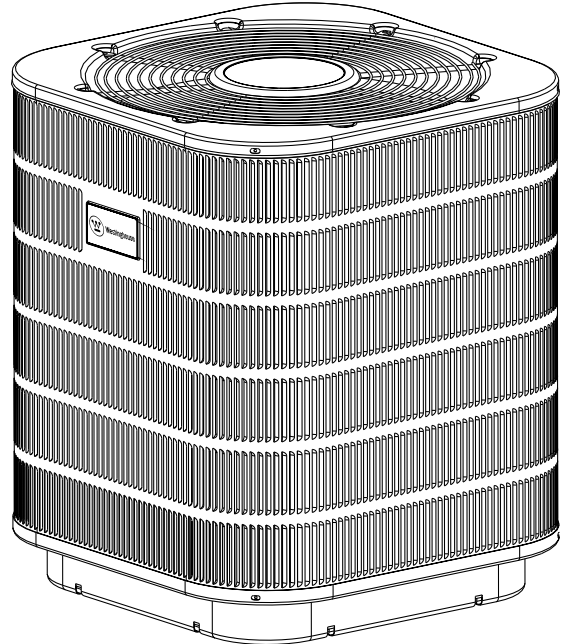


FS3BD Series Ultra High Efficiency Air Conditioner 13+ SEER Residential System 2 - 5 Ton Capacity

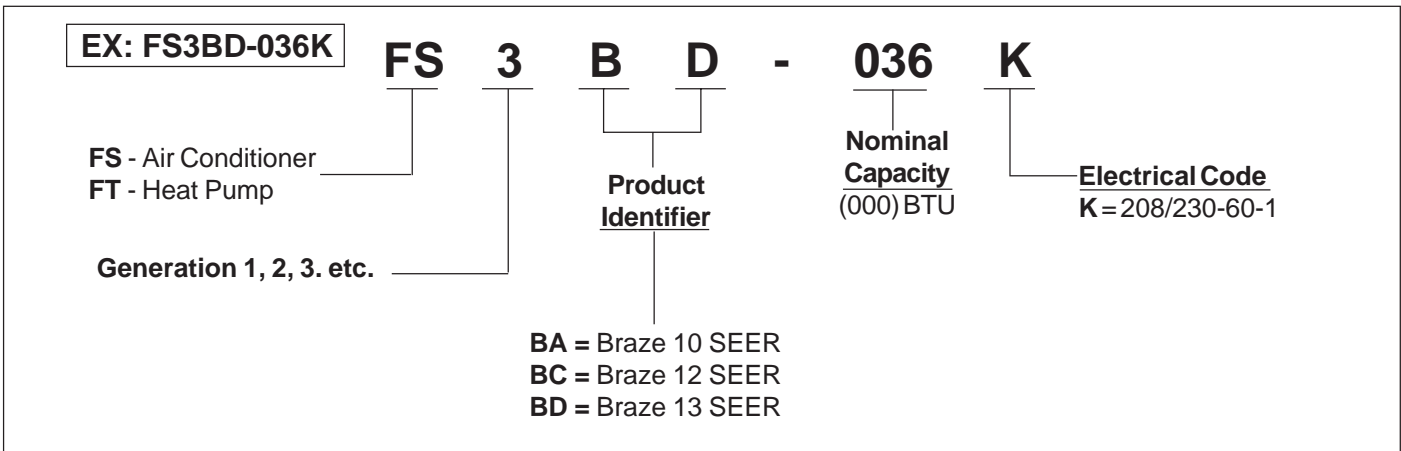
The FS3BD Series of air conditioners offers exceptional performance from a small, compact package. The unit, when combined with our engineered coils or air handlers, offers a line of quality, split system cooling equipment. The FS3BD is rated at 13 SEER when matched with our B3BM air handler and C3BA coils. When matched with our variable speed air handler, or our variable speed blower kits, the FS3BD is rated up to 14 SEER. Units are ideally sized for slab or rooftop mounting in single, multifamily, and light commercial applications.



