

TECHNICAL SPECIFICATIONS

JS5BD-KA/B Series

High Efficiency R22 Air Conditioner 13+ SEER Residential System 1.5 - 5 Ton Capacity

The JS5BD Series of air conditioners offers exceptional performance. The unit, when combined with our engineered coils or air handlers, offers a line of quality, split system cooling equipment. The JS5BD is rated at 13 SEER when matched with our air handler and coils. Units are ideally sized for slab or rooftop mounting.



FEATURES and BENEFITS

- **Durable, Attractive Cabinet:** Designed using galvanized steel with a polyester urethane finish. The finish passes 950 hours of salt spray per ASTM Std. B117.
- **Composite Base Pan:** Absorbs sound and is corrosion resistant. Composite is also stronger and lighter than steel.
- **Permanently Lubricated Motor:** A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Full Service Valves:** These brass valves are easily accessible and simplify servicing of the refrigeration system.
- **Complete Metal Wrapper:** Protects the units coil from being damaged.
- **Removable Top Grille Assembly:** Allows ease of service from the top without disconnecting fan motor leads.
- **One Piece Top/Orifice:** Designed for maximum airflow and quiet operation.
- **Easy Compressor and Control Access:** Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.
- **Air Conditioner:** Shipped with dry nitrogen charge.

MODEL IDENTIFICATION CODES

EX: JS5BD-036K(A,B)

JS - Air Conditioner
JT - Heat Pump

Generation 1, 2, 3, etc.

JS

5

B

D

-

036

K

A

Product
Identifier

Nominal
Capacity
(000) BTU

Revision

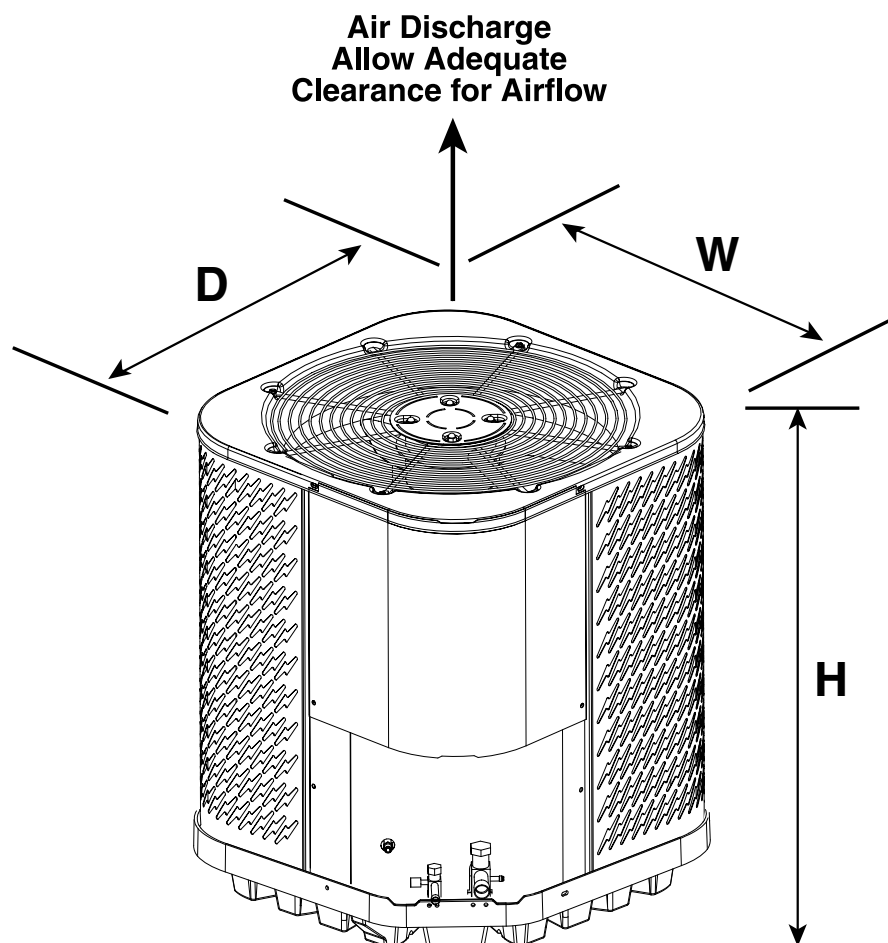
Electrical Code
K = 208/230-60-1

BD = Braze 13 SEER

DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION

| JS5BD- | 018KA | 024KB | 030KB | 036KB | 042KA | 048KA | 060KA |
|--------|--------|--------|--------|--------|--------|--------|--------|
| H | 23 | 23 | 27 | 27 | 31 | 31 | 43 |
| W | 22-3/4 | 22-3/4 | 22-3/4 | 22-3/4 | 30-3/4 | 30-3/4 | 30-3/4 |
| D | 22-3/4 | 22-3/4 | 22-3/4 | 22-3/4 | 30-3/4 | 30-3/4 | 30-3/4 |



