

Representative photo only, some models may vary in appearance.

1½ THRU 5 TONS SPLIT SYSTEM EBP / EBX / EBXX 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
- HUD approved for manufactured housing
- 40-VA, 208/230V transformer
- All models listed with UL, cUL, ARI, and RADCO

EBP MODEL FEATURES

- 1½ - 5 ton sizes available
- Piston metering device
- Optional field installed bolt-on TXV
- 2-speed motor in 018 through 036 sizes
- 3-speed motor in 042 through 060 sizes
- Multipoise design for maximum versatility
- Factory installed "No Heat" kit ("B" Models)
- Upflow only ("A" Models) Field installed horizontal kit available

EBX / EBXX MODEL FEATURES

- 1½ - 5 ton sizes in EBX, 2 - 5 ton sizes in EBXX
- Factory-installed TXV metering device (EBXX = R-410A TXV)
- Prepainted galvanized steel cabinet
- 3-speed motor on all sizes
- Factory-supplied, cleanable, permanent framed filter
- Multiple electric entry
- Factory installed horizontal drain pan



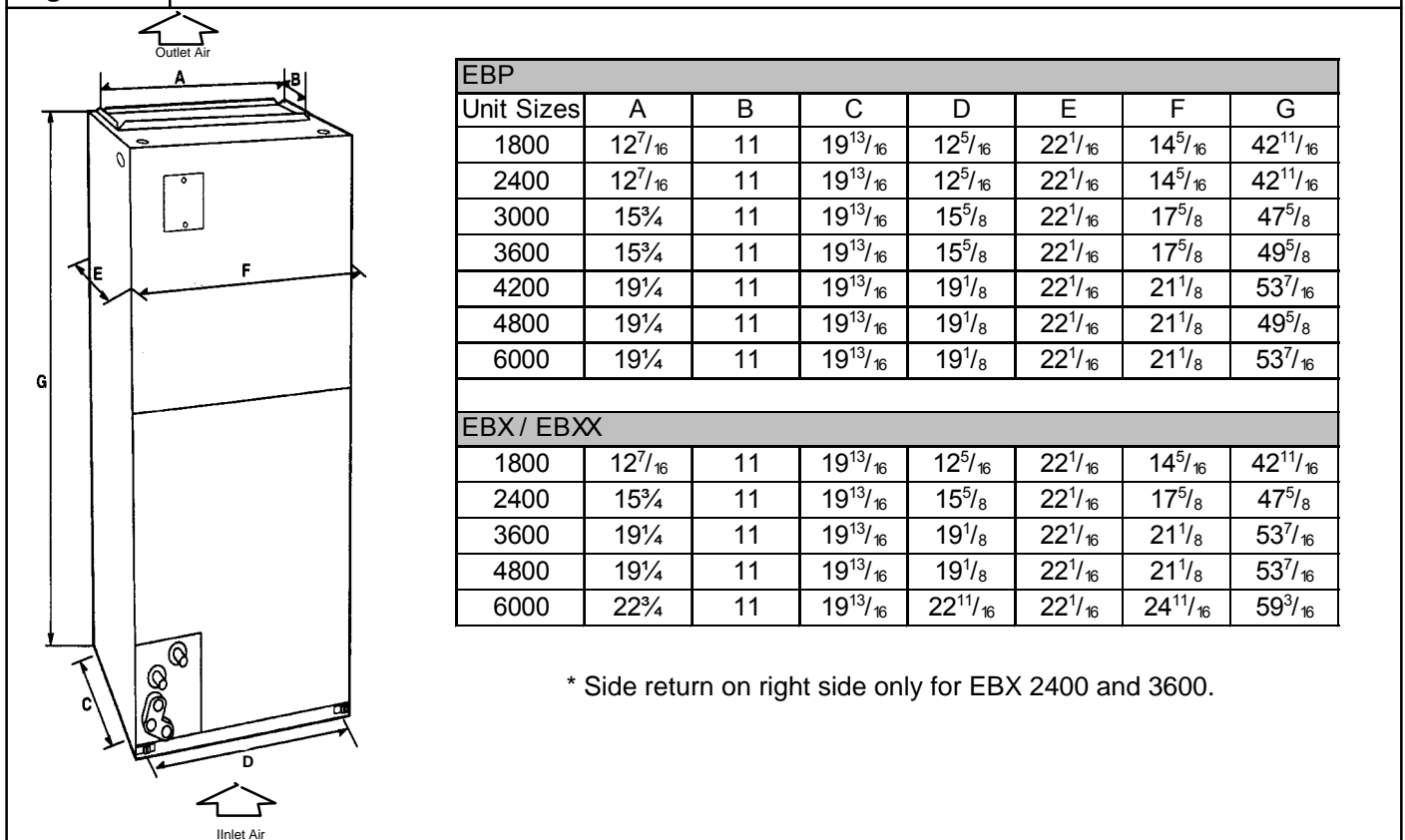
PHYSICAL DATA

EBP	1800	2400	3000	3600	4200	4800	6000
EBX / EBXX	1800	2400	-	3600	-	4800	6000
COIL							
Rows / Fins per inch	EBP	2 / 14.5	3 / 14.5	3 / 14.5	3 / 14.5	3 / 14.5	3 / 14.5
	EBX / EBXX	3 / 14.5	3 / 14.5	-	3 / 14.5	-	3 / 14.5
Face Area (Sq. Ft.)	EBP	2.23	2.23	2.97	2.97	3.46	5.93
	EBX / EBXX	2.97	2.97	-	3.46	-	7.42
Configuration		Slope	Slope	Slope	Slope	Slope	A
Line Sizes / Liquid (inch)		5/16	5/16	5/16	3/8	3/8	3/8
Line Sizes / Suction (inch)		3/4	3/4	3/4	7/8	7/8	7/8
FAN							
CFM (Nominal)	EBP	600	800	1000	1200	1400	2000
	EBX / EBXX	600	1000	-	1400	-	2000
Motor HP (PSC)	EBP	1/5	1/4	1/3	1/3	1/2	3/4
	EBX / EBXX	1/5	1/3	-	1/2	-	3/4
Filter Size (inches)	EBP	13 x 21½		16 ³ / ₈ x 21½		19 ⁷ / ₈ x 21½	
Filter Size (inches)	EBX / EBXX	13 x 21½	16 ³ / ₈ x 21½	-	19 ⁷ / ₈ x 21½	-	23 ⁵ / ₁₆ x 21½
WEIGHTS							
Unit Weight (lbs.)		92	100	117	118	137	150
