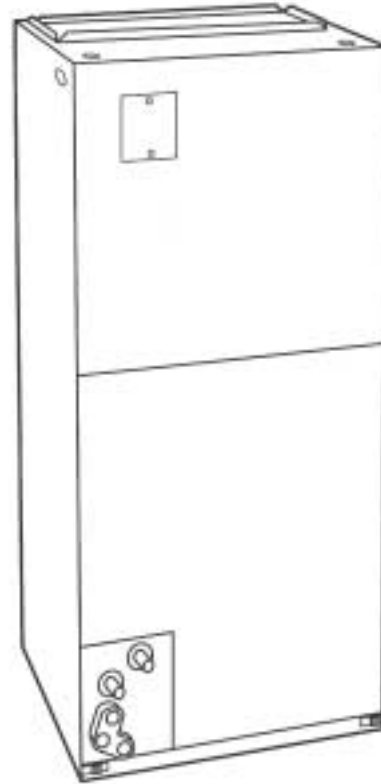




EBP Fan Coils

2 THRU 5 TONS SPLIT SYSTEM FEATURES

- Multipoise design for maximum versatility
- 2 speed motor in 24 and 36 sizes
- 3 speed motor in 48 and 60 sizes
- Piston metering device
- Optional field installed bolt on TXV for R22 and R410A
- Grooved tubing
- Lanced sine-wave aluminum fin
- Fully wettable coils
- High-impact thermoplastic condensate pan
- Primary and secondary drain connection with brass inserts
- Field-installed heater packages from 5-30 kw (fused, circuit breaker, or non-fused)
- Control board with built-in, replaceable 5-amp blade-type auto fuse
- Time-delay relay (TDR)
- High-density insulation for maximum protection
- Sweat connections
- Prepainted galvanized steel cabinet
- Multiple electric entry
- 40-VA control power transformer
- All models listed with UL and cUL
- Wood packing material meets ISPM - 15 requirements



Representative photo only, some models may vary in appearance.



Model Number	Tons	CFM (L/s) nominal	Dimensions H x W x D in. (mm)	Unit Weight lbs. (kg)
EBP2400*	2	800 (378)	42-11/16 x 12-5/16 x 19-13/16 (1084 x 313 x 503)	100 (45)
EBP3600*	3	1200 (566)	49-5/8 x 15-5/8 x 19-13/16 (1260 x 397 x 503)	118 (53)
EBP4800*	4	1600 (755)	49-5/8 x 19-1/8 x 19-13/16 (1260 x 486 x 503)	150 (68)
EBP6000*	5	2000 (566)	53-7/16 x 9-1/8 x 19-13/16 (1357 x 232 x 503)	167 (75)

* E = Copper Tube, Aluminum Fin Evaporator Coil
 . EL= Aluminum Tube, Aluminum Fin Evaporator Coil

FAN COIL MODEL NUMBER IDENTIFICATION GUIDE

	EB	P	24	00	EL	1
EB = Evaporator Blower	MODEL NUMBER					
P = Orifice Piston X = Expansion Valve V = Variable Speed W = 50 Hz Export	METERING DEVICE					
24 = 24,000 BTUH = 2 tons 36 = 36,000 BTUH = 3 tons 48 = 48,000 BTUH = 4 tons 60 = 60,000 BTUH = 5 tons			CAPACITY			
00			NO HEAT			
E = Copper Tube, Aluminum Fin Coil EL = Aluminum Tube, Aluminum Fin Coil					FEATURE CODE	
Engineering Code						

ACCESSORIES PART NUMBER IDENTIFICATION GUIDE

	EB	AC	01	NCB	A
EB = Evaporator Blower					
AC = Accessory					
01 = Product Identifier Number					
NCB = Non-Combustible Base Kit DFK = Down Flow Kit PLG = Power Plug (no heat kit) SPK = Single Point Wiring Kit FKS = Filter Kit Small	FKM = Filter Kit Medium FKL = Filter Kit Large FKX = Filter Kit Extra Large CTK = Condensate Trap Kit (PVC pipe)				
Sales Code					

