

QUICK REFERENCE DATA

FT4BE SERIES RESIDENTIAL SPLIT SYSTEM HEAT PUMP WITH MICROCHANNEL COILS

14 SEER

MODEL NUMBER: FT4BE			018KA	024KA	030KA	036KA	042KA	048KA	060KA
ELECTRICAL DATA	Volts-Cycles-Phase (1)		208/230-60-1						
	Total Amps		9.9	14.4	13.7	15.1	19.4	21.3	27.7
	Delay Fuse Max. (2)		20	30	25	30	40	45	60
	Min. Circuit Ampacity		12.1	17.7	16.9	18.6	23.9	26.3	34.3
CONDENSER DATA	Coil	Area	17.5	17.5	22.5	25.0	24.4	24.4	24.4
		Rows-FPI	1 - 14	1 - 14	1 - 14	1 - 14	1 - 14	1 - 14	1 - 16
		Tube Dia	MC						
	Fan Motor	Type	PSC						
		Amps	0.9	0.9	0.9	1.0	1.5	1.5	1.5
		HP	0.13	0.13	0.13	0.20	0.25	0.25	0.25
	Compressor Data	RLA	9.0	13.4	12.8	14.1	17.9	19.8	26.2
		LRA	46.0	58.3	64.0	77.0	112.0	109.0	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, indoor unit and 15' line set. (4)			87.0	79.0	72.0	87.0	115.0	115.0	114.0
WEIGHT APPROXIMATE (LBS.)		Net	156	163	178	182	202	204	206
		Ship	165	172	187	191	211	213	215

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

(2) HACR Type Circuit Breakers may be used.

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

(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.

* For other line set dimensions, refer to the Application Guidelines for Refrigerant Lines Addendum.

Table 1. Electrical Specifications & Physical Data

THERMOSTAT WIRE GAUGE	MAXIMUM RECOMMENDED THERMOSTAT WIRE LENGTH (FT)
24	25
22	45
20	70
18	110

Table 2. Thermostat Wire

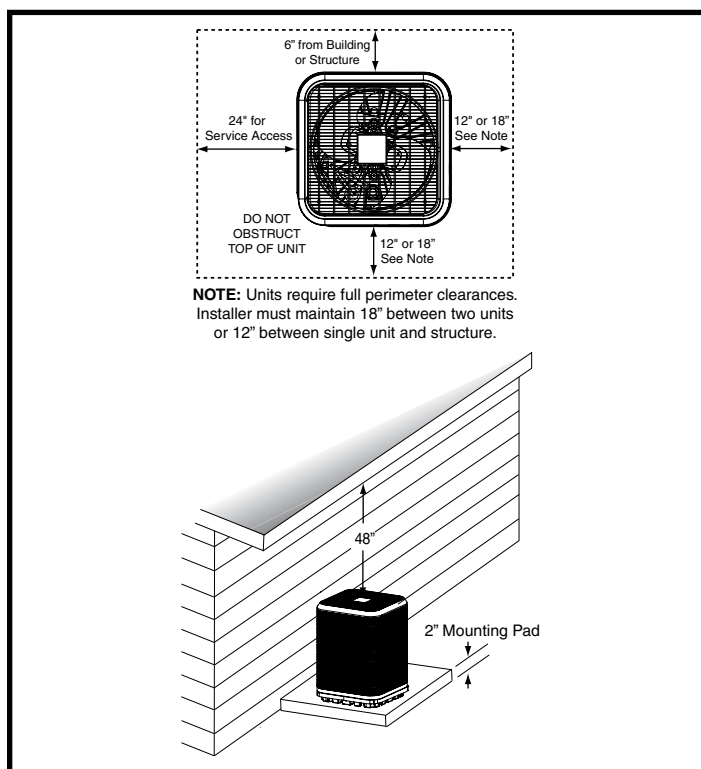


Figure 1. Clearance Requirements

MODEL NUMBER	HEIGHT (H)	WIDTH (W)	DEPTH (D)
FT4BE-018KA	33 1/2"	30 3/4"	30 3/4"
FT4BE-024KA	33 1/2"	30 3/4"	30 3/4"
FT4BE-030KA	41 1/2"	30 3/4"	30 3/4"
FT4BE-036KA	45 1/2"	30 3/4"	30 3/4"
FT4BE-042KA	45 1/2"	30 3/4"	30 3/4"
FT4BE-048KA	45 1/2"	30 3/4"	30 3/4"
FT4BE-060KA	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 FT4BE-030KA / B6BMM030K-A match, the appropriate restrictor is the 0.062" and 25 ounces of refrigerant must be added (CHARGE ADDITION).
- For the FT4BE-060KA / B6BMM060K-C match, the indoor restrictor will need to be changed to the 0.091", the outdoor restrictor must be changed to the 0.074", and 3 ounces of refrigerant must be added (CHANGE IN INDOOR RESTRICTOR, OUTDOOR RESTRICTOR, AND CHARGE ADDITION).

