

SAMSUNG

Submittal Data

AJ036DXS4CG/AA (JXG36S4D)

FJM Premium, 4 Port Condensing Unit

Job name: _____

Purchaser: _____

Submitted to: _____

Unit designation: _____

Location: _____

Engineer: _____

Reference _____ Approval _____ Construction _____

Schedule #: _____

General Information

- The system shall provide high heating capacity at -13°F (-25°C) outside temperature and 100% rated heating capacity at 5°F (-15°C) outside temperature.
- The outdoor unit shall have a base pan heater as standard for optimal defrost cycle water drainage
- Auto-restart after power loss
- Available maximum current setting option to reduce operating current.
- System energy consumption can be viewed using the Samsung SmartThings mobile app (not revenue grade, for reference only).
- Soft-start to reduce current demand during compressor start
- The outdoor unit shall provide 208/230V power to the indoor unit via 14 AWG X 3 interconnect power cable.
- Interconnecting control wiring between the outdoor to indoor shall be 2-conductor/stranded copper/shielded cable between 18-16 AWG.

Construction

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

Heat Exchanger

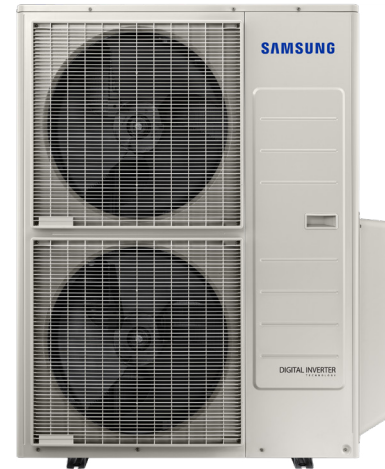
- The heat exchanger shall be mechanically bonded fin to copper tube

Refrigerant System

- The system shall utilize low-GWP R-32 refrigerant
- Refrigerant flow shall be controlled by electronic expansion valves at the outdoor unit.
- The system shall include an R32 alarm output plug on indoor units with refrigerant leak detectors and outdoor unit for notification of R32 leak detection when refrigerant leak detectors are installed and configured (MIM-B14U accessories are required).

Controls

- Control signal shall be a DDC type signal
- The system shall integrate with the Samsung Central Controls solution



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 or visit www.energystar.gov.

Samsung HVAC maintains a policy of ongoing development. Specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.

Specifications

| | | | |
|-------------------------------------|---|--|-----------------------------------|
| Model | Outdoor Unit Model Number (US Code) | | AJ036DXS4CG/AA (JXG36S4D) |
| Performance | Rated Capacity* | Cooling (Btu/h) | 34,000 |
| | | Heating (Btu/h) | 36,600 |
| | Heating Capacity at 5°F OA, 70°F Indoor DB (Btu/h, Ducted) | | 34,600 |
| | SEER2 (Ducted / Mixed / Non-ducted) | | 18.5 / 20 / 21.5 |
| | EER2 (Ducted / Mixed / Non-ducted) | | 11.7 / 12.1 / 12.5 |
| HSPF2 (Ducted / Mixed / Non-ducted) | | 8.5 / 9 / 9.5 | |
| Power | Voltage | ø / V / Hz | 1 / 208-230 / 60 |
| | Working Voltage Range (VAC) | | 187 - 253 |
| | Nominal Current** | Cooling (A) | 12.1 |
| | | Heating (A) | 11.3 |
| | Max. Breaker | Amps | 40.0 |
| Min. Circuit Ampacity | Amps | 35.9 | |
| Dimensions | W X H X D | In. | 37 X 47 5/8 X 13 |
| | Weight | lbs. | 194.00 |
| Sound Pressure Level | Cooling / Heating (high) | | 52 / 53 |
| Operating Temperatures | Outdoor | Cooling | 14 - 115°F (-10 - 46°C) |
| | | Heating | -13 - 75°F (-25 - 24°C) |
| Pipe Connections | High side | | 1/4" X 4 |
| | Low side (suction) | | 3/8" X 2 + 1/2" X 2 |
| | Max. Individual Line Set Length | ft. | 82 |
| | Max. Line Set Length (total) | ft. | 230 |
| | Max. Vertical Separation | Outdoor to indoor (ft.) | 49 |
| | | Highest to lowest indoor (ft.) | 25 |
| Included Pipe Adapters | | 2 - 1/2" X 3/8", 2 - 1/2" X 5/8" | |
| Refrigerant | Type | | R-32 |
| | Control Method | | Electronic Expansion Valve (4) |
| | Factory Charge | oz. | 109.3 |
| | Charged for | ft. | 230 |
| Compressor | Type | | Inverter Driven, Twin BLDC Rotary |
| | RLA | Amps | 22.8 |
| Condenser Fan | Type | | BLDC With Axial Type Fan (2) |
| | MOC / Watts / CFM (max.) | | 1.2A X 2 / 125W X 2 / 3,320 |
| Corrosion Prevention | ISO-9227 - The condenser heat exchanger showed no unusual rust or corrosion development to 240 hours. | | |
| Safety | Certifications | UL 60335-2-40 | |
| | Devices | PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing | |

*Standard capacity is based on non-ducted rated capacity. Minimum and maximum capacity will vary based on connected indoor unit type, capacity, and quantity along with indoor and outdoor temperatures. Refer to system capacity tables for full capacity details.