ELECTRIC HEATER MODEL NUMBER IDENTIFICATION GUIDE

	EHK	05	A	K	N	1
EHK = Electric Heater Kit						
05 = 5 kW 07 = 7 kW 09 = 9 kW 10 = 10 kW 15 = 15 kW 18 = 18 kW 20 = 20 kW 25 = 25 kW 30 = 30 kW	NOMINAL HEAT VALUE					
Sales Code						
K = 208 / 230 single-phase H = 208 / 230, 3-phase KC = 208 / 230, supplied as single phase, field convertible to 3-phase HC = 208 / 230 supplied as 3-phase, field convertible to single phase			VOLTAGE (60 Hz)			
Product Identifier						
Engineering Code						

EBP PISTON SIZES

EBP2400	.056
EBP3600	.070
EBP4800	.082
EBP6000	.093

PHYSICAL DATA

PHYSICAL DATA				
ModelNumber	EBP2400	EBP3600	EBP4800	EBP6000
COIL				
Rows/Finsperinch	3/14.5	3/14.5	3/14.5	3/14.5
FaceArea(Sq.Ft.)	2.23	2.97	4.45	5.93
Configuration	Slope	Slope	A	A
LineSizes/Liquid (inch)	5/16	3/8	3/8	3/8
LineSizes/Suction (inch)	3/4	7/8	7/8	7/8
FAN				
CFM(Nominal)	800	1200	1600	2000
MotorHP(PSC)	1/4	1/3	3/4	3/4
FilterSize(inches)	13x21½	16 ³ / ₈ x21 ½	19 ⁷ / ₈ x21 ½	19 ⁷ / ₈ x21 ½
WEIGHTS				
UnitWeight(lbs.)	100	118	150	167
ShippingWeight(lbs.)	112	127	157	175

ELECTRICAL DATA – No Electric Heat													
Factory Installed NO HEAT KIT	SupplyCircuit			Supply Circuit No.	Maximum Motor AMPS.	Total AMPS.	Branch Circuit Ampacity	Maximum Overcurrent Protective Device (AMPS.)	Recommended				
									SupplyWire 75°C. Copper			Ground Wire	
	Volts	Phase	Hertz						No.	Size	Max Length (Ft)	No.	Size
EBAC01PLG	240	1	60	Single	6.0	6.0	7.5	15	2	14	104	1	14
	208	1	60	Single	6.0	6.0	7.5	15	2	14	90	1	14

UNIT DIMENSIONS

EBP							
Unit Sizes	A	B	C	D	E	F	G
2400	12 ⁷ / ₁₆	11	19 ¹³ / ₁₆	12 ⁵ / ₁₆	22 ¹ / ₁₆	14 ⁵ / ₁₆	42 ¹¹ / ₁₆
3600	15 ³ / ₄	11	19 ¹³ / ₁₆	15 ⁵ / ₈	22 ¹ / ₁₆	17 ⁵ / ₈	49 ⁵ / ₈
4800	19 ¹ / ₄	11	19 ¹³ / ₁₆	19 ¹ / ₈	22 ¹ / ₁₆	21 ¹ / ₈	49 ⁵ / ₈
6000	19 ¹ / ₄	11	19 ¹³ / ₁₆	19 ¹ / ₈	22 ¹ / ₁₆	21 ¹ / ₈	53 ⁷ / ₁₆

AIRFLOW PERFORMANCE

AIRFLOW PERFORMANCE (CFM)

Model and Size	Blower Motor Speed	EXTERNAL STATIC PRESSURE (Inches Water Column)											
		0.10		0.20		0.30		0.40		0.50		0.60	
		208V	230V	208V	230V	208V	230V	208V	230V	208V	230V	208V	230V
EBP2400	High	940	975	890	925	835	865	780	805	715	735	635	650
	Low	820	900	785	855	745	805	700	750	640	680	545	575
EBP3600	High	1320	1405	1265	1345	1205	1280	1135	1210	1060	1120	960	1025
	Low	1100	1215	1070	1170	1020	1115	960	1060	890	980	805	895
EBP4800	High	1880	1935	1785	1830	1700	1735	1615	1645	1520	1555	1430	1460
	Medium	1740	1840	1660	1750	1585	1660	1510	1575	1435	1485	1350	1390
	Low	1425	1605	1395	1555	1360	1495	1315	1430	1255	1360	1170	1270
EBP6000	High	2145	2245	2085	2185	2030	2115	1965	2045	1905	1975	1830	1895
	Medium	2025	2175	1970	2110	1915	2050	1860	1980	1805	1905	1740	1830
	Low	1680	1895	1655	1855	1625	1810	1595	1765	1555	1705	1500	1645

1. Airflow based upon dry coil at 230V with factory approved filter and electric heater (2 element heater sizes 24 through 36, 3 element heater sizes 48 through 60).
2. Not recommended for use above 0.60 inches water column external static pressure.

