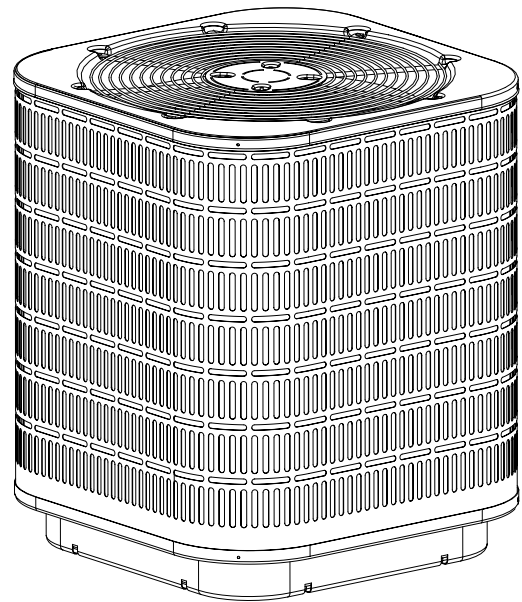


DT5BD Series High Efficiency Heat Pumps 13+ SEER Residential System 1.5 - 5 Ton Capacity

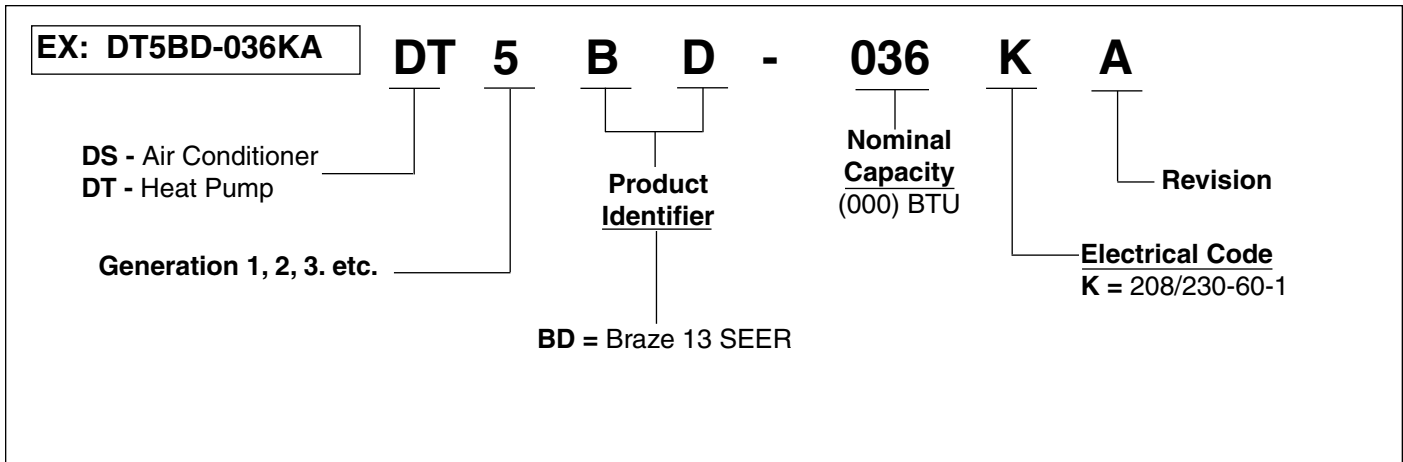
The DT5BD Series of heat pumps offers exceptional performance. The heat pump, when combined with our engineered coils or air handlers, offers a line of quality, split system heating and cooling equipment. The DT5BD is rated at 13 SEER and 8.0 HSPF when matched with our air handlers. When matched with our variable speed air handler, or our variable speed blower kits, the DT5BD is rated up to 14 SEER and 8.5 HSPF. 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 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.
- **Steel Guard™** – Protects the unit coil from being damaged by balls, lawnmowers, hail, etc.
- **Time /Temperature Defrost** – A reliable, industry standard control offers various time settings to meet any type climate.
- **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.
- **Common Suction Service Port** – This port allows the contractor to read the suction pressure in all modes of operation without removing any panels, saving time and increasing serviceability.
- **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 the defrosting coil and 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.
- **Suction Accumulator** – Protection from liquid flood back and future compressor failures.
- **Hot Gas Muffler** – Reduces compressor noise and vibration.
- **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.
- **Warranty** – The best in the industry.
 - 5 year limited parts
 - 2 year mileage
 - 2 year labor

