SAMSUNG

# SUBMITTAL AJ048TXJ5CH/AA (JXH48J5T)

## Samsung FJM Series, 5 Port Condensing Unit

Job Name _____ Location _____

Purchaser _____ Engineer _____

Submitted to _____ Reference ☐ Approval ☐ Construction ☐

Unit Designation _____ Schedule # _____

| | | | |
|---|---|---|---|
| Model | US Code | | JXH48J5T |
| | Model Number | | AJ048TXJ5CH/AA |
| Performance* | Capacity (standard / max.) | Cooling (Btu/h) | 47,000 / 48,200 |
| | | Heating (Btu/h) | 48,500 / 53,600 |
| | Minimum Cooling Capacity (Btu/h) | | 8,500 |
| | Minimum Heating Capacity (Btu/h) | | 7,000 |
| | SEER (Ducted / Mixed / Non-ducted) | | 16.0 / 17.85 / 19.7 |
| | EER (Ducted / Mixed / Non-ducted) | | 8.6 / 9.55 / 10.5 |
| | HSPF (Ducted / Mixed / Non-ducted) | | 9.2 / 9.75 / 10.3 |
| Power | Voltage | (ø/V/Hz) | 1 / 208-230 / 60 |
| | Rated Current (amps) [1] | Cooling (low / std. / max.) | 2.9 / 21.4 / 22.7 |
| | | Heating (low / std. / max.) | 2.2 / 18.1 / 23.3 |
| | Max. Breaker | Amps | 40 |
| | Minimum Circuit Ampacity (A) | | 37.0 |
| Dimensions | W X H X D | Inches | 37 X 47 5/8 X 13 |
| | Weight | lbs. | 192.9 |
| Noise Level | Cooling (Max.) | dB (A) | 52 |
| | Heating (Max.) | dB (A) | 55 |
| Operating Temperatures | Cooling | | 14 ~ 114.8°F (-5 ~ 46.0°C) |
| | Heating | | 5 ~75°F (-15 ~ 24.0°C) |
| Pipe Connections | High Side | | 1/4" X 5 |
| | Low Side (suction) | | 3/8" X 2 + 1/2" X 3 |
| | Maximum Individual Line Set Length | | 82 ft |
| | Maximum Line Set Length (total) | | 230 ft |
| | Maximum Vertical Separation | Outdoor to Indoor | 49 ft |
| | | Highest to Lowest Indoor | 25 ft |
| | Included Pipe Adapter | | 3 - 1/2" X 3/8", 2 - 1/2" X 5/8" |
| Condenser Fan | Motor | | BLDC With Propeller Fan (1) |
| | Output | Watts / FLA | 125 x 2 / 1.28 |
| | | CFM | 3,885 |
| Compressor | Type | | Twin BLDC Rotary Inverter |
| | RLA | Amps | 25.6 |
| Heat Exchanger | Type | | Aluminum Fin - Copper Tube |
| | Rows | | 2 |
| Refrigerant | Type | | R410A |
| | Control Method | | Electronic Expansion Valve |
| | Factory Charge | | 134.0 oz |
| | Charged for | | 164 ft |
| | Additional Refrigerant | | 0.22 oz/ft over 164 ft |
| Accessories | Wall Bracket | | ☐ CKN-250 |
| Certifications | Safety | | ETL (UL 1995) |
| | AHRI Certification Number | Non-Ducted | 205275703 |
| | | Ducted | 205291860 |
| | | Mixed | 205421132 |
| 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 abaked 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 5 separate electronic expansion valves at outdoor unit

**Compatibility**
Will only operate with Samsung evaporator model numbers:
AR**TSFABWKNCV (RNS**ABT): 7,000 - 24,000 Btu/h models
AR**TSFYBWKNCV (RNS**YBT): 7,000 - 24,000 Btu/h models
AJ***TNNDCH/AA (JNH**NDT): 9,000 - 18,000 Btu/h models
AJ***TNLDCH/AA (JNH**LDT): 9,000 - 18,000 Btu/h models
AJ***TNJDCH/AA (JNH**JDT): 9,000 - 18,000 Btu/h models

