

COMPACT AIR HANDLER

FORM NO. BCE5C-100 (5/2022)

BCE5C







NOTE: For the latest AHRI system matches, please visit www.AHRIdirectory.org

APPLICATION

- 1 1/2 5 ton systems
- Sequenced for demand management
- External access to heater circuit breakers

INSTALLATION

- 1 piece design
- Smaller profile for tight application areas
- Multiposition Factory ready for upflow, downflow, and horizontal left/right applications
- Approved for installation in manufactured housing and mobile homes

CABINET

- Foil faced insulation for enhanced indoor air quality
- Double hemmed technology for increased structural rigidity
- · Improved gasketing on doors to prevent air leaks
- Filter rack with thumb screws for easy access and removal
- Polymer plugs on drain locations for easy installation
- Baked polyester paint finished over galvanized steel for maximum durability
- High-strength, UV and heat resistant polymer drain pan designed for corrosion resistance
- Antimicrobial polymer drain pan built to resist mold and mildew growth
- 2% or less air leakage

<u>COILS</u>

- Omniguard[™] total corrosion protection technology designed coil
- Enhanced tube-and-fin coil design featuring MHT[™] Technology
- · Lanced fins for maximum heat transfer
- Factory leak tested and pre-charged with nitrogen holding charge

COMPONENTS

- Efficient PSC blower motors (4 and 5 ton units utilize constant torque motor)
- Standard transformer and blower relay
- Field installed 5 20kW electric heat kits with easy plug connections
- Blower time delay for increased efficiency
- Sleeves on distributor tubing to protect tubes

WARRANTY

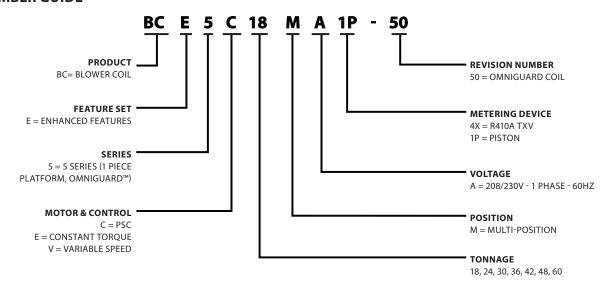
10 year limited warranty on all parts, extended warranty available*

*Warranty provides for a total of 10 years of limited warranty coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty). Warranty must be registered online within 60 days of installation to qualify for 10-year coverage. Unregistered equipment defaults to 5-year coverage. See full warranty at www.breeze33.com for terms, conditions, and exclusions.

ENHANCED AIR HANDLER

MODEL NUMBER GUIDE

BCE5C



PHYSICAL

Model	Volts/Hz/Phase	Max. Elec. Heat	Treast farmer of Circo & Trus o	Filter Cine (in)	Refrigerant Co	Weight	
Model	voits/Hz/Phase	Available (kW)	Transformer Size & Type	Filter Size (in.)	Suction (in.)	Liquid (in.)	(lbs.)
BCE5C18	208-230/60/1	7.5	40 VA Class 2	15X20	3/4	3/8	109
BCE5C24	208-230/60/1	10	40 VA Class 2	15X20	3/4	3/8	127
BCE5C30	208-230/60/1	15	40 VA Class 2	15X20	3/4	3/8	133
BCE5C36	208-230/60/1	15	40 VA Class 2	18X20	7/8	3/8	163
BCE5C42	208-230/60/1	15	40 VA Class 2	18x20	7/8	3/8	168
BCE5C48	208-230/60/1	20	40 VA Class 2	18x20	7/8	3/8	186
BCE5C60	208-230/60/1	20	40 VA Class 2	18x20	7/8	3/8	186

INSTALLATION CLEARANCES WITH ELECTRIC HEAT

Cabinet	0 in. (0 mm)
To Plenum	0 in. (0mm)
To Outlet Duct within 3 ft. (914mm)	0 in. (0 mm)
Floor	0 in. (0 mm) See Note #1
Service / Maintenance	See Note #2

1 Units installed on combustible floors in the downflow position with electric heat require optional downflow combustible flooring base.

2 Front service access - 24 in. (610 mm) minimum.

Note - If cabinet depth is more than 24 in. (610mm), allow a minimum of the cabinet depth plus 2 in. (51 mm).