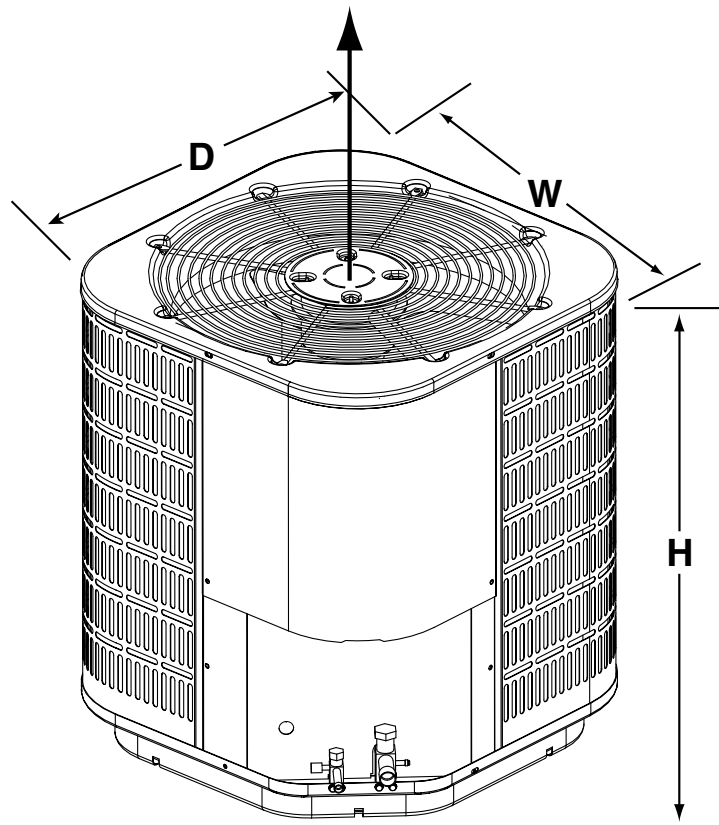
MODEL IDENTIFICATION CODES



DIMENSIONS HEAT PUMP OUTDOOR SECTION

| DT5BD | 018K | 024KA | 030KA | 036K | 042K | 048K | 060K |
|-------|--------|--------|--------|--------|--------|--------|--------|
| H | 26-1/2 | 26-1/2 | 38-1/2 | 42-1/2 | 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 | 30-1/2 |
| D | 30-1/2 | 30-1/2 | 30-1/2 | 30-1/2 | 30-1/2 | 30-1/2 | 30-1/2 |

Air Discharge
Allow Adequate Clearance for Airflow



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

13+ SEER —High Efficiency — Single Phase

| Model Number DT5BD- | | 018K | 024KA | 030KA | 036K | 042K | 048K | 060K | |
|---|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|
| 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 | 9.9 | 13.0 | 14.6 | 15.7 | 17.5 | 19.7 | 26.4 | |
| | Delay Fuse Max. (2) | 20 | 25 | 30 | 30 | 35 | 40 | 50 | |
| | Min. Circuit Ampacity | 12.1 | 16.0 | 18.0 | 19.4 | 21.6 | 24.3 | 32.6 | |
| Component Data | Coil | Area | 15.17 | 15.17 | 22.88 | 25.42 | 22.88 | 25.42 | 25.42 |
| | | Rows-FPI | 1 - 18 | 1 - 18 | 1 - 20 | 1 - 20 | 2 - 16 | 2 - 16 | 2 - 16 |
| | | 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. | 3/8" O.D. |
| | Fan Motor | Type | PSC | PSC | PSC | PSC | PSC | PSC | PSC |
| | | Amps | 0.91 | 0.91 | 1.00 | 1.00 | 1.00 | 1.4 | 1.4 |
| | | HP | 1/8 | 1/8 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| | Fan Blade | Diagrams | 24" - 3 | 24" - 3 | 24" - 3 | 24" - 3 | 24" - 3 | 24" - 3 | 24" - 3 |
| | | SCFM | 2370 | 2370 | 3000 | 3000 | 3000 | 4000 | 4000 |
| | Compressor Data | RLA | 10 | 12 | 14 | 16.4 | 18.4 | 20.4 | 28 |
| | | LRA | 41 | 54 | 67 | 83 | 95 | 109 | 148 |
| 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" | 3/4" | 7/8" (3) | 7/8" | 7/8" | 1-1/8" (4) | |
| | 40-75 ft. | 3/4" | 3/4" | 7/8" (3) | 7/8" (3) | 7/8" | 1-1/8" (4) | 1-1/8" (4) | |
| Refrigerant charge in ounces (Outdoor unit, Indoor Unit 15' Line Set) | | 93 | 96 | 144 | 155 | 248 | 248 | 268 | |
| Weight Approximate (lbs.) | Net | 166 | 171 | 190 | 204 | 252 | 276 | 285 | |
| | Ship | 175 | 180 | 200 | 215 | 265 | 290 | 300 | |

