

# BCE3E

## PRODUCT SPECIFICATIONS

## ENHANCED AIR HANDLER

FORM NO. BCE3E-100 (01/2017)



### APPLICATION

- 2 - 5 ton systems
- Upflow and horizontal
- Sequenced for demand management
- External access to heater circuit breakers

### INSTALLATION

- 1 Piece design for easier installation
- Multiposition - Upflow/Horizontal Left/Right
- Unit approved for installation in manufactured housing and mobile homes

### CABINET

- Foil faced insulation
- Painted, heavy-gauge galvanized cabinet
- Filter rack built into every air handler
- High-strength, UV- and heat-resistant plastic drain pan for corrosion resistance
- Microban® antimicrobial built in to drain pan to resist mold and mildew growth and fouling of the drain
- 2% or less air leakage

### COMPONENTS

- Efficient Constant Torque blower motors
- Standard transformer and blower relay
- Field-installed 2.5-20 kW electric heat kits with easy plug connections
- Built-in indoor time delay for increased efficiency
- Sleeves on distributor tubing to protect tubing

### ACCESSORIES

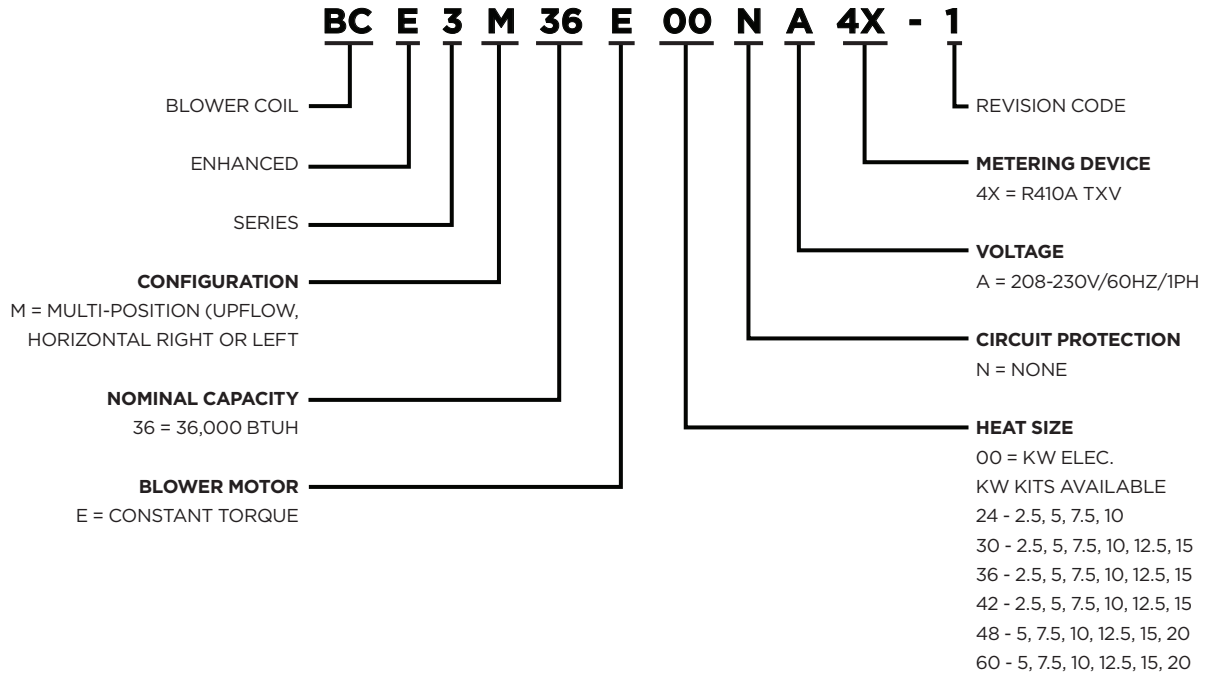
- Single point power kit

### WARRANTY

10-year limited parts warranty available when applied with a system. See limited warranty document for details.



