

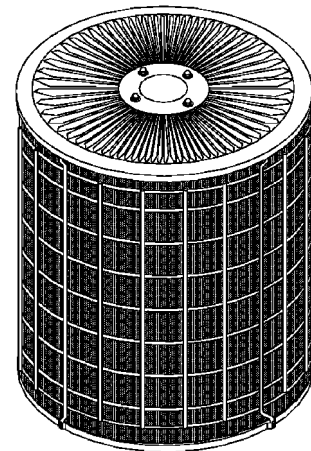


# FBA Series

12 SEER  
CONDENSING UNITS  
1 1/2 thru 5 Ton  
SPECIFICATIONS

## FEATURES

- Easy to install
- Top Discharge Condenser Fan
- Coated Inlet Grill
- Louvered Top
- Sweat Valve Refrigerant Connections
- Factory Charged with Refrigerant (R-22)
- Copper Tube / Pre-Painted Aluminum Fin Coil
- 10 Year limited compressor warranty



Rated in accordance with ARI Standard 210. Certification applies only when used with proper components as listed with ARI.



UNIT SPECIFICATIONS								
Model Number		FBA218GA	FBA224GA	FBA230GA	FBA236GA	FBA242GA	FBA248GA	FBA260GA
		FBA218GGA	FBA224GGA	FBA230GGA	FBA236GGA	FBA242GGA	FBA248GGA	FBA260GGA
Electrical Data	Voltage-Phase-Hz	208 / 230-1-60						
	Voltage Range (Min-Max)	197-253						
	Minimum Circuit Ampacity	12.5	14.1	18.9	20.7	24.7	25.2	33.6
	Wire Size/Max. Length (AWG Cu) Ft.	#14 / 48'	#14 / 38'	#12 / 45'	#10 / 61'	#10 / 49'	#10 / 40	#8 / 50
	Time Delay Fuse (Amps)	15	20	25	25	30	30	40
	Max. Fuse or HACR Type Breaker Size (Amps)	20	20	30	35	40	40	60
Compressor Data	Voltage-Phase-Hz	208 / 230-1-60						
	Full Running / Lock Rotor Amps	9.0 / 42	10.3 / 54	14.1 / 73	14.7 / 83	17.9 / 104	20.4 / 109	28.0 / 169
Fan Data	Voltage-Phase-Hz	208 / 230-1-60						
	Horsepower / Type	1/5 / PSC	1/5 / PSC	1/5 / PSC	1/3 / PSC	1/3 / PSC	1/3 / PSC	1/3 / PSC
	Full Load / Lock Rotor Amps.	1.3 / 2.3	1.3 / 2.3	1.3 / 2.3	2.3 / 4.6	2.3 / 4.6	2.3 / 4.6	2.3 / 4.6
	Speeds / CFM (Max)	1 / 1800	1 / 2000	1 / 2100	1 / 3000	1 / 3000	1 / 3000	1 / 3000
Outdoor Coil Data	Total Face Area (Sq. Ft.)	10.0	11.67	13.3	16.04	18.2	21.4	21.4
	Fins Per Inch / Rows	20 / 1	20 / 1	20 / 1	20 / 1	22 / 1	22 / 1	22 / 1
	Tube Diameter (OD) (In.)	3/8						
Charge	Suction I.D. Size (In.)	3/4				7/8		
	Liquid I.D. Size (In.)	5/16				3/8		
	Factory Charge R-22 (Oz)	65	80	89	95	103	141	141
Weights	Shipping / Net (Lbs.)	134 / 114	145 / 125	160 / 135	185 / 155	205 / 170	215 / 180	225 / 190
Dimensions	Height x Width (inches)	25 1/2 x 24	29 1/2 x 24	33 1/2 x 24	31 1/2 x 30	35 1/2 x 30	41 1/2 x 30	41 1/2 x 30

