

QUICK REFERENCE DATA

ES4BD & FS4BD Series Residential Split System Air Conditioner

Model No. ES4BD & FS4BD			018KB	024KB	030KB	036KB	042KB	048KB	060KB
Electrical Data	Volts-Cycles Phase (1)		208/230-60-1						
	Total Amps		9.4	13.5	14.8	17.8	19..31	23.2	27.6
	Delay Fuse Max. (2)		20	25	30	35	40	45	50
	Min. Circuit Ampacity		11.5	16.7	18.3	22	23	28.6	34.2
Component Data	Coil	Area	8.2	11.5	13.2	13.2	15.3	15.3	17.9
		Rows-FPI	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Tube Dia.	Micro-Channel	Micro-Channel	Micro-Channel	Micro-Channel	Micro-Channel	Micro-Channel	Micro-Channel
	Fan Motor	Type	PSC						
		Amps	0.4	0.67	0.67	1.2	1.4	1.4	1.4
		Watts-HP	0.13	0.13	0.13	0.25	0.25	0.25	0.25
	Fan Blade	Dia.-#Blades	18" - 2BL	18" - 3BL	18" - 3BL	18" - 4BL	24" - 2BL	24" - 2BL	24" - 2BL
		SCFM	2600	2800	3000	3000	3500	3500	3800
	Compressor Data*	RLA	9	12.8	14.1	16.6	17.9	21.8	26.2
		LRA	48	58.3	73	79	112	117	134
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"	3/4"	7/8"	7/8"	7/8"
		25 - 39 ft.	3/4"	3/4"	3/4"	7/8" (3)	7/8"	7/8"	1-1/8" (4)
		40 - 75 ft.	3/4"	3/4"	3/4"	7/8" (3)	7/8"	7/8"	1-1/8" (4)
REFRIGERANT CHARGE R-410A in ounces for outdoor unit & 15' Lineset.			40.4	41.0	42.0	41.0	59.0	62.0	69.6
APPROXIMATE WEIGHT (LBS.)		Net	109	125	138	140	179	179	188
		Ship	114	130	144	146	187	187	197

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

(2) HACR Type Circuit Breakers may be used.

(3) Requires 7/8" to 3/4" reducer from line to unit.

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

(5) Additional charge for line sets above 15 feet.

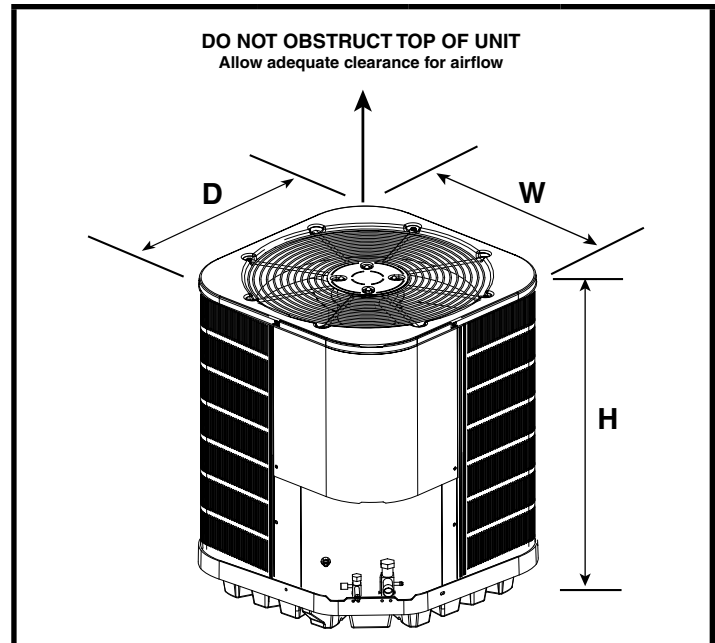
Values based on suction line as follows with 3/8" liquid line.

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



MODEL NUMBER	HEIGHT (H)	WIDTH (W)	DEPTH (D)
*S4BD-018KB	23"	22 3/4"	22 3/4"
*S4BD-024KB	23"	22 3/4"	22 3/4"
*S4BD-030KB	27"	22 3/4"	22 3/4"
*S4BD-036KB	27"	22 3/4"	22 3/4"
*S4BD-042KB	27"	30 3/4"	30 3/4"
*S4BD-048KB	27"	30 3/4"	30 3/4"
*S4BD-060KB	31"	30 3/4"	30 3/4"