**MODEL NUMBER GUIDE**



**PHYSICAL**

Model	Volts/Hz/Phase	Max. Elec. Heat Available (kW)	Transformer Size & Type	Filter Size (in.)	Refrigerant Connection (IDS)		Installed TXV Size	Weight (lbs.)
					Suction (in.)	Liquid (in.)		
BCE3M24E	208-230/60/1	10kW	40 VA Class 2	15 X 20	3/4	3/8	H4TXV01	122
BCE3M30E	208-230/60/1	15kW	40 VA Class 2	15 X 20	3/4	3/8	H4TXV01	125
BCE3M36E	208-230/60/1	15kW	40 VA Class 2	18 X 20	7/8	3/8	H4TXV02	160
BCE3M42E	208-230/60/1	15kW	40 VA Class 2	18 X 24	7/8	3/8	H4TXV03	162
BCE3M48E	208-230/60/1	20kW	40 VA Class 2	18 X 24	7/8	3/8	H4TXV03	185
BCE3M60E	208-230/60/1	20kW	40 VA Class 2	18 X 24	7/8	3/8	H4TXV03	185

**ELECTRICAL**

Unit	Elec. Heating Cap.		Blower Amps	Min. Circuit Ampacity				Circuit Breaker Size				Single Point Power Supply			
	kW	Btuh		208v		240v		208v		240v		Min. Circuit Amp.		Max. Fuse Size	
	240v	240v		1	2	1	2	1	2	1	2	208v	240v	208v	240v
<b>BCE3M24E</b>	0	0	4.1	-	-	-	-	15	-	15	-	-	-	-	-
	2.5	8600	4.1	16	-	18	-	20	-	20	-	-	-	-	-
	5	17100	4.1	28	-	31	-	30	-	35	-	-	-	-	-
	7.5	25600	4.1	39	-	44	-	40	-	45	-	-	-	-	-
	9	30700	4.1	46	-	52	-	50	-	60	-	-	-	-	-
<b>BCE3M30E</b>	0	0	4.1	-	-	-	-	15	-	15	-	-	-	-	-
	2.5	8600	4.1	16	-	18	-	20	-	20	-	-	-	-	-
	5	17100	4.1	28	-	31	-	30	-	35	-	-	-	-	-
	7.5	25600	4.1	39	-	44	-	40	-	45	-	-	-	-	-
	9	30700	4.1	46	-	52	-	50	-	60	-	-	-	-	-
	12.5	42700	4.1	43	19	48	22	45	20	50	25	61	70	70	70
15	51200	4.1	28	45	31	52	30	50	35	60	73	83	80	90	
<b>BCE3M36E</b>	0	0	4.1	-	-	-	-	15	-	15	-	-	-	-	-
	2.5	8600	4.1	16	-	18	-	20	-	20	-	-	-	-	-
	5	17100	4.1	28	-	31	-	30	-	35	-	-	-	-	-
	7.5	25600	4.1	39	-	44	-	40	-	45	-	-	-	-	-
	9	30700	4.1	46	-	52	-	50	-	60	-	-	-	-	-
	12.5	42700	4.1	43	19	48	22	45	20	50	25	61	70	70	70
15	51200	4.1	28	45	31	52	30	50	35	60	73	83	80	90	
<b>BCE3M42E</b>	0	0	6.0	-	-	-	-	15	-	15	-	-	-	-	-
	2.5	8600	6.0	19	-	21	-	20	-	25	-	-	-	-	-
	5	17100	6.0	30	-	34	-	30	-	35	-	-	-	-	-
	7.5	25600	6.0	41	-	47	-	45	-	50	-	-	-	-	-
	9	30700	6.0	48	-	54	-	50	-	60	-	-	-	-	-
	12.5	42700	6.0	45	19	51	22	45	20	60	25	64	73	70	80
15	51200	6.0	30	45	34	52	30	50	35	60	75	86	80	90	
<b>BCE3M48E</b>	0	0	6.0	-	-	-	-	15	-	15	-	-	-	-	-
	5	17100	6.0	30	-	34	-	30	-	35	-	-	-	-	-
	7.5	25600	6.0	41	-	47	-	45	-	50	-	-	-	-	-
	9	30700	6.0	48	-	54	-	50	-	60	-	-	-	-	-
	12.5	42700	6.0	45	19	51	22	45	20	60	25	64	73	70	80
	15	51200	6.0	30	45	34	52	30	50	35	60	75	86	80	90
20	68300	6.0	48	50	54	57	50	50	60	60	98	112	100	125	
<b>BCE3M60E</b>	0	0	6.0	-	-	-	-	15	-	15	-	-	-	-	-
	5	17100	6.0	30	-	34	-	30	-	35	-	-	-	-	-
	7.5	25600	6.0	41	-	47	-	45	-	50	-	-	-	-	-
	9	30700	6.0	48	-	54	-	50	-	60	-	-	-	-	-
	12.5	42700	6.0	45	19	51	22	45	20	60	25	64	73	70	80
	15	51200	6.0	30	45	34	52	30	50	35	60	75	86	80	90
20	68300	6.0	48	50	54	57	50	50	60	60	98	112	100	125	

