SAMSUNG

# SUBMITTAL AJ020BXJ2CH/AA (JXH20J2B)

## Samsung FJM Series, 2 Port Condensing Unit

Job Name _____ Location _____

Purchaser _____ Engineer _____

Submitted to _____ Reference ☐ Approval ☐ Construction ☐

Unit Designation _____ Schedule # _____

| | | | |
|---|---|---|---|
| Model | US Code | | JXH20J2B |
| | Model Number | | AJ020BXJ2CH/AA |
| Performance* | Capacity (standard / max.) | Cooling (Btu/h) | 18,000 / 18,000 |
| | | Heating (Btu/h) | 22,000 / 26,400 |
| | Minimum Cooling Capacity (Btu/h) | | 5,500 |
| | Minimum Heating Capacity (Btu/h) | | 3,500 |
| | SEER (Ducted / Mixed / Non-ducted) | | 18.0 / 18.75 / 19.5 |
| | EER (Ducted / Mixed / Non-ducted) | | 11.1 / 11.9 / 12.7 |
| | HSPF (Ducted / Mixed / Non-ducted) | | 9.5 / 9.75 / 10.0 |
| Power | Voltage | (ø/V/Hz) | 1 / 208-230 / 60 |
| | Nominal Current[1] | Cooling (A) | 6.8 |
| | | Heating (A) | 8.3 |
| | Max. Breaker | Amps | 20 |
| | Minimum Circuit Ampacity (A) | | 16.5 |
| Dimensions | W X H X D | Inches | 34 5/8 X 31 7/16 X 12 3/16 |
| | Weight | lbs. | 116.8 |
| Noise Level | Cooling (Max.) | dB (A) | 48 |
| | Heating (Max.) | dB (A) | 51 |
| Operating Temperatures | Cooling | | 14 ~ 114.8°F (-10 ~ 46.0°C) |
| | Heating | | 5 ~75°F (-15 ~ 24.0°C) |
| Pipe Connections | High Side | | 1/4" X 2 |
| | Low Side (suction) | | 3/8" X 1 + 1/2" X 1 |
| | Maximum Individual Line Set Length | | 82 ft |
| | Maximum Line Set Length (total) | | 164 ft |
| | Maximum Vertical Separation | Outdoor to Indoor | 49 ft |
| | | Highest to Lowest Indoor | 25 ft |
| | Included Pipe Adapter | | 1 - 1/2" X 3/8" |
| Condenser Fan | Motor | | BLDC With Propeller Fan (1) |
| | Output | Watts / FLA | 125 / 1.28 |
| | | CFM | 1,667 |
| Compressor | Type | | Twin BLDC Rotary Inverter |
| | RLA | Amps | 11.2 |
| Heat Exchanger | Type | | Aluminum Fin - Copper Tube |
| Refrigerant | Type | | R410A |
| | Control Method | | Electronic Expansion Valve |
| | Factory Charge | | 77.6 oz |
| | Charged for | | 98 ft |
| | Additional Refrigerant | | 0.11 oz/ft over 98 ft |
| Accessories | Wall Bracket | | ☐ CKN-250 |
| | Wind Baffle | Front | ☐ WBF-7M |
| | | Back | ☐ WBB-7M-B |
| Certifications | Safety | | ETL (UL 1995) |
| | AHRI Certification Number | Non-Ducted | 207349914 |
| | | Ducted | 207350069 |
| | | Mixed | 207350087 |
| Warranty | 10 Years compressor, 10 year parts, 1 year limited labor (registration required) | | |

* 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. Refer to www.AHRIdirectory.org for current reference numbers.

[1] Rated current is based on highest combination ratio of non-ducted indoor units.

Samsung HVAC maintains a policy of ongoing development, specifications are subject to change without notice.




- Auto or manual addressing of indoor units
- The outdoor unit shall supply power individually to the indoor units via 14 AWG X 3 power wire
- Soft-start to reduce current demand during compressor start
- Auto-restart after power loss
- System can be set up as heating/cooling, cooling only, or heating only via outdoor unit option setting.
- Available maximum current setting option to reduce maximum operating current.
- System energy consumption can be viewed using Samsung SmartThings mobile app (not revenue grade, for reference only).

**Construction**
The outdoorunit 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

The system shall integrate with the Samsung Controls Solution without the use of an interface module.