© 2020 Samsung HVAC


888-699-6067
www.SamsungHVAC.com

AHRI CERTIFIED www.ahridirectory.org Unitary Small AC AHRI Standard 210/240

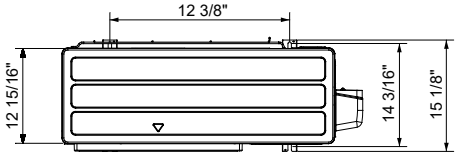
C ETL LISTED US Intertek

SAMSUNG

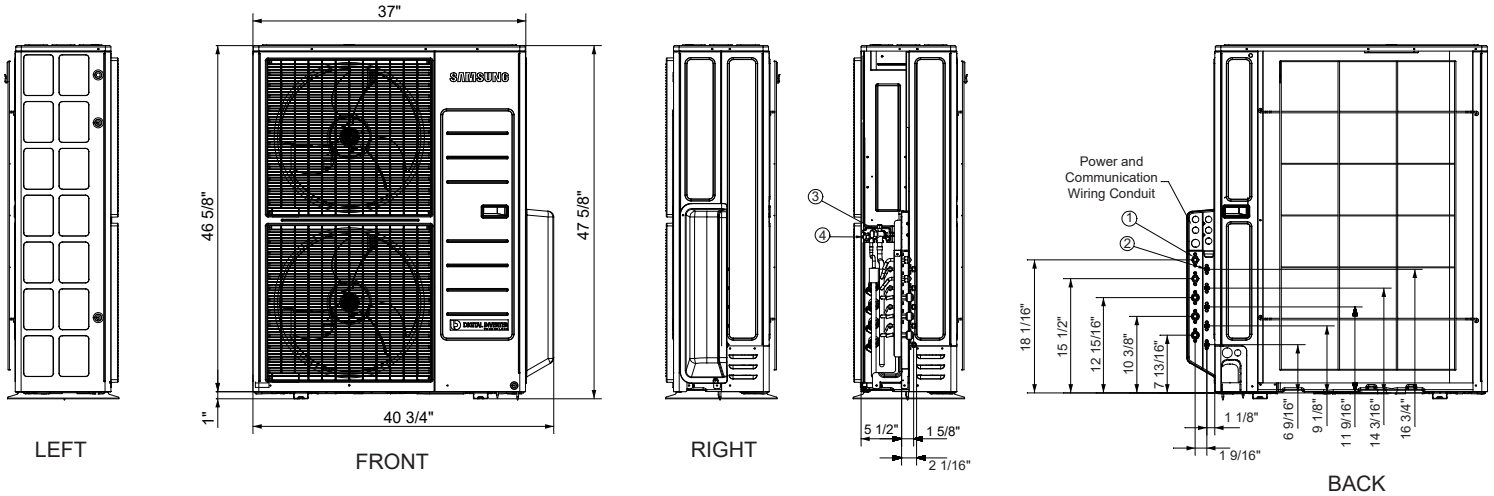
# SUBMITTAL AJ048TXJ5CH/AA (JXH48J5T)

## Samsung FJM, 5 Port Condensing Unit

Dimensional drawing




TOP

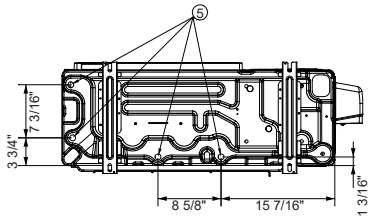



LEFT

FRONT

RIGHT

BACK




BOTTOM

| No. | Name | Description |
|---|---|---|
| 1 | Refrigerant suction pipes | ø3/8" x 2, ø1/2" x 3 |
| 2 | Refrigerant liquid pipes | ø1/4" x 5 |
| 3 | Service Valve (suction) | 5/8" |
| 4 | Service Valve (liquid) | 3/8" |
| 5 | Drain holes | Connection with provided drain fitting |

## Indoor Unit Connection Options

| | Indoor Unit Capacity (Btu/h) | | | | |
|---|---|---|---|---|---|
| | A | B | C | D | E |
| 2 Indoor Units | 7,000 | 7,000 | | | |
| | 7,000 | 9,000 | | | |
| | 7,000 | 12,000 | | | |
| | 7,000 | 15,000 | | | |
| | 7,000 | 18,000 | | | |
| | 7,000 | 24,000 | | | |
| | 9,000 | 9,000 | | | |
| | 9,000 | 12,000 | | | |
| | 9,000 | 15,000 | | | |
| | 9,000 | 18,000 | | | |
| | 9,000 | 24,000 | | | |
| | 12,000 | 12,000 | | | |
| | 12,000 | 15,000 | | | |
| | 12,000 | 18,000 | | | |
| | 12,000 | 24,000 | | | |
| | 15,000 | 15,000 | | | |
| | 15,000 | 18,000 | | | |
| | 15,000 | 24,000 | | | |
| | 18,000 | 18,000 | | | |
| | 18,000 | 24,000 | | | |
| | 24,000 | 24,000 | | | |

