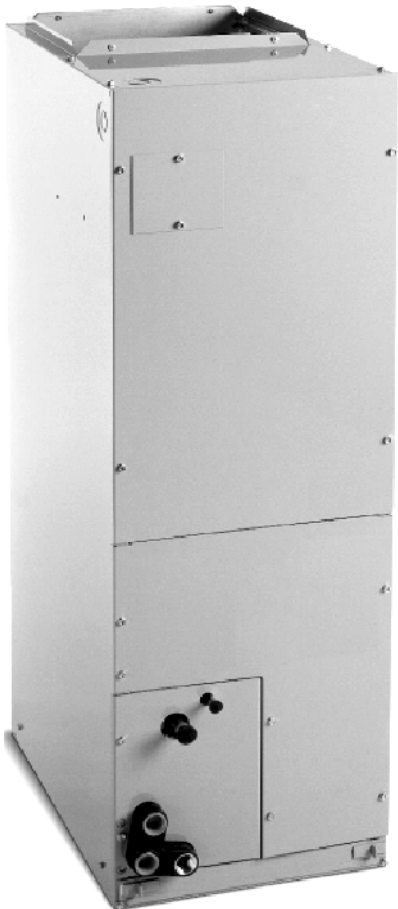


## 2 THRU 5 TONS SPLIT SYSTEM EBW 50 Hz Series



Representative photo only, some models may vary in appearance.

### FEATURES

- Grooved copper 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
- Inspection plate for cleaning A-coil design
- Prepainted galvanized steel cabinet
- Multiple electric entry
- 40-VA control power transformer
- Solid-state interlock control board
- 3-speed motor
- Easy access filter for cleaning - no tools required
- Cooling controls on every unit

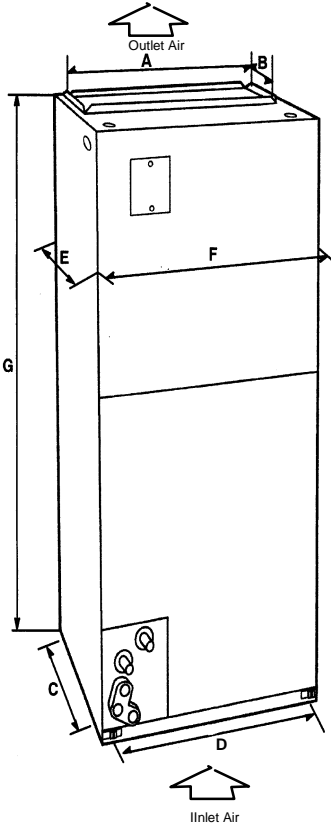
**PHYSICAL DATA**

EBW	1800	2400	3000	3600	4200	4800	6000
<b>COIL</b>							
Rows / Fins per inch	2 / 14.5	3 / 14.5	3 / 14.5	3 / 14.5	3 / 14.5	3 / 14.5	3 / 14.5
Face Area (Sq. Ft.)	2.23	2.23	2.97	2.97	3.46	4.45	5.93
Configuration	Slope	Slope	Slope	Slope	Slope	A	A
<b>FAN</b>							
CFM (Nominal)	600	800	1000	1200	1400	1600	2000
Motor HP (PSC)	1/5	1/4	1/3	1/3	1/2	3/4	3/4
Filter Size (inches)	21-1/2 x 13		21-1/2 x 16-3/8		21-1/2 x 19-7/8		
<b>WEIGHTS</b>							
Unit Weight (lbs.)	92	100	117	118	137	150	167
Shipping Weight (lbs.)	96	112	120	127	146	157	175
Unit Weight (kg.)	41.7	45.36	53.07	53.5	62.14	68.03	75.75
Shipping Weight (kg.)	43.5	50.8	54.4	57.6	66.2	71.2	79.38

**Figure 1**

**Unit Dimensions & Clearances**

EBW														
Unit Sizes	A-mm.	A-in.	B-mm.	B-in.	C-mm.	C-in.	D-mm.	D-in.	E-mm.	E-in.	F-mm.	F-in.	G-mm.	G-in.
1800	304.8	12-7/16"	279.4	11"	482.6	19-13/16"	304.8	12-5/16"	558.8	22-1/16"	355.6	14-5/16"	1066.8	42-11/16"
2400	304.8	12-7/16"	279.4	11"	482.6	19-13/16"	304.8	12-5/16"	558.8	22-1/16"	355.6	14-5/16"	1066.8	42-11/16"
3000	381	15-3/4"	279.4	11"	482.6	19-13/16"	381	15-5/8"	558.8	22-1/16"	431.8	17-5/8"	1193.8	47-11/16"
3600	381	15-3/4"	279.4	11"	482.6	19-13/16"	381	15-5/8"	558.8	22-1/16"	431.8	17-5/8"	1244.6	49-5/8"
4200	482.6	19-1/4"	279.4	11"	482.6	19-13/16"	482.6	19-1/8"	558.8	22-1/16"	533.4	21-1/8"	1346.2	53-7/16"
4800	482.6	19-1/4"	279.4	11"	482.6	19-13/16"	482.6	19-1/8"	558.8	22-1/16"	533.4	21-1/8"	1244.6	49-5/8"
6000	482.6	19-1/4"	279.4	11"	482.6	19-13/16"	482.6	19-1/8"	558.8	22-1/16"	533.4	21-1/8"	1346.2	53-7/16"



**WARNING**

**Fire Hazard**

When heaters are installed maintain clearances from combustible materials as specified on unit rating plate. Do not use plastic lined or combustible flexible ducting within 36 inches of the supply end of the air handler.

