

## Samsung FJM, 2 Port Condensing Unit

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

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

## Specifications

|                          |                                      |                             |                                       |                  |
|--------------------------|--------------------------------------|-----------------------------|---------------------------------------|------------------|
| Performance*             | Capacity (standard / max.)           |                             | Cooling (Btu/h)                       | 17,000 / 17,000  |
|                          |                                      |                             | Heating (Btu/h)                       | 22,000 / 25,300  |
|                          | Minimum Cooling Capacity (Btu/h)     |                             | 6,500                                 |                  |
|                          | Minimum Heating Capacity (Btu/h)     |                             | 3,500                                 |                  |
|                          | Maximum Indoor Unit Connection Ratio |                             | 140%                                  |                  |
|                          | SEER (Non-ducted / Ducted)           |                             | 18.5 / 17.0                           |                  |
|                          | EER (Non-ducted / Ducted)            |                             | 12.2 / 11.1                           |                  |
|                          | HSPF (Non-ducted / Ducted)           |                             | 9.0 / 8.7                             |                  |
| Power                    | Voltage (øV/Hz)                      |                             | 1/208-230V/60Hz                       |                  |
|                          | Rated Current (amps)                 | Cooling (low / std. / max.) |                                       | 2.2 / 6.7 / 6.7  |
|                          |                                      | Heating (low / std. / max.) |                                       | 1.9 / 8.3 / 10.7 |
|                          | Max. Breaker                         | Amps                        | 15                                    |                  |
|                          | Minimum Circuit Ampacity (A)         |                             | 11                                    |                  |
| Dimensions               | W X H X D (inches)                   |                             | 34 5/8 x 31 7/16 x 14 5/16            |                  |
|                          | Weight (lbs)                         |                             | 126                                   |                  |
| Noise Level              | Outdoor Unit (Db)                    |                             | 48                                    |                  |
| Operating Temperatures   | Cooling                              | °F                          | 23 ≤ T ≤ 115                          |                  |
|                          | Heating                              | °F                          | 5 ≤ T ≤ 75                            |                  |
| Pipe Connections         | High Side                            |                             | 1/4" X 2                              |                  |
|                          | Low Side (suction)                   |                             | 3/8" X 2                              |                  |
|                          | Maximum Individual Line Set Length   |                             | 82 feet                               |                  |
|                          | Maximum Line Set Length (total)      |                             | 164 feet                              |                  |
|                          | Maximum Vertical Separation          | Outdoor to Indoor           |                                       | 49 feet          |
| Highest to lowest indoor |                                      | 25 feet                     |                                       |                  |
| Condenser Fan            | Motor                                |                             | BLDC With Axial Type Fan (1)          |                  |
|                          | Output                               | Watts / FLA                 |                                       | 165 / 0.65       |
|                          |                                      | CFM                         |                                       | 1,448            |
| Compressor               | Type                                 |                             | DC, Inverter Driven, Twin BLDC Rotary |                  |
|                          | RLA                                  | Amps                        | 8.3                                   |                  |
| Heat Exchanger           | Type                                 |                             | Aluminum Fin - Copper Tube            |                  |
|                          | Rows                                 |                             | 2                                     |                  |
| Refrigerant              | Type                                 |                             | R410A                                 |                  |
|                          | Control Method                       |                             | Electronic Expansion Valve            |                  |
|                          | Factory Charge                       |                             | 77.6 oz                               |                  |
|                          | Charged for                          |                             | 98 feet                               |                  |
|                          | Additional Refrigerant               |                             | 0.11 oz/ft over 98 feet               |                  |
| Accessories              | Line Sets - 25' and 50'              |                             | Insulated and flared, wire included   |                  |
|                          | Wall Bracket                         |                             | CKN-250                               |                  |
|                          | Central Control Interface Module     | DVM S Controls (NASA)       |                                       | MIM-N01          |
|                          |                                      | DVM Plus Controls           |                                       | MIM-B13D         |
|                          | Wind Baffles                         | Front                       |                                       | WBMF-24/26       |
| Back                     |                                      | WBMB-24                     |                                       |                  |
| Certifications           | Safety                               |                             | ETL & ETLc                            |                  |
|                          | AHRI Certification Number            | Non-Ducted                  |                                       | 7915890          |
|                          |                                      | Ducted                      |                                       | 7915891          |
| Warranty                 | 10 Years compressor, 10Year Parts    |                             |                                       |                  |



- Low ambient control built in
- The outdoor unit shall supply power to indoor unit(s) via 14 AWG X 3 power wire
- Soft-start to reduce current demand during compressor start
- Auto-restart after power loss
- Available maximum current setting option to reduce maximum operating current.

