

## TECHNICAL SPECIFICATIONS

# DT4(B,Q)D Series

## High Efficiency Heat Pumps 13+ SEER Residential System

### 1.5 - 5 Ton Capacity

The DT4(B,Q)D Series now offers the choice of a heat pump that uses a more efficient and environmentally friendly refrigerant designated R-410A. The heat pump, when combined with our engineered matched indoor coils, offer a full line of quality, split-system heat pumps. Units are ideally sized for manufactured housing applications.



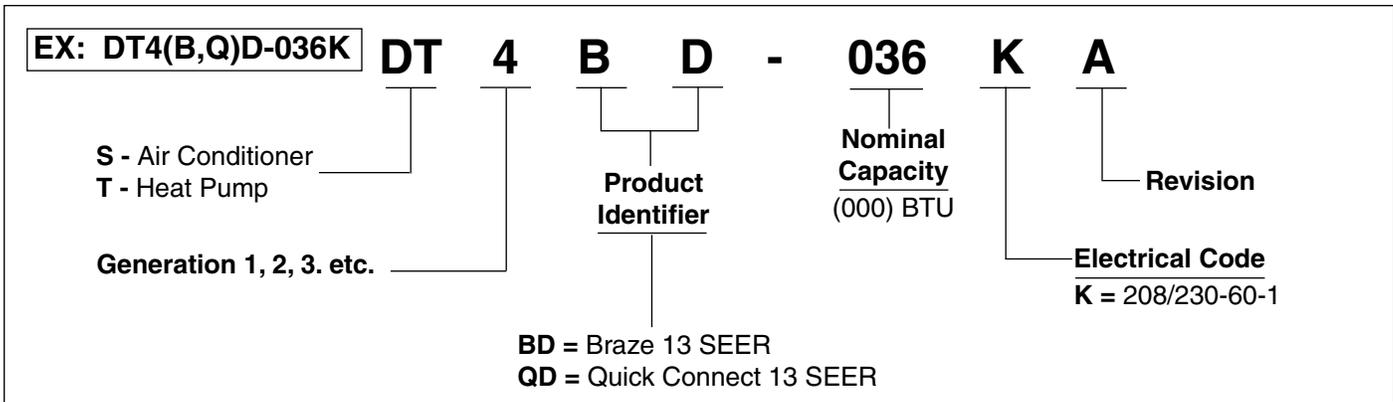
## WARRANTY

- 1 year limited parts
- 5 year compressor
- 1 year mileage
- 1 year labor

## FEATURES and BENEFITS

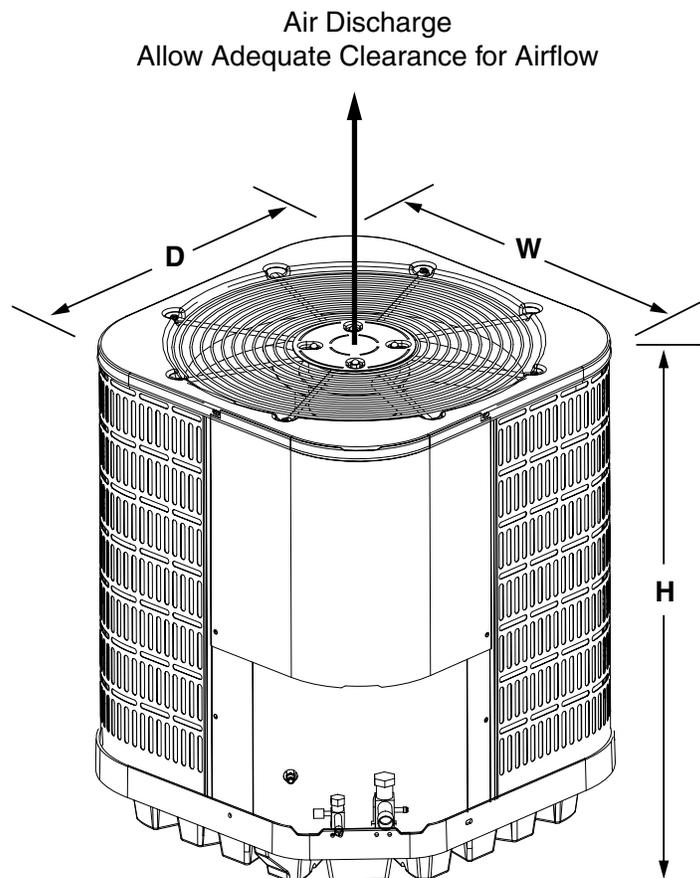
- **R-410A Refrigerant:** Earth friendly non-ozone depleting refrigerant.
- **Copper Tube / Aluminum Fin Coils:** Both indoor and outdoor coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Permanently Lubricated Motor:** A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **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.
- **Composite Base Pan:** Absorbs sound and corrosion resistant. Composite is also stronger and lighter than steel.
- **Steel Guard™:** Protects the unit coil from being damaged by balls, lawn mowers, hail, etc.
- **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.
- **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.
- **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.
- **High Pressure Switch:** Protects against abnormally high system pressures. Auto-reset feature prevents nuisance service calls.
- **Liquid Line Filter Drier:** Included with outdoor unit.
- **Compressor:** All models utilize a quiet and efficient Copeland Scroll Compressor.

