

QUICK REFERENCE DATA

FT4BD SERIES - RESIDENTIAL SPLIT SYSTEM HEAT PUMP

MODEL NUMBER: FT4BD			018K	024K	030K	036K	042K	048K	060K
ELECTRICAL DATA	Volts-Cycles-Phase (1)		208/230-60-1						
	Total Amps		10.2	14.6	15.3	17.8	19.4	23.2	27.7
	Delay Fuse Max. (2)		20	30	30	35	40	50	60
	Min. Circuit Ampacity		12.4	18.0	18.8	22.0	23.9	28.7	34.3
CONDENSER DATA	Coil	Area	17.7	20.3	22.8	25.3	22.8	25.3	25.3
		Rows-FPI	1-18	1-18	1-20	1-20	2-16	2-16	2-16
		Tube Dia	3/8" O.D.						
	Fan Motor	Type	PSC						
		Amps	1.2	1.2	1.2	1.2	1.46	1.46	1.46
		HP	0.2	0.2	0.2	0.2	0.25	0.25	0.25
	Compressor Data	RLA	9.0	13.4	14.1	16.6	17.9	21.8	26.2
		LRA	48	58.3	73.0	79.0	112.0	117.0	134.0
RECOMMENDED REFRIGERANT SUCTION LINE O.D.* 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 R-410A in ounces for outdoor unit & 15' Lineset. (4)			98	120	140	154	237	232	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.
 (4) Additional charge for line sets above 15 feet. Values based on suction 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. Thermostat Wire Gauge

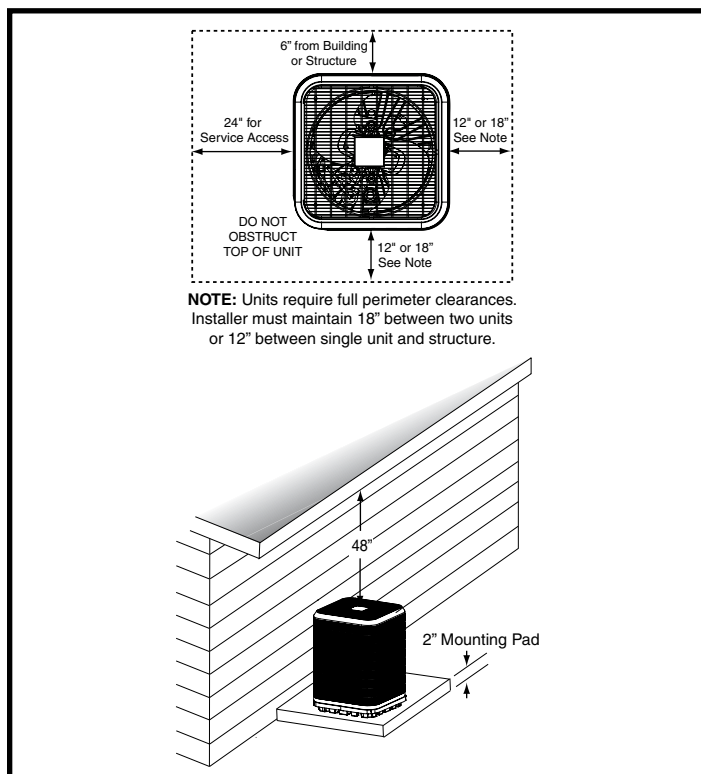


Figure 1. Clearance Requirements

Model FT4BD Shown			
MODEL NUMBER	HEIGHT (H)	WIDTH (W)	DEPTH (D)
FT4BD-018K	33 1/2"	30 3/4"	30 3/4"
FT4BD-024K	37 1/2"	30 3/4"	30 3/4"
FT4BD-030K	41 1/2"	30 3/4"	30 3/4"
FT4BD-036K	45 1/2"	30 3/4"	30 3/4"
FT4BD-042K	41 1/2"	30 3/4"	30 3/4"
FT4BD-048K	45 1/2"	30 3/4"	30 3/4"
FT4BD-060K	45 1/2"	30 3/4"	30 3/4"