MODEL NOMENCLATURE							
MODEL NUMBER	FB	A	2	24	G	GA	1
SERIES							SALES CODE
						DESIGN SERIES GA = Coil Guard Model	
A = AIR CONDITIONER						G = 208/230 - 1 Phase	
SEER 2 = 12							
NOMINAL CAPACITY MBtuh 24 = 24,000							

**COIL IDENTIFICATION**

COIL MODEL IDENTIFICATION			
Evaporator	E	P	A
P = Orifice X = TXV			
Capacity BTU X 1000		36	B15
			A
		Sales Code	

A = 'A' Loose Coil  
 D = Cased Upflow / Downflow Coil  
 M = Cased Upflow / Downflow / Horizontal Coil

B, F, J, N in the cased coils indicate coil cabinet width: B = 15 1/2", F = 19 1/8", J = 22 3/4", N = 26 3/8".  
 B, F, J, N in the stand alone coils indicate drain pan width: B = 14 3/4", F = 17", J = 20 1/2", N = 25 1/2"

Ratings/Performance Per ARI/DOE 210 / 240 Standards.  
 \* - A = Loose Coil, D = Cased Upflow / Downflow Coil, M = Cased Upflow / Downflow / Horizontal Coil  
 # = Installer Must Change Pin To Size Indicated. Pin shipped with outdoor unit.  
 PIN=Refrigerant Orifice PIN size.  
 TD1 = AMA001TDA Indoor Blower Time Delay Kit, Required To Make Seer Indicated, FCP, FCX fan controls satisfy TD1 requirements.  
 TXV = THERMOSTATIC EXPANSION VALVE

VOLTAGE CORRECTION FACTORS		
Volts	Capacity	Watts
208	.98	.99

EXTENDED REFRIGERANT LINE CORRECTION FACTORS					
Varying Line Length in Feet vs. Total Capacity Multiplier					
25	50	75	100	125	150
1.00	.99	.98	.96	.94	.92

INDOOR AIR FLOW CORRECTION TABLE					
% Rated Air	90	95	100	105	110
Total Cap. Mult.	.98	.99	1.00	1.01	1.03
Sens Cap. Mult.	.95	.98	1.00	1.03	1.05

**REFRIGERANT CHARGE DATA**  
 All models are factory charged with R-22 for outdoor unit, 15' of interconnecting tubing and matching indoor section.  
 Refrigerant charge correction per foot of interconnecting tubing:  
 1/4" O.D. = .25 oz.; 5/16" O.D. = .45 oz.; 3/8" O.D. = .60 oz.;  
 1/2" O.D. = 1.2 oz.

