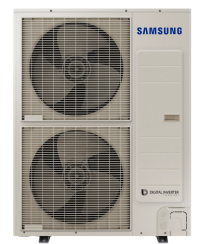


Job Name \_\_\_\_\_  
 Purchaser \_\_\_\_\_  
 Submitted to \_\_\_\_\_  
 Unit Designation \_\_\_\_\_

Location \_\_\_\_\_  
 Engineer \_\_\_\_\_  
 Reference \_\_\_\_\_ Approval \_\_\_\_\_ Construction \_\_\_\_\_  
 Schedule # \_\_\_\_\_

**Specifications**

Model	Indoor Unit Model Number	AC030NN4DCH/AA		
	Outdoor Unit Model Number	AC030JXSCCH/AA		
Performance	Nominal Capacity	Cooling / Heating (Btu/h)	30,000 / 32,000	
	Capacity Range	Cooling (Btu/h)	13,000 - 36,000	
		Heating (Btu/h)	11,000 - 39,000	
	SEER / EER		21.00 / 13.10	
	COP (nominal heating)		3.80	
	HSPF		10.10	
AHRI Certification Number		202087971		
Power	Voltage	∅ / V / Hz	1 / 208-230 / 60	
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)	
	Operating Current (min. / std. / max.)	Cooling (A)	4.8 / 11.0 / 14.0	
		Heating (A)	3.7 / 11.6 / 22.5	
	Max. Breaker	Amps	45	
Min. Circuit Ampacity (A)		26.31		
Dimensions	W X H X D (in.)	Indoor Unit	33 1/16 X 11 3/8 X 33 1/16	
		Outdoor Unit	37 X 55 7/8 X 13	
	Weight (lbs.)	Indoor Unit	40.79	
		Outdoor Unit	211.64	
Heat Exchanger	Indoor Unit	Type	Aluminum Fin / Copper Tube	
		FPI	18	
		Pipe Diameter (in.)	1/4	
	Outdoor Unit	Type	Aluminum, flat fin, micro channel	
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	32 / 35 / 38	
	Outdoor Unit dB(A)	Cooling / Heating (high)	49 / 50	
Operating Temperatures °F(°C)	Outdoor	Cooling	23 ~ 115°F(-5 ~ 46°C)	
		Heating	-4 ~ 115°F(-20 ~ 46°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		
	Condensate Connection	1 1/4" OD, 1" ID		
Refrigerant	Type	R410A		
	Control Method	Electronic Expansion Valve		
	Factory Charge	oz.	102.24	
	Charged for	25 ft		
	Additional Refrigerant	0.269 oz/ft over 25 ft		
Compressor	Manufacturer	Samsung		
	Type	Inverter Driven, Twin BLDC, Rotary		
	RLA	A	20	
Evaporator Fan	Type	BLDC With Turbo Type Fan (1)		
	Air Volume	CFM (L/M/H)	590 / 715 / 840	
	Output	Watts	93	
	Operating Current	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 / 4,415 CFM		
Fascia Panels	Model Number	PC4NUFMUN (Wind-Free™)	PC4NUSKUN (standard)	
	L X W X H (in.)	37 3/8 X 37 3/8 X 2 1/2	37 3/8 X 37 3/8 X 1 3/4	
	Weight (lbs.)	13.89	12.79	
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		



- High performance heating at -13°F
- 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).
- Knock-out for outside air capability (with booster fan connection)
- Fascia panel shall have LED indicator lights, IR receiver, and 4 motorized louvers (independent louver control is possible with wireless or premium wired controller).
- The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night.
- 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
- Wind-Free™ 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 Wind-Free™ feature is optional and can be enabled using central or local control options (MWR-SH11UN, MWR-WE13UN, MWR-WG00UN, AR-EH03U only).
- The Wind-Free™ panel (PC4NUFMUN) has an integral humidity sensor that will open the louvers for standard cool mode when space conditions could potentially cause condensation formation on the panel surface.
- The Wind-Free™ 4-way cassette can be configured for 2-stage operation, cooling the space with the louver open (fixed or swing) until the room temperature nears set temperature. Once room temperature is near set temperature, Wind-Free™ operation will start automatically, closing the louver and using the face of the fascia panel to gently cool the space with still air\*.
- 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.
- The outdoor unit shall have a base pan heater as standard (150W)

**Construction**  
 The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability  
 The indoor unit shall be 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 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  
 Interconnect control wire between outdoor indoor unit shall be 16 AWG X 2 shielded Wired or wireless controls must be purchased separately  
 The system shall integrate with the Samsung NASA Controls Solution

**Refrigerant System**  
 The refrigerant shall be R410A  
 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

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.

\*The Wind-Free™ unit delivers an air current that is under 0.15 m/s while in Wind-Free™ 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).