FILTER STATIC PRESSURE DROP (Inches Water Column)

UNIT SIZE	CFM								
	400	600	800	1000	1200	1400	1600	1800	2000
24	---	0.044	0.075	0.110	---	---	---	---	---
36	---	---	---	0.072	0.100	0.130	---	---	---
48	---	---	---	---	---	0.092	0.120	0.152	---
60	---	---	---	---	---	---	0.120	0.152	0.187

MINIMUM CFM AND MOTOR SPEED SELECTION

FAN COIL SIZES	HEATER kW									
	3	5	8	9	10	15	18	20	24	30
24	700	700	700	---	700	775*	---	---	---	---
36	---	1050	970	970	970	920	---	1040	---	---
48	---	---	1400	1400	1400	1400	1400	1400	1400	1400
60	---	---	1750	1750	1750	1750	1750	1750	1750	1750

* Indicates medium speed (blue). All other motor speeds at low tap.

AIR DELIVERY PERFORMANCE CORECTION (Inches Water Column) PRESSURE DROP AT INDICATED AIRFLOW FROM DRY TO WET COIL

UNIT SIZE	CFM									
	500	600	700	800	900	1000	1100	1200	1300	1350
24	0.035	0.051	0.066	0.080	0.091	---	---	---	---	---
36	---	---	---	---	---	0.073	0.081	0.091	0.098	0.102

UNIT SIZE	CFM									
	1200	1300	1400	1500	1600	1700	1800	1900	2000	
48	---	---	0.066	0.073	0.080	0.086	0.091	---	---	
60	---	---	---	---	0.051	0.057	0.063	0.069	0.073	

ACCESSORY INFORMATION

ACCESSORY ELECTRIC HEATERS							
ELECTRIC HEATER ELECTRICAL DATA							
Heater Model	KW		Phase	Internal Circuit Protection	Heater Amps 208 / 230v		
	230v	208v			Single Circuit	Dual Circuit	
						L1,L2	L3,L4
EHK05AKN1 ₁	5	3.8	1	None	18.1 / 20.0	-	-
EHK05AKN1 ₂	5	3.8	1	None	18.1 / 20.0	-	-
EHK05AKB2	5	3.8	1	Ckt Bkr	18.1 / 20.0	-	-
EHK07AKN1	8	6.0	1	None	28.9 / 32.0	-	-
EHK07AKB1	8	6.0	1	Ckt Bkr	28.9 / 32.0	-	-
EHK09AKCN1	9	6.8	1	None	32.8 / 36.0	-	-
EHK09AKCN1†	9	6.8	3	None	18.8 / 20.8	-	-
EHK10AKN1	10	7.5	1	None	36.2 / 40.0	-	-
EHK10AKB1	10	7.5	1	Ckt Bkr	36.2 / 40.0	-	-
EHK15AKF1	15	11.3	1	Fuse	54.2 / 59.9	36.2/40.0	18.1/20.0
EHK15AKB1	15	11.3	1	Ckt Bkr	-	36.2/40.0	18.1/20.0
EHK15AHN1	15	11.3	3	None	31.3 / 34.6	-	-
EHK20AHN1	18	13.5	3	None	37.6 / 41.5	-	-
EHK20AKF1	20	15.0	1	Fuse	72.3 / 79.9	36.2/40.0	36.2/40.0
EHK20AKB1	20	15.0	1	Ckt Bkr	-	36.2/40.0	36.2/40.0
EHK25AHCF1‡	24	18.0	3	Fuse	50.1 / 55.4	-	-
	24	18.0	1	Fuse	86.7 / 95.5	-	-
EHK30AHCF1‡	30	22.5	3	Fuse	62.6 / 69.2	-	-
	30	22.5	1	Fuse	109 / 120	-	-