## "FBA2" SERIES SYSTEM

OUTDOOR MODEL	INDOOR MODEL	BTUH	Base	ACCESSORIES			EER	WATTS	S/T	CFM	PIN	dBels
			Match	+ TD1	+ TXV	+ TD1 + TXV						
			SEER	SEER	SEER	SEER						
FBA218GA	EP*18B15A	16,300	10.50	10.70	---	---	9.80	1663	.74	600	.051	76
	EP*18B15A	16,300	---	---	11.00	11.05	9.80	1663	.74	600	TXV	
	EP*24B15A	17,000	11.00	11.05	---	---	10.20	1667	.74	600	.051	
	EP*24B15A	17,000	---	---	11.30	11.50	10.20	1667	.74	600	TXV	
	EP*30(B15,F19)A	17,300	11.10	11.25	---	---	10.30	1680	.74	600	.051	
	EP*30(B15,F19)A	17,300	---	---	11.50	11.60	10.30	1680	.74	600	TXV	
	EPD/M30F19A + EV12F19	17,400	---	---	12.60	---	11.30	1540	.74	600	TXV	
	EX*24(B15,F19)A	18,000	11.75	12.00	---	---	10.80	1667	.73	600	TXV	
	FCP2400A	16,700	11.05	---	---	---	10.20	1637	.74	600	.051	
	FCP2400A	16,700	---	---	11.20	---	10.20	1637	.74	600	TXV	
	FCP3000A	17,100	10.50	---	---	---	9.70	1763	.74	675	.051	
	FCP3000A	17,100	---	---	10.60	---	9.70	1763	.74	675	TXV	
FCX2400A	18,000	12.00	---	---	---	10.80	1667	.73	600	TXV		
FBA224GA	EP*24B15A	22,000	10.50	10.70	---	---	9.80	2245	.74	800	.059	76
	EP*24B15A	22,000	---	---	11.00	11.05	9.80	2245	.74	800	TXV	
	EP*30(B15,F19)A	22,400	10.75	10.80	---	---	9.90	2263	.74	800	.059	
	EP*30(B15,F19)A	22,400	---	---	11.00	11.10	10.00	2240	.74	800	TXV	
	EPD/M30F19A + EV12F19	22,600	---	---	12.10	---	11.00	2055	.74	800	TXV	
	EP*36(B15,F19,J22)A	22,800	11.00	11.10	---	---	10.00	2280	.74	800	.059	
	EP*36(B15,F19,J22)A	22,800	---	---	11.30	11.40	10.00	2280	.74	800	TXV	
	EPD/M36F19A + EV12F19	23,000	---	---	12.40	---	11.00	2091	.74	800	TXV	
	EPD/M36J22A + EV16J22	23,000	---	---	12.40	---	11.00	2091	.74	800	TXV	
	EX*24(B15,F19)A	23,400	11.75	12.00	---	---	10.50	2229	.73	800	TXV	
	EXD/M24F19A + EV12F19	23,600	13.00	---	---	---	11.50	2052	.73	800	TXV	
	FCP2400A	22,000	10.70	---	---	---	9.80	2245	.74	800	.059	
	FCP2400A	22,000	---	---	11.00	---	9.80	2245	.74	800	TXV	
	FCP3000A	22,200	10.50	---	---	---	9.70	2289	.74	800	.059	
FCP3000A	22,200	---	---	10.75	---	9.70	2289	.74	800	TXV		
FCX2400A	23,400	---	---	12.00	---	10.50	2229	.73	800	TXV		
FBA230GA	EP*30(B15,F19)A	27,400	10.50	10.60	---	---	9.60	2854	.73	1000	.066	76
	EP*30(B15,F19)A	27,400	---	---	10.75	11.00	9.60	2854	.72	1000	TXV	
	EPD/M30F19A + EV12F19	27,600	---	12.00	---	---	10.60	2854	.72	1000	TXV	
	EP*36(B15,F19,J22)A	28,000	10.70	10.80	---	---	9.80	2857	.73	1000	.066	
	EP*36(B15,F19,J22)A	28,000	---	---	11.00	11.05	9.80	2857	.72	1000	TXV	
	EPD/M36F19A + EV12F19	28,200	---	12.05	---	---	10.80	2611	.72	1000	TXV	
	EPD/M36J22A + EV16J22	28,200	---	12.05	---	---	10.80	2611	.72	1000	TXV	
	EP*42(F19,J22)A	29,800	11.25	11.40	---	---	10.30	2893	.74	1000	.066	
	EP*42(F19,J22)A	29,800	---	---	11.60	11.75	10.30	2893	.74	1000	TXV	
	EPD/M42F19A + EV12F19	30,000	---	12.75	---	---	11.30	2655	.74	1000	TXV	
	EPD/M42J22A + EV16J22	30,000	---	12.75	---	---	11.30	2655	.74	1000	TXV	
	EX*36(B15,F19,J22)A	29,000	11.75	12.00	---	---	10.50	2761	.73	1000	TXV	
	EXD/M36F19A + EV12F19	29,200	13.00	---	---	---	11.50	2539	.73	1000	TXV	
	EXD/M36J22A + EV16J22	29,200	13.00	---	---	---	11.50	2539	.73	1000	TXV	
	FCP3000A	27,400	10.50	---	---	---	9.60	2854	.73	1000	.066	
	FCP3000A	27,400	---	---	10.75	---	9.60	2854	.73	1000	TXV	
	FCP3600A	28,000	10.80	---	---	---	9.80	2857	.73	1000	.066	
FCP3600A	28,000	---	---	11.05	---	9.80	2857	.72	1000	TXV		
FCX3600A	29,000	12.00	---	---	---	10.50	2761	.73	1000	TXV		

