

# QUICK REFERENCE DATA

## ET4BD & FT4BD Series - Residential Split System Heat Pump

| MODEL NUMBERS: ET4BD & FT4BD                                                      |                        |              | 018K         | 024K | 030K | 036K | 042K | 048K | 060K       |
|-----------------------------------------------------------------------------------|------------------------|--------------|--------------|------|------|------|------|------|------------|
| Electrical<br>Data                                                                | Volts-Cycles-Phase (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<br>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.    |      |      |      |      |      |            |
|                                                                                   | Fan Motor              | Type         | PSC          |      |      |      |      |      |            |
|                                                                                   |                        | Amps         | 1.0          | 1.0  | 1.0  | 1.0  | 1.4  | 1.4  | 1.4        |
|                                                                                   |                        | Watts-HP     | 0.25         |      |      |      |      |      |            |
|                                                                                   | Fan Blade              | Dia-# Blades | 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<br>NOTE: Liquid line is 3/8" O.D. for entire length. |                        | 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" | 1-1/8" (3) |
|                                                                                   |                        | 40-75 ft.    | 3/4"         | 3/4" | 3/4" | 7/8" | 7/8" | 7/8" | 1-1/8" (3) |
| Refrigerant charge<br>R-410A in ounces for outdoor unit & 15' lineset.            |                        |              | 98           | 130  | 140  | 158  | 243  | 240  | 248        |
| Approximate Weight (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.

(3) Requires 7/8" to 1-1/8" adapter from unit to line.

Table 1. Electrical Specifications & Physical Data

| COPPER WIRE SIZE — AWG<br>(1% Voltage Drop) |     |     |    |                         |
|---------------------------------------------|-----|-----|----|-------------------------|
| Supply Wire Length-Feet                     |     |     |    | Supply Circuit 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                      |
| 2                                           | 3   | 4   | 6  | 55                      |
| 1                                           | 2   | 3   | 4  | 60                      |

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

Table 2. Copper Wire Size

| Thermostat Wire Gauge | Recommended T-Stat Wire Unit to T-Stat (Length in FT) |                          |
|-----------------------|-------------------------------------------------------|--------------------------|
|                       | 2-Wire (Heating)                                      | 5-Wire (Heating/Cooling) |
| 24                    | 55                                                    | 25                       |
| 22                    | 90                                                    | 45                       |
| 20                    | 140                                                   | 70                       |
| 18                    | 225                                                   | 110                      |

Table 3. Thermostat Wire Gauge

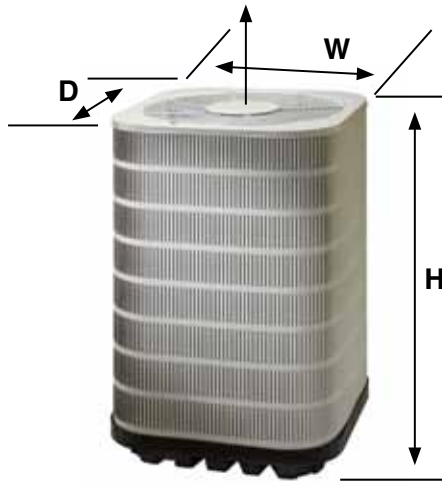
| DO NOT OBSTRUCT TOP OF UNIT<br>Allow adequate clearance for airflow                  |            |           |           |
|--------------------------------------------------------------------------------------|------------|-----------|-----------|
|  |            |           |           |
| MODEL NUMBER                                                                         | HEIGHT (H) | WIDTH (W) | DEPTH (D) |
| *T4BD-018K                                                                           | 31"        | 30 3/4"   | 30 3/4"   |
| *T4BD-024K                                                                           | 35"        | 30 3/4"   | 30 3/4"   |
| *T4BD-030K                                                                           | 39"        | 30 3/4"   | 30 3/4"   |
| *T4BD-036K                                                                           | 43"        | 30 3/4"   | 30 3/4"   |
| *T4BD-042K                                                                           | 39"        | 30 3/4"   | 30 3/4"   |
| *T4BD-048K                                                                           | 43"        | 30 3/4"   | 30 3/4"   |
| *T4BD-060K                                                                           | 43"        | 30 3/4"   | 30 3/4"   |

