



Air Handlers BCS2

PRODUCT SPECIFICATIONS

- Minimum efficiency of 13 SEER when matched with appropriate outdoor models
- Available with factory installed thermal expansion valve
- Suitable for use with R-22 and R-410A refrigerants
- Upflow and Horizontal (Counterflow with optional kit)
- Pre-painted cabinets with foil faced insulation
- Electrical connections from top or right side of unit
- Microban® anti-microbial additive for drain pans resists mold and mildew growth which improves indoor air quality and reduces drain line blockage.
- Drain pans are also UV and heat resistant for corrosion protection
- Filter racks pre-installed
- Transformer and blower relay
- Indoor blower time delay for increased efficiency
- External access to electric heat circuit breaker (if equipped)
- Optional electric heat available from 5kW to 20kW ranges

13 SEER
1.5 to 5 Tons

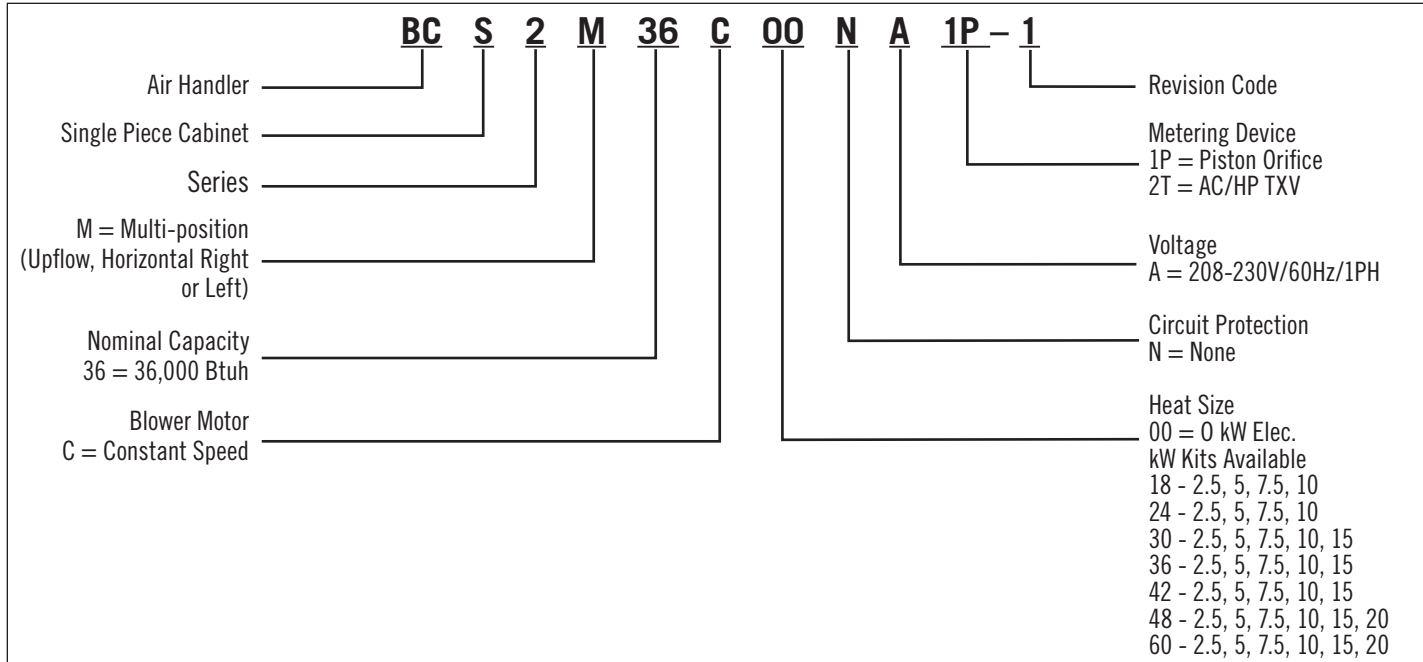


Warranty
Parts - 5 Year Limited

Air Handlers

BCS2

Model Number Identification



Specifications

Model No.	Volts/Hz/Phase	Max.Elec. Heat Available (kW)	Transformer Size & Type	Filter Size (in.)	Refrigerant Connection (IDS)		Florator Piston Size	Weight (lbs.)
					Suction (in.)	Liquid (in.)		
BCS2M18	208-230/60/1	10	40 VA, Class 2	(1) 16 x 20	3/4	3/8	0.051	129
BCS2M24	208-230/60/1	10	40 VA, Class 2	(1) 16 x 20	3/4	3/8	0.057	131
BCS2M30	208-230/60/1	15	40 VA, Class 2	(1) 18 x 20	7/8	3/8	0.065	148
BCS2M36	208-230/60/1	15	40 VA, Class 2	(1) 18 x 20	7/8	3/8	0.070	148
BCS2M42	208-230/60/1	15	40 VA, Class 2	(1) 18 x 25	7/8	3/8	0.076	172
BCS2M48	208-230/60/1	20	40 VA, Class 2	(1) 18 x 25	7/8	3/8	0.082	177
BCS2M60	208-230/60/1	20	40 VA, Class 2	(1) 18 x 25	7/8	3/8	0.090	190

