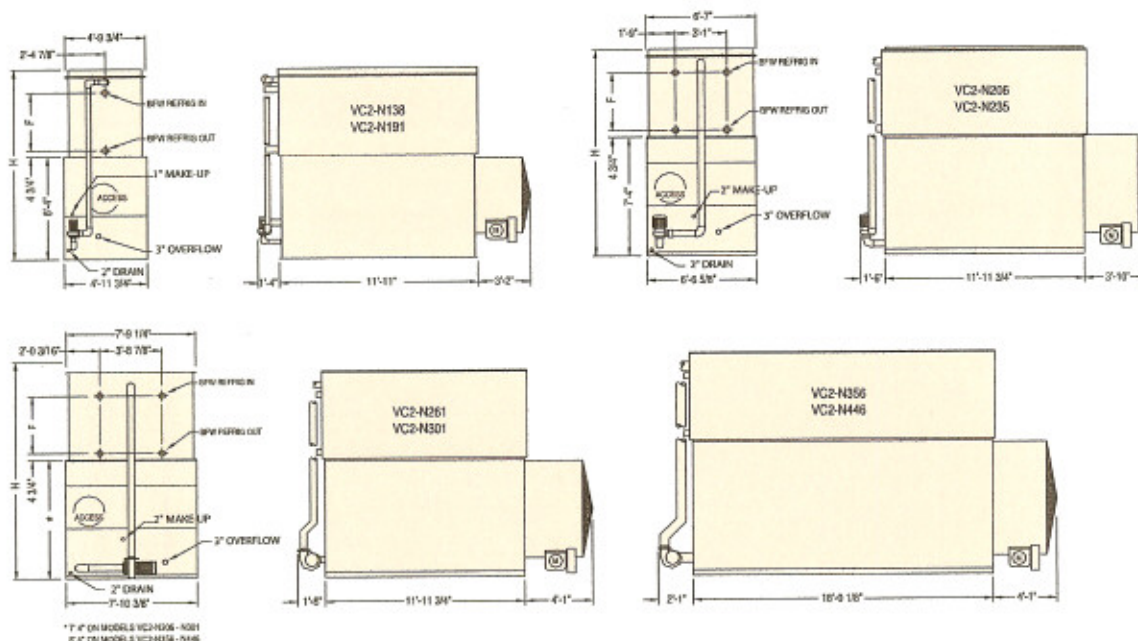


VC2 Models

Do not use for construction. Refer to factory certified dimensions. This handbook includes data current at the time of publication, which should be reconfirmed at the time of purchase. Up-to-date engineering data, free product selection software and more can be found at www.BaltimoreAircoil.com.



Nom. Box Size	Model Number ¹	Base Heat Rejection (MBH)	R-717 Tons ²	Approx. Weights (lbs)			CFM	Motor HP (0" ESP)	GPM	Pump Motor HP	R-717 Oper. Charge ⁶ (lbs.)	Internal Coil Volume (ft ³)	Remote Sump			F	H
				Ship.	Heaviest Section ⁴	Oper. ³							Drain Size (in)	Approx. Oper. Weight	Gal. Req.		
4.5' x 12'	VC2-N138	2,029	98	7,130	4,920	8,920	25,900	5	220	1 1/2	170	18	6	7,610	270	33 1/4	131 1/8
	VC2-N150	2,205	106	7,220	5,830	9,010	28,300	7 1/2	220	1 1/2	190	18	6	7,700	270	33 1/4	131 1/8
	VC2-N170	2,499	121	8,120	5,930	9,930	28,000	7 1/2	220	1 1/2	210	23	6	86,250	270	42 1/2	140 3/8
	VC2-N191	2,808	135	8,770	6,580	10,580	30,100	10	220	1 1/2	245	27	6	9,270	270	51 3/4	149 5/8
6' x 12'	VC2-N206	3,028	146	9,960	6,580	14,950	39,650	10	305	2	230	25	6	12,690	430	33 1/4	143 1/8
	VC2-N215	3,161	152	11,190	7,810	16,180	35,050	7 1/2	305	2	290	31	6	13,920	430	42 1/2	152 3/4
	VC2-N235	3,455	167	11,210	7,810	16,200	38,750	10	305	2	290	31	6	13,940	430	42 1/2	152 3/4
8' x 12'	VC2-N261	3,837	185	11,860	8,460	15,380	43,400	10	385	3	360	40	8	13,420	480	42 1/2	152 3/4
	VC2-N301	4,425	213	13,310	9,860	16,970	48,550	15	385	3	430	47	8	15,010	480	51 3/4	162
8' x 18'	VC2-N356	5,233	252	15,170	10,390	20,260	67,650	15	580	5	435	48	10	17,250	820	33 1/4	155 1/2
	VC2-N396	5,821	281	17,350	12,570	22,650	65,700	15	580	5	540	59	10	19,640	820	42 1/2	164 3/4
	VC2-N416	6,115	295	19,530	14,750	25,050	64,200	15	580	5	645	71	10	22,040	820	51 3/4	174
	VC2-N446	6,556	316	19,540	14,750	25,060	70,650	20	580	5	645	71	10	22,050	820	51 3/4	174