Failure to do so can result in fire, property damage, personal injury or death.

**CLEARANCES**

**NO HEATERS**

All Sides ..... 0"  
 From Supply Duct ..... 0"  
 Recommended Service From Front ..... 20"  
 (Service for blower, filter if installed)

**WITH HEATERS**

All Sides ..... 0"  
 From First Three Feet of Supply Duct to Combustibles ..... 1"  
 From Duct after Three Feet ..... 0"  
 Recommended Service From Front ..... 20"

## AIRFLOW PERFORMANCE (CFM)

Model and Size	Blower Motor Speed	EXTERNAL STATIC PRESSURE (IN. WC)				
		0.10	0.20	0.30	0.40	0.50
		230V	230V	230V	230V	230V
EBW1800	High	825	770	672	562	-
	Medium	736	678	573	-	-
	Low	631	579	-	-	-
EBW2400	High	791	731	643	504	-
	Medium	720	677	570	-	-
	Low	564	523	-	-	-
EBW3000	High	1100	1022	914	782	634
	Medium	980	910	815	680	-
	Low	880	818	720	-	-
EBW3600	High	1290	1210	1125	1030	928
	Medium	1122	1058	992	916	835
	Low	970	925	878	808	-
EBW4200	High	1466	1394	1312	1210	1012
	Medium	1296	1232	1152	1050	-
	Low	1082	1046	1000	930	-
EBW4800	High	1720	1622	1518	1400	1260
	Medium	1632	1535	1436	1330	1212
	Low	1510	1422	1334	1226	-
EBW6000	High	1876	1788	1696	1600	1496
	Medium	1702	1625	1548	1462	-
	Low	1422	1372	1322	-	-

### NOTES:

1. Airflow based upon dry coil at 230v with factory approved filter and electric heater ( 2 element heater sizes 1800 through 3600; 3 element heater, sizes 4200 through 6000).
2. Not recommended for use above 0.60 in. external static pressure.

**MINIMUM CFM AND MOTOR SPEED SELECTION**

FAN COIL SIZES	HEATER KW									
	3	5	8	9	10	15	18	20	24	30
1800	525	525	525	-	600*	-	-	-	-	-
2400	700	700	700	-	700	775*	-	-	-	-
3000	-	875	875	-	875	875	-	1060*	-	-
3600	-	1050	970	970	970	920	-	1040	-	-
4200	-	-	1225	1225	1225	1225	1225	1225	-	-
4800	-	-	1400	1400	1400	1400	1400	1400	1400	1400
6000	-	-	1750	1750	1750	1750	1750	1750	1750	1750

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

**FILTER STATIC PRESSURE DROP (IN. WC)**

UNIT SIZE	CFM									
	400	600	800	1000	1200	1400	1600	1800	2000	
1800	0.02	0.044	0.075	-	-	-	-	-	-	
2400	-	0.044	0.075	0.110	-	-	-	-	-	
3000	-	-	0.048	0.072	0.100	-	-	-	-	
3600	-	-	-	0.072	0.100	0.130	-	-	-	
4200	-	-	-	-	0.070	0.092	0.120	-	-	
4800	-	-	-	-	-	0.092	0.120	0.152	-	
6000	-	-	-	-	-	-	0.120	0.152	0.187	

**ELECTRIC HEATER STATIC PRESSURE DROP (IN. WC)**

1800 - 3600			4200 - 6000		
HEATER ELEMENTS	KW	EXTERNAL STATIC PRESSURE CORRECTION	HEATER ELEMENTS	KW	EXTERNAL STATIC PRESSURE CORRECTION
0	0	+0.02	0	0	+0.04
1	3, 5	+0.01	2	8, 10	+0.02
2	8, 10	0	3	9, 15	0
3	9, 15	-0.02	4	20	-0.02
4	20	-0.04	6	18, 24, 30	-0.10

The airflow performance data was developed using fan coils with 10-kw electric heaters (2 elements) in the 1800 through 3600 size units and 15-kw heaters (3 elements) in the 4200 through 6000 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.