(1) Operating Voltage Range: 198v min. — 253v max.

(2) HACR Type Circuit Breakers may be used.

(3) 7/8" to 3/4" reducer required.

(4) Requires 1 1/8" to 7/8" 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.

Snow Stand

Plastic-coated, molded wire stand which elevates units 7-1/4" above ground level.

913145 - (024 through 048) Shipped six (6) per box.

Outdoor Thermostat - 913235

Two-stage logic provides ability to lock out electric strips down to balance point and bring on in stages.

Time Delay Relay Kit (TDR) - 911758

| 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 HEATING & COOLING CAPACITIES

13+ SEER — High Efficiency — Single Phase

| Outdoor Unit | Indoor TXV Coil + TDR | Cooling Capacity BTUH | SEER | EER | Heating Capacity BTUH @47 F | HSPF | SCFM |
|--------------|-----------------------------|-----------------------|------|------|-----------------------------|------|------|
| 018K | C6B(A,H)-T24(C,U)-A | 18000 | 13.0 | 12.9 | 17500 | 8 | 600 |
| 018K | C6B(A,H)-T24(C,U)-B | 18000 | 13.0 | 12.9 | 17500 | 8 | 600 |
| 024KA | C6B(A,H)-T24(C,U)-A | 24000 | 13.0 | 12.2 | 22400 | 8 | 770 |
| 024KA | C6B(A,H)-T24(C,U)-B | 24000 | 13.0 | 12.2 | 22400 | 8 | 770 |
| 030KA | C6B(A,H)-T30(C,U)-A | 28000 | 13.0 | 11.7 | 28000 | 8 | 800 |
| 030KA | C6B(A,H)-T30(C,U)-B | 28000 | 13.0 | 11.7 | 28000 | 8 | 800 |
| 036K | C6B(A,H)-T36(C,U)-B | 35000 | 13.0 | 12 | 35600 | 8 | 1150 |
| 036K | C6B(A,H)-T36(C,U)-C | 35000 | 13.0 | 12 | 35600 | 8 | 1150 |
| 042K | C6B(A,H)-T42(C,U)-B | 40000 | 13.0 | 12 | 40000 | 8 | 1350 |
| 042K | C6B(A,H)-T42(C,U)-C | 40000 | 13.0 | 12 | 40000 | 8 | 1350 |
| 048K | C6B(A,H)-T48(C,U)-C | 47500 | 13.0 | 12 | 46000 | 8 | 1625 |
| 048K | C6B(A,H)-T48(C,U)-D | 47500 | 13.0 | 12 | 46000 | 8 | 1625 |
| 060K | C6B(A,H)-T60(C,U)-C + MB6EM | 57000 | 13.0 | 11.6 | 56500 | 8 | 1840 |
| 060K | C6B(A,H)-T60(C,U)-D + MB6EM | 57000 | 13.0 | 11.6 | 56500 | 8 | 1840 |