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ENHANCED AIR HANDLER

ACCESSORIES

Description	Where Used	Kit Number
	18, 24, 30	12J18
TXV Kit	36, 42, 48	12J19
	60	12J20
Downflow Kit	18, 24, 30	Y9658
Downlow Kit	36, 42, 48, 60	Y9659
Downflow Combustible Floor Base Kit	18, 24, 30	12W95
	36, 42, 48, 60	12W96
Horizontal Support Frame kit	All Models	56J18
Side Return Unit Stand (upflow only)	All Models	45K32
Single Point Power Kit	All Models	21H39
Wall Hanging Bracket Kit (upflow only)	All Models	45K30
High Performance Economizer (Commercial Only)	All Models	10U53

ELECTRIC HEAT

Electric Heat Kits with Terminal Block											
Size	Model	C/B Size *	Where Used	Cat #							
5 kW	ECBA25-5	NA	18, 24, 30, 36, 42, 48, 60	16Y36							
7.5 kW	ECBA25-7.5	NA	18, 24, 30, 36, 42, 48, 60	16Y37							
10 kW	ECBA25-10	NA	18, 24, 30, 36, 42, 48, 60	16Y38							
Electric Heat Kits with Circuit Breaker											
5 kW	ECBA25-5CB	30A	18, 24, 30, 36, 42, 48, 60	16Y39							
7.5 kW	ECBA25-7.5CB	45A	18, 24, 30, 36, 42, 48, 60	16Y41							
10 kW	ECBA25-10CB	60A	18, 24, 30, 36, 42, 48, 60	16Y42							
12.5 kW	ECBA25-12.5CB	50A + 25A	30, 36, 42, 48, 60	16Y43							
15 kW	ECBA25-15CB	60A + 25A	30, 36, 42, 48, 60	16Y44							
20 kW	ECBA25-20CB	60A + 50A	48, 60	16Y46							
	Replace	ement Circuit Breakers (2 pole)								
Volts	Size		Cat #								
	25A		41K13								
	30A		17K70								
	35A		72K07								
208/240V- 1 phase	40A		49K14								
	45A		17K71								
	50A		41K12								
	60A		17K72								

* Circuit breaker must match rated "Max C/B Size"; replace breaker as necessary.

BCE5C **ELECTRICAL**

ENHANCED AIR HANDLER

	Heatin	g Capacity	(240V)		Min. Circuit Ampacity			Max. Circuit Breaker Size				Single Point Power Supply				
Model	Nominal Heater	kW	Btuh	Blower Amps		18V		0V		8V		0V	208			0V
	SizekW				1	2	1	2	1	2	1	2	Amps	Fuse	Amps	Fuse
	0	0	0		5		5		15		15					
BCE5C18	5	4.8	16400	1.1	23		26		25		30					
	7.5	7.5	25600		35		40		35		40					
	10	9.6	32700		45		51		45		60					
	0	0	0		5		5		15		15					
BCE5C24	5	4.8	16400	1.6	24		27		25		30					
DCLDC21	7.5	7.5	25600	1.0	36		41		40		45					
	10	9.6	32700		45		52		45		60					
	0	0	0		5.0		5		15		15					
	5	4.8	16400		24		28		25		30					
DCECCOO	7.5	7.5	25600		37		42		40		45					
BCE5C30	10	9.6	32700	2.2	46		53		50		60					
	12.5	12.5	42600		40	19	46	22	40	20	50	25	59	60	68	70
	15	14.4	49100]	46	22	53	25	50	25	60	25	68	70	78	80
BCE5C36 -	0	0	0	2	5		5		15		15					
	5	4.8	16400		24		28		25		30					
	7.5	7.5	25600		36		42		40		45					
	10	9.6	32700		46		53		50		60					
	12.5	12.5	42600		40	19	46	22	40	20	50	25	59	60	68	70
	15	14.4	49100		46	22	53	25	50	25	60	25	68	70	78	80
	0	0	0	- 2.5	5.0		5.0		15		15					
	5	4.8	16400		25		28		25		30					
	7.5	7.5	25600		37		42		40		45					
BCE5C42	10	9.6	32700		46		53		50		60					
	12.5	12.5	42600		41	19	47	22	45	20	50	25	60	60	68	70
	15	14.4	49100		46	22	53	25	50	25	60	25	68	70	78	80
	0	0	0		9.5		9.5		15		15					
	5	4.8	16400		31		35		35		35					
	7.5	7.5	25600		43		49		45		50					
BCE5C48	10	9.6	32700	7.6	53		60		60		60					
	12.5	12.5	42600		47	19	53	22	50	20	60	25	66	70	75	80
	15	14.4	49100		53	22	60	25	60	25	60	25	75	80	85	90
	20	19.2	65500		53	43	60	50	60	45	60	50	96	100	110	110
	0	0	0		9.5		9.5		15		15					
	5	4.8	16400	1	31		35		35		35					
	7.5	7.5	25600		43		49		45		50					
BCE5C60	10	9.6	32700	7.6	53		60		60		60					
5015000	12.5	12.5	42600		47	19	53	22	50	20	60	25	66	70	75	80
	12.5	14.4	42000		53	22	60	22	60	20	60	25	75	80	85	90
	20	14.4	65500	ł	53	43	60	50	60	45	60	50	96	100	110	110

