



Representative photo only, some models may vary in appearance.

2 THRU 5 TONS SPLIT SYSTEM EBW 50 Hz Series

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

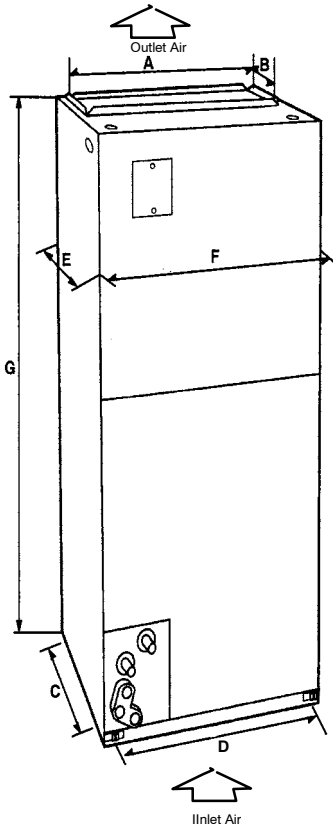
PHYSICAL DATA

EBW	1800	2400	3000	3600	4200	4800	6000
COIL							
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
FAN							
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		
WEIGHTS							
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		0.60	
		208V	230V	208V	230V	208V	230V	208V	230V	208V	230V	208V	230V
EBW1800	High	860	925	815	870	765	820	715	760	645	690	550	600
	Medium	650	740	625	705	585	660	545	620	480	555	385	450
	Low	565	650	535	620	500	590	460	545	405	480	330	385
EBW2400	High	945	975	900	930	840	870	780	805	695	725	560	595
	Medium	835	900	795	855	745	800	690	740	610	650	470	510
	Low	605	695	575	665	530	625	485	580	425	510	340	395
EBW3000	High	1260	1305	1200	1245	1135	1170	1065	1110	985	1015	880	900
	Medium	1055	1170	1020	1115	980	1055	930	1000	960	920	755	810
	Low	830	950	805	925	780	890	740	850	685	790	595	700
EBW3600	High	1485	1550	1425	1490	1365	1420	1300	1350	1230	1275	1150	1190
	Medium	1235	1380	1200	1325	1160	1265	1110	1210	1055	1140	985	1070
	Low	1035	1185	1010	1150	980	1115	940	1070	890	1010	825	935
EBW4200	High	1580	1710	1540	1655	1495	1595	1440	1530	1375	1445	1290	1355
	Medium	1400	1570	1375	1525	1350	1480	1305	1425	1255	1360	1175	1280
	Low	1195	1375	1180	1350	1165	1325	1135	1285	1085	1240	1020	1160
EBW4800	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
EBW6000	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

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	+.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 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		
					Single Circuit	Dual Circuit	
	230v	208v				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	-	-
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 Cir- cuit	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 18– 36.
2. For fan coil sizes 42– 60.

Electric Heater Usage		
Model	Description	Use With
EHK05AKN1	5 Kw Single Phase	All
EHK07AKN1	8 Kw Single Phase	All
EHK07AKB1	8 Kw Single Phase	All
EHK09AKCN1	9 Kw / Single Phase (Field convertible to 3 phase)	All
EHK10AKN1	10 Kw Single Phase	All
EHK10AKB1	10 Kw Single Phase	All
EHK15AKF1	15 Kw Single Phase	2-5 Ton
EHK15AKB1	15 Kw Single Phase	2-5 Ton
EHK15AHN1	15 Kw 3 Phase	2-5 Ton
EHK18AHN1	18 Kw 3 Phase	3 1/2 - 5 Ton
EHK20AKF1	20 Kw Single Phase	2 1/2 - 5 Ton
EHK20AKB1	20 Kw Single Phase	2 1/2 - 5 Ton
EHK25AHCF1	24 Kw / 3 Phase (Field convertible to single phase)	4 - 5 Ton
EHK30AHCF1	30 Kw / 3 Phase (Field convertible to single phase)	4 - 5 Ton
All AKB Models are Circuit Breaker Models		

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

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

ACCESSORIES NUMBER IDENTIFICATION GUIDE

EB		AC	01	NCB	A	
MODEL NUMBER EB = Evaporator Blower						SALES CODE
					PRODUCT IDENTIFIER	
AC = Accessory					PRODUCT IDENTIFIER NUMBER	
ACCESSORY PRODUCT IDENTIFIER ASSIGNMENT						
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

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