FEATURES and BENEFITS

- **Quality Compressor** - State of the art scroll compressor is standard equipment.
- **Durable, Attractive Cabinet** – Designed using galvanized steel with a polyester urethane finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion 50% better than comparable units.
- **Copper Tube / Aluminum Fin Coils** – Both indoor and outdoor coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **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.
- **Louvered Condenser Guard** – Durable metal guard protects the coil from yard hazards and extreme weather.
- **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.
- **2-1/2" Pedestal Base** – The sturdy base keeps the bottom of the coil out of harms way. Secondly, the base has weep holes along the edge to allow the water from rain to flow away from the unit.
- **Five Minute Restart Time Delay** – When the unit shuts down, a five minute delay keeps the unit from restarting, eliminating the highest cause for compressor failure.
- **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.
- **8 Year Limited All Parts Warranty, 5 Year Quality Pledge and 10 Year Parts Coverage on Compressor** – The best in the industry and has proven to be a major benefit to the consumer.

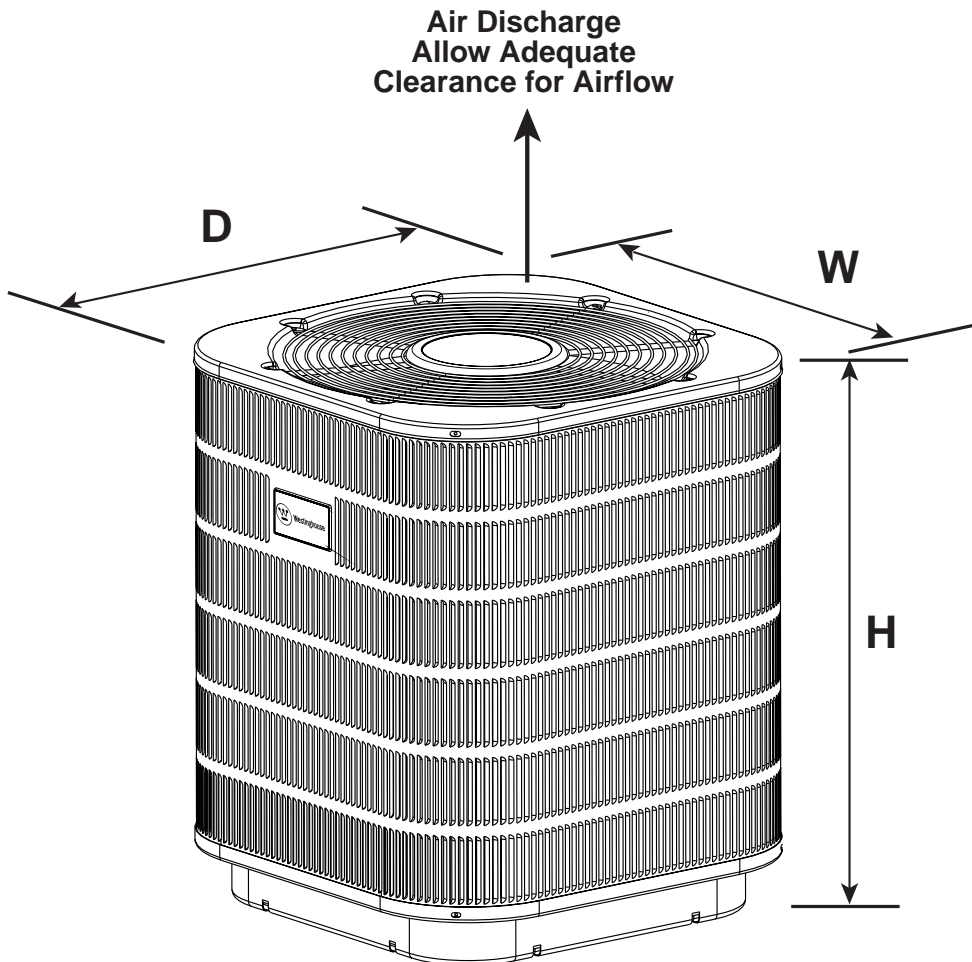
MODEL IDENTIFICATION CODES



DIMENSIONS

AIR CONDITIONER OUTDOOR SECTION

| FS3BD- | 024 | 030 | 036 | 042 | 048 | 60 |
|--------|--------|--------|--------|--------|--------|--------|
| H | 30 1/2 | 34 1/2 | 38 1/2 | 38 1/2 | 42 1/2 | 42 1/2 |
| W | 30 1/2 | 30 1/2 | 30 1/2 | 30 1/2 | 30 1/2 | 30 1/2 |
| D | 30 1/2 | 30 1/2 | 30 1/2 | 30 1/2 | 30 1/2 | 30 1/2 |