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 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 / 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, the appropriate outdoor restrictor is the 0.058", and 8 ounces of additional charge will need to be added. (CHANGE IN CHARGE AND OUTDOOR ORIFICE)

ID Restrictor Installed With ID Unit	MODEL NUMBER: FT4BD		018K	024K	030K	036K	042K	048K	060K
	ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050, 0.053	0.056, 0.055	0.061	0.067	0.073	0.079, 0.081	0.087, 0.094
	OD RESTRICTOR SUPPLIED WITH OD UNIT:		0.035	0.041	0.048	0.055	0.055	0.060	0.068
	OUTDOOR UNIT BOM CHARGE (OZ.)		98	120	140	154	237	232	248
	MODELS		SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ)					
	B4VM								
	B4VM-X24K-A	669564	669564 / 14	669564 / 18	--	--	--	--	--
	B4VM-X24K-B	669564	669564 / 14	669564 / 18	--	--	--	--	--
	B4VM-X30K-A	669565	--	--	669565 / 5	--	--	--	--
	B4VM-X30K-B	669565	--	--	669565 / 5	--	--	--	--
	B4VM-X36K-B	669566	--	--	--	669566 / 12	--	--	--
	B4VM-X48K-B	669568	--	--	--	--	669568 / 6	--	--
	B4VM-X48K-C	669568	--	--	--	--	669568 / 6	669568 / 16	--
	B4VM-X60K-C	669578	--	--	--	--	--	--	669578 / 0
	GB5BM-0								
	GB5BM-024K-A	0.055	0.053 / 14	0.055 / 18	--	--	--	--	--
	GB5BM-024K-B	0.055	0.053 / 14	0.055 / 18	--	--	--	--	--
	GB5BM-030K-A	0.065	--	--	0.065 / 5	--	--	--	--
	GB5BM-030K-B	0.065	--	0.055 / 18	0.065 / 5	--	--	--	--
	GB5BM-036A-B	0.073	--	--	--	0.073 / 12	--	--	--
	GB5BM-036K-B	0.073	--	--	--	0.073 / 12	--	--	--
	GB5BM-042K-B	0.077	--	--	--	--	0.077 / 6	--	--
	GB5BM-048K-C	0.080	--	--	--	--	--	0.080 / 16	--
	GB5BM-060K-C	0.089	--	--	--	--	--	--	0.089 / 0
	GB5BMM								
	GB5BMM024K-A	0.055	0.053 / 14	0.055 / 10	--	--	--	--	--
	GB5BMM024K-B	0.055	0.053 / 14	0.055 / 10	--	--	--	--	--
	GB5BMM030K-A	0.062	--	--	0.062 / 0	--	--	--	--
	GB5BMM030K-B	0.062	--	--	0.062 / 0	--	--	--	--
	GB5BMM036K-B	0.067	--	--	--	0.067 / 4	--	--	--
	GB5BMM042K-B	0.074	--	--	--	--	0.074 / 11	--	--
	GB5BMM048K-B	0.079	--	--	--	--	--	0.079 / 16	--
	GB5BMM048K-C	0.079	--	--	--	--	--	0.079 / 16	--
	GB5BMM060K-C	0.087	--	--	--	--	--	--	0.087 / 0
	B5BM-X								
	B5B(M,V)-X24K-A	669564	669564 / 14	669564 / 18	--	--	--	--	--
B5B(M,V)-X24K-B	669564	669564 / 14	669564 / 18	--	--	--	--	--	
B5B(M,V)-X30K-A	669565	--	--	669565 / 5	--	--	--	--	
B5B(M,V)-X30K-B	669565	--	669565 / 18	669565 / 5	--	--	--	--	
B5B(M,V)-X36K-B	669566	--	--	--	669566 / 12	--	--	--	
B5B(M,V)-X42K-B	669567	--	--	--	--	669567 / 6	--	--	
B5B(M,V)-X48K-B	669568	--	--	--	--	--	669568 / 16	--	
B5B(M,V)-X48K-C	669568	--	--	--	--	--	669568 / 16	--	
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.
- Gray cells require the outdoor restrictor to be changed as well. See Table 5.

