

## Samsung FJM Series, Multi-position Air Handler Unit

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

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

### Specifications

|                          |  |                  |  |
|--------------------------|--|------------------|--|
| Model                    | US Code  |                  | CNH18ZDB                                     |
|                          | Model Number   |                  | AC018BNZDCH/AA                               |
| Performance              | Nominal Capacity   | Cooling (Btu/h)  | 18,000                                       |
|                          |  | Heating (Btu/h)  | 20,000                                       |
| Power                    | Voltage (øV/Hz)  |                  | 1 / 208-230 / 60                             |
|                          | Nominal Running Current (A)                                    |                  | 1.50   |
| Fan                      | Type   |                  | Centrifugal                                  |
|                          | Motor  | Type             | ECM Constant-Torque (1)                      |
|                          |  | FLA / Output     | 1.5 A / 153 W                                |
| Airflow                  | CFM  | L/M/H            | 464 / 530 / 600                              |
| External Static Pressure | Standard   | "WC              | 0.58   |
|                          | Min / Max.   | "WC              | 0 / 0.80                                     |
| Refrigerant              | Type   |                  | R410A  |
|                          | Control Method   |                  | Electronic Expansion Valve (at outdoor unit) |
| Piping Connections       | Liquid (braze)   | Inches           | 1/4  |
|                          | Suction (braze)  | Inches           | 1/2  |
|                          | Drain  | Inches           | PFT 3/4 PVC                                  |
| Unit Dimensions          | W X H X D  | Inches           | 17 1/2 X 43 X 21 3/4                         |
|                          | Duct Connections (WXH)   | Supply (in.)     | 12 1/4 X 15 1/2                              |
|                          |  | Return (ID, in.) | 17 1/2 X 21                                  |
|                          | Weight   | lbs.             | 98.1   |
| Sound Level              | L / M / H  | dB(A)            | 25 / 29 / 33                                 |
| Accessories              | Wired Controllers  | Advanced         | MWR-WG00UN                                   |
|                          |  | Simple Touch     | MWR-SH11UN                                   |
|                          | Wireless Signal Receiver                                       |                  | MRK-A10N                                     |
|                          | Wireless Remote Controller <sup>1</sup>                        |                  | AR-EH04U                                     |
|                          | 24VAC Thermostat Adapter                                       |                  | MIM-A60UN                                    |
|                          | Filter Box (includes 1" MERV 8 filter)                         |                  | VFB-1  |
|                          | 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, interconnect cables included |                  | 25' - ILS2507                                |
|                          |  |                  | 50' - ILS5007                                |
|                          | Supplemental Electric Heat kits                                | 3kW              | VHK-103A                                     |
| 5kW                      |  | VHK-105A         |  |
| Downflow Conversion Kit  |  | VDK-1            |  |
| Safety Certifications    |  |                  | ETL (UL 1995)                                |



- High-voltage terminal block temperature sensor to disable unit in the event of overheating of power connection.
- System energy consumption can be viewed using the Samsung SmartThings mobile app (not revenue grade, for reference only)
- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire when optional heat kits are not installed. If VHK-\*\*\*A supplemental heat kits are installed, power to the heat kits must be provided from a dedicated circuit with proper overcurrent protection per NEC (refer to VHK-\*\*\*A supporting documents for heat kit electrical data).

#### Indoor Fan

- Indoor fan is a double Inlet, forward curve, centrifugal type
- Three fan speed settings and auto setting
- Field configurable for downflow operation with optional conversion kit

#### Construction

- Insulated, galvanized steel.

#### Controls

- Control wiring shall be 2 X 16 AWG
- The unit shall be operated via a wireless or wired remote control with DDC type signal
- Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller or central control options.
- Wired or wireless controllers must be purchased separately

#### Refrigerant System

- 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

#### Compatibility

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

**ATTENTION:** When connecting MPAH (AC0\*\*BNZDCH/AA) and Duct S (AJ0\*\*BNHDCH/AA) indoor units the sum of the connected indoor unit capacity is reduced. Other conditions apply. Refer to engineering manuals/technical data books and installation manuals for more information.

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.

<sup>1</sup> Requires the installation of MRK-A10N wireless signal receiver.

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



SUBMITTAL AC018BNZDCH/AA (CNH18ZDB)  
 Samsung FJM Series, Multi-position Air Handler Unit  
 AC018BNZDCH/AA Dimensional Drawing

| No. | Description      |
|-----|------------------|
| ①   | Gas Pipe         |
| ②   | Liquid Pipe      |
| ③   | Drain Connection |
| ④   | Air Outlet       |
| ⑤   | Air Inlet        |