**Construction**

The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

**Heat Exchanger**

The heat exchanger shall be mechanically bonded fin to copper tube

**Controls**

Control signal shall be a DDC type signal

Interconnect control wire between outdoor and indoor units shall be 16AWG X 2 shielded

Controls shall integrate with a BMS system

The system shall integrate with the Samsung 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 2 separate electronic expansion valves at outdoor unit

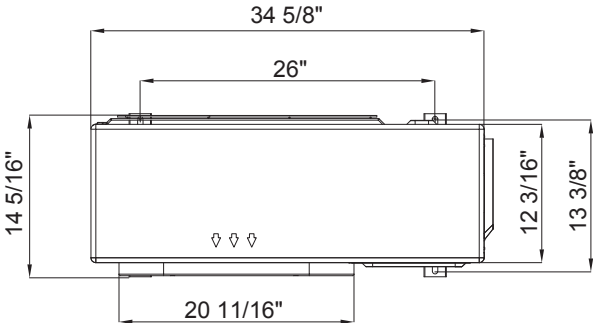
**Compatibility**

Will only operate with Samsung evaporator model numbers: AJ009JNLDCH/AA, AJ012JNLDCH/AA, AJ009JNNDCH/AA, AJ012JNNDCH/AA, AJ007JNADCH/AA, AJ009JNADCH/AA, AJ012JNADCH/AA.

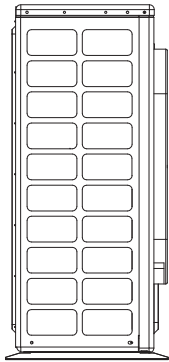
\* Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.

\* Nominal heating capacities are based on: Indoor temperature: 70 F DB, 60 F WB. Outdoor temperature: 47 F DB, 43 F WB.

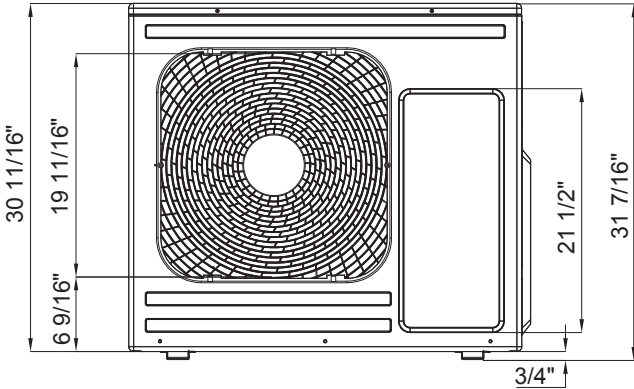
QuietSide maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.