| | Indoor Unit Capacity (Btu/h) | | | | |
|---|---|---|---|---|---|
| | A | B | C | D | E |
| 3 Indoor Units | 7,000 | 7,000 | 7,000 | | |
| | 7,000 | 7,000 | 9,000 | | |
| | 7,000 | 7,000 | 12,000 | | |
| | 7,000 | 7,000 | 15,000 | | |
| | 7,000 | 7,000 | 18,000 | | |
| | 7,000 | 7,000 | 24,000 | | |
| | 7,000 | 9,000 | 9,000 | | |
| | 7,000 | 9,000 | 12,000 | | |
| | 7,000 | 9,000 | 15,000 | | |
| | 7,000 | 9,000 | 18,000 | | |
| | 7,000 | 9,000 | 24,000 | | |
| | 7,000 | 12,000 | 12,000 | | |
| | 7,000 | 12,000 | 15,000 | | |
| | 7,000 | 12,000 | 18,000 | | |
| | 7,000 | 12,000 | 24,000 | | |
| | 7,000 | 15,000 | 15,000 | | |
| | 7,000 | 15,000 | 18,000 | | |
| | 7,000 | 15,000 | 24,000 | | |
| | 7,000 | 18,000 | 18,000 | | |
| | 7,000 | 18,000 | 24,000 | | |
| | 7,000 | 24,000 | 24,000 | | |
| | 9,000 | 9,000 | 9,000 | | |
| | 9,000 | 9,000 | 12,000 | | |
| | 9,000 | 9,000 | 15,000 | | |
| | 9,000 | 9,000 | 18,000 | | |
| | 9,000 | 9,000 | 24,000 | | |
| | 9,000 | 12,000 | 12,000 | | |
| | 9,000 | 12,000 | 15,000 | | |
| | 9,000 | 12,000 | 18,000 | | |
| | 9,000 | 12,000 | 24,000 | | |
| | 9,000 | 15,000 | 15,000 | | |
| | 9,000 | 15,000 | 18,000 | | |
| | 9,000 | 15,000 | 24,000 | | |
| | 9,000 | 18,000 | 18,000 | | |
| | 9,000 | 18,000 | 24,000 | | |
| | 9,000 | 24,000 | 24,000 | | |
| | 12,000 | 12,000 | 12,000 | | |
| | 12,000 | 12,000 | 15,000 | | |
| | 12,000 | 12,000 | 18,000 | | |
| | 12,000 | 12,000 | 24,000 | | |
| | 12,000 | 15,000 | 15,000 | | |
| | 12,000 | 15,000 | 18,000 | | |
| | 12,000 | 15,000 | 24,000 | | |
| | 12,000 | 18,000 | 18,000 | | |
| | 12,000 | 18,000 | 24,000 | | |
| | 15,000 | 15,000 | 15,000 | | |
| | 15,000 | 15,000 | 18,000 | | |
| | 15,000 | 15,000 | 24,000 | | |
| | 15,000 | 18,000 | 18,000 | | |
| | 15,000 | 18,000 | 24,000 | | |
| | 18,000 | 18,000 | 18,000 | | |

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 - 24,000 Btu/h models
AR**TSFYBWKNCV (RNS**YBT): 7,000 - 24,000 Btu/h models
AJ***TNNDCH/AA (JNH**NDT): 9,000 - 18,000 Btu/h models
AJ***TNLDCH/AA (JNH**LDT): 9,000 - 18,000 Btu/h models
AJ***TNJDCH/AA (JNH**JDT): 9,000 - 18,000 Btu/h models