**Rated current based on highest combination ratio of non-ducted indoor units.

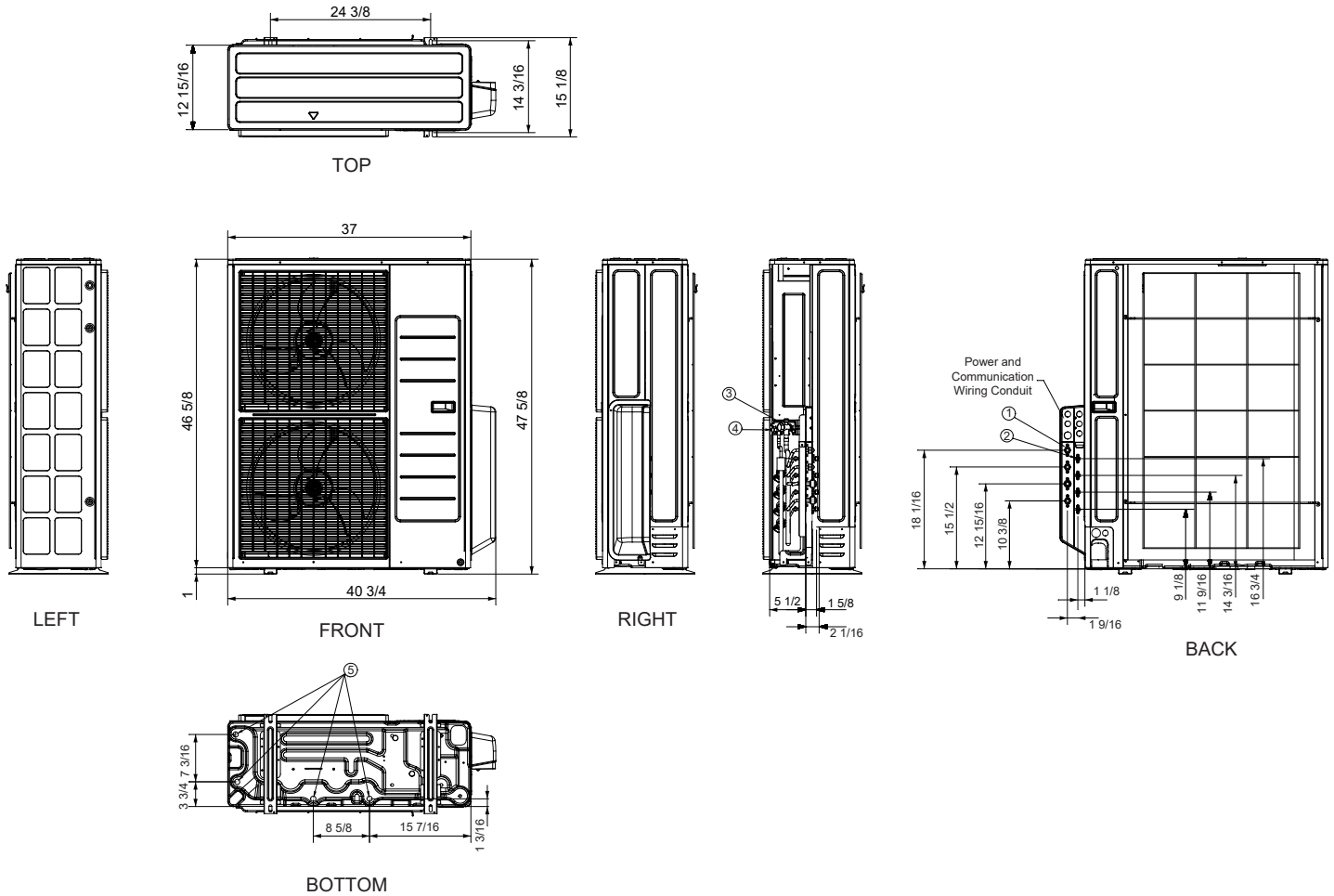
Accessories

| | | |
|--|-------|----------|
| Wind baffles | Front | WBF-1M2 |
| | Back | WBB-2M-B |
| Hail guard kit (includes back and side guards) | | HGK-4 |
| Wall bracket | | CKN-250 |

