

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

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

### Specifications

|                               |  |  |   |
|-------------------------------|--|--|---|
| Model                         | Indoor Unit Model Number               |  | AC036NN4DCH/AA                          |
|                               | Outdoor Unit Model Number              |  | AC036JXSCCH/AA                          |
| Performance                   | Nominal Capacity                       | Cooling / Heating (Btu/h)  | 36,000 / 42,000                         |
|                               | Capacity Range                         | Cooling (Btu/h)  | 14,000 - 42,000                         |
|                               |  | Heating (Btu/h)  | 12,000 - 48,000                         |
|                               | SEER / EER                             |  | 20.00 / 12.90                           |
|                               | COP (nominal heating)                  |  | 3.62                                    |
|                               | HSPF                                   |  | 10.40                                   |
| AHRI Certification Number     |  | 202087972  |   |
| 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 / 13.4 / 17.0                       |
|                               |  | Heating (A)  | 3.7 / 15.4 / 23.0                       |
|                               | 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  | 33 / 38 / 43                            |
|                               | Outdoor Unit dB(A)                     | Cooling / Heating (high)   | 51 / 53                                 |
| 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)  | 620 / 840 / 1020                        |
|                               | 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 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 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.



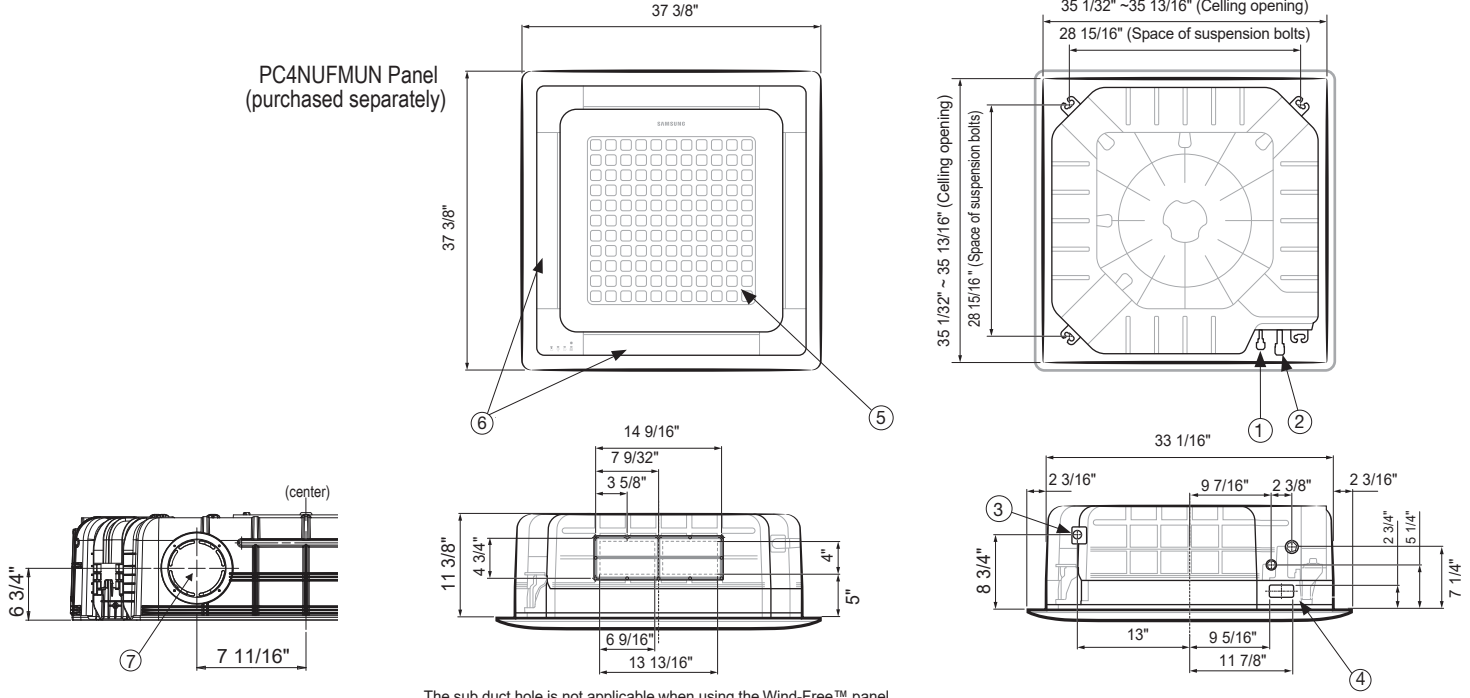
### Required Accessories

|              |            |           |
|--------------|------------|-----------|
| Fascia Panel | Wind-Free™ | PC4NUFMUN |
|              | Standard   | PC4NUSKUN |

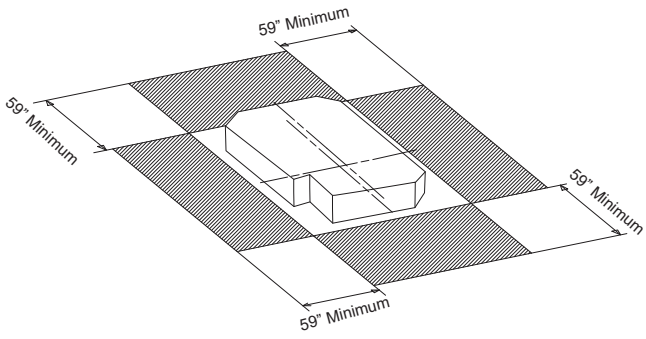
\*A fascia panel is required for cassette unit operation and is sold separately. PC4NUFMUN is required to use the Wind-Free™ functions.