Shipping Weight (lbs.)		96	112	120	127	146	175

UNIT SPECIFICATIONS - Using No Heat Kit

No Heat Model	Supply Circuit			Supply Circuit No.	Maximum Motor AMPS.	Total AMPS.	Branch Circuit Ampacity	Maximum Overcurrent Protective Device (AMPS.)	Recommended				
									Supply Wire 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

Figure 1 Unit Dimensions



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
EBP / EBX 1800	High	660	725	615	675	565	625	500	565	405	470	-	-
	Low	585	650	540	605	490	555	420	485	345	395	-	-
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
EBX / EBXX 2400	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
EBP3000	High	1075	1170	1030	1115	985	1055	920	990	850	910	750	805
	Low	825	960	810	935	790	890	750	845	690	780	590	680
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
EBX / EBXX 3600	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
EBP4200	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
EBP / EBX / EBXX 4800	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
EBP / EBX / EBXX 6000	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:

- Airflow based upon dry coil at 230V with factory approved filter and electric heater (2 element heater sizes 18 through 36, 3 element heater sizes 42 through 60).
- Not recommended for use above 0.60 inches water column external static pressure.

EBP Piston Sizes

EBP1800	.050
EBP2400	.056
EBP3000	.065
EBP3600	.070
EBP4200	.072
EBP4800	.076
EBP6000	.090

NOTES: All EBX & EBXX Models are equipped with a TXV (no piston)

MINIMUM CFM AND MOTOR SPEED SELECTION

FAN COIL SIZES	HEATER kW									
	3	5	8	9	10	15	18	20	24	30
18	525	525	525	-	600*	-	-	-	-	-
24	700	700	700	-	700	775*	-	-	-	-
30	-	875	875	-	875	875	-	1060*	-	-
36	-	1050	970	970	970	920	-	1040	-	-
42	-	-	1225	1225	1225	1225	1225	1225	-	-
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.