| Outdoor Unit | Indoor Piston Air Handler GB5BM- | Cooling Capacity BTUH | SEER | EER | Heating Capacity BTUH @47 F | HSPF | SCFM | Indoor Orifice |
|--------------|----------------------------------|-----------------------|------|------|-----------------------------|------|-------|----------------|
| 018K | 024K-A+LLS | 18,000 | 13.0 | 12.4 | 17,800 | 8.0 | 600 | 0.051 |
| 018K | 025K-A+LLS | 18,000 | 13.0 | 12.4 | 17,800 | 8.0 | 600 | 0.051 (1) |
| 024KA | 025K-A+LLS | 24,000 | 13.0 | 12.4 | 22,400 | 8.0 | 750 | 0.061 |
| 024KA | 025K-B+LLS | 24,000 | 13.0 | 12.4 | 22,400 | 8.0 | 750 | 0.061 |
| 030KA | 030K-A+LLS | 29,000 | 13.0 | 12.1 | 28,600 | 8.0 | 870 | 0.068 |
| 030KA | 030K-B+LLS | 29,000 | 13.0 | 12.1 | 28,600 | 8.0 | 870 | 0.068 |
| 036K | 036K-B+LLS | 35,400 | 13.0 | 11.7 | 36,000 | 8.0 | 1,140 | 0.078 |
| 042K | 042K-B+LLS | 40,000 | 13.0 | 11.8 | 40,000 | 8.0 | 1,350 | 0.083 |
| 048K | 049K-C+LLS | 45,500 | 13.0 | 11.3 | 47,500 | 8.0 | 1,500 | 0.090 |
| 060K | 060K-C+LLS | 57,000 | 13.0 | 11.6 | 60,000 | 7.8 | 1,600 | 0.101 |

| Outdoor Unit | Indoor TXV Coil + TDR | Cooling Capacity BTUH | SEER | EER | Heating Capacity BTUH @47 F | HSPF | SCFM |
|--------------|-------------------------------|-----------------------|------|------|-----------------------------|------|-------|
| 018K | C5B(A,H)-T24(U,C)-A | 18,000 | 13.0 | 12.4 | 17,800 | 8.0 | 600 |
| 018K | C5B(A,H)-T25(U,C)-A | 18,000 | 13.0 | 12.4 | 17,800 | 8.0 | 600 |
| 024KA | C5B(A,H)-T25(U,C)-A | 24,000 | 13.0 | 12.4 | 22,400 | 8.0 | 750 |
| 024KA | C5B(A,H)-T25(U,C)-B | 24,000 | 13.0 | 12.4 | 22,400 | 8.0 | 750 |
| 030KA | C5B(A,H)-T30(U,C)-A | 29,000 | 13.0 | 12.1 | 28,600 | 8.0 | 870 |
| 030KA | C5B(A,H)-T30(U,C)-B | 29,000 | 13.0 | 12.1 | 28,600 | 8.0 | 870 |
| 036K | C5B(A,H)-T36(U,C)-B | 35,400 | 13.0 | 11.7 | 36,000 | 8.0 | 1,140 |
| 042K | C5B(A,H)-T42(U,C)-B | 40,000 | 13.0 | 11.8 | 40,000 | 8.0 | 1,350 |
| 048K | C5B(A,H)-T49(U,C)-C | 45,500 | 13.0 | 11.3 | 47,500 | 8.0 | 1,500 |
| 060K | C5B(A,H)-T60(U,C)-C+TDR+VSB-C | 57,000 | 13.0 | 11.6 | 60,000 | 8.0 | 1,600 |

| Outdoor Unit | Indoor TXV Air Handler GB5B(M,V)- | Cooling Capacity BTUH | SEER | EER | Heating Capacity BTUH @47 F | HSPF | SCFM |
|--------------|-----------------------------------|-----------------------|------|------|-----------------------------|------|-------|
| 018K | T24K-A | 18,000 | 13.0 | 12.4 | 17,800 | 8.0 | 600 |
| 018K | T25K-A | 18,000 | 13.0 | 12.4 | 17,800 | 8.0 | 600 |
| 024KA | T25K-A | 24,000 | 13.0 | 12.4 | 22,400 | 8.0 | 750 |
| 024KA | T25K-B | 24,000 | 13.0 | 12.4 | 22,400 | 8.0 | 750 |
| 030KA | T30K-A | 29,000 | 13.0 | 12.1 | 28,600 | 8.0 | 870 |
| 030KA | T30K-B | 29,000 | 13.0 | 12.1 | 28,600 | 8.0 | 870 |
| 036K | T36K-B | 35,400 | 13.0 | 11.7 | 36,000 | 8.0 | 1,140 |
| 042K | T42K-B | 40,000 | 13.0 | 11.8 | 40,000 | 8.0 | 1,350 |
| 048K | T49K-C | 45,500 | 13.0 | 11.3 | 47,500 | 8.0 | 1,500 |
| 060K | T60K-C | 57,000 | 13.0 | 11.6 | 60,000 | 8.0 | 1,600 |