ELECTRIC HEATER ELECTRICAL DATA (continued)															
Heater Model	Branch Circuit														
	Min. Ampacity 208 / 230v**			Min. Wire Size (AWG) 208 / 230v☆☆			Min. Gnd. Wire Size 208 / 230v			Max Fuse/Ckt Bkr Amps			Max Wire Length 208 / 230v(ft.) ††		
	Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit		Single Circuit	Dual Circuit	
		L1,L2	L3,L4		L1,L2	L3,L4		L1,L2	L3,L4		L1,L2	L3,L4		L1,L2	L3,L4
EHK05AKN1 ₁	26.0 / 28.4	-	-	10 / 10	-	-	10 / 10	-	-	30 / 30	-	-	66 / 66	-	-
EHK05AKN1 ₂	31.2 / 33.5	-	-	8 / 8	-	-	10 / 10	-	-	35 / 35	-	-	85 / 88	-	-
EHK05AKB1 ₁	26.0 / 28.4	-	-	10 / 10	-	-	10 / 10	-	-	30 / 30	-	-	66 / 66	-	-
EHK05AKB1 ₂	31.2 / 33.5	-	-	8 / 8	-	-	10 / 10	-	-	35 / 35	-	-	85 / 88	-	-
EHK07AKN1	44.7 / 48.5	-	-	8 / 8	-	-	10 / 10	-	-	45 / 50	-	-	59 / 60	-	-
EHK07AKB1	44.7 / 48.5	-	-	8 / 8	-	-	10 / 10	-	-	45 / 50	-	-	59 / 60	-	-
EHK09AKCN1	49.5 / 53.5	-	-	8 / 6	-	-	10 / 10	-	-	50 / 60	-	-	54 / 87	-	-
EHK09AKCN1†	32.0 / 34.5	-	-	8 / 8	-	-	10 / 10	-	-	35 / 35	-	-	83 / 85	-	-
EHK10AKN1	53.8 / 58.5	-	-	6 / 6	-	-	10 / 10	-	-	60 / 60	-	-	78 / 80	-	-
EHK10AKB1	53.8 / 58.5	-	-	6 / 6	-	-	10 / 10	-	-	60 / 60	-	-	78 / 80	-	-
EHK15AKF1	76.3 / 83.4	53.8/58.5	22.7/25.0	4 / 4	6 / 6	10 / 10	8 / 8	10 / 10	10 / 10	80 / 90	60 / 60	25 / 25	88 / 89	78 / 80	75 / 76
EHK15AKB1	-	53.8/58.5	22.7/25.0	-	6 / 6	10 / 10	-	10 / 10	10 / 10	-	60 / 60	25 / 25	-	78 / 80	75 / 76
EHK15AHN1	47.7 / 51.8	-	-	8 / 6	-	-	10 / 10	-	-	50 / 60	-	-	56 / 90	-	-
EHK18AHN1	55.5 / 60.4	-	-	6 / 6	-	-	10 / 8	-	-	60 / 70	-	-	76 / 77	-	-
EHK20AKF1	98.9/108.4	53.8/58.5	45.3/50.0	3 / 2	6 / 6	8 / 8	8 / 6	10 / 10	10 / 10	100 / 110	60 / 60	50 / 50	85 / 109	78 / 80	59 / 59
EHK20AKB1	-	53.8/58.5	45.3/50.0	-	6 / 6	8 / 8	-	10 / 10	10 / 10	-	60 / 60	50 / 50	-	78 / 80	59 / 59
EHK25AHCF1‡	71.2 / 77.8	-	-	4 / 4	-	-	8 / 8	-	-	80 / 80	-	-	94 / 95	-	-
	116.9/127.9	-	-	1 / 1	-	-	6 / 6	-	-	125 / 150	-	-	115 / 116	-	-
EHK30AHCF1‡	86.8 / 95.0	-	-	3 / 3	-	-	8 / 8	-	-	90 / 100	-	-	97 / 98	-	-
	144.8/158.5	-	-	0 / 00	-	-	6 / 6	-	-	150 / 175	-	-	117 / 150	-	-

‡ Field convertible to 1 phase, single or multiple supply circuit.