Dimensional Drawing

AJ036DXS4CG/AA (JXG36S4D)

Unit: Inches



| No. | Name | Description |
|-----|-------------------------------|--|
| 1 | Refrigerant suction pipes (ø) | 3/8" X 2 + 1/2" X 2 |
| 2 | Refrigerant liquid pipes (ø) | 1/4" X 4 |
| 3 | Service valve (suction) | |
| 4 | Service valve (liquid) | |
| 5 | Drain holes | Connection with provided drain fitting |

Compatibility

| Series | Type | Model | Capacity (K Btu/h) | | | | | |
|--------|---|----------------|--------------------|---|----|----|----|----|
| | | | 7 | 9 | 12 | 15 | 18 | 24 |
| RAC | WindFree™ Premium High-wall | AR**DXDABWKNCV | - | ● | ● | - | ● | ● |
| | | AR**DXDAFWKNCV | ● | - | - | ● | - | - |
| | WindFree™ Standard High-wall | AR**DXFAMWKNCV | ● | ● | ● | ● | ● | ● |
| | WindFree™ IAQ High-wall | AR**DXKAPWKNCV | ● | ● | ● | ● | ● | ● |
| FJM | WindFree™ Standard High-wall W/Refrigerant Leak Detection | AJ0**DNADCG/AA | ● | ● | ● | ● | ● | ● |
| | Duct S** | AJ0**DNHDCG/AA | - | ● | ● | ● | ● | - |
| | Multi-Position AHU** | AJ0**DNZDCG/AA | - | - | ● | - | ● | ● |
| CAC | Slim Duct | AC0**DNLDCG/AA | - | ● | ● | - | ● | - |
| | WindFree™ Mini 4-Way Cassette | AC0**DNNDCG/AA | - | ● | ● | - | ● | - |
| | WindFree™ 1-Way Cassette | AC0**DN1DCG/AA | - | ● | ● | - | - | - |
| | Console | AC0**DNJDCG/AA | - | ● | ● | ● | ● | - |

** Restrictions apply. Refer to supporting technical data book (TDB) for indoor unit compatibility available at www.SamsungHVAC.com. Samsung HVAC maintains a policy of ongoing development. Specifications are subject to change without notice.

Indoor Unit Connection Options

| AJ036DXS4CG/AA (Capacity Index: 36) | | | | | | | | | | | | | |
|-------------------------------------|-----------------------------------|----|----|---|------------------------------|------------------------------|-----------|-----------------------------------|----|----|----|------------------------------|------------------------------|
| Unit Qty. | Indoor Nominal Capacity (K Btu/h) | | | | Duct S / MPAH Compatibility* | Connected Capacity (K Btu/h) | Unit Qty. | Indoor Nominal Capacity (K Btu/h) | | | | Duct S / MPAH Compatibility* | Connected Capacity (K Btu/h) |
| | A | B | C | D | | | | A | B | C | D | | |
| 2 | 7 | 7 | | | | 14 | 3 | 7 | 9 | 24 | | | 40 |
| | 7 | 9 | | | O | 16 | | 7 | 12 | 12 | | O | 31 |
| | 7 | 12 | | | O | 19 | | 7 | 12 | 15 | | O | 34 |
| | 7 | 15 | | | O | 22 | | 7 | 12 | 18 | | | 37 |
| | 7 | 18 | | | O | 25 | | 9 | 15 | 18 | | | 42 |
| | 7 | 24 | | | O | 31 | | 9 | 15 | 24 | | | 48 |
| | 9 | 9 | | | O | 18 | | 9 | 18 | 18 | | | 45 |
| | 9 | 12 | | | O | 21 | | 12 | 12 | 12 | | O | 36 |
| | 9 | 15 | | | O | 24 | | 12 | 12 | 15 | | | 39 |
| | 9 | 18 | | | O | 27 | | 12 | 12 | 18 | | | 42 |
| | 9 | 24 | | | O | 33 | | 12 | 12 | 24 | | | 48 |
| | 12 | 12 | | | O | 24 | | 12 | 15 | 15 | | | 42 |
| | 12 | 15 | | | O | 27 | | 12 | 15 | 18 | | | 45 |
| | 12 | 18 | | | O | 30 | | 12 | 18 | 18 | | | 48 |
| | 12 | 24 | | | O | 36 | | 15 | 15 | 15 | | | 45 |
| | 15 | 15 | | | O | 30 | | 15 | 15 | 18 | | | 48 |
| | 15 | 18 | | | O | 33 | | 7 | 12 | 24 | | | 43 |
| | 15 | 24 | | | | 39 | | 7 | 15 | 15 | | | 37 |
| | 18 | 18 | | | O | 36 | | 7 | 15 | 18 | | | 40 |
| | 18 | 24 | | | | 42 | | 7 | 15 | 24 | | | 46 |
| 24 | 24 | | | | 48 | 7 | 18 | 18 | | | 43 | | |
| 3 | 7 | 7 | 7 | | | 21 | 9 | 9 | 9 | | O | 27 | |
| | 7 | 7 | 9 | | O | 23 | 9 | 9 | 12 | | O | 30 | |
| | 7 | 7 | 12 | | O | 26 | 9 | 9 | 15 | | O | 33 | |
| | 7 | 7 | 15 | | O | 29 | 9 | 9 | 18 | | O | 36 | |
| | 7 | 7 | 18 | | O | 32 | 9 | 9 | 24 | | | 42 | |
| | 7 | 7 | 24 | | | 38 | 9 | 12 | 12 | | O | 33 | |
| | 7 | 9 | 9 | | O | 25 | 9 | 12 | 15 | | O | 36 | |
| | 7 | 9 | 12 | | O | 28 | 9 | 12 | 18 | | | 39 | |
| | 7 | 9 | 15 | | O | 31 | 9 | 12 | 24 | | | 45 | |
| | 7 | 9 | 18 | | O | 34 | 9 | 15 | 15 | | | 39 | |