Table 4. Unit Dimensions

COPPER WIRE SIZE — AWG (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

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 S4BD-030KB / B4VM-X30K-B match, the appropriate TXV is the 669565 and 34 ounces of charge will need to be added. (CHANGE IN CHARGE)
- For the S4BD-024KB / B6EMMX24K-B match, the appropriate TXV is the 669564 and no additional charge needs to be added. (NO CHANGES ARE NECESSARY)

ID Restrictor Installed With ID Unit	MODEL NO. ES4BD & FS4BD		018KB	024KB	030KB	036KB	042KB	048KB	060KB
	ID Restrictor Supplied With OD Unit		0.048		0.060	0.065, 0.067	0.072		
	Outdoor Unit BOM Charge (Oz.)		40.4	41.0	42.0	41.0	59.0	62.0	69.6
	MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ)						
	B4VM								
	B4VM-X24K-A	669564	669564 / 30	669564 / 29	--	--	--	--	--
	B4VM-X24K-B	669564	669564 / 30	669564 / 29	--	--	--	--	--
	B4VM-X30K-A	669565	--	--	669565 / 34	--	--	--	--
	B4VM-X30K-B	669565	--	--	669565 / 34	--	--	--	--
	B4VM-X36K-B	669566	--	--	--	669566 / 31	--	--	--
	B4VM-X48K-B	669568	--	--	--	--	669568 / 34	--	--
	B4VM-X48K-C	669568	--	--	--	--	669568 / 34	669568 / 34	--
	B4VM-X60K-C	669578	--	--	--	--	--	--	669578 / 36
	GB5BM-0								
	GB5BM-024K-A	0.055	0.048 / 30	0.055 / 29	--	--	--	--	--
	GB5BM-024K-B	0.055	0.048 / 30	0.055 / 29	--	--	--	--	--
	GB5BM-030K-A	0.065	--	--	0.065 / 34	--	--	--	--
	GB5BM-030K-B	0.065	--	--	0.065 / 34	--	--	--	--
	GB5BM-036K-B	0.073	--	--	--	0.073 / 31	--	--	--
	GB5BM-042K-B	0.077	--	--	--	--	0.077 / 34	--	--
	GB5BM-048K-C	0.080	--	--	--	--	--	0.080 / 34	--
	GB5BM-060K-C	0.089	--	--	--	--	--	--	0.089 / 36
	GB5BMMO								
	GB5BMM024K-A	0.055	0.048 / 0	0.055 / 3	--	--	--	--	--
	GB5BMM024K-B	0.055	0.048 / 0	0.055 / 3	--	--	--	--	--
	GB5BMM030K-A	0.062	--	--	0.060 / 6	--	--	--	--
	GB5BMM030K-B	0.062	--	--	0.060 / 6	--	--	--	--
	GB5BMM036K-B	0.067	--	--	--	0.065 / 15	--	--	--
GB5BMM042K-B	0.074	--	--	--	--	0.072 / 0	--	--	
GB5BMM048K-B	0.079	--	--	--	--	--	0.079 / 0	--	
GB5BMM048K-C	0.079	--	--	--	--	--	0.079 / 0	--	
GB5BMM060K-C	0.087	--	--	--	--	--	--	0.087 / 0	
B5BM-X									
B5B(M,V)-X24K-A	669564	669564 / 30	669564 / 29	--	--	--	--	--	
B5B(M,V)-X24K-B	669564	669564 / 30	669564 / 29	--	--	--	--	--	
B5B(M,V)-X30K-A	669565	--	--	669565 / 34	--	--	--	--	
B5B(M,V)-X30K-B	669565	--	--	669565 / 34	--	--	--	--	
B5B(M,V)-X36K-B	669566	--	--	--	669566 / 31	--	--	--	
B5B(M,V)-X42K-B	669567	--	--	--	--	669567 / 34	--	--	
B5B(M,V)-X48K-B	669568	--	--	--	--	--	669568 / 34	--	
B5B(M,V)-X48K-C	669568	--	--	--	--	--	669568 / 34	--	
B5B(M,V)-X60K-C	669578	--	--	--	--	--	--	669578 / 36	
B5BW									
GB5BW-030K(*)	0.063 [†]	0.050 / 30	0.057 / 29	0.063 / 34	--	--	--	--	

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.
- † The GB5BW-030K unit is supplied with extra 0.050, 0.057, and 0.065 restrictors.

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.
4. If a change in restrictor is necessary, then the appropriate restrictor will already be supplied with the outdoor unit.