Notes:

- Model number denotes nominal tons using R-22 at a 105°F condensing temperature, a 40°F suction temperature, and a 78°F wet-bulb temperature.
- R-717 tons are at a 96.3°F condensing temperature, a 20°F suction temperature, and a 78°F wet-bulb temperature.
- Operating weight shown is based on total unit weight, weight of refrigerant operating charge, and cold water basin filled to the overflow level.
- Unless otherwise noted, the coil section is the heaviest section.
- Standard refrigerant connection size is 4" BFW (inlet and outlet).
- Refrigerant charge listed is R-717 operating charge. To determine operating charge for R-22, multiply charge by 1.93. For R-134a, multiply by 1.98.

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Table 14. Evaporator Capacity Factors – R-717 (Ammonia) (Series V Only)

Condensing Pressure (psig)	Condensing Temp (°F)	Entering Wet-Bulb Temperature (°F)																
		50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82
R-717																		
151.7	85	0.98	1.02	1.07	1.12	1.18	1.26	1.34	1.44	1.56	1.71	1.90	2.15	2.50	2.99	-	-	-
154.1	86	0.95	0.99	1.03	1.08	1.14	1.20	1.28	1.37	1.48	1.61	1.78	1.99	2.28	2.68	3.29	4.30	-
156.9	87	0.92	0.96	1.00	1.04	1.10	1.16	1.23	1.31	1.41	1.52	1.67	1.86	2.10	2.44	2.92	3.68	-
159.8	88	0.90	0.93	0.97	1.01	1.06	1.11	1.18	1.25	1.34	1.45	1.58	1.74	1.95	2.23	2.62	3.21	4.20
162.6	89	0.87	0.90	0.94	0.98	1.02	1.07	1.13	1.20	1.28	1.37	1.49	1.63	1.82	2.05	2.38	2.85	3.59
165.9	90	0.85	0.88	0.91	0.95	0.99	1.03	1.09	1.15	1.22	1.31	1.41	1.54	1.70	1.91	2.18	2.56	3.14
168.9	91	0.82	0.85	0.88	0.92	0.95	1.00	1.05	1.11	1.17	1.25	1.34	1.46	1.60	1.78	2.01	2.33	2.79
171.9	92	0.80	0.83	0.86	0.89	0.92	0.96	1.01	1.06	1.12	1.20	1.28	1.38	1.51	1.66	1.86	2.13	2.51
174.9	93	0.78	0.81	0.83	0.86	0.90	0.93	0.98	1.02	1.08	1.15	1.22	1.31	1.42	1.56	1.74	1.96	2.27
178.0	94	0.76	0.78	0.81	0.84	0.87	0.90	0.94	0.99	1.04	1.10	1.17	1.25	1.35	1.47	1.62	1.82	2.08
181.1	95	0.74	0.76	0.79	0.81	0.84	0.88	0.91	0.95	1.00	1.06	1.12	1.19	1.28	1.39	1.53	1.70	1.92
185.0	96.3	0.72	0.74	0.76	0.79	0.81	0.84	0.88	0.91	0.96	1.01	1.06	1.13	1.21	1.30	1.41	1.56	1.74
187.4	97	0.71	0.73	0.75	0.77	0.80	0.82	0.86	0.89	0.93	0.98	1.03	1.10	1.17	1.26	1.36	1.49	1.66
190.6	98	0.69	0.71	0.73	0.75	0.77	0.80	0.83	0.86	0.90	0.95	0.99	1.05	1.12	1.20	1.29	1.41	1.55
193.9	99	0.67	0.69	0.71	0.73	0.75	0.78	0.81	0.84	0.87	0.91	0.96	1.01	1.07	1.14	1.23	1.33	1.46
197.2	100	0.66	0.68	0.69	0.71	0.73	0.76	0.78	0.81	0.85	0.88	0.92	0.97	1.03	1.09	1.17	1.26	1.38
214.2	105	0.59	0.61	0.62	0.63	0.65	0.67	0.69	0.71	0.73	0.76	0.79	0.82	0.86	0.90	0.95	1.00	1.07
232.3	110	0.54	0.55	0.56	0.57	0.58	0.59	0.61	0.62	0.64	0.66	0.68	0.71	0.73	0.76	0.79	0.83	0.88