Table 4. Unit Dimensions

### Instructions:

1. Find the column for the model of outdoor unit that is being installed.
2. Find the row for the model of the indoor unit that is being installed.
3. Find the cell in the table in which this row and column meet. In this cell the appropriate orifice / TXV and charge addition for this match are listed. If the text in this cell is **BOLD**, then a change of orifice is necessary.
4. If a change in restrictor is necessary, then the appropriate restrictor will already be supplied with the outdoor unit.

### Examples:

- For the T4BD-018K / B5BMM024K-B match, the restrictor will need to be changed to the .053" and 14 ounces of additional charge will need to be added. (CHANGE IN CHARGE AND ORIFICE)
- For the T4BD-048K / B6EMMX48K-C match, the appropriate TXV is the 669852 and no additional charge is necessary. (NO CHANGES ARE NECESSARY)

|                                      |                                      |                  |                                                   |            |            |            |            |            |            |
|--------------------------------------|--------------------------------------|------------------|---------------------------------------------------|------------|------------|------------|------------|------------|------------|
| ID Restrictor Installed With ID Unit | MODEL NO. ET4BD & FT4BD              |                  | 018K                                              | 024K       | 030K       | 036K       | 042K       | 048K       | 060K       |
|                                      | ID Restrictor Supplied With OD Unit  |                  | 0.053                                             | 0.055      |            |            |            | 0.079      | 0.087      |
|                                      | OD Restrictor Installed with OD Unit |                  | 0.035                                             | 0.041      | 0.048      | 0.055      | 0.055      | 0.060      | 0.068      |
|                                      | Outdoor Unit BOM Charge (Oz.)        |                  | 98                                                | 130        | 140        | 158        | 243        | 240        | 248        |
|                                      | MODELS                               | SUPPLIED WITH ID | REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ) |            |            |            |            |            |            |
|                                      | B4VM                                 |                  |                                                   |            |            |            |            |            |            |
|                                      | B4VM-X24K-A                          | 669564           | 669564 / 14                                       | 669564 / 8 | --         | --         | --         | --         | --         |
|                                      | B4VM-X24K-B                          | 669564           | 669564 / 14                                       | 669564 / 8 | --         | --         | --         | --         | --         |
|                                      | B4VM-X30K-A                          | 669565           | --                                                | --         | 669565 / 5 | --         | --         | --         | --         |
|                                      | B4VM-X30K-B                          | 669565           | --                                                | --         | 669565 / 5 | --         | --         | --         | --         |
|                                      | B4VM-X36K-B                          | 669566           | --                                                | --         | --         | 669566 / 8 | --         | --         | --         |
|                                      | B4VM-X48K-B                          | 669568           | --                                                | --         | --         | --         | 669568 / 0 | --         | --         |
|                                      | B4VM-X48K-C                          | 669568           | --                                                | --         | --         | --         | 669568 / 0 | 669568 / 8 | --         |
|                                      | B4VM-X60K-C                          | 669578           | --                                                | --         | --         | --         | --         | --         | 669578 / 0 |
|                                      | GB5BM-0                              |                  |                                                   |            |            |            |            |            |            |
|                                      | GB5BM-024K-A                         | 0.055            | 0.053 / 14                                        | 0.055 / 8  | --         | --         | --         | --         | --         |
|                                      | GB5BM-024K-B                         | 0.055            | 0.053 / 14                                        | 0.055 / 8  | --         | --         | --         | --         | --         |
|                                      | GB5BM-030K-A                         | 0.065            | --                                                | --         | 0.065 / 5  | --         | --         | --         | --         |
|                                      | GB5BM-030K-B                         | 0.065            | --                                                | 0.055 / 8  | 0.065 / 5  | --         | --         | --         | --         |