FILTER STATIC PRESSURE DROP (Inches Water Column)

UNIT SIZE	CFM									
	400	600	800	1000	1200	1400	1600	1800	2000	
18	0.02	0.044	0.075	-	-	-	-	-	-	
24	-	0.044	0.075	0.110	-	-	-	-	-	
30	-	-	0.048	0.072	0.100	-	-	-	-	
36	-	-	-	0.072	0.100	0.130	-	-	-	
42	-	-	-	-	0.070	0.092	0.120	-	-	
48	-	-	-	-	-	0.092	0.120	0.152	-	
60	-	-	-	-	-	-	0.120	0.152	0.187	

ELECTRIC HEATER STATIC PRESSURE DROP (Inches Water Column)

18 - 36			42 - 60		
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 18 through 36 size units and 15-kW heaters (3 elements) in the 042 through 060 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 (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
18	0.023	0.034	0.044	-	-	-	-	-	-	-
24	0.035	0.051	0.066	0.080	0.091	-	-	-	-	-
30	-	-	-	0.051	0.063	0.073	0.081	-	-	-
36	-	-	-	-	-	0.073	0.081	0.091	0.098	0.102

UNIT SIZE	CFM									
	1200	1300	1400	1500	1600	1700	1800	1900	2000	
42	0.075	0.083	0.091	0.098	-	-	-	-	-	
48	-	-	0.066	0.073	0.080	0.086	0.091	-	-	
60	-	-	-	-	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
EHK05AKN ₁	5	3.8	1	None	18.1 / 20.0	-	-
EHK05AKN ₂	5	3.8	1	None	18.1 / 20.0	-	-
EHK07AKN	8	6.0	1	None	28.9 / 32.0	-	-
EHK07AKB	8	6.0	1	Ckt Bkr	28.9 / 32.0	-	-
EHK09AKCN	9	6.8	1	None	32.8 / 36.0	-	-
EHK09AKCN†	9	6.8	3	None	18.8 / 20.8	-	-
EHK10AKN	10	7.5	1	None	36.2 / 40.0	-	-
EHK10AKB	10	7.5	1	Ckt Bkr	36.2 / 40.0	-	-
EHK15AKF	15	11.3	1	Fuse	54.2 / 59.9	36.2 / 40.0	18.1 / 20.0
EHK15AKB	15	11.3	1	Ckt Bkr	-	36.2 / 40.0	18.1 / 20.0
EHK15AHN	15	11.3	3	None	31.3 / 34.6	-	-
EHK18AHN	18	13.5	3	None	37.6 / 41.5	-	-
EHK20AKF	20	15.0	1	Fuse	72.3 / 79.9	36.2 / 40.0	36.2 / 40.0
EHK20AKB	20	15.0	1	Ckt Bkr	-	36.2 / 40.0	36.2 / 40.0
EHK25AHCF‡	24	18.0	3	Fuse	50.1 / 55.4	-	-
	24	18.0	1	Fuse	86.7 / 95.5	-	-
EHK30AHCF‡	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
EHK05AKN ₁	26.0 / 28.4	-	-	10 / 10	-	-	10 / 10	-	-	30 / 30	-	-	66 / 66	-	-
EHK05AKN ₂	31.2 / 33.5	-	-	8 / 8	-	-	10 / 10	-	-	35 / 35	-	-	85 / 88	-	-
EHK05AKB ₁	26.0 / 28.4	-	-	10 / 10	-	-	10 / 10	-	-	30 / 30	-	-	66 / 66	-	-
EHK05AKB ₂	31.2 / 33.5	-	-	8 / 8	-	-	10 / 10	-	-	35 / 35	-	-	85 / 88	-	-
EHK07AKN	44.7 / 48.5	-	-	8 / 8	-	-	10 / 10	-	-	45 / 50	-	-	59 / 60	-	-
EHK07AKB	44.7 / 48.5	-	-	8 / 8	-	-	10 / 10	-	-	45 / 50	-	-	59 / 60	-	-
EHK09AKCN	49.5 / 53.5	-	-	8 / 6	-	-	10 / 10	-	-	50 / 60	-	-	54 / 87	-	-
EHK09AKCN†	32.0 / 34.5	-	-	8 / 8	-	-	10 / 10	-	-	35 / 35	-	-	83 / 85	-	-
EHK10AKN	53.8 / 58.5	-	-	6 / 6	-	-	10 / 10	-	-	60 / 60	-	-	78 / 80	-	-
EHK10AKB	53.8 / 58.5	-	-	6 / 6	-	-	10 / 10	-	-	60 / 60	-	-	78 / 80	-	-
EHK15AKF	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
EHK15AKB	-	53.8/58.5	22.7/25.0	-	6 / 6	10 / 10	-	10 / 10	10 / 10	-	60 / 60	25 / 25	-	78 / 80	75 / 76
EHK15AHN	47.7 / 51.8	-	-	8 / 6	-	-	10 / 10	-	-	50 / 60	-	-	56 / 90	-	-
EHK18AHN	55.5 / 60.4	-	-	6 / 6	-	-	10 / 8	-	-	60 / 70	-	-	76 / 77	-	-
EHK20AKF	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
EHK20AKB	-	53.8/58.5	45.3/50.0	-	6 / 6	8 / 8	-	10 / 10	10 / 10	-	60 / 60	50 / 50	-	78 / 80	59 / 59
EHK25AHCF‡	71.2 / 77.8	-	-	4 / 4	-	-	8 / 8	-	-	80 / 80	-	-	94 / 95	-	-
	116.9/127.9	-	-	1 / 1	-	-	6 / 6	-	-	125 / 150	-	-	115 / 116	-	-
EHK30AHCF‡	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.