## Indoor Unit Connection Options

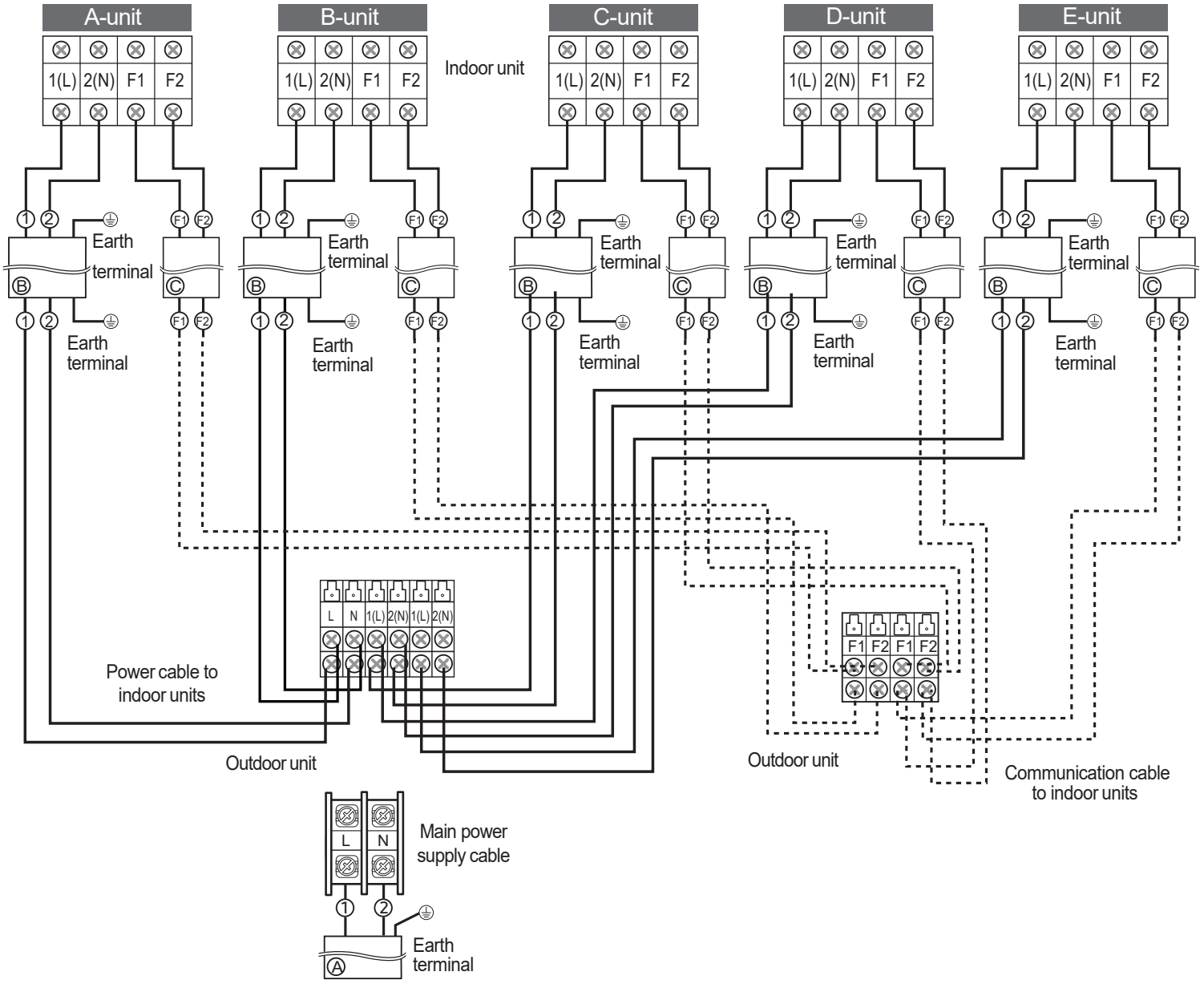
| | Indoor Unit Capacity (Btu/h) | | | | |
|---|---|---|---|---|---|
| | A | B | C | D | E |
| 4 Indoor Units | 7,000 | 7,000 | 7,000 | 7,000 | |
| | 7,000 | 7,000 | 7,000 | 9,000 | |
| | 7,000 | 7,000 | 7,000 | 12,000 | |
| | 7,000 | 7,000 | 7,000 | 15,000 | |
| | 7,000 | 7,000 | 7,000 | 18,000 | |
| | 7,000 | 7,000 | 7,000 | 24,000 | |
| | 7,000 | 7,000 | 9,000 | 9,000 | |
| | 7,000 | 7,000 | 9,000 | 12,000 | |
| | 7,000 | 7,000 | 9,000 | 15,000 | |
| | 7,000 | 7,000 | 9,000 | 18,000 | |
| | 7,000 | 7,000 | 9,000 | 24,000 | |
| | 7,000 | 7,000 | 12,000 | 12,000 | |
| | 7,000 | 7,000 | 12,000 | 15,000 | |
| | 7,000 | 7,000 | 12,000 | 18,000 | |
| | 7,000 | 7,000 | 12,000 | 24,000 | |
| | 7,000 | 7,000 | 15,000 | 15,000 | |
| | 7,000 | 7,000 | 15,000 | 18,000 | |
| | 7,000 | 7,000 | 15,000 | 24,000 | |
| | 7,000 | 7,000 | 18,000 | 18,000 | |
| | 7,000 | 7,000 | 18,000 | 24,000 | |
| | 7,000 | 9,000 | 9,000 | 9,000 | |
| | 7,000 | 9,000 | 9,000 | 12,000 | |
| | 7,000 | 9,000 | 9,000 | 15,000 | |
| | 7,000 | 9,000 | 9,000 | 18,000 | |
| | 7,000 | 9,000 | 9,000 | 24,000 | |
| | 7,000 | 9,000 | 12,000 | 12,000 | |
| | 7,000 | 9,000 | 12,000 | 15,000 | |
| | 7,000 | 9,000 | 12,000 | 18,000 | |
| | 7,000 | 9,000 | 12,000 | 24,000 | |
| | 7,000 | 9,000 | 15,000 | 15,000 | |
| | 7,000 | 9,000 | 15,000 | 18,000 | |
| | 7,000 | 9,000 | 15,000 | 24,000 | |
| | 7,000 | 9,000 | 18,000 | 18,000 | |