# = Installer must change pin to size indicated. PIN = Refrigerant orifice PIN size. TD1 = AMA001TDA Indoor Blower Time Delay Kit, required to make SEER indicated. ST9120, FCP, FCX, and EF fan controls satisfy TD1 requirements. TXV = Thermostatic Expansion Valve, use TXV153 (AMF153KA) on 1 1/2 to 3 tons, use TXV335 (AMF335KA) on 3 1/2 to 5 tons. For Electric Furnace (EF Series) ratings: EF08B1500A = EPA24B15A+TD1, EF12F1900A = EPA36F19A+TD1, EF16J2200A = EPA48J22A+TD1, EF20N2600A = EPA60N26A+TD1.

## "FBA2" SERIES SYSTEM

OUTDOOR MODEL	INDOOR MODEL	BTUH	Base	ACCESSORIES			EER	WATTS	S/T	CFM	PIN	dBels
			Match	+ TD1	+ TXV	+ TD1 + TXV						
			SEER	SEER	SEER	SEER						
FBA236GA	EP*36(B15,F19,J22)A	32,000	10.75	11.00	---	---	9.90	3232	.73	1200	.070	76
	EP*36(B15,F19,J22)A	32,000	---	---	11.05	11.20	9.90	3232	.73	1200	TXV	
	EPD/M36F19A + EV12F19	32,200	---	12.20	---	---	10.90	2954	.73	1200	TXV	
	EPD/M36J22A + EV16J22	32,200	---	12.20	---	---	10.90	2954	.73	1200	TXV	
	EP*42(F19,J22)A	34,400	11.30	11.50	---	---	10.50	3276	.75	1200	.070	
	EP*42(F19,J22)A	34,400	---	---	11.75	12.00	10.50	3276	.75	1200	TXV	
	EPD/M42F19A + EV12F19	34,600	---	13.00	---	---	11.50	3009	.75	1200	TXV	
	EPD/M42J22A + EV16J22	34,600	---	13.00	---	---	11.50	3009	.75	1200	TXV	
	EP*48(F19,J22,N26)A	35,000	11.50	11.60	---	---	10.70	3271	.75	1200	.070	
	EP*48(F19,J22,N26)A	35,000	---	---	11.80	12.00	10.70	3271	.75	1200	TXV	
	EPD/M48F19A + EV12F19	35,200	---	13.00	---	---	11.70	3009	.75	1200	TXV	
	EPD/M48J22A + EV16J22	35,200	---	13.00	---	---	11.70	3009	.75	1200	TXV	
	EPD/M48N26A + EV20N26	35,200	---	13.00	---	---	11.70	3009	.75	1200	TXV	
	EX*36(F19,J22)A	34,600	11.75	12.00	---	---	10.50	3295	.73	1200	TXV	
	EXD/M36F19A + EV12F19	34,800	13.00	---	---	---	11.50	3026	.73	1200	TXV	