ACCESSORIES

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	EBP 1800, 2400 - EBX 1800
	EBAC02NCB	EBP 3000, 3600 - EBX / EBXX 2400
	EBAC03NCB	EBP 4200, 4800, 6000 - EBX / EBXX 3600 , 4800
	EBAC04NCB	EBX / EBXX 6000
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	EBP 1800, 2400 - EBX 1800
	EBAC01FKM	EBP 3000, 3600 - EBX / EBXX 2400
	EBAC01FKL	EBP 4200, 4800, 6000 - EBX / EBXX 3600 , 4800
	EBAC01FKX	EBX / EBXX 6000
No Heat Kit (Box of 6)	EBAC01PLG	18 thru 60
PVC Condensate Kit (50 pcs.)	EBAC01CTK	All Sizes
Horizontal Drainpan Kit EBP "A" Models	EBAC01DPK	18, 24
	EBAC02DPK	30, 36
	EBAC03DPK	42
	EBAC04DPK	48
	EBAC05DPK	60
Horizontal / Downflow Gasket Kit	EBAC01GSK	All Sizes

MODEL NUMBER IDENTIFICATION GUIDE (EBP)

MODEL NUMBER EB = Evaporator Blower	P	2400	A	1 = ENGINEERING CODE	
				FEATURE CODE A = Upflow Only B = Multipoise	
				CAPACITY 1800 = 18,000 BTUH 2400 = 24,000 BTUH 3000 = 30,000 BTUH 3600 = 36,000 BTUH 4200 = 42,000 BTUH 4800 = 48,000 BTUH 6000 = 60,000 BTUH	
METERING DEVICE P = Orifice Piston					

MODEL NUMBER IDENTIFICATION GUIDE (EBX)

MODEL NUMBER EB = Evaporator Blower	X	2400	A	1 = ENGINEERING CODE	
				SALES CODE	
				CAPACITY 1800 = 18,000 BTUH 2400 = 24,000 BTUH 3000 = 30,000 BTUH 3600 = 36,000 BTUH 4200 = 42,000 BTUH 4800 = 48,000 BTUH 6000 = 60,000 BTUH	
METERING DEVICE & REFRIGERANT X = Expansion Valve - R-22 XX = Expansion Valve - R-410A					

ACCESSORIES NUMBER IDENTIFICATION GUIDE

MODEL NUMBER EB = Evaporator Blower	AC	01	NCB	A	
				SALES CODE	
AC = Accessory				PRODUCT IDENTIFIER	
				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 EH = Electric Heater Kit	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	