(1) Field Supplied Piston

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SYSTEM HEATING & COOLING CAPACITIES (Continued)

14+ SEER — High Efficiency — Single Phase

| Outdoor Unit | Indoor TXV Coil | Cooling Capacity BTUH | SEER | EER | Heating Capacity BTUH @47 F | HSPF | SCFM |
|--------------|-------------------------------|--------------------------|------|------|--------------------------------|------|-------|
| 018K | C5B(A,H)-T24(U,C)-B+TDR+VSB-B | 18,100 | 14.0 | 12.2 | 16300 | 8.5 | 720 |
| 024KA | C5B(A,H)-T25(U,C)-B+TDR+VSB-B | 24,200 | 14.0 | 12.4 | 22000 | 8.5 | 800 |
| 030KA | C5B(A,H)-T30(U,C)-B+TDR+VSB-B | 29,400 | 14.0 | 12.5 | 25800 | 8.5 | 860 |
| 036K | C5B(A,H)-T36(U,C)-B+TDR+VSB-B | 35,800 | 14.0 | 12.4 | 35800 | 8.5 | 1,125 |
| 042K | C5B(A,H)-T42(U,C)-B+TDR+VSB-B | 40,500 | 14.0 | 12.3 | 41500 | 8.5 | 1,375 |
| 048K | C5B(A,H)-T49(U,C)-C+TDR+VSB-C | 46,000 | 14.0 | 12.4 | 46500 | 8.5 | 1,555 |

| Outdoor Unit | Indoor TXV Air Handler B5VM- | Cooling Capacity BTUH | SEER | EER | Heating Capacity BTUH @47 F | HSPF | SCFM |
|--------------|---------------------------------|--------------------------|------|------|--------------------------------|------|-------|
| 018K | T24K-B | 18,100 | 14.0 | 12.2 | 16300 | 8.5 | 720 |
| 024KA | T25K-B | 24,200 | 14.0 | 12.4 | 22000 | 8.5 | 800 |
| 030KA | T30K-B | 29,400 | 14.0 | 12.5 | 25800 | 8.5 | 860 |
| 036K | T36K-B | 35,800 | 14.0 | 12.4 | 35800 | 8.5 | 1,125 |
| 042K | T42K-B | 40,500 | 14.0 | 12.3 | 41500 | 8.5 | 1,375 |
| 048K | T49K-C | 46,000 | 14.0 | 12.4 | 46500 | 8.5 | 1,555 |

| Outdoor Unit | Indoor TXV Air Handler B5BM- | Cooling Capacity BTUH | SEER | EER | Heating Capacity BTUH @47 F | HSPF | SCFM |
|--------------|---------------------------------|--------------------------|------|------|--------------------------------|------|-------|
| 018K | T24K-B+VSB-B | 18,100 | 14.0 | 12.2 | 16300 | 8.5 | 720 |
| 024KA | T25K-B+VSB-B | 24,200 | 14.0 | 12.4 | 22000 | 8.5 | 800 |
| 030KA | T30K-B+VSB-B | 29,400 | 14.0 | 12.5 | 25800 | 8.5 | 860 |
| 036K | T36K-B+VSB-B | 35,800 | 14.0 | 12.4 | 35800 | 8.5 | 1,125 |
| 042K | T42K-B+VSB-B | 40,500 | 14.0 | 12.3 | 41500 | 8.5 | 1,375 |
| 048K | T49K-C+VSB-C | 46,000 | 14.0 | 12.4 | 46500 | 8.5 | 1,555 |

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