# MODEL IDENTIFICATION CODES



## DIMENSIONS HEAT PUMP OUTDOOR SECTION

| DT4(B,Q)D | 018K   | 024K   | 030K   | 036K   | 042K   | 048K   | 060K   |
|-----------|--------|--------|--------|--------|--------|--------|--------|
| H         | 31     | 35     | 39     | 43     | 39     | 43     | 43     |
| W         | 30-3/4 | 30-3/4 | 30-3/4 | 30-3/4 | 30-3/4 | 30-3/4 | 30-3/4 |
| D         | 30-3/4 | 30-3/4 | 30-3/4 | 30-3/4 | 30-3/4 | 30-3/4 | 30-3/4 |



# PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

## 13 SEER — High Efficiency — Single Phase

| Model Number DT4(B,Q)D   |                        | 018K         | 024K         | 030K         | 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             | 10           | 14.4         | 15.1         | 17.6         | 19.3         | 23.2         | 27.6         |           |
|  | Delay Fuse Max. (2)    | 20           | 30           | 30           | 35           | 40           | 45           | 50           |           |
|  | Min. Circuit Ampacity  | 12.2         | 17.8         | 18.6         | 21.8         | 23.8         | 28.6         | 34.2         |           |
| Condenser Data   | Coil                   | Area         | 17.5         | 20.3         | 22.8         | 25.4         | 22.8         | 25.4         | 25.4      |
|  |                        | Rows-FPI     | 1-20         | 1-20         | 1-20         | 1-20         | 2-16         | 2-16         | 2-16      |
|  |                        | Tube Dia     | 3/8" O.D.    | 3/8" O.D. |
|  | Fan Motor              | Type         | PSC          | PSC          | PSC          | PSC          | PSC          | PSC          | PSC       |
|  |                        | Amps         | 1.0          | 1.0          | 1.0          | 1.0          | 1.4          | 1.4          | 1.4       |
|  |                        | Watts-HP     | 0.25         | 0.25         | 0.25         | 0.25         | 0.25         | 0.25         | 0.25      |
|  | Fan Blade              | Dia-# Blades | 24"- 2       | 24"- 2       | 24"- 2       | 24"- 2       | 24"- 2       | 24"- 2       | 24"- 2    |
|  |                        | SCFM         | 3000         | 3200         | 3300         | 3400         | 3700         | 3800         | 3800      |
|  | Compressor Data        | RLA          | 9            | 13.4         | 14.1         | 16.6         | 17.9         | 21.8         | 26.2      |
|  |                        | LRA          | 48           | 58.3         | 73           | 79           | 112          | 117          | 134       |
| Refrigerant suction line O.D.(all length of liquid line are 3/8" O.D.)               | 0-24 ft.               | 3/4"         | 3/4"         | 3/4"         | 7/8"         | 7/8"         | 7/8"         | 7/8"         |           |
|  | 25-39 ft.              | 3/4"         | 3/4"         | 3/4"         | 7/8"         | 7/8"         | 7/8"         | 7/8"         |           |
|  | 40-75 ft.              | 3/4"         | 3/4"         | 3/4"         | 7/8"         | 7/8"         | 7/8"         | 7/8"         |           |
| Refrigerant charge (R-410A) in ounces for outdoor unit, indoor unit and 15' lineset. |                        | 112          | 138          | 145          | 168          | 243          | 248          | 248          |           |
| Weight Approximate (lbs.)  | Net                    | 166          | 171          | 176          | 181          | 247          | 280          | 290          |           |
|  | Ship                   | 175          | 180          | 185          | 190          | 260          | 295          | 305          |           |

(1) Operating Voltage Range: 187v min. — 253v max.

(2) HACR Type Circuit Breakers may be used.