**Warranty**  
 10 years compressor, 10 years parts, 1 year limited labor (conditions apply)

Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers. Select models are ENERGY STAR Labeled. Proper sizing and installation of equipment is critical to achieve optimal 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.



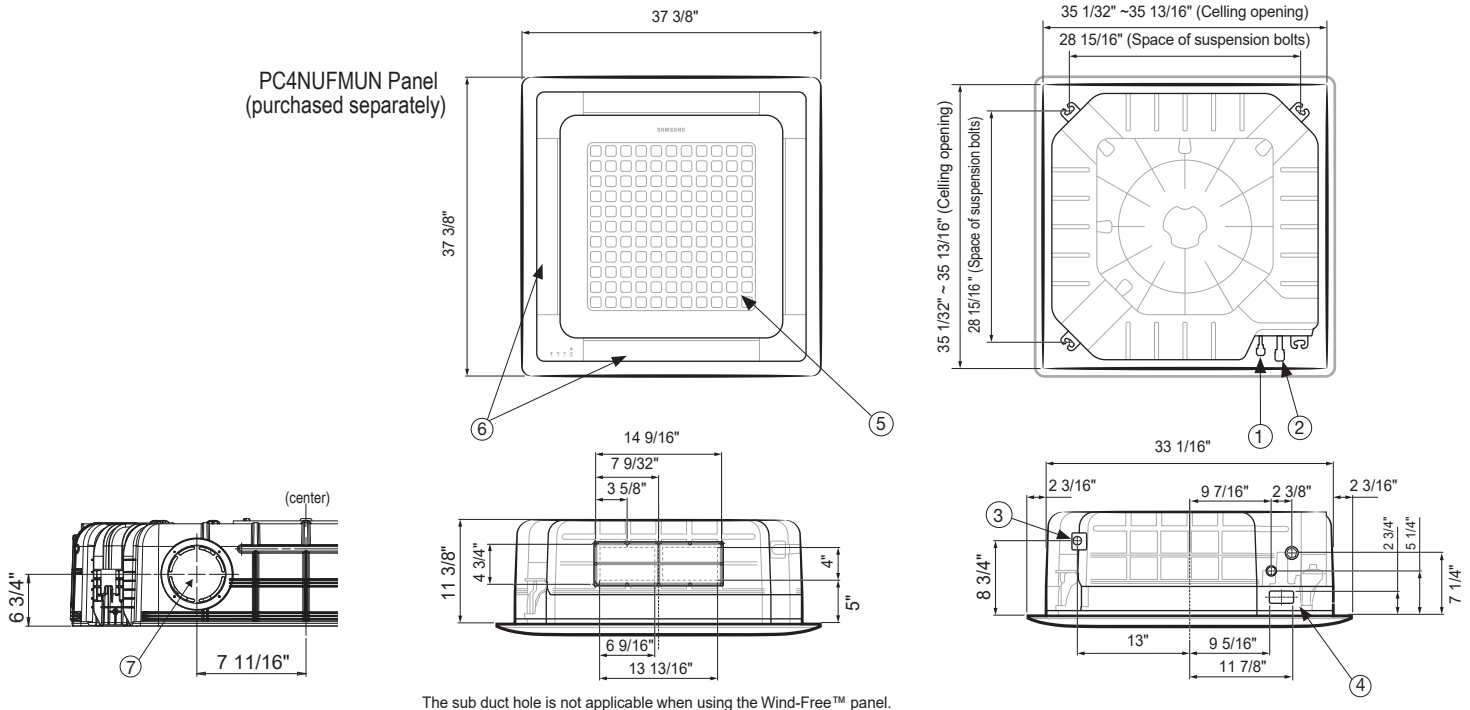
### Required Accessories

Fascia Panel	Wind-Free™	PC4NUFMUN
	Standard	PC4NUSKUN

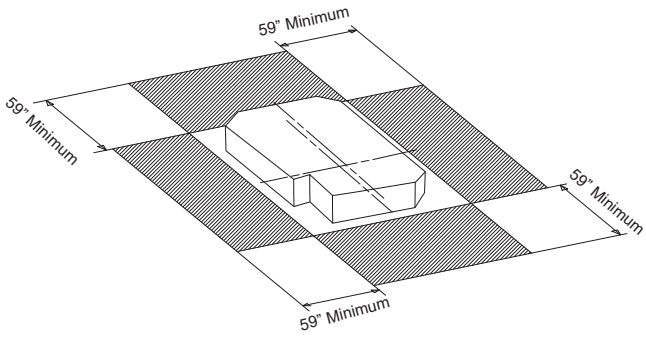
\*A fascia panel is required for cassette unit operation and is sold separately. PC4NUFMUN is required to use the Wind-Free™ functions.