**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**
AR**TSFABWKNCV (RNS**ABT): 7,000 - 15,000 Btu/h models
AR**BSFCMWKNCV (RNS**CMB): 7,000 - 15,000 Btu/h models
AR**TSFYBWKNCV (RNS**YBT): 7,000 - 15,000 Btu/h models
AC0**BNNDCH/AA (CNH**NDB): 9,000 - 12,000 Btu/h models
AC0**BN1DCH/AA (CNH**1DB): 9,000 - 12,000 Btu/h models
AC0**BNJDCH/AA (CNH**JDB): 9,000 - 15,000 Btu/h models
AC0**BNLDCH/AA (CNH**LDB): 9,000 - 12,000 Btu/h models
AC012BNZDCH/AA (CNH12ZDB)

Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and (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.

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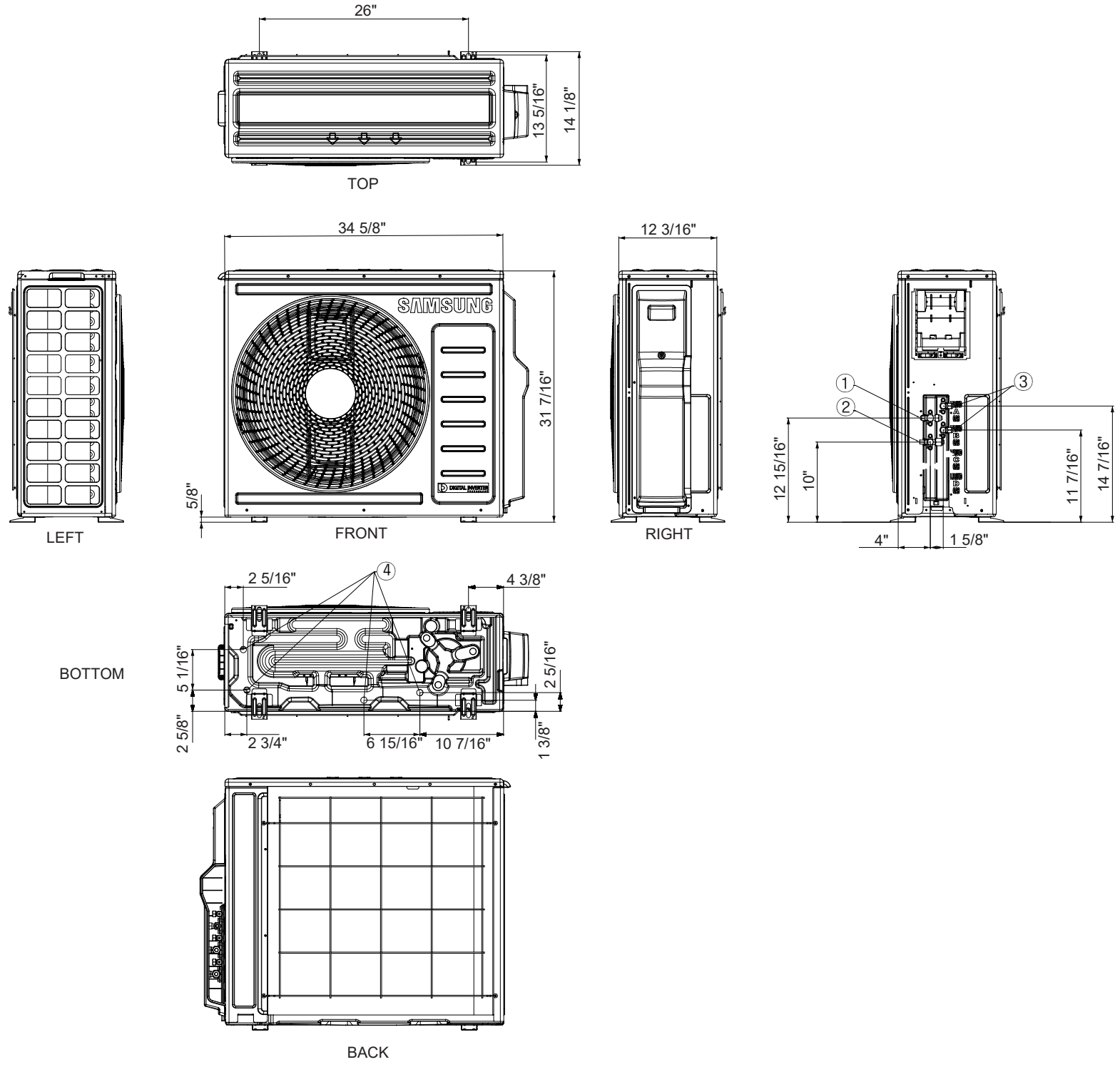