† Field convertible to 3 phase.

** Includes blower motor amps of largest fan coil used with heater.

☆☆ Copper wire must be used. If other than uncoated (non-plated), 75 Degrees C ambient, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the National Electric Code (ANSI/ NFPA 70).

†† Length shown is as measured 1 way along wire path between unit and service panel for a voltage drop not to exceed 2%.

NOTES:

1. For fan coil sizes 24- 36.
2. For fan coil sizes 42- 60.

ELECTRIC HEATER STATIC PRESSURE (Inches Water Column)					
24– 36			48–60		
HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION	HEATER ELEMENTS	kW	EXTERNAL STATIC PRESSURE CORRECTION
0	0	+ .02	0	0	+ .04
1	3,5	+ .01	2	8,10	+ .02
2	8,10	0	3	9,15	0
3	9,15	– .02	4	20	– .02
4	20	– .04	6	18,24,30	– .10

The airflow performance data was developed using fan coils with 10–kW electric heaters (2 elements) in the 24 through 36 size units and 15–kW heaters (3 elements) in the 48 through 60 size units. For fan coils with heaters of a different number of elements, the external available static at a given CFM from the curve may be corrected by adding or subtracting available external static pressure as indicated above.

ACCESSORIES

Model	Description	Use With
EHK05AKN	5 kW Single Phase	All
EHK05AKB	5 kW Single Phase	All
EHK07AKN	8 kW Single Phase	All
EHK07AKB	8 kW Single Phase	All
EHK09AKCN	9 kW / Single Phase (Field convertible to 3 phase)	All
EHK10AKN	10 kW Single Phase	All
EHK10AKB	10 kW Single Phase	All
EHK15AKF	15 kW Single Phase	24 – 60
EHK15AKB	15 kW Single Phase	24 – 60
EHK15AHN	15 kW 3 Phase	24 – 60
EHK18AHN	18 kW 3 Phase	42 – 60
EHK20AKF	20 kW Single Phase	42 – 60
EHK20AKB	20 kW Single Phase	42 – 60
EHK25AHCF	24 kW / 3 Phase (Field convertible to single phase)	48 – 60
EHK30AHCF	30 kW / 3 Phase (Field convertible to single phase)	48 – 60

All AKB Models are Circuit Breaker Models

ACCESSORIES

Disconnect Kit	EBAC01DSC	All Heaters 3 thru 10 kW
Downflow Base Kit	EBAC01NCB	EBP 2400
	EBAC02NCB	EBP 3600
	EBAC03NCB	EBP 4800, 6000
Downflow Conversion Kit	EBAC01DFS	Slope Coil 24, 36
	EBAC01DFS	A-Coil 48, 60
Single Point Wiring Kit	EBAC01SPK	Only with 15 & 20 kW fused heaters
Permanent Filter Kit (Box of 12)	EBAC01FKS	EBP 2400
	EBAC01FKM	EBP 3600
	EBAC01FKL	EBP 4800, 6000
Standard Filter Rack (12 x 20 x 1 filter required)	NASA00101FR	EBP 2400
Standard Filter Rack (16 x 20 x 1 filter required)	NASA00201FR	EBP 3600
Standard Filter Rack (20 x 20 x 1 filter required)	NASA00301FR	EBP 4800, 6000
No Heat Kit (Box of 6)	EBAC01PLG	All sizes
PVC Condensate Kit (50 pieces)	EBAC01CTK	All sizes
Horizontal Drain Pan Kit	EBAC01DPK	2400
	EBAC02DPK	3600
	EBAC03DPK	4800
	EBAC04DPK	6000
Horizontal/Downflow Gasket Kit	EBAC01GSK	All sizes
TXV – Bolt on R410A	EBAC05TXV	EBP 2400
	EBAC06TXV	EBP 3600
	EBAC07TXV	EBP 4800
	EBAC08TXV	EBP 6000
TXV – Bolt on R22	NAEA20101TX	EBP 2400, 3600
	NAEA20201TX	EBP 4800, 6000