Table 15. Evaporator Capacity Factors – R-22, R-134a (Series V Only)

Condensing Pressure (psig)		Condensing Temp (°F)	Entering Wet-Bulb Temperature (°F)																	
			R-22	R-134a	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80
155.7	95.2	85	1.04	1.09	1.14	1.19	1.26	1.33	1.42	1.53	1.66	1.82	2.02	2.29	2.65	3.18	-	-	-	
158.2	97.1	86	1.01	1.05	1.10	1.15	1.21	1.28	1.36	1.46	1.57	1.71	1.89	2.12	2.42	2.85	3.49	4.57	-	
160.7	98.9	87	0.98	1.02	1.06	1.11	1.16	1.23	1.30	1.39	1.49	1.62	1.78	1.97	2.23	2.59	3.10	3.91	-	
163.2	100.7	88	0.95	0.99	1.03	1.07	1.12	1.18	1.25	1.33	1.42	1.53	1.67	1.85	2.07	2.37	2.79	3.41	4.46	
165.8	102.6	89	0.92	0.96	0.99	1.04	1.08	1.14	1.20	1.27	1.36	1.46	1.58	1.73	1.93	2.18	2.53	3.03	3.82	
168.4	104.3	90	0.90	0.93	0.96	1.00	1.05	1.10	1.15	1.22	1.30	1.39	1.50	1.64	1.80	2.02	2.31	2.72	3.33	
171.0	106.2	91	0.87	0.90	0.94	0.97	1.01	1.06	1.11	1.17	1.24	1.33	1.43	1.55	1.69	1.88	2.13	2.47	2.95	
173.7	108.1	92	0.85	0.88	0.91	0.94	0.98	1.02	1.07	1.13	1.19	1.27	1.36	1.47	1.60	1.76	1.98	2.26	2.66	
176.4	110.0	93	0.83	0.85	0.88	0.91	0.95	0.99	1.04	1.09	1.15	1.22	1.30	1.39	1.51	1.66	1.84	2.08	2.41	
179.1	111.9	94	0.81	0.83	0.86	0.89	0.92	0.96	1.00	1.05	1.10	1.17	1.24	1.33	1.43	1.56	1.72	1.93	2.21	
181.8	113.9	95	0.79	0.81	0.84	0.86	0.89	0.93	0.97	1.01	1.06	1.12	1.19	1.27	1.36	1.48	1.62	1.80	2.04	
184.6	115.9	96	0.77	0.79	0.81	0.84	0.87	0.90	0.94	0.98	1.03	1.08	1.14	1.21	1.30	1.40	1.53	1.68	1.89	
187.4	117.5	97	0.75	0.77	0.79	0.82	0.84	0.88	0.91	0.95	0.99	1.04	1.10	1.16	1.24	1.33	1.44	1.58	1.76	
190.2	119.9	98	0.73	0.75	0.77	0.80	0.82	0.85	0.88	0.92	0.96	1.00	1.05	1.11	1.19	1.27	1.37	1.49	1.65	
193.0	122.1	99	0.72	0.73	0.75	0.78	0.80	0.83	0.86	0.89	0.93	0.97	1.02	1.07	1.14	1.21	1.30	1.41	1.55	
195.9	124.1	100	0.70	0.72	0.74	0.76	0.78	0.80	0.83	0.86	0.90	0.94	0.98	1.03	1.09	1.16	1.24	1.34	1.46	
210.7	149.6	105	0.63	0.64	0.66	0.67	0.69	0.71	0.73	0.75	0.77	0.80	0.83	0.87	0.91	0.95	1.00	1.07	1.14	
226.4	146.4	110	0.57	0.58	0.59	0.60	0.62	0.63	0.65	0.66	0.68	0.70	0.72	0.75	0.78	0.81	0.84	0.88	0.93	

Table 16. Suction Temperature Factors – R-717 (Ammonia)

Suction Temperature (°F)	-20	-10	0	+10	+20	+30	+40	+50
Capacity Factor	1.14	1.11	1.07	1.04	1.00	0.98	0.95	0.93

Table 17. Suction Temperature Factors – R-22, R-134a

Suction Temperature (°F)	-20	-10	0	+10	+20	+30	+40	+50
Capacity Factor	1.20	1.16	1.13	1.09	1.06	1.03	1.00	0.98