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Samsung FJM, 2 Port Condensing Unit

Dimensional drawing




| No. | Name | Description |
|---|---|---|
| 1 | Refrigerant suction pipes | ø3/8" x 1 each |
| 2 | | ø1/2" x 1 each |
| 3 | Refrigerant liquid pipes | ø1/4" x 2 each |
| 4 | Drain holes | Connection with provided drain fitting |

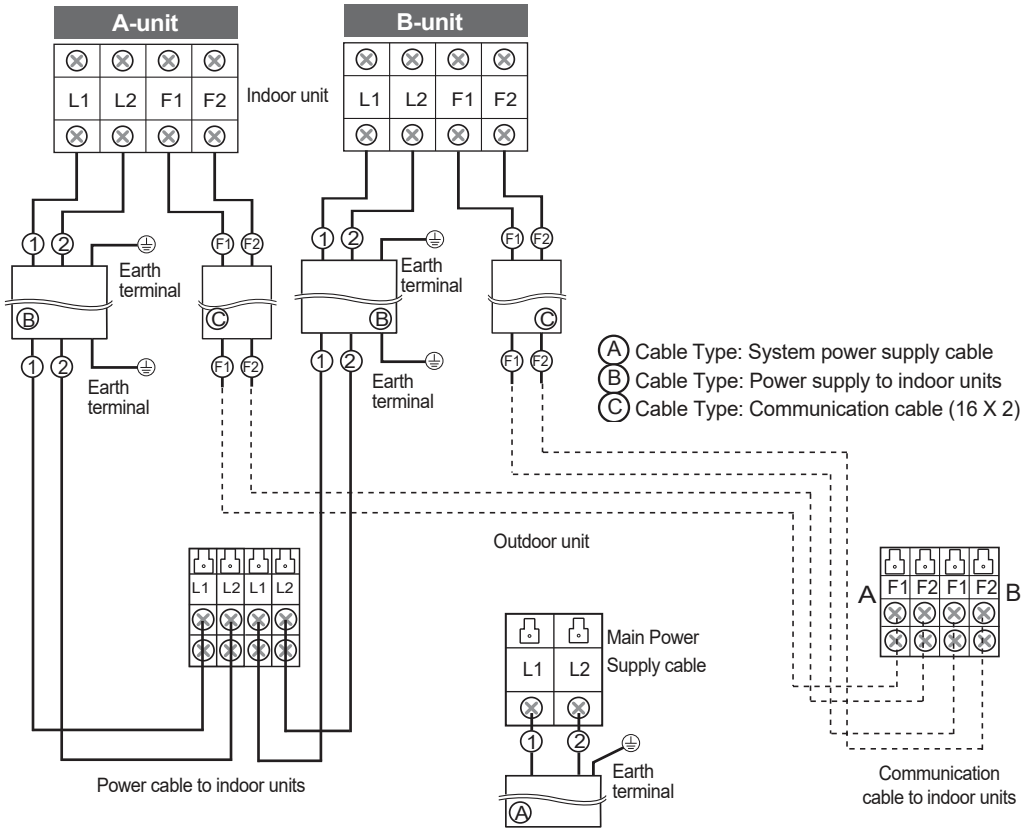
## Indoor Unit Connection Options

| | Indoor Unit Capacity (Btu/h) | |
|---|---|---|
| | A | B |
| 2 Indoor Units | 7,000 | 7,000 |
| | 7,000 | 9,000 |
| | 7,000 | 12,000 |
| | 7,000 | 15,000 |
| | 9,000 | 9,000 |
| | 9,000 | 12,000 |
| | 9,000 | 15,000 |
| | 12,000 | 12,000 |
| | 12,000 | 15,000 |

Must have a minimum of 2 indoor units connected. Will only operate with Samsung evaporator model numbers listed below:
AR**TSFABWKNCV (RNS**ABT): 7,000 - 15,000 Btu/h models
AR**BSFCMWKNCV (RNS**CMB): 7,000 - 15,000 Btu/h models
AR**TSFYBWKNCV (RNS**YBT): 7,000 - 15,000 Btu/h models
AC0**BNNDCH/AA (CNH**NDB): 9,000 - 12,000 Btu/h models
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AC0**BNJDCH/AA (CNH**JDB): 9,000 - 15,000 Btu/h models
AC0**BNLDCH/AA (CNH**LDB): 9,000 - 12,000 Btu/h models
AC012BNZDCH/AA (CNH12ZDB)

**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.

## Basic Wire Connection Diagram




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