

VBC CONCEALED FLOOR

2-PIPE SYSTEM							
Model	2 Rows Cooling (1)				2 Rows Heating (1)		
	Total MBH	Sensible MBH	Flow gpm	PD ft wg	Sensible MBH	Flow gpm	PD ft wg
VBC02	4.1	3.5	0.8	0.33	13.8	0.9	0.34
VBC03	5.6	4.6	1.1	0.66	18.0	1.2	0.62
VBC04	7.9	6.3	1.6	1.47	24.4	1.7	1.26
VBC06	11.1	9.3	2.2	0.83	36.5	2.5	0.90
VBC08	14.4	11.5	2.9	1.52	44.3	3.0	1.45
VBC10	19.1	14.8	3.8	2.95	56.5	3.9	2.60
VBC12	21.9	17.5	4.4	2.06	67.8	4.6	2.10

4-PIPE SYSTEM							
Model	2 Rows Cooling				1 Row Heating		
	Total MBH	Sensible MBH	Flow gpm	PD ft wg	Sensible MBH	Flow gpm	PD ft wg
VBC02	3.9	3.3	0.8	0.31	7.7	0.5	0.41
VBC03	5.4	4.4	1.1	0.63	10.0	0.7	0.76
VBC04	7.6	6.1	1.5	1.36	13.6	0.9	1.53
VBC06	10.7	8.9	2.1	0.76	21.2	1.4	4.76
VBC08	13.7	10.9	2.7	1.39	25.8	1.8	8.21
VBC10	18.4	14.2	3.7	2.76	32.8	2.2	15.46
VBC12	21.0	16.7	4.2	1.91	40.0	2.7	26.00

2-PIPE SYSTEM							
Model	3 Rows Cooling				3 Rows Heating		
	Total MBH	Sensible MBH	Flow gpm	PD ft wg	Sensible MBH	Flow gpm	PD ft wg
VBC02	5.9	4.5	1.2	1.01	18.1	1.2	0.84
VBC03	8.0	5.9	1.6	1.99	23.4	1.6	1.55
VBC04	11.2	8.2	2.2	4.26	31.8	2.2	3.14
VBC06	16.1	12.1	3.2	2.21	47.8	3.3	1.95
VBC08	20.3	14.8	4.0	3.89	57.6	3.9	3.14
VBC10	24.6	18.2	4.9	2.93	71.9	4.9	2.67
VBC12	31.0	22.6	6.2	4.97	88.0	6.0	4.27

4-PIPE SYSTEM							
Model	3 Rows Cooling				1 Row Heating		
	Total MBH	Sensible MBH	Flow gpm	PD ft wg	Sensible MBH	Flow gpm	PD ft wg
VBC02	5.7	4.3	1.1	0.94	7.4	0.5	0.39
VBC03	7.6	5.6	1.5	1.81	9.7	0.7	0.72
VBC04	10.7	7.8	2.1	3.90	13.0	0.9	1.46
VBC06	15.4	11.5	3.1	2.03	20.4	1.4	4.50
VBC08	19.4	14.0	3.9	3.57	24.8	1.7	7.73
VBC10	23.5	17.3	4.7	2.69	31.4	2.1	14.44
VBC12	29.6	21.4	5.9	4.56	38.3	2.6	24.40

2-PIPE SYSTEM							
Model	4 Rows Cooling				4 Rows Heating		
	Total MBH	Sensible MBH	Flow gpm	PD ft wg	Sensible MBH	Flow gpm	PD ft wg
VBC02	7.2	5.1	1.4	1.97	20.1	1.4	1.39
VBC03	9.6	6.7	1.9	3.78	26.0	1.8	2.55
VBC04	11.7	8.6	2.3	1.19	34.7	2.4	1.05
VBC06	19.5	13.7	3.9	3.95	53.5	3.7	2.97
VBC08	24.2	16.6	4.8	6.77	64.0	4.4	4.75
VBC10	29.7	20.6	5.9	4.94	80.2	5.5	3.87
VBC12	37.0	25.4	7.4	8.31	97.9	6.7	6.19

4-PIPE SYSTEM							
Model	4 Rows Cooling				1 Row Heating		
	Total MBH	Sensible MBH	Flow gpm	PD ft wg	Sensible MBH	Flow gpm	PD ft wg
VBC02	6.9	4.8	1.4	1.78	7.1	0.5	0.37
VBC03	9.1	6.3	1.8	3.39	9.2	0.6	0.68
VBC04	11.1	8.1	2.2	1.07	12.4	0.9	1.36
VBC06	18.5	12.9	3.7	3.57	19.4	1.3	4.22
VBC08	22.9	15.6	4.6	6.11	23.6	1.6	7.21
VBC10	28.0	19.4	5.6	4.43	30.0	2.0	13.43
VBC12	34.9	23.9	7.0	7.42	36.6	2.5	22.65

2-PIPE SYSTEM							
Model	5 Rows Cooling				5 Rows Heating		
	Total MBH	Sensible MBH	Flow gpm	PD ft wg	Sensible MBH	Flow gpm	PD ft wg
VBC02	8.0	5.4	1.6	2.97	20.8	1.4	1.86
VBC03	10.6	7.1	2.1	5.64	27.0	1.8	3.40
VBC04	13.2	9.1	2.6	1.77	36.2	2.5	1.34
VBC06	21.5	14.4	4.3	5.66	55.6	3.8	3.78
VBC08	26.4	17.4	5.3	9.56	66.1	4.5	6.00
VBC10	32.5	21.7	6.5	6.78	82.9	5.7	4.72
VBC12	40.4	26.7	8.1	11.30	101.2	6.9	7.58

1. Standard basic unit
2. All ratings are based at sea level altitude, nominal air volumes at 0 external static pressure and with water as the cooling fluid
3. Cooling capacities are based on 80°F DB/67°F WB entering air, 45°F entering water, 10°F water temperature rise and high fan speed
4. Heating capacities are based on 70°F DB entering air temperature, 180°F entering hot water, 30°F water temperature drop and high fan speed



PERFORMANCE DATA

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Nominal Air Volumes			
Model	cfm (1)		
	High	Med	Low
VBC02	246	214	187
VBC03	321	268	209
VBC04	444	326	241
VBC06	669	482	332
VBC08	781	626	471
VBC10	984	872	583
VBC12	1198	952	669

Air Volume (cfm) Vs External Static Pressure in wg (2)						
Model	0.05	0.10	0.15	0.20	0.25	0.30
VBC02	198	150	102	-	-	-
VBC03	278	241	193	166	-	-
VBC04	402	363	338	310	235	-
VBC06	602	545	509	473	380	-
VBC08	690	624	578	542	497	419
VBC10	912	839	769	693	601	476
VBC12	1107	1043	987	928	858	775

- Nominal air volume ratings are based on a 2-row coil at sea level altitude with 0 external static pressure
- Air volumes at alternative external static pressures are based at high fan speed

Model	Motor	
	HP	Total AMPS
VBC02	1/30	0.5
VBC03	1/30	0.5
VBC04	1/20	0.8
VBC06	1/20	0.8
VBC08	1/20	0.8
VBC10	1/20	0.8
VBC12	1/20	0.8

- Electric ratings are based on units suitable for a power supply of 115V/1Ph/60Hz

