

Capacities per 32-Corrugation, 42.75 sq. ft. Cooling Section

Cool from °F.	Number of Corrugations	Cool Water with 26°F. Full Flooded Ammonia to —							
		33°F.		34°F.		36°F.		40°F.	
		Gallons Per Hr.	Tons Refrig.	Gallons Per Hr.	Tons Refrig.	Gallons Per Hr.	Tons Refrig.	Gallons Per Hr.	Tons Refrig.
36	32	3000	6.25	3000	4.17	—	—	—	—
38	32	2485	8.63	3000	8.33	3000	4.17	—	—
40	32	1929	9.38	2427	10.11	3000	8.33	—	—
45	32	1337	11.15	1571	12.00	2154	13.47	3000	10.42
50	32	1085	12.81	1241	13.80	1583	15.39	2652	18.42
55	32	942	14.39	1056	15.41	1298	17.13	1920	20.00
60	32	846	15.87	942	17.01	1131	18.86	1440	20.00
65	32	777	17.27	861	18.53	993	20.00	1152	20.00
70	32	726	18.66	798	19.94	847	20.00	960	20.00
75	32	687	20.00	702	20.00	739	20.00	823	20.00
80	32	613	20.00	626	20.00	655	20.00	720	20.00
85	32	554	20.00	565	20.00	588	20.00	640	20.00
90	32	505	20.00	514	20.00	533	20.00	576	20.00
95	32	465	20.00	472	20.00	488	20.00	524	20.00
		Cool Water with 28°F. Full Flooded Ammonia to —							
36	32	2748	5.73	3000	4.17	—	—	—	—
38	32	1854	6.45	2607	7.25	3000	4.17	—	—
40	32	1472	7.16	1916	7.98	3000	8.33	—	—
45	32	1052	8.76	1289	9.84	1815	11.34	3000	10.42
50	32	864	10.20	1028	11.42	1341	13.04	2325	16.17
55	32	767	11.72	891	12.99	1118	14.75	1739	18.11
60	32	696	13.07	797	14.39	981	16.35	1437	19.97
65	32	644	14.31	735	15.83	887	17.87	1152	20.00
70	32	606	15.57	683	17.09	821	19.38	960	20.00
75	32	576	16.82	648	18.47	738	20.00	823	20.00
80	32	551	17.97	618	19.77	654	20.00	720	20.00
85	32	530	19.14	565	20.00	588	20.00	640	20.00
90	32	505	20.00	514	20.00	533	20.00	576	20.00
95	32	465	20.00	472	20.00	488	20.00	524	20.00
		Cool Water with 30°F. Full Flooded Ammonia to —							
36	32	1727	3.60	3000	4.17	—	—	—	—
38	32	1229	4.26	1782	4.95	3000	4.17	—	—
40	32	998	4.85	1343	5.60	2607	7.25	—	—
45	32	743	6.20	935	7.14	1455	9.09	3000	10.42
50	32	630	7.44	767	8.52	1107	10.77	1995	13.85
55	32	570	8.70	678	9.90	936	12.35	1505	15.68
60	32	522	9.78	615	11.10	830	13.83	1260	17.51
65	32	489	10.88	572	12.30	756	15.23	1103	19.14
70	32	465	11.96	537	13.43	704	16.62	960	20.00
75	32	444	12.96	512	14.55	674	18.24	823	20.00
80	32	426	13.88	491	15.66	644	19.65	720	20.00
85	32	412	14.88	474	16.79	588	20.00	640	20.00
90	32	402	15.89	461	17.90	533	20.00	576	20.00
95	32	389	16.73	447	18.93	488	20.00	524	20.00

Maximum flow rate per 32 corrugation section is 3000 G.P.H. Allowable refrigeration is 20 tons R.

Selecting Section Size

Cooling sections having 60" effective length and either 21 or 32 corrugations will perform as stated in tables. However, it is in general more economical to select 32 sections for services in which liquid is to be cooled over a wide capacity range, and those having 21 corrugations when the temperature range is relatively narrow.

Units for Special Services

The same design principles responsible for these highly efficient water cooling rates are also applied extensively to the chilling of brine solutions, glycols, alcohol and other liquids. Capacities and other engineering data available upon request.

*Note: 32 Corrugation Sections are interchangeable with former 36 corrugation sections.