|                                      | GB5BM-036A-B                         | 0.073            | --                                                | --         | --         | 0.073 / 8  | --         | --         | --         |
|                                      | GB5BM-036K-B                         | 0.073            | --                                                | --         | --         | 0.073 / 8  | --         | --         | --         |
|                                      | GB5BM-042K-B                         | 0.077            | --                                                | --         | --         | --         | 0.077 / 0  | --         | --         |
|                                      | GB5BM-048K-C                         | 0.080            | --                                                | --         | --         | --         | --         | 0.080 / 8  | --         |
|                                      | GB5BM-060K-C                         | 0.089            | --                                                | --         | --         | --         | --         | --         | 0.089 / 0  |
|                                      | GB5BMMO                              |                  |                                                   |            |            |            |            |            |            |
|                                      | GB5BMM024K-A                         | 0.055            | 0.053 / 14                                        | 0.055 / 0  | --         | --         | --         | --         | --         |
|                                      | GB5BMM024K-B                         | 0.055            | 0.053 / 14                                        | 0.055 / 0  | --         | --         | --         | --         | --         |
|                                      | GB5BMM030K-A                         | 0.062            | --                                                | --         | 0.062 / 0  | --         | --         | --         | --         |
|                                      | GB5BMM030K-B                         | 0.062            | --                                                | --         | 0.062 / 0  | --         | --         | --         | --         |
|                                      | GB5BMM036K-B                         | 0.067            | --                                                | --         | --         | 0.067 / 0  | --         | --         | --         |
|                                      | GB5BMM042K-B                         | 0.074            | --                                                | --         | --         | --         | 0.074 / 5  | --         | --         |
|                                      | GB5BMM048K-B                         | 0.079            | --                                                | --         | --         | --         | --         | 0.079 / 8  | --         |
| GB5BMM048K-C                         | 0.079                                | --               | --                                                | --         | --         | --         | 0.079 / 8  | --         |            |
| GB5BMM060K-C                         | 0.087                                | --               | --                                                | --         | --         | --         | --         | 0.087 / 0  |            |
| B5BM-X                               |                                      |                  |                                                   |            |            |            |            |            |            |
| B5B(M,V)-X24K-A                      | 669564                               | 669564 / 14      | 669564 / 8                                        | --         | --         | --         | --         | --         |            |
| B5B(M,V)-X24K-B                      | 669564                               | 669564 / 14      | 669564 / 8                                        | --         | --         | --         | --         | --         |            |
| B5B(M,V)-X30K-A                      | 669565                               | --               | --                                                | 669565 / 5 | --         | --         | --         | --         |            |
| B5B(M,V)-X30K-B                      | 669565                               | --               | 669565 / 8                                        | 669565 / 5 | --         | --         | --         | --         |            |
| B5B(M,V)-X36K-B                      | 669566                               | --               | --                                                | --         | 669566 / 8 | --         | --         | --         |            |
| B5B(M,V)-X42K-B                      | 669567                               | --               | --                                                | --         | --         | 669567 / 0 | --         | --         |            |
| B5B(M,V)-X48K-B                      | 669568                               | --               | --                                                | --         | --         | --         | 669568 / 8 | --         |            |
| B5B(M,V)-X48K-C                      | 669568                               | --               | --                                                | --         | --         | --         | 669568 / 8 | --         |            |
| B5B(M,V)-X60K-C                      | 669578                               | --               | --                                                | --         | --         | --         | --         | 669578 / 0 |            |

### NOTES:

- The charges listed are only valid for the standard 15' lineset.
- Numbers listed as 0.\*\*\* are restrictor diameters, while numbers listed as 669\*\*\* are TXV part numbers.