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

13+ SEER — High Efficiency — Single Phase

| Model Number JS5BD- | | | 018KA | 024KB | 030KB | 036KB | 42KA | 048KA | 060KA |
|---|------------------------|----------------|--------------|---------------|---------------|---------------|--------------|--------------|--------------|
| Electrical Data | Volts-Cycles-Phase (1) | | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 |
| | Total Amps | | 8.7 | 11.5 | 14.1 | 16.8 | 16.2 | 21.3 | 26.7 |
| | Delay Fuse Max. (2) | | 15 | 20 | 30 | 35 | 30 | 45 | 50 |
| | Min. Circuit Ampacity | | 10.8 | 14.1 | 17.5 | 20.6 | 19.9 | 26.3 | 33.1 |
| Component Data | Coil | Area | 8.2 | 9.9 | 9.9 | 9.9 | 17.7 | 17.7 | 25.4 |
| | | Rows-FPI | 1 - 22 | 1 - 18 | 1 - 18 | 1 - 18 | 1 - 22 | 1 - 22 | 1 - 22 |
| | | Tube Dia | 3/8" O.D. | Micro Channel | Micro Channel | Micro Channel | 3/8" O.D. | 3/8" O.D. | 3/8" O.D. |
| | Fan Motor | Type | PSC | PSC | PSC | PSC | PSC | PSC | PSC |
| | | Amps | 0.3 | 0.7 | 0.7 | 1.20 | 1.40 | 1.40 | 1.40 |
| | | HP | 1/20 | 1/10 | 1/10 | 1/4 | 1/4 | 1/4 | 1/4 |
| | Fan Blade | Dia - # Blades | 18" - 3 | 18" - 3 | 18" - 3 | 18" - 3 | 24" - 3 | 24" - 3 | 24" - 3 |
| | | SCFM | 1410 | 1985 | 3000 | 3000 | 4000 | 4000 | 4000 |
| | Compressor Data | RLA | 8.3 | 10.8 | 13.4 | 15.4 | 14.7 | 19.8 | 25.3 |
| | | LRA | 40.3 | 56.0 | 68.0 | 87.0 | 77.0 | 104.0 | 146.0 |
| Refrigerant suction line-Length/O.D. (Liq. Line All Lengths - 3/8" O.D.) | | 0-24 ft. | 3/4" | 3/4" | 3/4" | 3/4" | 7/8" | 7/8" | 7/8" |
| | | 25-39 ft. | 3/4" | 3/4" | 7/8" (3) | 7/8" (3) | 7/8" | 7/8" | 1-1/8" (4) |
| | | 40-75 ft. | 3/4" | 3/4" | 7/8" (3) | 7/8" (3) | 1-1/8" (4) | 1-1/8" (4) | 1-1/8" (4) |
| Weight Approximate (lbs.) | | Net | 103 | 112 | 105 | 105 | 176 | 176 | 229 |
| | | Ship | 107 | 117 | 109 | 109 | 183 | 183 | 238 |
| Sound Rating | | | 76 | 75 | 75 | 76 | 79 | 80 | 80 |

- (1) Operating Voltage Range: 187v min. — 253v max.
 (2) HACR Type Circuit Breakers may be used.
 (3) Requires 7/8" to 3/4" reducer from line to unit.
 (4) Requires 7/8" to 1-1/8" reducer from line to unit.
 (5) Additional charge for line sets above 15 feet. Values based on suction line as follows with 3/8" liquid line.
 a) 3/4" = 0.6 oz per additional foot.
 b) 7/8" = 0.7 oz per additional foot.
 c) 1 1/8" = 0.8 oz per additional foot.

ACCESSORIES - Condensing Unit

Start Assist Kit - 912933

Provides additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

Time Delay Relay Kit (TDR)

918476 - 80-second fan delay

SYSTEM COOLING CAPACITIES

13+ SEER —High Efficiency — Single Phase

| Model Number | C6 TXV Coil | C6 Flex Coil | Cooling Capacity | SEER | EER | SCFM |
|--------------|-------------------------|---------------------------------|------------------|------|------|------|
| JS5BD-018KA | C6B(A,H)-T24(C,U)-B+TDR | C6BA-F24U-B + TXV Kit (920662A) | 17800 | 13 | 10.5 | 550 |
| JS5BD-024KB | C6B(A,H)-T24(C,U)-B+TDR | C6BA-F24U-B + TXV Kit (920662A) | 23800 | 13 | 10.5 | 700 |
| JS5BD-030KB | C6B(A,H)-T30(C,U)-B+TDR | C6BA-F36U-B + TXV Kit (920663A) | 29000 | 13 | 10.5 | 900 |
| JS5BD-036KB | C6B(A,H)-T36(C,U)-B+TDR | C6BA-F48U-C + TXV Kit (920664A) | 32400 | 13 | 10.5 | 1100 |
| JS5BD-042KA | C6B(A,H)-T42(C,U)-B+TDR | C6BA-F48U-C + TXV Kit (920665A) | 39500 | 13 | 10.5 | 1300 |
| JS5BD-048KA | C6B(A,H)-T48(C,U)-C+TDR | C6BA-F60U-C + TXV Kit (920666A) | 46500 | 13 | 10.5 | 1550 |
| JS5BD-060KA | C6B(A,H)-T60(C,U)-C+TDR | C6BA-F60U-C + TXV Kit (920667A) | 58500 | 13 | 10.5 | 1600 |



GENERAL TERMS OF LIMITED WARRANTY

Nortek Global HVAC, LLC will furnish a replacement for any part of this product which fails in normal use and service within the terms and conditions of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the Nortek Global HVAC, LLC warranty department for a copy.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A (10/2015)