### 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-EH03U
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-6M
	Back	WBB-4M
Line Sets - insulated and flared, interconnect cables included		25' - ILS-2510
		50' - ILS-5010
Thermostat Adaptor		TADPT2
Motion Detection Sensor		MCR-SMC

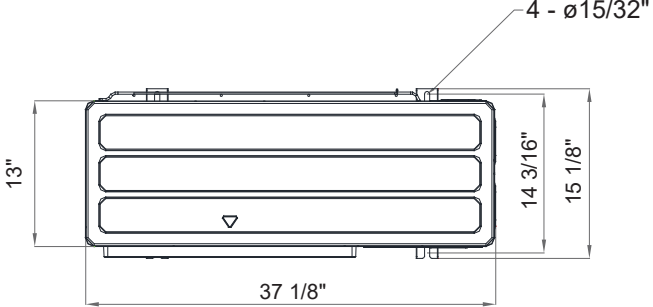


The sub duct hole is not applicable when using the Wind-Free™ panel.

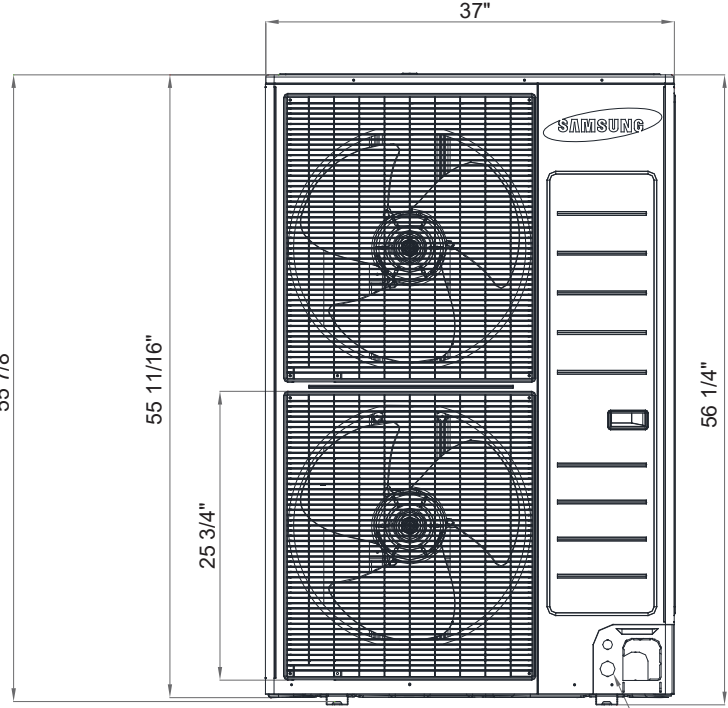


Proper clearance must be maintained around unit for proper operation.

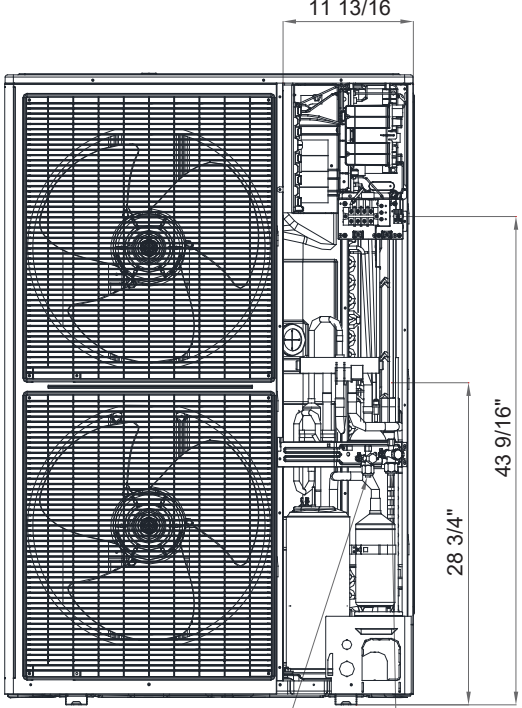
No.	Name	Description
①	Liquid Pipe Connection	Ø 3/8" Flare
②	Gas Pipe Connection	Ø 5/8" Flare
③	Drain Pipe Connection	OD 1 1/4", ID 1"
④	Conduit for Power & Communication Wiring	-
⑤	Air Inlet Grille	-
⑥	Air Outlet Louver	-
⑦	Fresh Air Inlet	Ø 4"



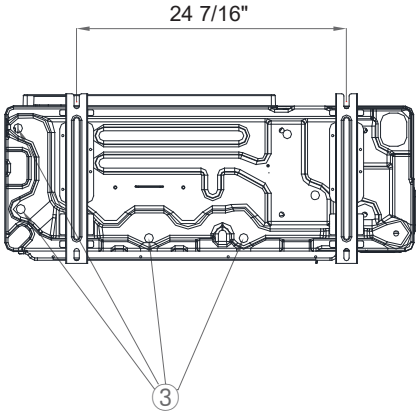
TOP



FRONT



FRONT WITHOUT SERVICE COVER



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