1. For 208 volt use .751 correction factor for kW and Btuh

Circuit #1 includes blower motor amps except 20kW models

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BLOWER

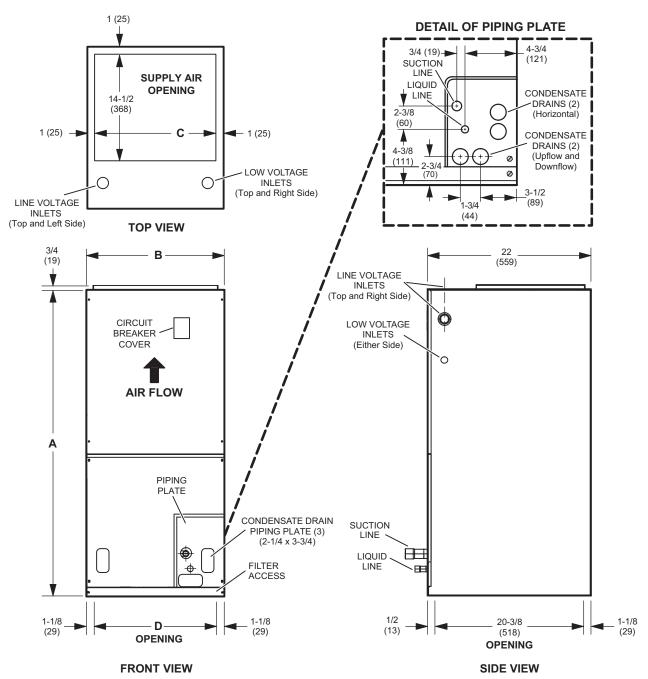
Model	Motor Size	Blower Size	Crossed Team	CFM @ ESP - in. W.C.						
wodei	(hp)	(in.)	Speed Tap	0.1	0.2	0.3	0.4	0.5		
			Low (Red)		525	505	470	420		
BCE5C18	1/5	9X6	Med (Blue)	690	670	640	605	550		
			High (Black)	920	880	855	790	710		
			Low (Red)	675	675	655	630	590		
BCE5C24	1/3	9X6	Med (Blue)	1010	980	940	805	740		
			High (Black)	1105	1045	1000	915	855		
			Low (Red)	870	870	855	810	770		
BCE5C30	1/2	10X8	Med (Blue)	1080	1055	1025	985	935		
			High (Black)	1310	1260	1255	1155	1085		
			Low (Red)	1020	970	955	910	805		
BCE5C36	1/3	10X8	Med (Blue)	1275	1240	1190	1150	1085		
			High (Black)	1560	1520	1445	1395	1325		
			Low (Red)	1300	1275	1250	1210	1155		
BCE5C42	1/2	10X8	Med (Blue)	1525	1495	1450	1390	1345		
			High (Black)	1815	1755	1695	1605	1530		
			Low (Green)	1250	1210	1185	1130	1110		
			Med-Low (Brown)	1500	1465	1435	1400	1360		
BCE5C48	1	12X10	Med (Yellow)	1715	1670	1635	1615	1575		
			Med-High (White)	1770	1735	1700	1670	1650		
			High (Black)	1895	1860	1835	1795	1760		
			Low (Green)	1100	1050	1000	925	830		
			Med-Low (Brown)	1625	1595	1565	1520	1490		
BCE5C60	1	12X10	Med (Yellow)	1815	1785	1760	1730	1685		
			Med-High (White)	1905	1870	1835	1810	1765		
			High (Black)	1980	1955	1925	1895	1860		

All data given while air handler is operating with a wet DX coil and air filter installed. Speeds marked in italics with an asterisk* are the factory settings for both heating and cooling. Cooling speeds should not be reduced below factory settings.

. Different speeds can be set for heating mode.

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UNIT DIMENSIONS - IN. (MM)



Dimension	18		24		30		36-42		48		60	
	in.	mm										
A	43.5	1105	45.5	1156	47	1194	53.63	1362	55	1397	59.75	1518
В	18.5	470	18.5	470	18.5	470	21.5	546	21.5	546	21.5	546
С	16.5	419	16.5	419	16.5	419	19.5	495	19.5	495	19.5	495
D	16.25	413	16.25	413	16.25	413	19.25	489	19.25	489	19.25	489

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