ID RESTRICTOR INSTALLED WITH ID UNIT	MODEL NUMBER: FT4BE		018KA	024KA	030KA	036KA	042KA	048KA	060KA
	ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050	0.057	0.061, 0.062	0.066	0.075	0.076	0.091
	OD RESTRICTOR INSTALLED IN OD UNIT:		0.040	0.041	0.048	0.055	0.059	0.062	0.076
	OUTDOOR UNIT BOM CHARGE (OZ.)		87	79	72	87	115	115	114
	MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))						
	B6BMM0								
	B6BMM024K-A	0.055	0.050 (12 / 650)	0.057 (20 / 825)	--	--	--	--	--
	B6BMM024K-B	0.055	0.050 (12 / 650)	0.057 (20 / 825)	--	--	--	--	--
	B6BMM030K-A	0.062	--	--	0.062 (25 / 1040)	--	--	--	--
	B6BMM030K-B	0.062	--	--	0.062 (25 / 1040)	--	--	--	--
	B6BMM042K-B	0.074	--	--	--	0.067 (13 / 1195)	0.075 (5 / 1275)	--	--
	B6BMM060K-C	0.087	--	--	--	--	--	0.076 (4 / 1555)	0.091 (3 / 1615)
	B6BMMX								
	B6BMMX24K-A	669564	669564 (9 / 645)	669564 (14 / 840)	--	--	--	--	--
	B6BMMX24K-B	669564	669564 (9 / 645)	669564 (14 / 860)	--	--	--	--	--
	B6BMMX30K-A	669565	--	--	669565 (25 / 1040)	--	--	--	--
	B6BMMX30K-B	669565	--	--	669565 (25 / 1040)	--	--	--	--
	B6BMMX36K-B	669566	--	--	--	669566 (11 / 1250)	--	--	--
	B6BMMX48K-C	669568	--	--	--	--	669568 (3 / 1515)	--	--
	B6BMMX60K-C	669578	--	--	--	--	--	669578 (7 / 1510)	669578 (0 / 1600)
B6BW									
B6BW-018K(*)	0.048	--	--	--	--	--	--	--	
B6BW-024K(*)	0.057	--	0.057 (7 / 805)	--	--	--	--	--	
B6BW-030K(*)	0.060	--	--	0.061 (0 / 1010)	--	--	--	--	
B6BW-036K(*)	0.069	--	--	--	0.066 (0 / 1145)	--	--	--	

NOTES:

- Gray cells require the outdoor restrictor to be changed as well. See Table 5.
- The charges listed are only valid for the standard 15' lineset.
- Part numbers beginning with 669***are TXV part numbers and numbers listed as 0.*** are restrictor diameters.

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

ID RESTRICTOR INSTALLED WITH ID UNIT	MODEL NUMBER: FT4BE		018KA	024KA	030KA	036KA	042KA	048KA	060KA
	ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050	0.057	0.061, 0.062	0.066	0.075	0.076	0.091
	OD RESTRICTOR INSTALLED IN OD UNIT:		0.040	0.041	0.048	0.055	0.059	0.062	0.076
	OUTDOOR UNIT BOM CHARGE (OZ.)		87	79	72	87	115	115	114
	MODELS		SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))					
	B6EM								
	B6EMMX24K-A	669564	669564 (9 / 650)	669564 (14 / 820)	--	--	--	--	--
	B6EMMX24K-B	669564	669564 (9 / 650)	669564 (14 / 820)	--	--	--	--	--
	B6EMMX30K-A	669565	--	--	669565 (25 / 980)	--	--	--	--
	B6EMMX30K-B	669565	--	--	669565 (25 / 980)	--	--	--	--
	B6EMMX36K-B	669566	--	--	--	669566 (23 / 1140)	--	--	--
	B6EMMX42K-B	669567	--	--	--	--	669567 (11 / 1205)	--	--
	B6EMMX48K-C	669852	--	--	--	--	--	669852 (7 / 1510)	--
	B6EMMX60K-C	669578	--	--	--	--	--	--	669578 (0 / 1600)
	B6EW								
	B6EW-X18K	669564	669564 (0 / 650)	--	--	--	--	--	--
	B6EW-X25K	669564	--	669564 (0 / 865)	--	--	--	--	--
	B6EW-X30K	669565	--	--	669565 (5 / 1000)	--	--	--	--
	B6EW-X36K	669566	--	--	--	669566 (0 / 1100)	--	--	--
	B6VMX								
	B6VMX24K-A	669564	669564 (9 / 650)	669564 (14 / 820)	--	--	--	--	--
	B6VMX24K-B	669564	669564 (9 / 650)	669564 (14 / 820)	--	--	--	--	--
	B6VMX30K-A	669565	--	--	669565 (25 / 980)	--	--	--	--
	B6VMX30K-B	669565	--	--	669565 (25 / 980)	--	--	--	--
	B6VMX36K-B	669566	--	--	--	669566 (11 / 1140)	--	--	--
	B6VMX42K-B	669567	--	--	--	--	669567 (11 / 1205)	--	--
	B6VMX48K-C	669568	--	--	--	--	--	669568 (7 / 1510)	--
	B6VMX60K-C	669578	--	--	--	--	--	--	669578 (0 / 1600)

