

Benson

Hydronic Ducted - Medium Static

Benson Chilled Water

Technical Specifications

		Model									
		BENCW 1P DM 24 R	BENCW 1P DM 33 R	BENCW 1P DM 41 R	BENCW 1P DM 51 R	BENCW 1P DM 67 R	BENCW 1P DM 82 R	BENCW 1P DM 101 R	BENCW 1P DM 118 R	BENCW 1P DM 152 R	BENCW 1P DM170 R
Power Supply		220V-240V / 50H / 1ph									
Max input Power	W	100	150	150	300	300	444	778	778	1000	1222
Max. Current*	A	0.5	0.7	0.7	1.4	1.4	2	3.5	3.5	4.5	5.6
Total Cooling Capacity High Fan Speed**	3 Rows (Btu / h)	8075	11100	14000	17300	23000	29000	35500	41500	51900	58200
	3 Rows (W)	2370	3250	4100	5070	6740	8260	10110	11800	15200	17050
	4 Rows (Btu / h)	10748	13900	17400	21800	28500	36200	44000	51300	58100	65000
	4 Rows (W)	3150	4070	5100	6390	8350	10280	12510	4590	17020	19040
Sensible Cooling Capacity High Fan Speed	3 Rows (Btu / h)	6177	8400	10600	13000	17000	21000	25500	29700	38100	42600
	3 Rows (W)	1810	2460	3100	3810	4980	6150	7470	8700	11160	12840
	4 Rows (Btu / h)	7388	10000	12500	15400	20200	25000	30200	35200	42600	47600
	4 Rows (W)	2160	2930	3660	4510	5920	7320	8850	10310	12840	13940
Nominal Airflow Rate High Fan Speed	Cfm	300	300	300	620	800	1060	1180	1410	1820	2020
	L / s	142	190	240	290	375	500	560	670	860	950
External Static Pressure	Pa	Nominal 75Pa									
Cooling Coil	Fin Height (Inch)	8	8	10	8	10	12	12	14	14	16
	Fin Height (mm)	203	203	254	203	254	305	305	356	356	406
	Fin Length (Inch)	20	24	24	34	34	36	42	42	48	48
	Fin Length mm	510	610	610	864	864	914	1067	1067	1219	1219
	Face Area (ft ²)	1.11	1.33	1.67	1.89	2.36	3	3.50	4.08	4.67	5.33
	Face Area (m ²)	0.1	0.12	0.15	0.18	0.22	0.28	0.33	0.38	0.43	0.5
	Max. Working Pressure		2MPa - 20 KG / cm ²								
Fan	Type	Forward Multi-vane Centrifugal Ventilator Direct Drive									
	Model / Qty	6" x 8" / 1	7" x 8" / 1	7" x 8" / 2		8" x 7 1/2" / 1	8" x 7 1/2" / 2		8" x 7 1/2" / 2		
Motor	Type	Multispeed Asynchronous Motor									
	Qty	1	1	1	1	1	1	1	1	1	1
	Output Power***	40	60	80	120	120	130	200	200	350	350
Noise Level****	Low (dB(A))	<37	<37	<37	<38	<38	<39	<41	<41	<42	<42
	Medium (dB(A))	<38	<38	<38	<39	<39	<40	<42	<42	<44	<44
	High (dB(A))	<40	<40	<40	<41	<41	<43	<44	<44	<46	<46
Coil Circuits	1 Row	4	4	5	4	5	6	6	7	7	8
	2 Rows	4	4	5	4	5	6	6	7	7	8
	3 Rows	4	4	5	4	5	6	6	7	7	8
	4 Rows	4	4	5	4	5	6	6	7	14	16
Chilled Water Connection Pipe	1 Row, 2 Rows & 3 Rows	1/2" FPT - 3/4" MPT					3/4" FPT - 1" MPT				
	4 Rows	1/2" FPT - 3/4" MPT					3/4" FPT - 1" MPT				
Drain Pipe	Inch	G3 / 4									
Dimension***** L x D x H	Net mm	820 x 590 x 315	920 x 590 x 315	1170 x 590 x 315		1220 x 742 x 416		1370x742x410		1523 x 742 x 470	
	Packing mm	850 x 600 x 325	950 x 600 x 325	1200 x 600 x 325		1345 x 755 x 420		1400x755x420		1550 x 755 x 480	
Net Weight	2 Rows (KG)	24.2	29.2	29.7	35.3	38.5	44.1	54.9	58.5	68.9	72.8
	3 Rows (KG)	25.3	30.2	31	37.1	40.8	46.8	58.1	62	72.9	77.3
	4 Rows	26.7	31.2	32.3	38.9	43.1	49.5	61.3	65.5	76.9	81.8

*The currents are at the voltage of 230V

** Air Entering temperature DB / WB 27 / 19° C, Chilled water Entering at 7° C and Leaving at 12° C

***The Motor Output Power may be revised according to the actual external static pressure drop.

****Noise Level is tested 1 metre away from the air outlet point in ARI standard acoustic room - with Ducted fitted noise will be reduced

***** The Dimension of the unit excluding drain tray were measured

Disclaimer The information in this brochure was deemed correct at time of printing April 2009 however may be subject to change. Benson Airconditioning reserves the right to discontinue or vary products and offer without notice.