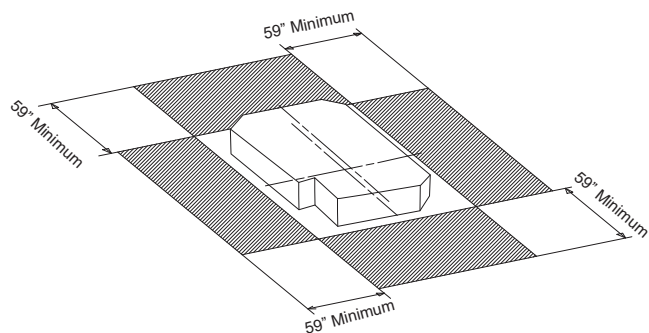
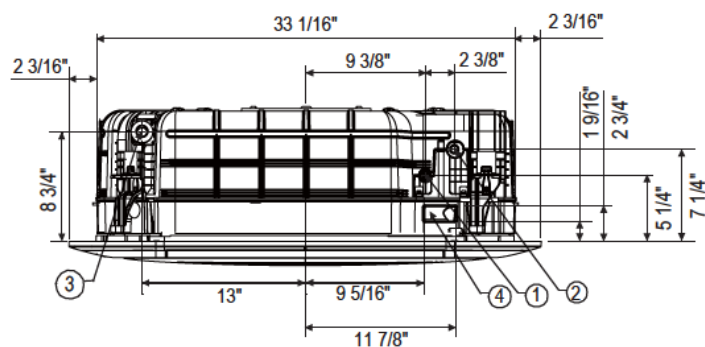
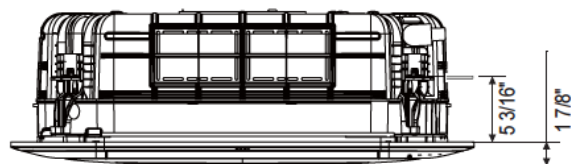
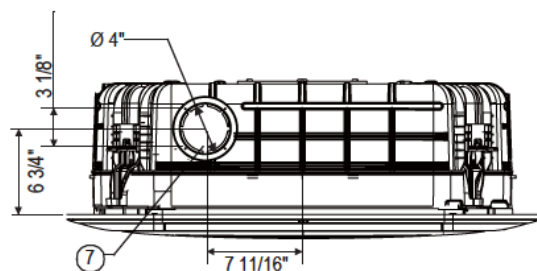
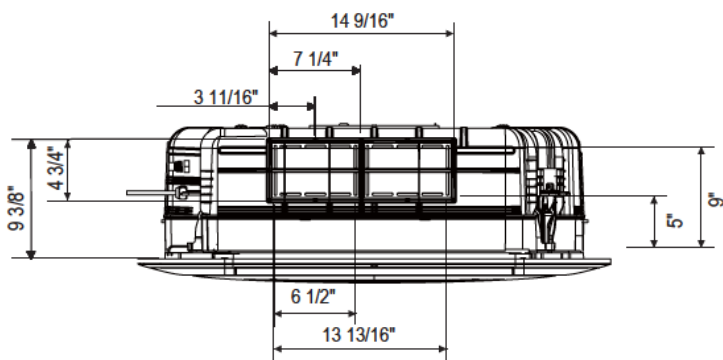
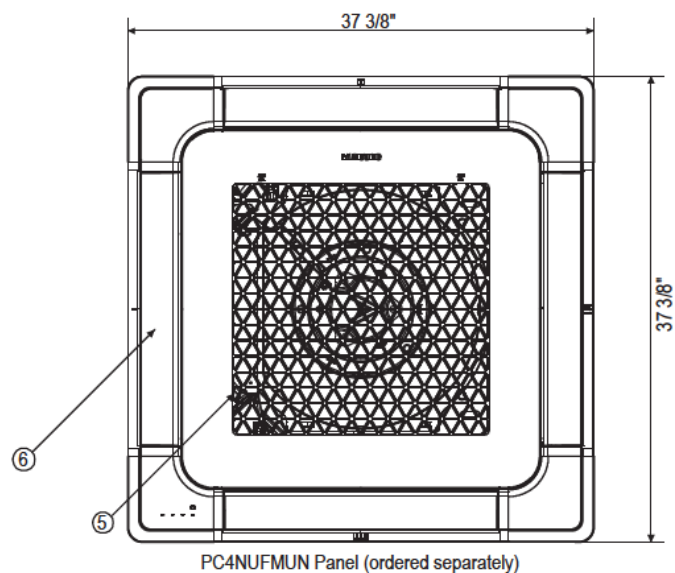
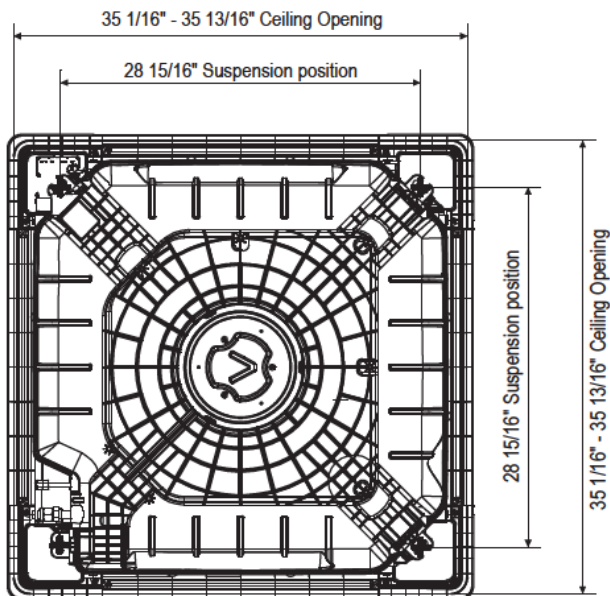
Select models are ENERGY STAR Labeled. Proper sizing and installation of equipment is critical to achieve performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit www.energystar.gov.