NOTES:

- Gray cells require the outdoor restrictor to be changed as well. See Table 5.
- The charges listed are only valid for the standard 15' lineset.
- Part numbers beginning with 669***are TXV part numbers and numbers listed as 0.*** are restrictor diameters.
- Bold part numbers beginning with a 9 are TXV kit numbers and must be ordered separately.

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

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 FT4BE-030KA / B6BMM030K-A match, the appropriate restrictor is the 0.062" and 25 ounces of refrigerant must be added (CHARGE ADDITION).
- For the FT4BE-060KA / B6BMM060K-C match, the indoor restrictor will need to be changed to the 0.091", the outdoor restrictor must be changed to the 0.074", and 3 ounces of refrigerant must be added (CHANGE IN INDOOR RESTRICTOR, OUTDOOR RESTRICTOR, AND CHARGE ADDITION).

ID RESTRICTOR INSTALLED WITH ID UNIT	MODEL NUMBER: FT4BE		018KA	024KA	030KA	036KA	042KA	048KA	060KA
	ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050	0.057	0.061, 0.062	0.066	0.075	0.076	0.091
	OD RESTRICTOR INSTALLED IN OD UNIT:		0.040	0.041	0.048	0.055	0.059	0.062	0.076
	OUTDOOR UNIT BOM CHARGE (OZ.)		87	79	72	87	115	115	114
	MODELS		SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))					
	C7-0								
	C7B(A,H)M030(C,U)-C	0.061	--	--	0.062 (25 / 1040)	--	--	--	--
	C7B(A,H)M03036(C,U)-A	0.061	--	--	0.062 (25 / 1040)	--	--	--	--
	C7B(A,H)M03036(C,U)-B	0.067	--	--	0.062 (25 / 1040)	--	--	--	--
	C7B(A,H)M03642(C,U)-B	0.071	--	--	--	0.067 (13 / 1195)	0.075 (5 / 1275)	--	--
	C7B(A,H)M03648(C,U)-C	0.067	--	--	--	0.067 (13 / 1195)	0.075 (5 / 1275)	--	--
	C7B(A,H)M042(C,U)-D	0.071	--	--	--	--	0.075 (5 / 1275)	--	--
	C7-0 + TXV								
	C7B(A,H)M01824(C,U)-A + TXV	0.048	920668A (9 / 650)	920668A (14 / 820)	--	--	--	--	--
	C7B(A,H)M01824(C,U)-B + TXV	0.055	920668A (9 / 660)	920668A (14 / 820)	--	--	--	--	--
	C7B(A,H)M030(C,U)-C + TXV	0.061	--	920668A (14 / 820)	920669A (25 / 980)	--	--	--	--
	C7B(A,H)M03036(C,U)-A + TXV	0.061	--	--	920669A (25 / 980)	--	--	--	--
	C7B(A,H)M03036(C,U)-B + TXV	0.067	--	--	920669A (25 / 980)	--	--	--	--
	C7B(A,H)M03642(C,U)-B + TXV	0.071	--	--	--	920670A (22 / 1140)	920671A (13 / 1275)	--	--
	C7B(A,H)M03648(C,U)-C + TXV	0.067	--	--	--	920670A (22 / 1140)	920671A (13 / 1275)	--	--
C7B(A,H)M042(C,U)-D + TXV	0.071	--	--	--	--	920671A (13 / 1275)	--	--	
C7B(A,H)M048(C,U)-C + TXV	0.077	--	--	--	--	--	920672A (7 / 1510)	--	
C7B(A,H)M048(C,U)-D + TXV	0.077	--	--	--	--	--	920672A (7 / 1510)	--	
C7B(A,H)M060(C,U)-C + TXV	0.083	--	--	--	--	--	--	920673A (0 / 1600)	

NOTES:

- Gray cells require the outdoor restrictor to be changed as well. See Table 5.
- The charges listed are only valid for the standard 15' lineset.
- Part numbers beginning with 669***are TXV part numbers and numbers listed as 0.*** are restrictor diameters.
- Bold part numbers beginning with a 9 are TXV kit numbers and must be ordered separately.

