

## Samsung FJM Series, WindFree™ Mini 4-Way Cassette

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

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

## Specifications

|                                         |                                                                   |                 |                                                 |
|-----------------------------------------|-------------------------------------------------------------------|-----------------|-------------------------------------------------|
| Model                                   | US Code                                                           |                 | CNH12NDB                                        |
|                                         | Model Number                                                      |                 | AC012BNNDCH/AA                                  |
| Performance                             | Nominal Capacity                                                  | Cooling (Btu/h) | 10,800                                          |
|                                         |                                                                   | Heating (Btu/h) | 13,500                                          |
| Power                                   | Voltage (øV/Hz)                                                   |                 | 1 / 208-230 / 60                                |
|                                         | Nominal Running Current (A)                                       |                 | 0.30                                            |
| Fan                                     | Type                                                              |                 | Turbo (1)                                       |
|                                         | Motor                                                             | Type            | BLDC (1)                                        |
|                                         |                                                                   | FLA / Output    | 0.30A / 65 W                                    |
| Airflow                                 | CFM                                                               | L/M/H           | 226 / 283 / 325                                 |
| Refrigerant                             | Type                                                              |                 | R410A                                           |
|                                         | Control Method                                                    |                 | Electronic Expansion Valve<br>(at outdoor unit) |
| Piping Connections                      | Liquid (flare)                                                    | Inches          | 1/4                                             |
|                                         | Suction (flare)                                                   | Inches          | 3/8                                             |
|                                         | Drain                                                             | Inches          | OD 1 , ID 3/4                                   |
| Unit Dimensions                         | W X H X D                                                         | Inches          | 22 5/8 X 10 X 22 5/8                            |
|                                         | Weight                                                            | lbs.            | 25.60                                           |
| Fascia Panel <sup>1</sup><br>(required) | Model Number                                                      |                 | PC4SUFMUN                                       |
|                                         | L X W X H                                                         | Inches          | 24 3/8 X 24 3/8 X 2 1/4                         |
|                                         | Weight                                                            | lbs.            | 5.95                                            |
| Sound Level                             | L / M / H                                                         | dB(A)           | 25 / 30 / 34                                    |
| Accessories                             | Fascia Panel                                                      |                 | <input checked="" type="checkbox"/> PC4SUFMUN   |
|                                         | Wired<br>Controllers                                              | Advanced        | MWR-WG00UN                                      |
|                                         |                                                                   | Simple Touch    | MWR-SH11UN                                      |
|                                         | Wireless Remote Controller                                        |                 | AR-EH04U                                        |
|                                         | 24VAC Thermostat Adapter                                          |                 | MIM-A60UN                                       |
|                                         | Motion Occupancy Sensor                                           |                 | MCR-SMD                                         |
|                                         | Wi-Fi Adapter For Remote Control <sup>2</sup>                     |                 | MIM-H04UN                                       |
|                                         | External Temperature Sensor                                       |                 | MRW-TA                                          |
|                                         | External Contact Control Interface Module                         |                 | MIM-B14                                         |
|                                         | CN83 Pigtail                                                      |                 | DB39-01263A                                     |
|                                         | Line sets - insulated and flared,<br>interconnect cables included |                 | 25' - ILS2506                                   |
| 50' - ILS5006                           |                                                                   |                 |                                                 |
| Safety Certifications                   |                                                                   |                 | ETL (UL 1995)                                   |

Nominal cooling capacities are based on: Indoor temperature: 80 °F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.  
 Nominal heating capacities are based on: Indoor temperature: 70 °F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.  
 Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.

\*The WindFree™ 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).

<sup>1</sup>PC4SUFMUN fascia panel is required to use WindFree™ functions. Optional controls are required to enable WindFree™ functions. Fascia panels must be purchased separately.

<sup>2</sup>MIM-H04UN is only required for remote control of cassette, console, and duct indoor units. Only one per system is required.



- The indoor unit shall feature "WindFree™" mode\*. When enabled, in cooling mode, as room temperature nears set temperature, the unit will close its louvers and will disperse air into the space through thousands of micro-holes on the fascia panel preventing cold air drafts on occupants by providing cool still air\*.
- The WindFree™ panel (PC4SUFMUN) 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.
- Washable filter included 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)
- Fascia panel shall have LED indicator lights, IR receiver, and 4 motorized louvers with independent control.
- High-voltage terminal block temperature sensor to disable unit in the event overheating of power connection.
- The indoor unit shall be powered by the outdoor unit
- System energy consumption can be viewed using the Samsung SmartThings mobile app (not revenue grade, for reference only)

## Construction

- Galvanized steel frame with HIPS chassis and fascia panel certified to UL94 V0.