Required Accessories

Fascia panel	WindFree [™] Type	<input checked="" type="checkbox"/> PC4NUFMUN
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Optional Accessories

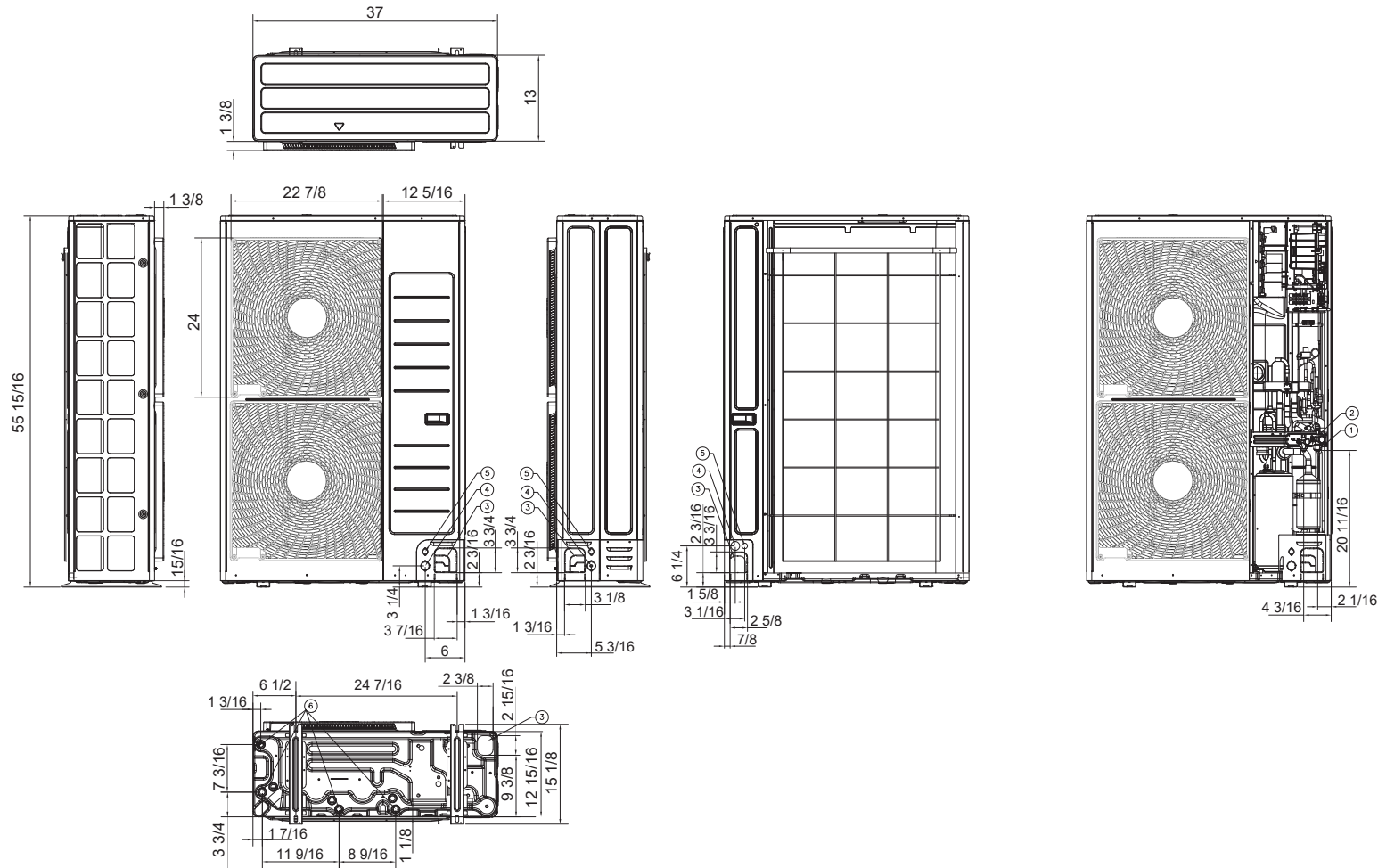
Wired Controller	Advanced	MWR-WG00UN
	Touchscreen	MWR-SH11UN
Thermostat Adapter (24vac)		MIM-A60UN
Wireless Controller		AR-EH04U
Wi-Fi Adapter	Single indoor unit	MIM-H14UN
	1-16 indoor units	MIM-H04UN
External Temperature Sensor		MRW-TA
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffle	Front	WBF-6M
	Back	WBB-4M
Hail Guard		TBD
Line sets - insulated and flared, interconnect cables included		25' - ILS2510
		50' - ILS5010



Proper clearance must be maintained around unit for proper operation.

No.	Name	Description
①	Liquid Pipe Connection	Ø 1/4" Flare
②	Gas Pipe Connection	Ø 1/2" Flare
③	Drain Pipe Connection	OD 1 1/4", ID 1"
④	Conduit for Power & Communication Wiring	-
⑤	Air Inlet Grille	-
⑥	Air Outlet Louver	-
⑦	Fresh Air Inlet	Ø 4"

Units: Inches



No.	Name	Description
①	Refrigerant Liquid Pipe	Ø 3/8"
②	Refrigerant Gas Pipe	Ø 5/8"
③	Pipe Knockout Hole	-
④	Power Wiring Conduits	-
⑤	Comm. Wiring Conduits	-
⑥	Drain Hole	-