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

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 FT4BE-030KA / B6BMM030K-A match, the appropriate restrictor is the 0.062" and 25 ounces of refrigerant must be added (CHARGE ADDITION).
- For the FT4BE-060KA / B6BMM060K-C match, the indoor restrictor will need to be changed to the 0.091", the outdoor restrictor must be changed to the 0.074", and 3 ounces of refrigerant must be added (CHANGE IN INDOOR RESTRICTOR, OUTDOOR RESTRICTOR, AND CHARGE ADDITION).

ID RESTRICTOR INSTALLED WITH ID UNIT	MODEL NUMBER: FT4BE		018KA	024KA	030KA	036KA	042KA	048KA	060KA
	ID RESTRICTOR SUPPLIED WITH OD UNIT:		0.050	0.057	0.061, 0.062	0.066	0.075	0.076	0.091
	OD RESTRICTOR INSTALLED IN OD UNIT:		0.040	0.041	0.048	0.055	0.059	0.062	0.076
	OUTDOOR UNIT BOM CHARGE (OZ.)		87	79	72	87	115	115	114
	MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV (CHARGE ADDITION (OZ) / RATED AIRFLOW (SCFM))						
	C7-X								
	C7B(A,H)MX24(C,U)-A	669681	669681 (9 / 660)	669681 (14 / 810)	--	--	--	--	--
	C7B(A,H)MX24(C,U)-B	669681	669681 (9 / 660)	669681 (14 / 810)	--	--	--	--	--
	C7B(A,H)MX30(C,U)-A	669682	--	--	669682 (25 / 980)	--	--	--	--
	C7B(A,H)MX30(C,U)-B	669682	--	--	669682 (25 / 980)	--	--	--	--
	C7B(A,H)MX30(C,U)-C	669682	--	669682 (14 / 810)	669682 (25 / 980)	--	--	--	--
	C7B(A,H)MX36(C,U)-B	669683	--	--	--	669683 (22 / 1140)	--	--	--
	C7B(A,H)MX36(C,U)-C	669683	--	--	--	669683 (22 / 1140)	--	--	--
	C7B(A,H)MX42(C,U)-C	669684	--	--	--	--	669684 (13 / 1205)	--	--

C7B(A,H)MX48(C,U)-C	669852	--	--	--	--	--	669852 (7 / 1510)	--
C7B(A,H)MX48(C,U)-D	669852	--	--	--	--	--	669852 (7 / 1510)	--
C7B(A,H)MX60(C,U)-C	669686	--	--	--	--	--	--	669686 (0 / 1545)

NOTES:

- Gray cells require the outdoor restrictor to be changed as well. See Table 5.
- The charges listed are only valid for the standard 15' lineset.
- Part numbers beginning with 669***are TXV part numbers and numbers listed as 0.*** are restrictor diameters.
- Bold part numbers beginning with a 9 are TXV kit numbers and must be ordered separately.

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

OD UNIT	ID UNIT	FACTORY INSTALLED RESTRICTOR	CORRECT OUTDOOR RESTRICTOR
FT4BE-018KA	B6BMM024K-A	0.040	0.039
	B6BMM024K-B		0.039
	B6EW-X18K		0.044
	C7B(A,H)M01824(C,U)-A + TXV		0.039
	C7B(A,H)M01824(C,U)-B + TXV		0.039
	C7B(A,H)MX24(C,U)-A		0.039
	C7B(A,H)MX24(C,U)-B		0.039
FT4BE-024KA	B6BW-024K(*)	0.041	0.047
	B6EW-X25K		0.049
	C7B(A,H)M01824(C,U)-A + TXV		0.042
	C7B(A,H)M01824(C,U)-B + TXV		0.042
	C7B(A,H)M030(C,U)-C + TXV		0.042
	C7B(A,H)MX24(C,U)-A		0.042
	C7B(A,H)MX24(C,U)-B		0.042
	C7B(A,H)MX30(C,U)-C		0.042
FT4BE-030KA	B6BW-030K(*)	0.048	0.051
	B6EW-X30K		0.053
	C7B(A,H)M030(C,U)-C + TXV		0.051
	C7B(A,H)M03036(C,U)-A + TXV		0.051
	C7B(A,H)M03036(C,U)-B + TXV		0.051
	C7B(A,H)MX30(C,U)-A		0.051
	C7B(A,H)MX30(C,U)-B		0.051
	C7B(A,H)MX30(C,U)-C		0.051
FT4BE-036KA	B6BMM042K-B	0.055	0.056
	B6BW-036K(*)		0.059
	B6EW-X36K		0.059
	C7B(A,H)M03642(C,U)-B		0.056
	C7B(A,H)M03648(C,U)-C		0.056
FT4BE-048KA	B6BMM060K-C	0.062	0.059
FT4BE-060KA	B6BMM060K-C	0.076	0.074

Table 5. Outdoor Restrictor Changes

