

# QUICK REFERENCE DATA

## FT4BG Series Residential Split System Heat Pump

18 SEER

| Model Number:  |  | FT4BG-024K               | FT4BG-036K         | FT4BG-048K         | FT4BG-060K         |         |
|--|--|--------------------------|--------------------|--------------------|--------------------|---------|
| Electrical Data  | Volts-Cycles-Phase <sup>(1)</sup>  | 208/230-60-1             |                    |                    |                    |         |
|  | Total Amps   | 13.1                     | 17.5               | 23.5               | 31.2               |         |
|  | Delay Fuse Max. <sup>(2)</sup>   | 25                       | 35                 | 45                 | 60                 |         |
|  | Min. Circuit Ampacity  | 15.8                     | 21.2               | 28.7               | 38                 |         |
|  | Field Control Wiring Connections<br>(24 vac from thermostat/indoor side) | R, C, Y1, Y2, O, W2, (L) |                    |                    |                    |         |
| Condenser Data   | Coil   | Area (ft <sup>2</sup> )  | 20.3               | 22.8               | 22.8               | 25.3    |
|  |  | Rows - FPI               | 1-18               | 1-20               | 2-16               | 2-16    |
|  |  | Tube Dia.                | 3/8" OD            | 3/8" OD            | 3/8" OD            | 3/8" OD |
|  | Fan Motor  | Type                     | Brushless DC       |                    |                    |         |
|  |  | Amps                     | 2.6                | 2.6                | 2.6                | 3.8     |
|  |  | HP                       | 1/3                | 1/3                | 1/3                | 1/2     |
|  | Compressor Data  | RLA                      | 10.5               | 14.9               | 20.9               | 27.4    |
|  |  | LRA                      | N/A                | N/A                | N/A                | N/A     |
|  | Service Valves   | Liquid Side              | 3/8"               | 3/8"               | 3/8"               | 3/8"    |
|  |  | Vapor Side               | 3/4"               | 7/8"               | 7/8"               | 7/8"    |
| Installation Refrigerant Vapor Line Size<br>(All liquid lines 3/8" OD) | 0 - 24 ft. equiv.  | 3/4"                     | 7/8"               | 7/8"               | 7/8"               |         |
|  | 25 - 39 ft. equiv.   | 3/4"                     | 7/8"               | 1-1/8"             | 1-1/8"             |         |
|  | 40 - 75 ft. equiv.   | 7/8"                     | 1-1/8"             | 1-1/8"             | 1-1/8"             |         |
|  | 75 - 100 ft. equiv.  | 1-1/8"                   | 1-1/8"             | 1-1/8"             | 1-1/8"             |         |
| Refrigerant Type   |  | R-410A                   |                    |                    |                    |         |
| Refrigerant Charge (oz.), 15 ft. line set (factory charge)             |  | 188 <sup>(3)</sup>       | 184 <sup>(3)</sup> | 282 <sup>(3)</sup> | 282 <sup>(3)</sup> |         |
| Weight Approximate (lbs.)  | As shipped   | 200                      | 220                | 252                | 272                |         |
|  | Net  | 191                      | 211                | 243                | 263                |         |

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

(2) HACR Type Circuit Breakers may be used.

(3) Additional charge required for line sets above 15 feet. Values based on vapor line as follows with 3/8" liquid line.

(a) 3/4" = 0.6 oz. per additional foot.

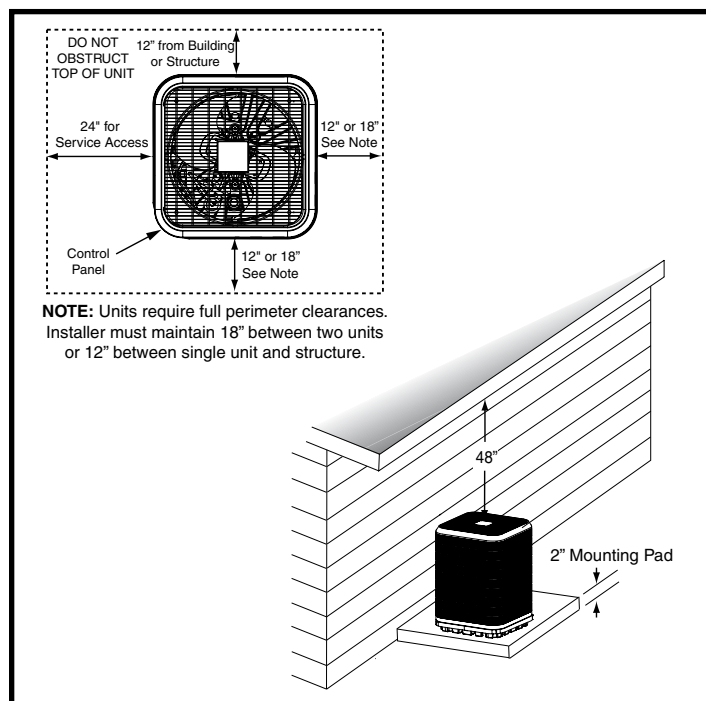
(b) 7/8" = 0.7 oz. per additional foot.