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

13+ SEER —Ultra High Efficiency — Single Phase

| Model No. FS3BD- | | 024 | 030 | 036 | 042 | 048 | 060 | |
|--|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| 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 | |
| | Total Amps | 11.6 | 13.6 | 16.2 | 17.5 | 19.8 | 26.4 | |
| | Delay Fuse Max. (2) | 20 | 25 | 30 | 35 | 40 | 50 | |
| | Min. Circuit Ampacity | 14.2 | 16.6 | 19.9 | 21.5 | 24.4 | 32.6 | |
| Component Data | Coil | Area | 17.9 | 20.4 | 23.0 | 23.0 | 25.5 | 25.5 |
| | | Rows-FPI | 1-22 | 1-22 | 1-22 | 1-22 | 1-22 | 2-18 |
| | | Tube Dia. | 3/8 O.D. | 3/8 O.D. | 3/8 O.D. | 3/8 O.D. | 3/8 O.D. | 3/8 O.D. |
| | Fan Motor | Type | PSC | PSC | PSC | PSC | PSC | PSC |
| | | Amps | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.4 |
| | | Watts-HP | 245 | 245 | 300 | 300 | 300 | 245 |
| | Fan Blade | Dia.-#Blades | 24 in. - 2 | 24 in. - 2 | 24 in. - 3 | 24 in. - 3 | 24 in. - 3 | 24 in. - 2 |
| | | SCFM | 3300 | 3300 | 4000 | 4000 | 4000 | 4000 |
| | Compressor Data | RLA | 10.2 | 12.2 | 14.7 | 16.0 | 18.3 | 25.0 |
| | | LRA | 56 | 67 | 83 | 90 | 109 | 169 |
| 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" | |
| | 25 - 39 ft. | 3/4" | 3/4" | 3/4" | 7/8" (3) | 7/8" | 1-1/8" (4) | |
| | 40 - 75 ft. | 3/4" | 7/8" (3) | 7/8" (3) | 7/8" (3) | 7/8" | 1-1/8" (4) | |
| Refrigerant Charge (Outdoor unit, Indoor Unit 15' Line Set) R-22 Ounces | | 94 | 114 | 114 | 131 | 143 | 192 | |
| Weight Approximate (lbs.) | Net | 172 | 182 | 198 | 191 | 199 | 250 | |
| | Ship | 184 | 194 | 211 | 203 | 211 | 265 | |

- (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.

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.

Thermostat

Two thermostats are available.

911096 - Single-Stage

911100 - Two-Stage Heat / One-Stage Cool

Fan Delay Kit (TDR)

911758 - 80-second fan delay

| COPPER WIRE SIZE — AWG (1% Voltage Drop) | | | | |
|---|-----|-----|----|----------------|
| Supply Wire Length-Feet | | | | Supply Circuit |
| 200 | 150 | 100 | 50 | Ampacity |
| 6 | 8 | 10 | 14 | 15 |
| 4 | 6 | 8 | 12 | 20 |
| 4 | 6 | 8 | 10 | 25 |
| 4 | 4 | 6 | 10 | 30 |
| 3 | 4 | 6 | 8 | 35 |
| 3 | 4 | 6 | 8 | 40 |
| 2 | 3 | 4 | 6 | 45 |
| 2 | 3 | 4 | 6 | 50 |

Wire Size based on N.E.C. for 60° type copper conductors.