	EXD/M36J22A + EV16J22	34,800	13.00	---	---	---	11.50	3026	.73	1200	TXV	
	FCP3600A	32,000	10.75	---	---	---	9.80	3265	.74	1200	.070	
	FCP3600A	32,000	---	---	11.00	---	9.80	3265	.74	1200	TXV	
	FCP4200A	34,200	11.20	---	---	---	10.20	3353	.75	1200	.070	
	FCP4200A	34,200	---	---	11.50	---	10.20	3353	.75	1200	TXV	
FCX3600A	34,600	12.00	---	---	---	10.50	3295	.73	1200	TXV		
FBA242GA	EP*42(F19,J22)A	37,000	11.00	11.20	---	---	10.00	3701	.73	1225	.079	76
	EP*42(F19,J22)A	37,000	---	---	11.30	11.50	10.00	3701	.73	1225	TXV	
	EPD/M42J22A + EV16J22	37,200	---	12.50	---	---	11.00	3382	.73	1225	TXV	
	EP*48(F19,J22,N26)A	39,500	11.00	11.20	---	---	10.30	3835	.72	1400	.079	
	EP*48(F19,J22,N26)A	39,500	---	---	11.30	11.50	10.30	3835	.72	1400	TXV	
	EPD/M48J22A + EV16J22	40,000	---	12.50	---	---	11.30	3540	.72	1400	TXV	
	EPD/M48N26A + EV20N26	40,000	---	12.50	---	---	11.30	3540	.72	1400	TXV	
	EP*60(J22,N26)A	40,500	11.30	11.50	---	---	10.50	3857	.72	1400	.079	
	EP*60(J22,N26)A	40,500	---	---	11.75	12.00	10.50	3857	.72	1400	TXV	
	EPD/M60J22A + EV16J22	41,000	---	13.00	---	---	11.20	3661	.72	1400	TXV	
	EPD/M60N26A + EV20N26	41,000	---	13.00	---	---	11.20	3661	.72	1400	TXV	
	EX*42(J22,N26)A	40,500	11.75	12.00	---	---	10.50	3857	.70	1400	TXV	
	EXD/M42J22A + EV16J22	41,000	13.00	---	---	---	11.50	3565	.70	1400	TXV	
	EX*48(J22,N26)A	40,500	11.75	12.00	---	---	10.50	3857	.70	1400	TXV	
	EXD/M48N26A + EV20N26	41,000	13.00	---	---	---	11.50	3565	.70	1400	TXV	
	FCP4200A	37,600	10.60	---	---	---	9.80	3837	.73	1225	.079	
	FCP4200A	37,600	---	---	11.00	---	9.80	3837	.73	1225	TXV	
	FCP4800A	39,500	10.80	---	---	---	10.10	3911	.72	1400	.079	
	FCP4800A	39,500	---	---	11.05	---	10.10	3911	.72	1400	TXV	
	FCX4800A	40,500	12.00	---	---	---	10.50	3857	.70	1400	TXV	