1. For 208 volt use .751 correction factor for kW and Btuh
2. 12.5kW, 15 and 20kW (2 stage models) require 2 supply circuits
3. Circuit #1 includes blower motor amps except 15kW and 20kW models.

**BLOWER**

Model	Motor Size (hp)	Blower Size (in.)	Speed Tap	CFM @ ESP - in. W.C.				
				0.1	0.2	0.3	0.4	0.5
<b>BCE3M24E</b>	1/2	9 x 6	1	610	550	500	440	380
			2	690	650	590	550	490
			3	900	860	820	790	740
			4	970	920	890	850	820
			5	1180	1140	1110	1080	1040
<b>BCE3M30E</b>	1/2	10 x 8	1	830	640	380	280	100
			2	920	840	810	750	690
			3	1120	1070	1030	990	960
			4	1160	1110	1080	1030	1000
			5	1250	1210	1190	1150	1110
<b>BCE3M36E</b>	1/2	10 x 8	1	900	820	770	740	670
			2	1120	1070	1010	950	910
			3	1260	1220	1180	1120	1070
			4	1380	1350	1300	1260	1190
			5	1640	1590	1520	1450	1350
<b>BCE3M42E</b>	3/4	11 x 8	1	1220	1040	810	610	410
			2	1410	1260	1100	920	860
			3	1570	1440	1360	1300	1260
			4	1640	1520	1480	1440	1400
			5	1690	1640	1590	1550	1510
<b>BCE3M48E</b>	3/4	11.5 x 9	1	1440	1270	1080	860	790
			2	1650	1500	1410	1360	1310
			3	1750	1670	1610	1570	1520
			4	1810	1740	1700	1650	1620
			5	1940	1870	1820	1780	1740
<b>BCE3M60E</b>	3/4	12 x 9	1	1520	1380	1220	1070	1000
			2	1870	1830	1780	1740	1690
			3	1980	1940	1880	1840	1800
			4	1970	1920	1880	1830	1790
			5	2080	2030	1970	1930	1890

All data given while air handler is operating with a wet coil and without air filter installed.  
 Speed tap 1 to be used for continuous fan operation.  
 Speed tap 2 to be used for cooling speed of 1/2 ton smaller outdoor unit match.  
 Speed tap 3 to be used for cooling speed of nominal tonnage match.  
 Speed tap 4 to be used for heating speed for units with electric heat. This is the minimum speed for heating.  
 Speed tap 5 to be used for high static applications.