Combination tables are continued on the following page.

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*Duct S and MPAH Connection Notes

- Combatable combination that includes up to two (2) X MPAH (AJ0**DNZDCG/AA) or Duct S (AJ0**DNHDCG/AA) units.
- If the combination includes two (2) X MPAH (AJ0**DNZDCG/AA) or Duct S (AJ0**DNHDCG/AA) units, no other indoor units can be connected.
- If one (1) X MPAH (AJ0**DNZDCG/AA) or Duct S (AJ0**DNHDCG/AA) unit is connected, other indoor unit types (Slim Duct, cassette, high-wall, console) can be connected and the total sum of the indoor unit nominal capacity cannot exceed the system index noted above and the maximum indoor unit quantity will be reduced by one (1) unit.

Indoor Unit Connection Options (continued)

| AJ036DXS4CG/AA - Continued (Capacity Index: 36) | | | | | | |
|---|-----------------------------------|----|----|----|------------------------------|------------------------------|
| Unit Qty. | Indoor Nominal Capacity (K Btu/h) | | | | Duct S / MPAH Compatibility* | Connected Capacity (K Btu/h) |
| | A | B | C | D | | |
| 4 | 7 | 7 | 7 | 7 | | 28 |
| | 7 | 7 | 7 | 9 | | 30 |
| | 7 | 7 | 7 | 12 | | 33 |
| | 7 | 7 | 7 | 15 | | 36 |
| | 7 | 7 | 7 | 18 | | 39 |
| | 7 | 7 | 7 | 24 | | 45 |
| | 7 | 7 | 9 | 9 | | 32 |
| | 7 | 7 | 9 | 12 | | 35 |
| | 7 | 7 | 9 | 15 | | 38 |
| | 7 | 7 | 9 | 18 | | 41 |
| | 7 | 7 | 9 | 24 | | 47 |
| | 7 | 7 | 12 | 12 | | 38 |
| | 7 | 7 | 12 | 15 | | 41 |
| | 7 | 7 | 12 | 18 | | 44 |
| | 7 | 7 | 15 | 15 | | 44 |
| | 7 | 7 | 15 | 18 | | 47 |
| | 7 | 9 | 9 | 9 | | 34 |
| | 7 | 9 | 9 | 12 | | 37 |
| | 7 | 9 | 9 | 15 | | 40 |
| | 7 | 9 | 9 | 18 | | 43 |
| | 7 | 9 | 12 | 12 | | 40 |
| | 7 | 9 | 12 | 15 | | 43 |
| | 7 | 9 | 12 | 18 | | 46 |
| | 7 | 9 | 15 | 15 | | 46 |
| | 7 | 12 | 12 | 12 | | 43 |
| | 7 | 12 | 12 | 15 | | 46 |
| | 9 | 9 | 9 | 9 | | 36 |
| | 9 | 9 | 9 | 12 | | 39 |
| | 9 | 9 | 9 | 15 | | 42 |
| | 9 | 9 | 9 | 18 | | 45 |
| | 9 | 9 | 12 | 12 | | 42 |
| | 9 | 9 | 12 | 15 | | 45 |
| | 9 | 9 | 12 | 18 | | 48 |
| | 9 | 9 | 15 | 15 | | 48 |
| | 9 | 12 | 12 | 12 | | 45 |
| | 9 | 12 | 12 | 15 | | 48 |
| 12 | 12 | 12 | 12 | | 48 | |

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