## Heat Exchanger

- The heat exchanger shall be mechanically bonded fin to copper tube

## Indoor Fan

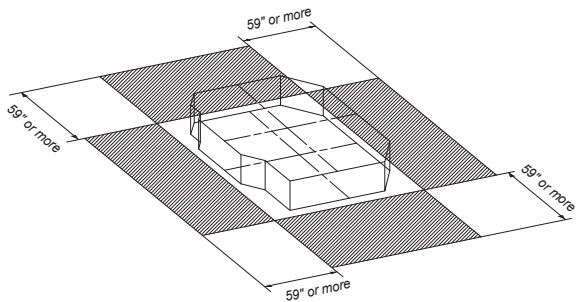
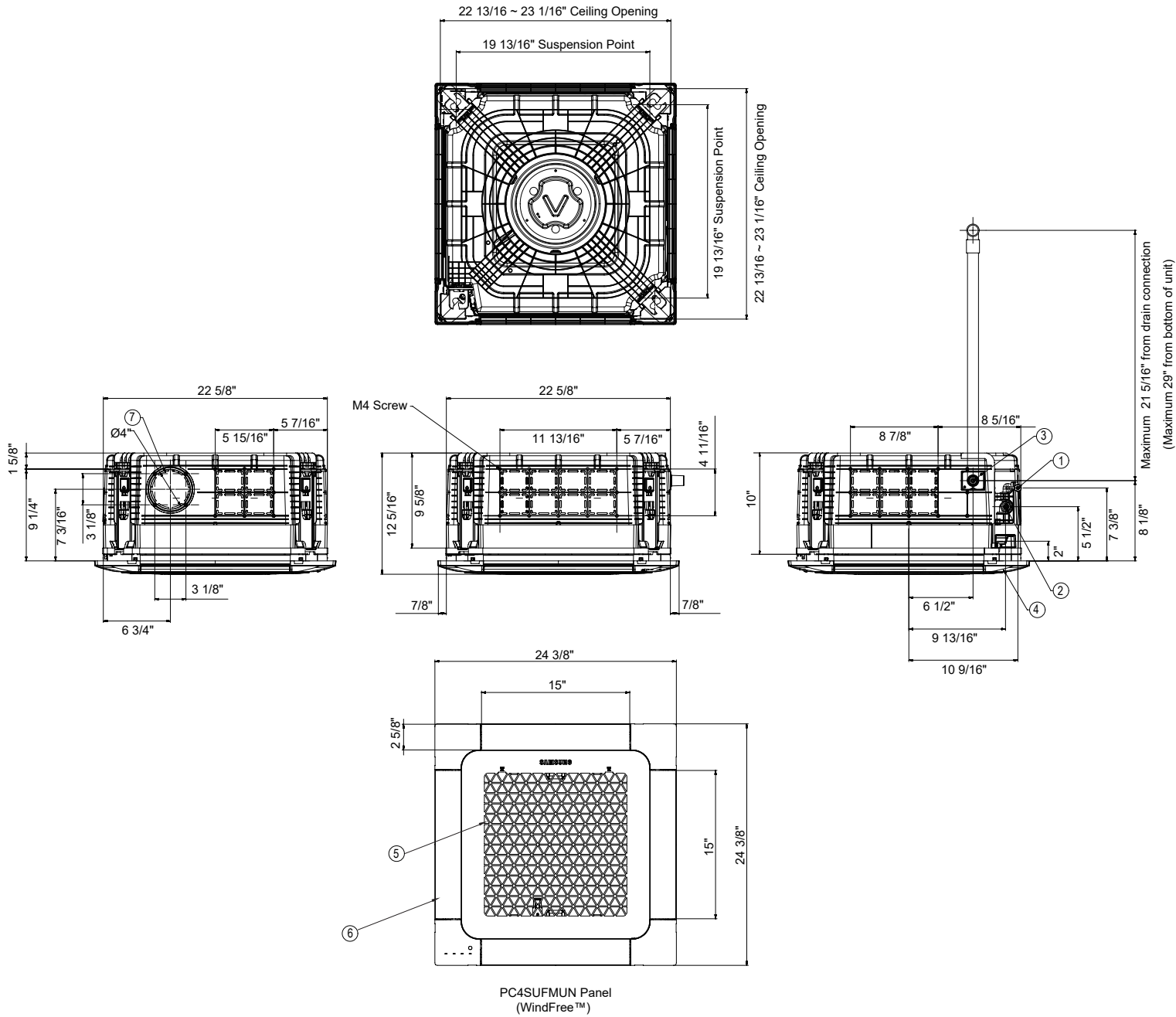
- Indoor fan is a single turbo type with three fan speeds and auto setting

## Controls

- Control signal shall be a DDC type signal
- Interconnect control wire between outdoor and indoor shall be 16 AWG X 2
- Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller.
- The system shall integrate with the Samsung Controls Solution.

## Compatibility

Will only operate with Samsung outdoor unit model numbers: AC012BXADCH/AA (CXH12ADB), AJ020BXJ2CH/AA (JXH20J2B), AJ024BXJ3CH/AA (JXH24J3B), AJ036BXJ4CH/AA (JXH36J4B), AJ048BXJ5CH/AA (JXH48J5B), AJ020BXS3CH/AA (JXH20S3B), AJ024BXS4CH/AA (JXH24S4B), AJ030BXS4CH/AA (JXH30S4B), AJ036BXJ4CH/AA (JXH36J4B), AJ036BXS4CH/AA (JXH36S4B), AJ048BXJ5CH/AA (JXH48J5B)



Sufficient clearance must be maintained around unit for proper operation.

| No. | Description                                      |
|-----|--------------------------------------------------|
| 1   | Liquid pipe connection                           |
| 2   | Suction pipe connection                          |
| 3   | Drain connection                                 |
| 4   | Opening for power and communication wire conduit |
| 5   | Air inlet grille                                 |
| 6   | Supply air outlet louver                         |
| 7   | Fresh air intake (Ø 4")                          |