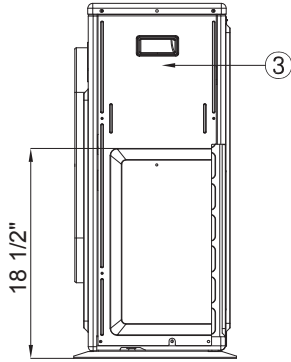
TOP



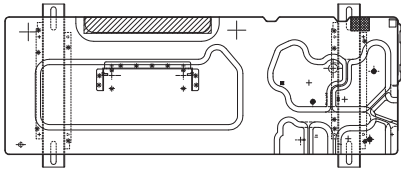
LEFT



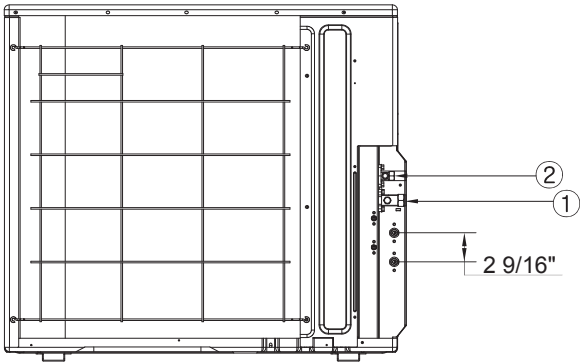
FRONT



RIGHT



BOTTOM



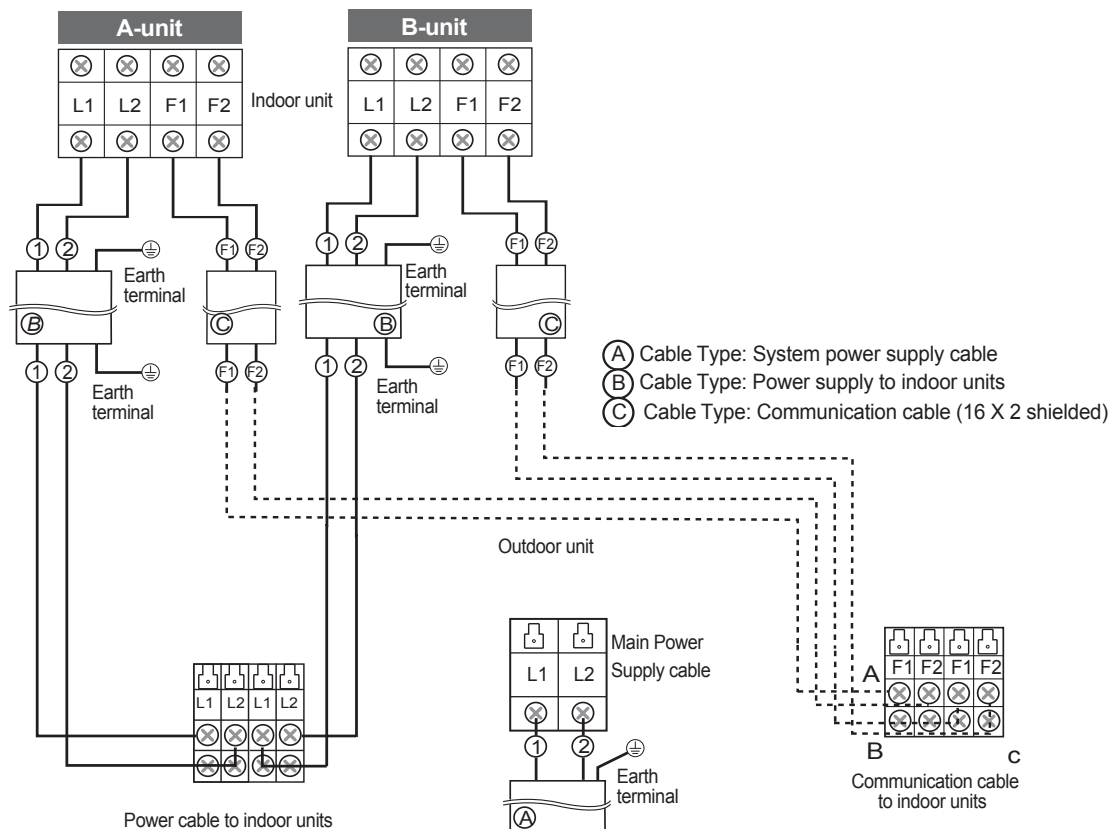
BACK

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

## Indoor Unit Connection Options

| Indoor Unit    |                |                |
|----------------|----------------|----------------|
|                | A              | B              |
| 1 Indoor Unit  | AJ007JN*DCH/AA |                |
|                | AJ009JN*DCH/AA |                |
|                | AJ012JN*DCH/AA |                |
| 2 Indoor Units | AJ007JN*DCH/AA | AJ007JN*DCH/AA |
|                | AJ007JN*DCH/AA | AJ009JN*DCH/AA |
|                | AJ007JN*DCH/AA | AJ012JN*DCH/AA |
|                | AJ009JN*DCH/AA | AJ009JN*DCH/AA |
|                | AJ009JN*DCH/AA | AJ012JN*DCH/AA |
|                | AJ012JN*DCH/AA | AJ012JN*DCH/AA |

## Basic Wire Connection Diagram



This simple wiring diagram is for reference only. Please refer to installation manuals for full details and requirements.