Examples:

- For the S4BD-030KB / B4VM-X30K-B match, the appropriate TXV is the 669565 and 34 ounces of charge will need to be added. (CHANGE IN CHARGE)
- For the S4BD-024KB / B6EMMX24K-B match, the appropriate TXV is the 669564 and no additional charge needs to be added. (NO CHANGES ARE NECESSARY)

ID Restrictor Installed With ID Unit	MODEL NO. ES4BD & FS4BD		018KB	024KB	030KB	036KB	042KB	048KB	060KB
	ID Restrictor Supplied With OD Unit		0.048		0.060	0.065, 0.067	0.072		
	Outdoor Unit BOM Charge (Oz.)		40.4	41.0	42.0	41.0	59.0	62.0	69.6
	MODELS	SUPPLIED WITH ID	REQUIRED RESTRICTOR OR TXV / CHARGE ADDITION (OZ)						
	B6BMMO								
	B6BMM024K-A	0.055	0.048 / 0	0.055 / 3	--	--	--	--	--
	B6BMM024K-B	0.055	0.048 / 0	0.055 / 3	--	--	--	--	--
	B6BMM030K-A	0.062	--	--	0.060 / 6	--	--	--	--
	B6BMM030K-B	0.062	--	--	0.060 / 6	--	--	--	--
	B6BMM036K-B	0.067	--	--	--	0.065 / 15	--	--	--
	B6BMM042K-B	0.074	--	--	--	--	0.072 / 0	--	--
	B6BMM048K-B	0.079	--	--	--	--	--	0.079 / 0	--
	B6BMM048K-C	0.079	--	--	--	--	--	0.079 / 0	--
	B6BMM060K-C	0.087	--	--	--	--	--	--	0.087 / 0
	B6BW								
	B6BW-018K(*)	0.056	0.048 / 0	--	--	--	--	--	--
	B6BW-024K(*)	0.057	--	0.057 / 3	--	--	--	--	--
	B6BW-030K(*)	0.060	--	--	0.060 / 6	--	--	--	--
	B6BW-036K(*)	0.069	--	--	--	0.067 / 0	--	--	--
	B6EM								
	B6EMMX24K-A	669564	669564 / 0	669564 / 0	--	--	--	--	--
	B6EMMX24K-B	669564	669564 / 0	669564 / 0	--	--	--	--	--
	B6EMMX30K-A	669565	--	--	669565 / 0	--	--	--	--
	B6EMMX30K-B	669565	--	--	669565 / 0	--	--	--	--
	B6EMMX36K-B	669566	--	--	--	669566 / 6	--	--	--
	B6EMMX42K-B	669567	--	--	--	--	669567 / 4	--	--
	B6EMMX48K-C	669852	--	--	--	--	669852 / 5	669852 / 1	--
	B6EMMX60K-C	669578	--	--	--	--	--	--	669578 / 0
	C6								
	C6B(A,H)-X24(C,U)-A	669564	669564 / 30	669564 / 29	--	--	--	--	--
	C6B(A,H)-X24(C,U)-B	669681	669681 / 30	669681 / 29	--	--	--	--	--
	C6B(A,H)-X30(C,U)-A	669565	--	--	669565 / 34	--	--	--	--
	C6B(A,H)-X30(C,U)-B	669682	--	--	669682 / 34	--	--	--	--
	C6B(A,H)-X30(C,U)-C	669682	--	--	669682 / 34	--	--	--	--
	C6B(A,H)-X35(C,U)-A	669566	--	--	--	669566 / 31	--	--	--
	C6B(A,H)-X35(C,U)-B	669683	--	--	--	669683 / 31	--	--	--
	C6B(A,H)-X36(C,U)-B	669683	--	--	--	669683 / 31	--	--	--
	C6B(A,H)-X36(C,U)-C	669683	--	--	--	669683 / 31	--	--	--
	C6B(A,H)-X42(C,U)-B	669684	--	--	--	--	669684 / 34	--	--
	C6B(A,H)-X42(C,U)-C	669684	--	--	--	--	669684 / 34	--	--
	C6B(A,H)-X42(C,U)-D	669684	--	--	--	--	669684 / 34	--	--
	C6B(A,H)-X47(C,U)-C	669852	--	--	--	--	--	669852 / 34	--
	C6B(A,H)-X48(C,U)-C	669852	--	--	--	--	--	669852 / 34	--
	C6B(A,H)-X48(C,U)-D	669852	--	--	--	--	--	669852 / 34	--
	C6B(A,H)-X60(C,U)-C	669686	--	--	--	--	--	--	669686 / 36
	C6B(A,H)-X60(C,U)-D	669686	--	--	--	--	--	--	669686 / 36

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) - Continued

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