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Refrigeration

Table 9.
Base Corrected Evaporator Tons
VC2 & VXMC

Model Number	Corrected Evaporator Tons	Model Number	Corrected Evaporator Tons
VC2-N138	138	VC2-684	684
VC2-N150	150	VC2-754	754
VC2-N170	170	VC2-840	840
VC2-N191	191	VC2-902	902
VC2-N206	206	VC2-942	942
VC2-N215	215	VC2-982	982
VC2-N235	235	VC2-1026	1,026
VC2-N261	261	VC2-1082	1,082
VC2-N301	301	VC2-1160	1,160
VC2-N356	356	VC2-1170	1,170
VC2-N396	396	VC2-1252	1,252
VC2-N416	416	VC2-1052	1,052
VC2-N446	446	VC2-1162	1,162
VC2-319	319	VC2-1246	1,246
VC2-342	342	VC2-1284	1,284
VC2-377	377	VC2-1376	1,376
VC2-420	420	VC2-1422	1,422
VC2-451	451	VC2-1504	1,504
VC2-471	471	VC2-1570	1,570
VC2-491	491	VC2-1654	1,654
VC2-513	513	VC2-1774	1,774
VC2-541	541	VC2-1790	1,790
VC2-580	580	VC2-1914	1,914
VC2-585	585	VXMC	
VC2-626	626	VXMC-300	300
VC2-526	526	VXMC-340	340
VC2-581	581	VXMC-380	380
VC2-623	623	VXMC-430	430
VC2-642	642	VXMC-460	460
VC2-688	688	VXMC-510	510
VC2-711	711	VXMC-560	560
VC2-752	752	VXMC-585	585
VC2-785	785	VXMC-620	620
VC2-827	827	VXMC-600	600
VC2-887	887	VXMC-680	680
VC2-895	895	VXMC-760	760
VC2-957	957	VXMC-860	860
VC2-N870	870	VXMC-920	920
VC2-N932	932	VXMC-1020	1,020
VC2-N1000	1,000	VXMC-1120	1,120
VC2-N1071	1,071	VXMC-1170	1,170
VC2-N1124	1,124	VXMC-1240	1,240
VC2-N1204	1,204		

Table 10.
Base Corrected Evaporator Tons
VC1 & VC1-C

Model Number	Corrected Evaporator Tons	Model Number	Corrected Evaporator Tons
VC1-10	10	VC1-540	540
VC1-15	15	VC1-579	579
VC1-20	20	VC1-612	612
VC1-25	25	VC1-646	646
VC1-30	30	VC1-683	683
VC1-38	38	VC1-715	715
VC1-46	46	VC1-748	748
VC1-52	52	VC1-804	804
VC1-58	58	VC1-772	772
VC1-65	65	VC1-872	872
VC1-72	72	VC1-934	934
VC1-80	80	VC1-908	908
VC1-90	90	VC1-974	974
VC1-100	100	VC1-1032	1,032
VC1-110	110	VC1-1158	1,158
VC1-125	125	VC1-1224	1,224
VC1-135	135	VC1-1366	1,366
VC1-150	150	VC1-1430	1,430
VC1-165	165	VC1-1496	1,496
VC1-185	185	VC1-1608	1,608
VC1-205	205	VC1-C216	216
VC1-N208	208	VC1-C231	231
VC1-N230	230	VC1-C242	242
VC1-N243	243	VC1-C260	260
VC1-N257	257	VC1-C274	274
VC1-N275	275	VC1-C286	286
VC1-N301	301	VC1-C299	299
VC1-N315	315	VC1-C320	320
VC1-N338	338	VC1-C339	339
VC1-N357	357	VC1-C354	354
VC1-N373	373	VC1-C380	380
VC1-N417	417	VC1-C396	396
VC1-N470	470	VC1-C424	424
VC1-386	386	VC1-C445	445
VC1-436	436	VC1-C469	469
VC1-467	467		
VC1-454	454		
VC1-487	487		
VC1-516	516		

Table 11.
Base Corrected Evaporator Tons
VCL

Model Number	Corrected Evaporator Tons
VCL-016	16
VCL-019	19
VCL-024	24
VCL-029	29
VCL-035	35
VCL-038	38
VCL-044	44
VCL-048	48
VCL-054	54
VCL-058	58
VCL-065	65
VCL-073	73
VCL-079	79
VCL-087	87
VCL-096	96
VCL-102	102
VCL-108	108
VCL-115	115
VCL-120	120
VCL-134	134
VCL-148	148
VCL-155	155
VCL-167	167
VCL-185	185
VCL-209	209
VCL-223	223
VCL-234	234
VCL-257	257
VCL-271	271
VCL-286	286
VCL-299	299

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