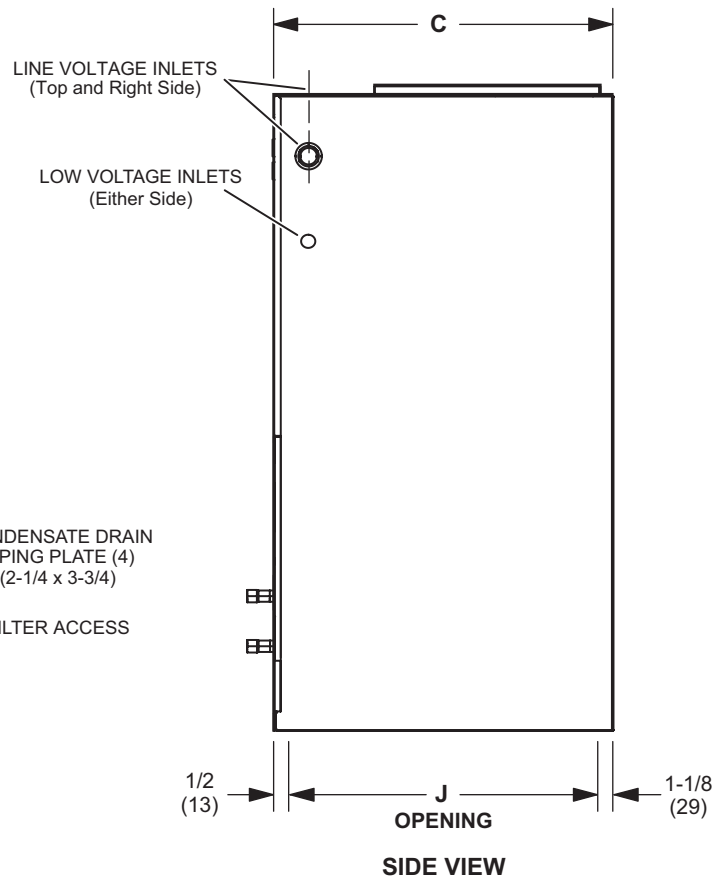
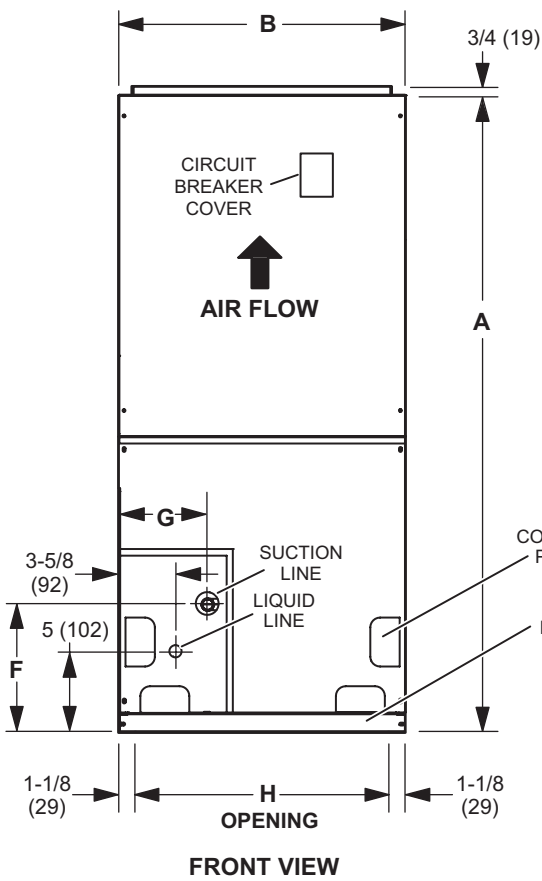
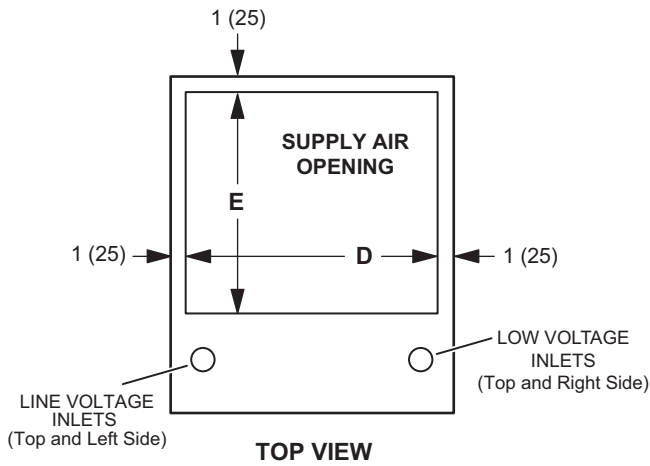
**ACCESSORIES**