Accessories

Description	Catalog No.	Usage
Counter-Flow Kit	12W61	All models
Single Point Power Source Kit	21H39	All models

Electric Heat Kits

Model Number	Description	Catalog Number	Used On
ECB26-5-P	5 kW with Terminal Block	99M64	BCS2 18, 24, 30, 36, 42, 48, 60
ECB26-5CB-P	5 kW with Circuit Breaker	99M65	BCS2 18, 24, 30, 36, 42, 48, 60
ECB26-7CB-P	7.5 kW with Circuit Breaker	99M66	BCS2 18, 24, 30, 36, 42, 48, 60
ECB26-7-P	7.5 kW with Terminal Block	99M67	BCS2 18, 24, 30, 36, 42, 48, 60
ECB26-10-P	10 kW with Terminal Block	99M68	BCS2 18, 24, 30, 36, 42, 48, 60
ECB26-10CB-P	10 kW with Circuit Breaker	99M69	BCS2 18, 24, 30, 36, 42, 48, 60
ECB26-15CB-P	15 kW with Circuit Breaker	99M70	BCS2 30, 36, 42, 48, 60
ECB26-20CB-P	20 kW with Circuit Breaker	99M71	BCS2 48, 60

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Blower Data

Model	Motor Size (hp)	Blower Size (in.)	CFM vs. External Static Pressure (in. w.c.)					
			Speed	.10	.20	.30	.40	.50
BCS2M18	1/4	10 x 6	¹ Low (Red)	720	700	660	610	520
			Med (Blue)	1000	930	840	710	630
			High (Black)	1040	960	870	780	660
BCS2M24	1/4	10 x 6	Low (Red)	720	700	660	610	520
			¹ Med (Blue)	1000	930	840	710	630
			High (Black)	1040	960	870	780	660
BCS2M30	1/4	10 x 6	Low (Red)	930	920	890	840	740
			¹ Med (Blue)	1060	1040	1010	950	840
			High (Black)	1290	1270	1210	1150	1040
BCS2M36	1/3	11 x 8	¹ Low (Red)	1140	1120	1110	1080	1000
			Med (Blue)	1350	1350	1320	1260	1090
			High (Black)	1490	1470	1420	1340	1250
BCS2M42	1/2	11 x 8	Low (Red)	1605	1540	1475	1405	1300
			¹ Med (Blue)	1705	1635	1565	1480	1375
			High (Black)	1805	1750	1665	1545	1415
BCS2M48	1/2	11 x 8	Low (Red)	1745	1700	1640	1565	1450
			¹ Med (Blue)	2160	1945	1825	1700	1580
			High (Black)	2180	2110	1920	1770	1640
BCS2M60	1/2	11-1/2 x 8	Low (Red)	1735	1710	1690	1645	1505
			¹ Med (Blue)	2080	2040	1970	1855	1715
			High (Black)	2275	2185	2090	1960	1840

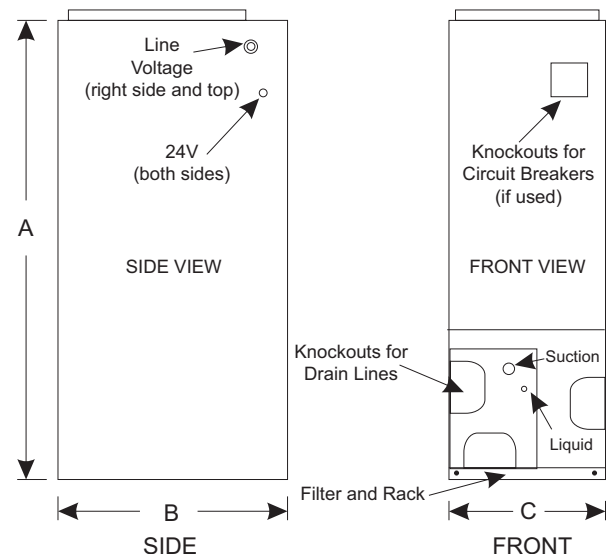
¹ Factory setting - All models.