(c) 1 1/8" = 0.8 oz. per additional foot.

**Table 1. Electrical Specifications & Physical Data**

| Wire Gauge | Recommended Maximum Wire Length (FT) from Unit to Thermostat |
|------------|--|
| 22         | 45   |
| 20         | 70   |
| 18         | 115  |
| 16         | 180  |

**Table 2. Control Wiring (24V)**



**Figure 1. Clearance Requirements**

| MODEL NUMBER | HEIGHT (H) | WIDTH (W) | DEPTH (D) |
|--------------|------------|-----------|-----------|
| FT4BG-024K   | 37"        | 31 1/4"   | 31 1/4"   |
| FT4BG-036K   | 41"        | 31 1/4"   | 31 1/4"   |
| FT4BG-048K   | 41"        | 31 1/4"   | 31 1/4"   |
| FT4BG-060K   | 45"        | 31 1/4"   | 31 1/4"   |

**Table 3. 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 TXV and charge addition for this match are listed.

| Model Number:                      |                            | FT4BG-024K   | FT4BG-036K              | FT4BG-048K              | FT4BG-060K              |
|------------------------------------|----------------------------|--|-------------------------|-------------------------|-------------------------|
| Outdoor Unit Factory Charge (Oz.): |                            | 188  | 184                     | 282                     | 282                     |
| MODELS                             | INDOOR COIL TXV (AS-BUILT) | REQUIRED INDOOR TXV OR TXV KIT CHARGE ADDITION (OZ) / RATED CFM <sup>(4)</sup> |                         |                         |                         |
| <b>B6VM</b>                        |                            |  |                         |                         |                         |
| B6VMAX24K-B                        | 669564                     | TXV as-built (0 / 800)   | --                      | --                      | --                      |
| B6VMAX36K-B                        | 669566                     | --   | TXV as-built (0 / 1200) | --                      | --                      |
| B6VMAX48K-C                        | 669568                     | --   | --                      | TXV as-built (0 / 1350) | --                      |
| B6VMAX60K-C                        | 669578                     | --   | --                      | --                      | TXV as-built (0 / 1500) |
| <b>C6BH</b>                        |                            |  |                         |                         |                         |
| C6BH-X26(C,U)-B                    | 669681                     | TXV as-built (0 / 820)   | --                      | --                      | --                      |
| C6BH-X36(C,U)-B                    | 669683                     | --   | TXV as-built (0 / 1240) | --                      | --                      |
| C6BH-X36(C,U)-C                    | 669683                     | --   | TXV as-built (0 / 1220) | --                      | --                      |
| C6BH-X48(C,U)-C                    | 669852                     | --   | --                      | TXV as-built (0 / 1350) | --                      |
| C6BH-X60(C,U)-C                    | 669686                     | --   | --                      | --                      | TXV as-built (0 / 1545) |
| C6BH-X60(C,U)-D                    | 669686                     | --   | --                      | --                      | TXV as-built (0 / 1520) |
| <b>C6BA-F</b>                      |                            |  |                         |                         |                         |
| C6BA-F42(C,U)-B+TXV                | --                         | 920668A (0 / 820)  | 920670A (0 / 1240)      | --                      | --                      |
| C6BA-F48(C,U)-C+TXV                | --                         | --   | 920670A (0 / 1220)      | --                      | --                      |
| C6BA-F60(C,U)-C+TXV                | --                         | --   | --                      | 920672A (0 / 1350)      | 920673A (0 / 1545)      |
| C6BA-F60(C,U)-D+TXV                | --                         | --   | --                      | --                      | 920673A (0 / 1520)      |

**NOTES:**

<sup>(4)</sup> Charge addition is for coil change only. For line sets longer than 15 feet see Installation Instructions. CFM refers to blower flow at rating point. Refer to indoor unit air flow setting information in the Installation Instructions for that unit.

**Table 4. TXV / Charge Addition (Oz)**