DESCRIPTION	WHERE USED	KIT NUMBER
Counter Flow Kit	18	96W37
	24, 30	96W38
	36	97W95
	42, 48, 60	97W96
Single Point Power Kit	ALL BCE3E	21H39

**ELECTRIC HEAT KITS**

DESCRIPTION	WHERE USED	KIT NUMBER
ECB25-2.5-P 2.5 kW Electric Heater with Terminal Block	BCE3*24, 30, 36, 42	12R08
ECB25-5-P 5 kW Electric Heater with Terminal Block	BCE3*24, 30, 36, 42, 48, 60	12R45
ECB25-5CB-P 5 kW Electric Heater with Circuit Breaker	BCE3*24, 30, 36, 42, 48, 60	12R60
ECB25-7-P 7.5 kW Electric Heater with Terminal Block	BCE3*24, 30, 36, 42, 48, 60	12S08
ECB25-7CB-P 7.5 kW Electric Heater with Circuit Breaker	BCE3*24, 30, 36, 42, 48, 60	12R61
ECB25-10-P 9 kW Electric Heater with Terminal Block	BCE3*24, 30, 36, 42, 48, 60	12S59
ECB25-10CB-P 9 kW Electric Heater with Circuit Breaker	BCE3*24, 30, 36, 42, 48, 60	12S60
ECB25-12.5CB-P 12.5 kW Electric Heater with Circuit Breaker	BCE3*30, 36, 42, 48, 60	12S77
ECB25-15CB-P Electric Heater/15 kW	BCE3*30, 36, 42, 48, 60	12S87
ECB25-20CB-P Electric Heater/20 kW	BCE3*48, 60	12S88

**DIMENSIONS (IN.)**



Dimension	018		024		030		036		042		048-060	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
<b>A</b>	38	965	40-1/2	1029	43	1092	48	1219	48	1219	52-1/2	1334
<b>B</b>	15	381	18-1/2	470	18-1/2	470	21-7/8	556	21-7/8	556	21-7/8	556
<b>C</b>	22	559	22	559	22	559	22	559	26-1/4	667	26-1/4	667
<b>D</b>	13	330	16-1/2	419	16-1/2	419	19-7/8	505	19-7/8	505	19-7/8	505
<b>E</b>	14-1/2	368	14-1/2	368	14-1/2	368	14-1/2	368	18-3/4	476	18-3/4	476
<b>F</b>	8	203	8	203	8	203	8	203	9-1/4	235	9-1/4	235
<b>G</b>	5-5/8	143	5-5/8	143	5-5/8	143	5-5/8	143	4-1/2	114	4-1/2	114
<b>H</b>	12-3/4	324	16-1/4	413	16-1/4	413	19-5/8	498	19-5/8	498	19-5/8	498
<b>J</b>	20-3/8	518	20-3/8	518	20-3/8	518	20-3/8	518	24-5/8	625	24-5/8	625





1-800-448-5872

All specifications and illustrations subject to change without notice and without incurring obligations.