# = Installer must change pin to size indicated. PIN = Refrigerant orifice PIN size. TD1 = AMA001TDA Indoor Blower Time Delay Kit, required to make SEER indicated. ST9120, FCP, FCX, and EF fan controls satisfy TD1 requirements. TXV = Thermostatic Expansion Valve, use TXV153 (AMF153KA) on 1 1/2 to 3 tons, use TXV335 (AMF335KA) on 3 1/2 to 5 tons. For Electric Furnace (EF Series) ratings: EF08B1500A = EPA24B15A+TD1, EF12F1900A = EPA36F19A+TD1, EF16J2200A = EPA48J22A+TD1, EF20N2600A = EPA60N26A+TD1.

## "FBA2" SERIES SYSTEM

OUTDOOR MODEL	INDOOR MODEL	BTUH	Base	ACCESSORIES			EER	WATTS	S/T	CFM	PIN	dBels
			Match	+ TD1	+ TXV	+ TD1 + TXV						
			SEER	SEER	SEER	SEER						
FBA248GA	EP*48(F19,J22,N26)A	44,000	11.20	---	---	---	10.30	4272	.73	1600	.082	76
	EE*60	44,000	11.20	---	---	---	10.30	4272	.73	1600	.082	
	EP*60(J22,N26)A	45,000	11.50	---	---	---	10.50	4286	.75	1600	.082	
	EP*60(J22,N26)A	45,000	---	---	---	12.00	10.50	4286	.75	1600	TXV	
	EPD/M60J22A + EV16J22	45,500	---	---	13.00	---	11.50	3957	.75	1600	TXV	
	EPD/M60N26A + EV20N26	45,500	---	---	13.00	---	11.50	3957	.75	1600	TXV	
	EX*48(J22,N26)A	46,000	12.00	---	---	---	10.70	4299	.75	1600	TXV	
	EXD/M48N26A + EV20N26	46,000	13.00	---	---	---	11.70	3932	.75	1600	TXV	
	EX*60(J22,N26)A	47,000	12.30	---	---	---	11.00	4273	.76	1600	TXV	
	EXD/M60N26A + EV20N26	47,500	13.00	---	---	---	12.00	4273	.76	1600	TXV	
	H60PSA	48,000	12.00	---	---	---	11.00	4364	.76	1600	.082	
	FCP4800A	44,000	11.00	---	---	---	10.10	4356	.73	1600	.082	
	FCP6000A	45,000	11.20	---	---	---	10.30	4369	.75	1600	.082	
	FCX4800A	46,000	12.00	---	---	---	10.70	4299	.75	1600	TXV	
FCX6000A	47,000	12.00	---	---	---	10.70	4393	.76	1600	TXV		
FBA260GA	EP*60J22A	54,000	11.00	---	---	---	10.00	5400	.70	1600	.089	76
	EP*60N26A	54,000	11.00	---	---	---	10.00	5400	.70	1800	.089	
	EX*60(J22,N26)A	56,000	11.75	---	---	---	10.50	5333	.73	1800	TXV	
	EX*60(J22,N26)A	56,000	---	12.00	---	---	10.50	5333	.73	1800	TXV	
	EXD/M60N26A + EV20N26	56,000	12.20	---	---	---	10.70	5234	.73	1800	TXV	
	H60PSA	57,000	11.75	---	---	---	10.70	5327	.72	1800	.089	
	H60PSA	57,000	---	---	12.00	---	10.70	5327	.72	1800	TXV	
	FCP6000A	54,000	11.00	---	---	---	10.00	5400	.70	1800	.089	
FCX6000A	56,000	11.60	---	---	---	10.10	5545	.73	1800	TXV		

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\*\* Available August 1998

INDOOR TEMPERATURE CORRECTION TABLE								
Entering Indoor D.B. °F.	Correction Factor	Entering Indoor Wet Bulb °F.						
		59	61	63	65	67	69	71
70	Total Cap. Mult.	<b>.90</b>	.93	.96	.99	1.02	-	-
	Sens Cap. Mult.	<b>.86</b>	.85	.82	.77	.70	-	-
75	Total Cap. Multi.	.89	.92	<b>.95</b>	.98	1.01	1.04	-
	Sens Cap. Mult.	1.04	1.03	<b>1.00</b>	.95	.88	.78	-
80	Total Cap. Mult.	.88	.91	.94	.97	<b>1.00</b>	1.03	1.06
	Sens Cap. Mult.	1.18	1.17	1.08	1.08	<b>1.00</b>	.89	.73
85	Total Cap. Mult.	-	.90	.93	.96	.99	1.02	<b>1.05</b>
	Sens Cap. Mult.	-	1.29	1.22	1.20	1.11	.98	<b>.81</b>

Bold Type = approximately 50% Relative Humidity

ACCESSORIES		
Model / Part Number	Description	Use With
24370800 **	Comp Anti-short cycle 24 Volt 3 Min. Time Delay	All Models
1070822 **	Comp Anti-short cycle 24 Volt 5 Min. Time Delay	All Models
1053477 **	Comp Crankcase Heater Solid State "Stick On"	All Models
1148113 **	Compressor Crankcase Heater "Wrap-around"	All Models
1081848 **	Compressor Sound Jacket	1 1/2 Ton
1060833 **	Compressor Sound Jacket	2 Thru 3 1/2 Ton
AMF153TKA	TXV153 Expansion Valve Kit (New Coils)	1 1/2 to 3 Ton
AMF355TKA	TXV355 Expansion Valve Kit (New Coils)	3 1/2 to 5 Ton

\*\* Order from service parts