SYSTEM COOLING CAPACITIES

13+ SEER — Ultra High Efficiency — Single Phase

| Outdoor Unit Number FS3BD- | Indoor Unit Number C3BA- | BTUH | SEER | SCFM | Orifice (1) |
|----------------------------|--------------------------|-------|------|------|-------------|
| 024K | 036C/U-A+TDR† (2) | 24000 | 13.0 | 900 | .065 |
| 024K | 036C/U-B+TDR† | 24000 | 13.0 | 900 | .065 |
| 030K | 036C/U-A+TDR† (2) | 30000 | 13.0 | 1050 | .069 |
| 030K | 036C/U-B+TDR† (2) | 30000 | 13.0 | 1050 | .069 |
| 036K | 042C/U-B+TDR† (2) | 36000 | 13.0 | 1250 | .080 |
| 042K | 048C/U-B+TDR† (2) | 40000 | 13.0 | 1250 | .080 |
| 042K | 048C/U-C+TDR† | 40000 | 13.0 | 1250 | .080 |
| 048K | 060C/U-C+TDR† (2) | 48000 | 13.0 | 1550 | .087 |
| 060K | 060C/U-C+TDR† (2) | 56000 | 13.0 | 1550 | .103 |

| Outdoor Unit Number FS3BD- | Indoor Unit Number B3B(M,V)- | BTUH | SEER | SCFM | Orifice |
|----------------------------|------------------------------|-------|------|------|---------|
| 024K | 030K-A | 24000 | 13.0 | 900 | .065 |
| 024K | 036K-B | 24000 | 13.0 | 900 | .065 |
| 030K | 036K-A | 30000 | 13.0 | 1050 | .069 |
| 036K | 042K-B | 36000 | 13.0 | 1250 | .080 |
| 042K | 048K-B | 40000 | 13.0 | 1250 | .080 |
| 048K | 060K-C | 48000 | 13.0 | 1550 | .087 |
| 060K | 066K-C | 57000 | 13.0 | 1700 | .103 |

14 SEER — Ultra High Efficiency — Single Phase

| Outdoor Unit Number FS3BD- | Indoor Unit Number C3BA- | BTUH | SEER | SCFM | Orifice (1) |
|----------------------------|--------------------------|-------|------|------|-------------|
| 024K | 036C/U-B+VSB (2) | 24800 | 14.0 | 880 | .065 |
| 030K | 036C/U-B+VSB (2) | 30800 | 14.0 | 1100 | .069 |
| 036K | 042C/U-B+VSB (2) | 36600 | 14.0 | 1200 | .080 |
| 042K | 048C/U-B+VSB (2) | 40500 | 14.0 | 1200 | .080 |
| 042K | 048C/U-C+VSB | 40500 | 14.0 | 1200 | .080 |
| 048K | 060C/U-C+VSB (2) | 48500 | 14.0 | 1550 | .087 |
| 060K | 060C/U-C+VSB (2) | 56500 | 14.0 | 1550 | .103 |

| Outdoor Unit Number FS3BD- | Indoor Unit Number B3VM- | BTUH | SEER | SCFM | Orifice |
|----------------------------|--------------------------|-------|------|------|---------|
| 024K | 036K-B | 24800 | 14.0 | 880 | .065 |
| 030K | 036K-B | 30800 | 14.0 | 1100 | .069 |
| 036K | 048K-B | 36600 | 14.0 | 1200 | .080 |
| 042K | 048K-B | 40500 | 14.0 | 1200 | .080 |
| 048K | 060K-C | 48500 | 14.0 | 1550 | .087 |
| 060K | 066K-C | 57500 | 14.0 | 1665 | .103 |

| Outdoor Unit Number FS3BD- | Indoor Unit Number B3B(M,V)- | BTUH | SEER | SCFM | Orifice |
|----------------------------|------------------------------|-------|------|------|---------|
| 024K | 036K-B+VSB | 24800 | 14.0 | 880 | .065 |
| 030K | 036K-B+VSB | 30800 | 14.0 | 1100 | .069 |
| 036K | 042K-B+VSB | 36600 | 14.0 | 1200 | .080 |
| 042K | 048K-B+VSB | 40500 | 14.0 | 1200 | .080 |
| 048K | 060K-C+VSB | 48500 | 14.0 | 1550 | .087 |
| 060K | 066K-C+VSB | 57500 | 14.0 | 1665 | .103 |

† TDR = Time Delay Relay, included with FG6* unit.

(1) Orifice supplied with outdoor unit.

(2) Available as horizontal cased coil.

See current ARI directory for certified combinations and ratings.



CERTIFICATION APPLIES ONLY WHEN THE COMPLETE SYSTEM IS LISTED WITH ARI

We Encourage Professionalism



Through Technician Certification by NATE

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220B-1104 (Replaces 220B-0203)

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.

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