### 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        |

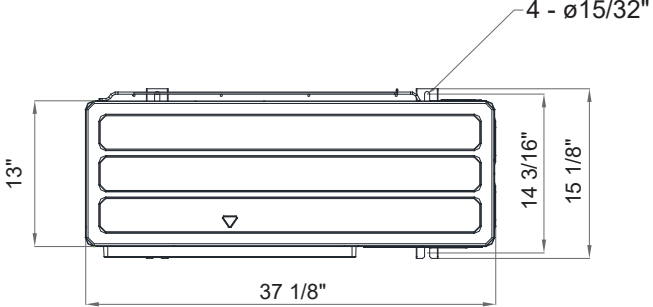


The sub duct hole is not applicable when using the Wind-Free™ panel.

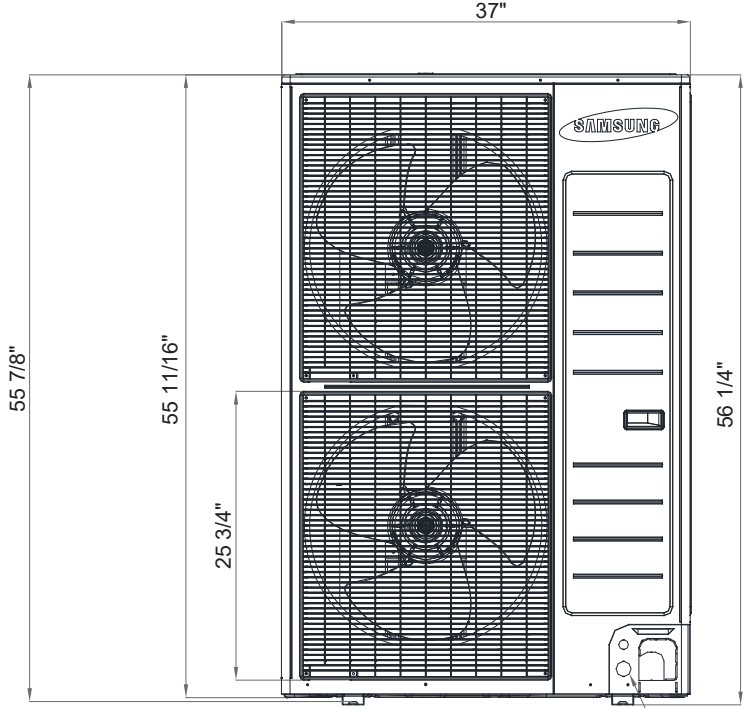


Proper clearance must be maintained around unit for proper operation.

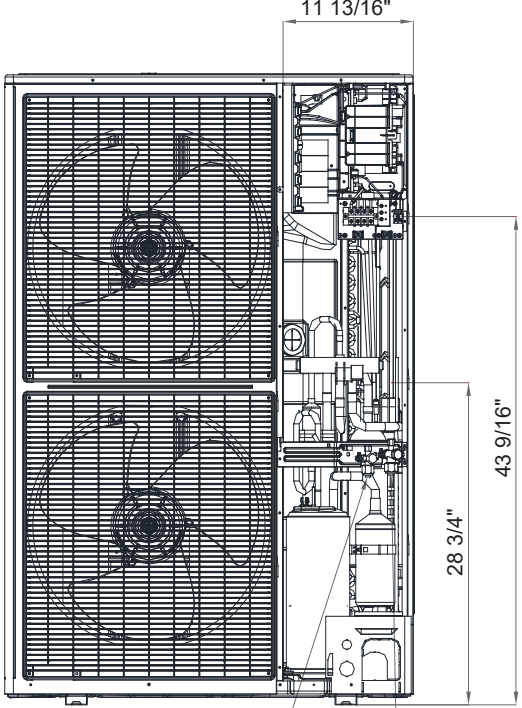
| No. | Name                                     | Description      |
|-----|--|------------------|
| ①   | Liquid Pipe Connection                   | Ø 3/8" Flare     |
| ②   | Gas Pipe Connection                      | Ø 3/5" Flare     |
| ③   | Drain Pipe Connection                    | OD 1 1/4",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



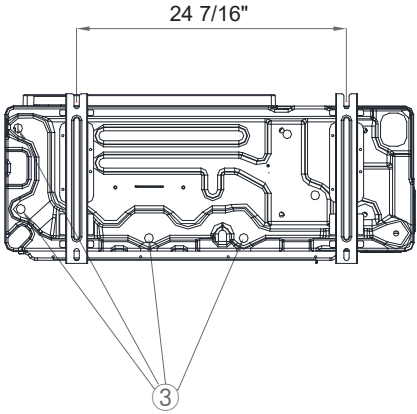
TOP



FRONT



FRONT WITHOUT SERVICE COVER



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