| | 7,000 | 12,000 | 12,000 | 12,000 | |
| | 7,000 | 12,000 | 12,000 | 15,000 | |
| | 7,000 | 12,000 | 12,000 | 18,000 | |
| | 7,000 | 12,000 | 12,000 | 24,000 | |
| | 7,000 | 12,000 | 15,000 | 15,000 | |
| | 7,000 | 12,000 | 15,000 | 18,000 | |
| | 7,000 | 12,000 | 18,000 | 18,000 | |
| | 7,000 | 15,000 | 15,000 | 15,000 | |
| | 7,000 | 15,000 | 15,000 | 18,000 | |
| | 9,000 | 9,000 | 9,000 | 9,000 | |
| | 9,000 | 9,000 | 9,000 | 12,000 | |
| | 9,000 | 9,000 | 9,000 | 15,000 | |
| | 9,000 | 9,000 | 9,000 | 18,000 | |
| | 9,000 | 9,000 | 9,000 | 24,000 | |
| | 9,000 | 9,000 | 12,000 | 12,000 | |
| | 9,000 | 9,000 | 12,000 | 15,000 | |
| | 9,000 | 9,000 | 12,000 | 18,000 | |
| | 9,000 | 9,000 | 12,000 | 24,000 | |
| | 9,000 | 9,000 | 15,000 | 15,000 | |
| | 9,000 | 9,000 | 15,000 | 18,000 | |
| | 9,000 | 9,000 | 15,000 | 24,000 | |
| | 9,000 | 9,000 | 18,000 | 18,000 | |
| | 9,000 | 12,000 | 12,000 | 12,000 | |
| | 9,000 | 12,000 | 12,000 | 15,000 | |
| | 9,000 | 12,000 | 12,000 | 18,000 | |
| | 9,000 | 12,000 | 12,000 | 24,000 | |
| | 9,000 | 12,000 | 15,000 | 15,000 | |
| | 9,000 | 12,000 | 15,000 | 18,000 | |
| | 9,000 | 12,000 | 18,000 | 18,000 | |
| | 9,000 | 15,000 | 15,000 | 15,000 | |
| | 9,000 | 15,000 | 15,000 | 18,000 | |
| | 12,000 | 12,000 | 12,000 | 12,000 | |
| | 12,000 | 12,000 | 12,000 | 15,000 | |
| | 12,000 | 12,000 | 12,000 | 18,000 | |
| | 12,000 | 12,000 | 15,000 | 15,000 | |
| | 12,000 | 12,000 | 15,000 | 18,000 | |
| | 12,000 | 15,000 | 15,000 | 15,000 | |

