



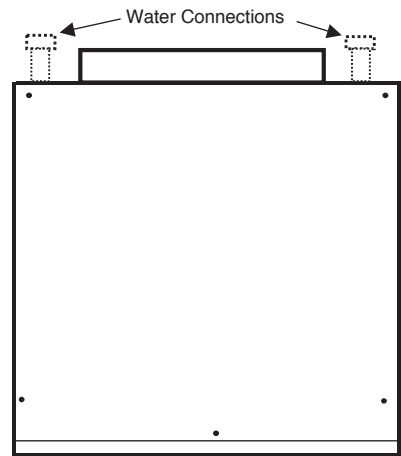
BCW Series - Vertical Air Handler (Water Heat Only) Engineering & Specification Guide

Available Models

BCWV00025S3N3 without pump assembly
 BCWV00037S4N3 without pump assembly
 BCWV00025S3P3 with pump assembly
 BCWV00037S4P3 with pump assembly

Features

- 120 Volt
- High efficiency 3-Speed Motors.
- 40 VA control voltage transformer.
- Dynamically balanced blowers for quiet vibration free operation.
- Easy to follow wiring diagrams on all air handlers.
- Cabinet constructed of pre-painted heavy gauge galvanized steel to prevent corrosion.
- Cabinet lined with high quality 1" mat faced insulation.
- All air handlers are top handling packaged with bar coding and full description on label.
- Electrical connections can be made on right or left side.
- Blower door safety switch
- Pump assembly includes pump, check, and drain valve



Dimensions

Unit Size	Height	Depth	Width	Water Conn.	Supply Duct Opening		Return Duct Opening	
					Depth	Width	Depth	Width
25	26"	22"	18 1/2"	7/8" ODF	17"	17"	17 1/4"	14"
37	29"	26"	20"	1 1/8" ODF	21"	18 1/2"	22"	15 3/4"

Electrical Data (120 V, 60 Hz, 1 Phase)

Physical Data

Air Handler Size	Blower Amps	Total Unit Amps
	120 V	120 V
25	3.7	4.2
37	5.6	6.1

		Air Handler Size	
		25	37
Three-Speed Motor Blower Data	Wheel (dia. x width)	10" X 8"	
	Motor H. P.	1/4	1/2
	F. L. A. @ 120 V	3.7	5.6
	Nominal CFM	800	1200
Air Filter Size		16" X 20"	18" X 25"
Weight (lbs.)		95	109

Amperage includes circulator. If circulator is not factory installed, blower amperage is total amperage.

Water Heating Capacity (BTUH)

Unit Size 25

Water Coil Size	ENT. WATER TEMP.	2 GPM				3 GPM				4 GPM			
		H ₂ O P.D. in FT	CFM			H ₂ O P.D. in FT	CFM			H ₂ O P.D. in FT	CFM		
			800	1000	1200		800	1000	1200		800	1000	1200
3 ROW	120°F	0.6	21,309	22,783	24,190	1.3	24,501	26,156	28,137	2.2	25,648	28,187	30,578
	140°F	0.6	30,857	32,261	34,255	1.3	35,209	36,982	39,809	2.2	37,782	39,801	43,208
	160°F	0.6	40,001	41,866	44,472	1.3	45,588	47,928	51,621	2.2	48,871	51,526	55,970
	180°F	0.6	49,220	51,564	54,794	1.3	56,037	58,963	63,537	2.2	60,023	63,331	68,827

Unit Size 37

Water Coil Size	ENT. WATER TEMP.	3 GPM				4 GPM				5 GPM			
		H ₂ O P.D. in FT	CFM			H ₂ O P.D. in FT	CFM			H ₂ O P.D. in FT	CFM		
			1000	1100	1200		1000	1100	1200		1000	1100	1200
4 ROW	120°F	1.0	33,478	34,963	36,329	1.7	36,193	38,058	39,751	2.5	37,946	40,069	42,015
	140°F	1.0	47,246	49,386	51,301	1.7	51,024	53,674	56,080	2.5	53,450	56,462	59,224
	160°F	1.0	61,139	63,925	66,420	1.7	65,969	69,416	72,548	2.5	69,055	72,970	76,562
	180°F	1.0	75,121	78,563	81,645	1.7	80,995	82,250	89,117	2.5	84,734	89,561	93,993

All capacities are based on 70°F entering air temperature.

For entering air temperatures other than 70°F use the following capacity correction factors.

(72°F x .982), (68°F x 1.02), (66°F x 1.04)

Glycol correction factors: (10% X .98), (20% X .95), (30% X .92), (40% X .88)

Air Handler Blower Performance

Size	Speed	Water Coil	CFM vs. ESP inches WC				
			.10	.20	.30	.40	.50
25	Low	3 row	667	664	644	635	610
	Med		878	873	864	847	825
	High		998	1,002	998	978	958
37	Low	4 row	1,072	1,011	947	926	903
	Med		1,294	1,220	1,144	1,118	1,091
	High		1,304	1,286	1,250	1,210	1,168

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