Table 4. 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.
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 / 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, the appropriate outdoor restrictor is the 0.058", and 8 ounces of additional charge will need to be added. (CHANGE IN CHARGE AND OUTDOOR ORIFICE)

ID Restrictor Installed With ID Unit	MODEL NUMBER: FT4BD		018K	024K	030K	036K	042K	048K	060K
	ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050, 0.053	0.056, 0.055	0.061	0.067	0.073	0.079, 0.081	0.087, 0.094
	OD RESTRICTOR SUPPLIED WITH OD UNIT:		0.035	0.041	0.048	0.055	0.055	0.060	0.068
	OUTDOOR UNIT BOM CHARGE (OZ.)		98	120	140	154	237	232	248
	MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ)						
	GB5BW								
	GB5BW-024K(*) †	0.057	0.050 / 14	0.057 / 18	--	--	--	--	--
	GB5BW-030K(*) #	0.063	0.050 / 14	0.057 / 18	0.065 / 5	--	--	--	--
	B6BM								
	B6BMM024K-A	0.055	0.053 / 14	0.055 / 10	--	--	--	--	--
	B6BMM024K-B	0.055	0.053 / 14	0.055 / 10	--	--	--	--	--
	B6BMM030K-A	0.062	--	--	0.062 / 0	--	--	--	--
	B6BMM030K-B	0.062	--	--	0.062 / 0	--	--	--	--
	B6BMM036K-B	0.067	--	--	--	0.067 / 4	--	--	--
	B6BMM042K-B	0.074	--	--	--	--	0.074 / 11	--	--
	B6BMM048K-B	0.079	--	--	--	--	--	0.079 / 16	--
	B6BMM048K-C	0.079	--	--	--	--	--	0.079 / 16	--
	B6BMM060K-C	0.087	--	--	--	--	--	--	0.087 / 0
	B6BW								
	B6BW-018K(*)	0.056	0.050 / 25	--	--	--	--	--	--
	B6BW-024K(*)	0.057	--	0.055 / 18	--	--	--	--	--
	B6BW-030K(*)	0.060	--	--	0.060 / 3	--	--	--	--
	B6BW-036K(*)	0.069	--	--	--	0.067 / 0	--	--	--
	B6EM								
	B6EMMX24K-A	669564	669564 / 0	669564 / 10	--	--	--	--	--
	B6EMMX24K-B	669564	669564 / 0	669564 / 10	--	--	--	--	--
	B6EMMX30K-A	669565	--	--	669565 / 9	--	--	--	--
	B6EMMX30K-B	669565	--	--	669565 / 9	--	--	--	--
	B6EMMX36K-B	669566	--	--	--	669566 / 7	--	--	--
	B6EMMX42K-B	669567	--	--	--	--	669567 / 0	--	--
	B6EMMX48K-C	669852	--	--	--	--	669852 / -26 ‡	669852 / 8	--
	B6EMMX60K-C	669578	--	--	--	--	--	--	669578 / 5
B6VM									
B6VMAX24K-A	669564	669564 / 14	669564 / 18	--	--	--	--	--	
B6VMAX24K-B	669564	669564 / 14	669564 / 18	--	--	--	--	--	
B6VMAX30K-A	669565	--	--	669565 / 5	--	--	--	--	
B6VMAX30K-B	669565	--	669565 / 18	669565 / 5	--	--	--	--	
B6VMAX36K-B	669566	--	--	--	669566 / 12	--	--	--	
B6VMAX42K-B	669567	--	--	--	--	669567 / 6	--	--	
B6VMAX48K-C	669568	--	--	--	--	669568 / 6	669568 / 16	--	
B6VMAX60K-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.
- Gray cells require the outdoor restrictor to be changed as well. See Table 5.
- ‡ This is a charge reduction. Remove 26 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 4. Restrictor or TXV / Charge Addition (Oz) - Continued