| | Indoor Unit Capacity (Btu/h) | | | | |
|---|---|---|---|---|---|
| | A | B | C | D | E |
| 5 Indoor Units | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 |
| | 7,000 | 7,000 | 7,000 | 7,000 | 9,000 |
| | 7,000 | 7,000 | 7,000 | 7,000 | 12,000 |
| | 7,000 | 7,000 | 7,000 | 7,000 | 15,000 |
| | 7,000 | 7,000 | 7,000 | 7,000 | 18,000 |
| | 7,000 | 7,000 | 7,000 | 7,000 | 24,000 |
| | 7,000 | 7,000 | 7,000 | 9,000 | 9,000 |
| | 7,000 | 7,000 | 7,000 | 9,000 | 12,000 |
| | 7,000 | 7,000 | 7,000 | 9,000 | 15,000 |
| | 7,000 | 7,000 | 7,000 | 9,000 | 18,000 |
| | 7,000 | 7,000 | 7,000 | 9,000 | 24,000 |
| | 7,000 | 7,000 | 7,000 | 12,000 | 12,000 |
| | 7,000 | 7,000 | 7,000 | 12,000 | 15,000 |
| | 7,000 | 7,000 | 7,000 | 12,000 | 18,000 |
| | 7,000 | 7,000 | 7,000 | 12,000 | 24,000 |
| | 7,000 | 7,000 | 7,000 | 15,000 | 15,000 |
| | 7,000 | 7,000 | 7,000 | 15,000 | 18,000 |
| | 7,000 | 7,000 | 7,000 | 18,000 | 18,000 |
| | 7,000 | 7,000 | 9,000 | 9,000 | 9,000 |
| | 7,000 | 7,000 | 9,000 | 9,000 | 12,000 |
| | 7,000 | 7,000 | 9,000 | 9,000 | 15,000 |
| | 7,000 | 7,000 | 9,000 | 9,000 | 18,000 |
| | 7,000 | 7,000 | 9,000 | 9,000 | 24,000 |
| | 7,000 | 7,000 | 9,000 | 12,000 | 12,000 |
| | 7,000 | 7,000 | 9,000 | 12,000 | 15,000 |
| | 7,000 | 7,000 | 9,000 | 12,000 | 18,000 |
| | 7,000 | 7,000 | 9,000 | 15,000 | 15,000 |
| | 7,000 | 7,000 | 9,000 | 15,000 | 18,000 |
| | 7,000 | 7,000 | 12,000 | 12,000 | 12,000 |
| | 7,000 | 7,000 | 12,000 | 12,000 | 15,000 |
| | 7,000 | 7,000 | 12,000 | 12,000 | 18,000 |
| | 7,000 | 7,000 | 12,000 | 15,000 | 15,000 |
| | 7,000 | 9,000 | 9,000 | 9,000 | 9,000 |
| | 7,000 | 9,000 | 9,000 | 9,000 | 12,000 |
| | 7,000 | 9,000 | 9,000 | 9,000 | 15,000 |
| | 7,000 | 9,000 | 9,000 | 9,000 | 18,000 |
| | 7,000 | 9,000 | 9,000 | 12,000 | 12,000 |
| | 7,000 | 9,000 | 9,000 | 12,000 | 15,000 |
| | 7,000 | 9,000 | 9,000 | 12,000 | 18,000 |
| | 7,000 | 9,000 | 12,000 | 15,000 | 15,000 |
| | 7,000 | 9,000 | 12,000 | 15,000 | 18,000 |
| | 7,000 | 12,000 | 12,000 | 12,000 | 12,000 |
| | 7,000 | 12,000 | 12,000 | 12,000 | 15,000 |
| | 7,000 | 12,000 | 12,000 | 12,000 | 18,000 |
| | 7,000 | 12,000 | 12,000 | 15,000 | 15,000 |
| | 9,000 | 9,000 | 9,000 | 9,000 | 9,000 |
| | 9,000 | 9,000 | 9,000 | 9,000 | 12,000 |
| | 9,000 | 9,000 | 9,000 | 9,000 | 15,000 |
| | 9,000 | 9,000 | 9,000 | 9,000 | 18,000 |
| | 9,000 | 9,000 | 9,000 | 12,000 | 12,000 |
| | 9,000 | 9,000 | 9,000 | 12,000 | 15,000 |
| | 9,000 | 9,000 | 9,000 | 12,000 | 18,000 |
| | 9,000 | 9,000 | 9,000 | 15,000 | 15,000 |
| | 9,000 | 9,000 | 12,000 | 12,000 | 12,000 |
| | 9,000 | 9,000 | 12,000 | 12,000 | 15,000 |
| | 9,000 | 12,000 | 12,000 | 12,000 | 12,000 |

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 - 24,000 Btu/h models
AR**TSFYBWKNCV (RNS**YBT): 7,000 - 24,000 Btu/h models
AJ***TNNDCH/AA (JNH**NDT): 9,000 - 18,000 Btu/h models
AJ***TNLDCH/AA (JNH**LDT): 9,000 - 18,000 Btu/h models
AJ***TNJDCH/AA (JNH**JDT): 9,000 - 18,000 Btu/h models

## Basic Wire Connection Diagram




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