**AIR DELIVERY PERFORMANCE CORRECTION PRESSURE DROP (IN. WC)  
AT INDICATED AIRFLOW (DRY-TO-WET COIL)**

UNIT SIZE	CFM										
	500	600	700	800	900	1000	1100	1200	1300	1350	
1800	0.023	0.034	0.044	-	-	-	-	-	-	-	
2400	0.035	0.051	0.066	0.080	0.091	-	-	-	-	-	
3000	-	-	-	0.051	0.063	0.073	0.081	-	-	-	
3600	-	-	-	-	-	0.073	0.081	0.091	0.098	0.102	

UNIT SIZE	CFM									
	1200	1300	1400	1500	1600	1700	1800	1900	2000	
4200	0.075	0.083	0.091	0.098	-	-	-	-	-	
4800	-	-	0.066	0.073	0.080	0.086	0.091	-	-	
6000	-	-	-	-	0.051	0.057	0.063	0.069	0.073	

**ACCESSORY 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
EHK05AKN11	5	3.8	1	None	18.1 / 20.0	-	-
EHK05AKN12	5	3.8	1	None	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	-	-

**ACCESSORY ELECTRIC HEATER ELECTRICAL DATA (CONT.)**

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
EHK05AKN11	26.0 / 28.4	-	-	10 / 10	-	-	10 / 10	-	-	30 / 30	-	-	66 / 66	-	-
EHK05AKN12	31.2 / 33.5	-	-	8 / 8	-	-	10 / 10	-	-	35 / 35	-	-	85 / 88	-	-
EHK05AKB1	26.0 / 28.4	-	-	10 / 10	-	-	10 / 10	-	-	30 / 30	-	-	66 / 66	-	-
EHK05AKB12	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 18- 36.
2. For fan coil sizes 42- 60.

## Electric Heater Usage

Model	Description	Use With
EHK05AKN	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	2-5 Ton
EHK15AKB	15 Kw Single Phase	2-5 Ton
EHK15AHN	15 Kw 3 Phase	2-5 Ton
EHK18AHN	18 Kw 3 Phase	3 1/2 - 5 Ton
EHK20AKF	20 Kw Single Phase	2 1/2 - 5 Ton
EHK20AKB	20 Kw Single Phase	2 1/2 - 5 Ton
EHK25AHCF	24 Kw / 3 Phase (Field convertible to single phase)	4 - 5 Ton
EHK30AHCF	30 Kw / 3 Phase (Field convertible to single phase)	4 - 5 Ton
<b>All AKB Models are Circuit Breaker Models</b>		

## ACCESSORIES

Disconnect Kit	EBAC01DSC	All Heaters 3 thru 10 KW
Downflow Base Kit	EBAC01NCB	18, 24
	EBAC02NCB	30, 36
	EBAC03NCB	42, 48, 60
	EBAC04NCB	60
Downflow Conversion Kit	EBAC01DFS	Slope Coil 18, 24, 30, 36, 42
	EBAC02DFA	A-Coil 48, 60
Single Point Wiring Kit	EBAC01SPK	Only with 15 & 20 KW fused heaters
Permanent Filter Kit (Box of 12)	EBAC01FKS	18, 24
	EBAC01FKM	30, 36
	EBAC01FKL	42, 48, 60
	EBAC01FKX	60
Power Plug Kit/Heat Block-off Plate (Box of 25)	EBAC01PLG	18 thru 60
PVC Condensate Kit	EBAC01CTK	All Sizes

### MODEL NUMBER IDENTIFICATION GUIDE

<b>MODEL NUMBER</b>  EB = Evaporator Blower	EB	W	24	00	A	1 = ENGINEERING CODE
						FEATURE CODE A = Multipoise  00 = No Heat Installed CE = CE Mark
<b>METERING DEVICE</b> P = Orifice Piston X = Expansion Valve V = Variable Speed W = 50 Hz. Export Models						<b>CAPACITY MBTUH</b> 24 = 24,000 30 = 30,000 36 = 36,000 42 = 42,000 48 = 48,000 60 = 60,000

### ACCESSORIES NUMBER IDENTIFICATION GUIDE

<b>MODEL NUMBER</b> EB = Evaporator Blower	EB	AC	01	NCB	A	SALES CODE
						PRODUCT IDENTIFIER PRODUCT IDENTIFIER NUMBER
AC = Accessory						<b>ACCESSORY PRODUCT IDENTIFIER ASSIGNMENT</b> NCB - Non Combustable Base    SPK - Single Point Wiring Kit    FKM - Filter Kit Medium DFK - Down Flow Kit            FKS - Filter Kit Small            FKL - Filter Kit Large PLG - Power Plug                  CTK - PVC Condensate Trap Kit    FKX - Filter Kit X-Large

### HEATER MODEL NUMBER IDENTIFICATION GUIDE

<b>MODEL NUMBER</b> EHK = Electric Heater Kit	EHK	05	A	K	N	1 Engineering Code Product Identifier
						<b>VOLTAGE</b>  K= 208/230 Single Phase H= 3 Phase KC= Single Phase Field Convertible to 3 Phase HC= 3 Phase Field Convertible to Single Phase
05= 5 Kw 07= 7 Kw 09= 9 Kw 10= 10 Kw 15= 15 Kw 18= 18 Kw 25= 25 Kw 30= 30 Kw						SALES CODE