ID Restrictor Installed With ID Unit	MODEL NUMBER: FT4BD		018K	024K	030K	036K	042K	048K	060K
	ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050, 0.053	0.056, 0.055	0.061	0.067	0.073	0.079, 0.081	0.087, 0.094
	OD RESTRICTOR SUPPLIED WITH OD UNIT:		0.035	0.041	0.048	0.055	0.055	0.060	0.068
	OUTDOOR UNIT BOM CHARGE (OZ.)		98	120	140	154	237	232	248
	MODELS		SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ)					
	C6								
	C6B(A,H)-X24(C,U)-A	669564	669564 / 14	669564 / 18	--	--	--	--	--
	C6B(A,H)-X24(C,U)-B	669681	669681 / 14	669681 / 18	--	--	--	--	--
	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 / 12	--	--	--
	C6B(A,H)-X36(C,U)-B	669683	--	--	--	669683 / 12	--	--	--
	C6B(A,H)-X36(C,U)-C	669683	--	--	--	669683 / 12	--	--	--
	C6B(A,H)-X42(C,U)-B	669684	--	--	--	--	669684 / 6	--	--
	C6B(A,H)-X42(C,U)-C	669684	--	--	--	--	669684 / 6	--	--
	C6B(A,H)-X42(C,U)-D	669684	--	--	--	--	669684 / 6	--	--
	C6B(A,H)-X47(C,U)-C	669852	--	--	--	--	--	669852 / 16	--
	C6B(A,H)-X48(C,U)-C	669852	--	--	--	--	--	669852 / 16	--
	C6B(A,H)-X48(C,U)-D	669852	--	--	--	--	--	669852 / 16	--
	C7-0								
	C7B(A,H)M01824(C,U)-A	0.048	0.053 / 12	0.056 / 0	--	--	--	--	--
	C7B(A,H)M01824(C,U)-B	0.055	0.053 / 12	0.056 / 0	--	--	--	--	--
	C7B(A,H)M030(C,U)-C	0.061	--	--	0.061 / 7	--	--	--	--
	C7B(A,H)M03036(C,U)-A	0.061	--	--	0.061 / 7	--	--	--	--
	C7B(A,H)M03036(C,U)-B	0.067	--	--	0.061 / 7	0.067 / 4	--	--	--
	C7B(A,H)M03642(C,U)-B	0.071	--	--	--	0.067 / 4	0.073 / 0	--	--
	C7B(A,H)M03648(C,U)-C	0.067	--	--	--	0.067 / 4	0.073 / 0	0.081 / 0	--
	C7B(A,H)M042(C,U)-D	0.071	--	--	--	--	0.073 / 0	--	--
	C7B(A,H)M048(C,U)-C	0.077	--	--	--	--	--	0.079 / 0	--
	C7B(A,H)M048(C,U)-D	0.087	--	--	--	--	--	0.079 / 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.
- Gray cells require the outdoor restrictor to be changed as well. See Table 5.

Table 4. Restrictor or TXV / Charge Addition (Oz) - Continued

OD UNIT	ID UNIT	FACTORY INSTALLED RESTRICTOR	CORRECT OUTDOOR RESTRICTOR
FT4BD-018K	B6BW-018K(*)	0.035	0.044
FT4BD-018K	C7B(A,H)M01824(C,U)-(A,B)	0.035	0.039
FT4BD-024K	B6BW-024K(*)	0.041	0.047
FT4BD-030K	B6BW-030K(*)	0.048	0.050
FT4BD-036K	B6BW-036K(*)	0.053	0.057
FT4BD-048K	B6EMMX48K-C	0.060	0.058
FT4BD-048K	C7B(A,H)M03648(C,U)-C	0.060	0.064
FT4BD-048K	C7B(A,H)M04860(C,U)-(C,D)	0.060	0.064

Table 5. FT4BD Outdoor Restrictor Changes