## 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.

### Outdoor Thermostat - 913852

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

### Fan Delay Kit (TDR)

918476 - 80-second fan delay.

| COPPER WIRE SIZE — AWG<br>(1% Voltage Drop) |     |     |    |                            |
|---|-----|-----|----|----------------------------|
| Supply Wire Length-Feet                     |     |     |    | Supply Circuit<br>Ampacity |
| 200   | 150 | 100 | 50 |                            |
| 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

### M1 & M3 (+ Coleman/Vexar Gas or Electric)

| Outdoor Unit    | Indoor Coil + TDR | Coil Height | Cooling Capacity | SEER | EER   | HSPF | SCFM  | 47F° Capacity (Btu/h) | 17F° Capacity (Btu/h) |
|-----------------|-------------------|-------------|------------------|------|-------|------|-------|-----------------------|-----------------------|
| DT4(B,Q)D-018K  | C5(B,D,Q)A-X25U-B | 19"         | 18,000           | 13.0 | 11.05 | 7.7  | 625   | 18,000                | 10,600                |
| DT4(B,Q)D-024K  | C5(B,D,Q)A-X25U-B | 19"         | 23,600           | 13.0 | 12.6  | 9.0  | 750   | 23,600                | 13,600                |
| DT4(B,Q)D-030K  | C5(B,D,Q)A-X30U-B | 19"         | 29,200           | 13.0 | 12    | 8.0  | 850   | 30,000                | 18,000                |
| DT4(B,Q)D-036K  | C5(B,D,Q)A-X36U-B | 19"         | 35,400           | 13.0 | 11.8  | 8.0  | 1,180 | 36,000                | 23,000                |
| DT4(B,Q)D-042K  | CM4(B,Q)-53U      | 18 1/2"     | 39,000           | 13.0 | 11.5  | 8.0  | 1310  | 40,500                | 25,000                |
| DT4(B,Q)D-048K  | CM4(B,Q)-53U      | 18 1/2"     | 45,500           | 13.0 | 11.7  | 8.0  | 1400  | 46,500                | 30,600                |
| DT4(B,Q)D-060K* | CM4(B,Q)-54U***   | 18 1/2"     | 51,000           | 13.0 | 11.5  | 7.6  | 1400  | 51,000                | 34,800                |

\* 5 ton condenser is not a valid Match with the M3

\*\*\* Requires 5 Ton Blower set at High Speed

### E3

| Outdoor Unit   | Indoor Coil + TDR | Coil Height | Cooling Capacity | SEER | EER   | HSPF | SCFM  | 47F° Capacity (Btu/h) | 17F° Capacity (Btu/h) |
|----------------|-------------------|-------------|------------------|------|-------|------|-------|-----------------------|-----------------------|
| DT4(B,Q)D-018K | C5(B,D,Q)A-X25U-B | 19"         | 18,000           | 13.0 | 11.05 | 7.7  | 625   | 18,000                | 10,600                |
| DT4(B,Q)D-024K | C5(B,D,Q)A-X25U-B | 19"         | 23,600           | 13.0 | 12.6  | 9.0  | 750   | 23,600                | 13,600                |
| DT4(B,Q)D-030K | C5(B,D,Q)A-X30U-B | 19"         | 29,200           | 13.0 | 12    | 8.0  | 850   | 30,000                | 18,000                |
| DT4(B,Q)D-036K | C5(B,D,Q)A-X36U-B | 19"         | 35,400           | 13.0 | 11.8  | 8.0  | 1,180 | 36,000                | 23,000                |
| DT4(B,Q)D-036K | C5(B,D,Q)A-X37U-B | 25"         | 35,400           | 13.0 | 11.8  | 8.0  | 1,180 | 36,000                | 23,000                |
| DT4(B,Q)D-042K | CM4(B,Q)-53U      | 18 1/2"     | 39,000           | 13.0 | 11.5  | 8.0  | 1310  | 40,500                | 25,000                |
| DT4(B,Q)D-042K | CM4(B,Q)-54U      | 18 1/2"     | 41,500           | 13.0 | 11.7  | 8.0  | 1400  | 41,500                | 25,200                |
| DT4(B,Q)D-048K | CM4(B,Q)-53U      | 18 1/2"     | 45,500           | 13.0 | 11.7  | 8.0  | 1400  | 46,500                | 30,600                |
| DT4(B,Q)D-048K | CM4(B,Q)-54U      | 18 1/2"     | 46,500           | 13.0 | 12.0  | 8.0  | 1400  | 46,500                | 30,200                |
| DT4(B,Q)D-060K | CM4(B,Q)-56U**    | 24 1/2"     | 53,000           | 13.0 | 11.7  | 8.0  | 1600  | 54,000                | 37,000                |

\*\* Requires 5 Ton Blower set at High Speed

See current AHRI Directory for certified combinations and ratings.

[www.ahridirectory.org](http://www.ahridirectory.org)



### GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product which fails in normal use and service within the first year of installation, in accordance with the terms of the warranty.

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

# NORDYNE

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