**Table 5. Restrictor or TXV / Charge Addition (Oz)**

# Instructions:

1. Find the column for the model of outdoor unit that is being installed.
2. Find the row for the model of the indoor unit that is being installed.
3. Find the cell in the table in which this row and column meet. In this cell the appropriate orifice / TXV and charge addition for this match are listed. If the text in this cell is BOLD, then a change of orifice is necessary.
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# Examples:

- For the T4BD-018K / GB5BMM024K-B match, the restrictor will need to be changed to the .053" and 14 ounces of additional charge will need to be added. (CHANGE IN CHARGE AND ORIFICE)
- For the T4BD-048K / B6EMMX48K-C match, the appropriate TXV is the 669852 and no additional charge is necessary. (NO CHANGES ARE NECESSARY)

| ID Restrictor Installed With ID Unit | MODEL NO. ET4BD & FT4BD              |                    | 018K                                              | 024K       | 030K       | 036K       | 042K                      | 048K       | 060K       |
|--------------------------------------|--------------------------------------|--------------------|---------------------------------------------------|------------|------------|------------|---------------------------|------------|------------|
|                                      | ID Restrictor Supplied With OD Unit  |                    | 0.053                                             | 0.055      |            |            |                           | 0.079      | 0.087      |
|                                      | OD Restrictor Installed with OD Unit |                    | 0.035                                             | 0.041      | 0.048      | 0.055      | 0.055                     | 0.060      | 0.068      |
|                                      | Outdoor Unit BOM Charge (Oz.)        |                    | 98                                                | 130        | 140        | 158        | 243                       | 240        | 248        |
|                                      | MODELS                               | SUPPLIED WITH ID   | REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ) |            |            |            |                           |            |            |
|                                      | B5BW                                 |                    |                                                   |            |            |            |                           |            |            |
|                                      | GB5BW-024K(*)                        | 0.057 <sup>†</sup> | 0.050 / 14                                        | 0.057 / 8  | --         | --         | --                        | --         | --         |
|                                      | GB5BW-030K(*)                        | 0.063 <sup>#</sup> | 0.050 / 14                                        | 0.057 / 8  | 0.065 / 5  | --         | --                        | --         | --         |
|                                      | B6BMMO                               |                    |                                                   |            |            |            |                           |            |            |
|                                      | B6BMM024K-A                          | 0.055              | 0.053 / 14                                        | 0.055 / 0  | --         | --         | --                        | --         | --         |
|                                      | B6BMM024K-B                          | 0.055              | 0.053 / 14                                        | 0.055 / 0  | --         | --         | --                        | --         | --         |
|                                      | B6BMM030K-A                          | 0.062              | --                                                | --         | 0.062 / 0  | --         | --                        | --         | --         |
|                                      | B6BMM030K-B                          | 0.062              | --                                                | --         | 0.062 / 0  | --         | --                        | --         | --         |
|                                      | B6BMM036K-B                          | 0.067              | --                                                | --         | --         | 0.067 / 0  | --                        | --         | --         |
|                                      | B6BMM042K-B                          | 0.074              | --                                                | --         | --         | --         | 0.074 / 5                 | --         | --         |
|                                      | B6BMM048K-B                          | 0.079              | --                                                | --         | --         | --         | --                        | 0.079 / 8  | --         |
|                                      | B6BMM048K-C                          | 0.079              | --                                                | --         | --         | --         | --                        | 0.079 / 8  | --         |
|                                      | B6BMM060K-C                          | 0.087              | --                                                | --         | --         | --         | --                        | --         | 0.087 / 0  |
|                                      | B6EM                                 |                    |                                                   |            |            |            |                           |            |            |
|                                      | B6EMMX24K-A                          | 669564             | 669564 / 0                                        | 669564 / 0 | --         | --         | --                        | --         | --         |