NOTE - Air data measured with wet coil and filter installed.

NOTE - Cooling speeds should not be reduced below factory setting. Different speeds can be used for heating.

Dimensions (in.)

Model No.	A	B	C	Supply Duct Opening		Return Duct Opening	
				Depth	Width	Depth	Width
BCS2M18 BCS2M24	46-3/4	22	18-1/2	17	16-1/2	20-1/4	16
BCS2M30 BCS2M36	51	22	21-1/4	17	19-1/4	20-1/4	18-3/4
BCS2M42 BCS2M48	54	26	21-1/4	21	19-1/4	24-1/4	18-3/4
BCS2M60	60	26	21-1/4	21	19-1/4	24-1/4	18-3/4



Air Handlers

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Electrical / Electric Heat Data

Air Handler Size	Elec. Heating Capacity		Blower Amps		2, 3 Total Amps Per Circuit				Total Unit Amps		Circuit Breaker Amps Per Stage	
	kW	BTUH	208v	240v	208v		240v		208v	240v	1	2
	¹ 240v	¹ 240v			1	2	1	2				
18 & 24 (No Heat)	0	0	1.5	1.4	---	---	---	---	1.5	1.4	15	---
18 & 24	5	17,100	1.5	1.4	19.5	---	22.2	---	19.5	22.2	30	---
18 & 24	7.5	25,600	1.5	1.4	28.6	---	32.7	---	28.6	32.7	45	---
18 & 24	10	34,100	1.5	1.5	37.6	---	43.1	---	37.6	43.1	60	---
30 (No Heat)	0	0	1.6	1.5	---	---	---	---	1.6	1.5	15	---
30	5	17,100	1.6	1.5	19.6	---	22.3	---	19.6	22.3	30	---
30	7.5	25,600	1.6	1.5	28.7	---	32.8	---	28.7	32.8	45	---
30	10	34,100	1.6	1.5	37.7	---	43.2	---	37.7	43.2	60	---
30	15	51,200	1.6	1.5	37.7	18.1	43.2	20.8	55.7	64.0	60	30
36 (No Heat)	0	0	1.8	1.7	---	---	---	---	1.8	1.7	15	---
36	5	17,100	1.8	1.7	19.8	---	22.5	---	19.8	22.5	30	---
36	7.5	25,600	1.8	1.7	28.9	---	33.0	---	28.9	33.0	45	---
36	10	34,100	1.8	1.7	37.9	---	43.4	---	37.9	43.4	60	---
36	15	51,200	1.8	1.7	37.9	18.1	43.4	20.8	56.0	64.2	60	30
42 (No Heat)	0	0	1.9	1.8	---	---	---	---	1.9	1.8	15	---
42	5	17,100	1.9	1.8	20.0	---	22.6	---	20.0	22.6	30	---
42	7.5	25,600	1.9	1.8	29.0	---	33.1	---	29.0	33.1	45	---
42	10	34,100	1.9	1.8	38.0	---	43.5	---	38.0	43.5	60	---
42	15	51,200	1.9	1.8	38.0	18.1	43.5	20.8	56.1	64.3	60	30
48 (No Heat)	0	0	2.6	2.5	---	---	---	---	2.6	2.5	15	---
48	5	17,100	2.6	2.5	20.7	---	23.3	---	20.7	23.3	30	---
48	7.5	25,600	2.6	2.5	29.7	---	33.8	---	29.7	33.8	45	---
48	10	34,100	2.6	2.5	38.7	---	44.2	---	38.7	44.2	60	---
48	15	51,200	2.6	2.5	38.7	18.1	44.2	20.8	56.8	65.0	60	30
48	20	68,300	2.6	2.5	38.7	36.1	44.2	41.7	74.9	85.8	60	60
60 (No Heat)	0	0	4.1	3.9	---	---	---	---	4.1	3.9	15	---
60	5	17,100	4.1	3.9	22.2	---	24.7	---	22.2	24.7	30	---
60	7.5	25,600	4.1	3.9	31.2	---	35.2	---	31.2	35.2	45	---
60	10	34,100	4.1	3.9	40.2	---	45.6	---	40.2	45.6	60	---
60	15	51,200	4.1	3.9	40.2	18.1	45.6	20.8	58.3	66.4	60	30
60	20	68,300	4.1	3.9	40.2	36.1	45.6	41.7	76.3	87.2	60	60

¹ For 208 volt use .751 correction factor for kW & BTUH.

² 15 and 20 kW (2 stage models) require two supply circuits.

³ Circuit #1 includes blower motor amps.



1.800.982.2333
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