|                                      | B6EMMX24K-B                          | 669564             | 669564 / 0                                        | 669564 / 0 | --         | --         | --                        | --         | --         |
|                                      | B6EMMX30K-A                          | 669565             | --                                                | --         | 669565 / 9 | --         | --                        | --         | --         |
|                                      | B6EMMX30K-B                          | 669565             | --                                                | --         | 669565 / 9 | --         | --                        | --         | --         |
|                                      | B6EMMX36K-B                          | 669566             | --                                                | --         | --         | 669566 / 3 | --                        | --         | --         |
|                                      | B6EMMX42K-B                          | 669567             | --                                                | --         | --         | --         | 669567 / 0                | --         | --         |
|                                      | B6EMMX48K-C                          | 669852             | --                                                | --         | --         | --         | 669852 / -32 <sup>†</sup> | 669852 / 0 | --         |
|                                      | B6EMMX60K-C                          | 669578             | --                                                | --         | --         | --         | --                        | --         | 669578 / 5 |
|                                      | C6                                   |                    |                                                   |            |            |            |                           |            |            |
|                                      | C6B(A,H)-X24(C,U)-A                  | 669564             | 669564 / 14                                       | 669564 / 8 | --         | --         | --                        | --         | --         |
|                                      | C6B(A,H)-X24(C,U)-B                  | 669681             | 669681 / 14                                       | 669681 / 8 | --         | --         | --                        | --         | --         |
|                                      | C6B(A,H)-X30(C,U)-A                  | 669565             | --                                                | --         | 669565 / 5 | --         | --                        | --         | --         |
|                                      | C6B(A,H)-X30(C,U)-B                  | 669682             | --                                                | --         | 669682 / 5 | --         | --                        | --         | --         |
|                                      | C6B(A,H)-X30(C,U)-C                  | 669682             | --                                                | --         | 669682 / 5 | --         | --                        | --         | --         |
|                                      | C6B(A,H)-X35(C,U)-B                  | 669683             | --                                                | --         | --         | 669683 / 8 | --                        | --         | --         |
|                                      | C6B(A,H)-X36(C,U)-B                  | 669683             | --                                                | --         | --         | 669683 / 8 | --                        | --         | --         |
|                                      | C6B(A,H)-X36(C,U)-C                  | 669683             | --                                                | --         | --         | 669683 / 8 | --                        | --         | --         |
|                                      | C6B(A,H)-X42(C,U)-B                  | 669684             | --                                                | --         | --         | --         | 669684 / 0                | --         | --         |
|                                      | C6B(A,H)-X42(C,U)-C                  | 669684             | --                                                | --         | --         | --         | 669684 / 0                | --         | --         |
|                                      | C6B(A,H)-X42(C,U)-D                  | 669684             | --                                                | --         | --         | --         | 669684 / 0                | --         | --         |
|                                      | C6B(A,H)-X47(C,U)-C                  | 669852             | --                                                | --         | --         | --         | --                        | 669852 / 8 | --         |
|                                      | C6B(A,H)-X48(C,U)-C                  | 669852             | --                                                | --         | --         | --         | --                        | 669852 / 8 | --         |
|                                      | C6B(A,H)-X48(C,U)-D                  | 669852             | --                                                | --         | --         | --         | --                        | 669852 / 8 | --         |

# NOTES:

- The charges listed are only valid for the standard 15' lineset.
- Numbers listed as 0.\*\*\* are restrictor diameters, while numbers listed as 669\*\*\* are TXV part numbers.
- ‡ This is a charge reduction. Remove 32 ounces from the initial charge that came with the unit.
- † The GB5BW-024K unit is supplied with an extra 0.050 restrictor for use with the T4BD-018K.
- # The GB5BW-030K unit is supplied with extra 0.050, 0.057, and 0.065 restrictors.

Table 5. Restrictor or TXV / Charge Addition (Oz) - Continued

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**NORDYNE**  
COMPLETE COMFORT. GENUINE VALUE.

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7093150 (NEW)