

**Paul Mueller Company**  
**-2.7C Evaporation, Flooded or Recirc. Ammonia Falling Film Chiller Sizing**

No. of 3' x 5' Plates		SYSTEM TEMPERATURE DIFFERENCE (K)										
		31.2	28.4	25.6	22.8	20	17.2	14.4	11.6	8.8	6.1	3.3
2	m3/h	1.82	2.04	2.27	2.50	2.73	2.95	3.18	3.63	4.31	5.45	8.18
	kW	80	76	72	68	63	59	53	49	45	39	32
3	m3/h	2.27	2.73	3.18	3.63	4.09	4.54	4.77	5.45	6.36	8.18	12.49
	kW	111	107	103	99	95	91	80	74	66	58	48
4	m3/h	3.63	4.09	4.54	5.00	5.45	5.90	6.59	7.27	8.63	10.90	16.58
	kW	161	152	144	135	127	118	111	99	89	77	64
5	m3/h	4.09	4.77	5.45	6.13	6.81	7.49	8.18	9.08	10.67	13.63	20.67
	kW	192	183	175	167	158	150	137	123	110	97	80
6	m3/h	4.54	5.45	6.36	7.27	8.18	9.08	9.77	11.13	12.94	16.35	24.98
	kW	223	215	206	198	190	182	164	151	134	116	97
7	m3/h	7.04	7.72	8.40	9.08	9.77	10.45	11.58	12.94	14.99	19.08	29.07
	kW	299	281	263	245	227	209	194	176	155	136	113
8	m3/h	8.63	9.31	9.99	10.67	11.36	12.04	13.17	14.76	17.26	21.80	33.16
	kW	356	333	310	287	264	241	221	200	178	155	128

No. of 4' x 8' Plates		SYSTEM TEMPERATURE DIFFERENCE (K)										
		31.2	28.4	25.6	22.8	20	17.2	14.4	11.6	8.8	6.1	3.3
2	m3/h	3.86	4.31	4.77	5.22	5.68	6.13	6.81	7.49	8.86	11.13	17.03
	kW	169	160	150	141	132	123	114	102	92	79	66
3	m3/h	6.81	7.27	7.72	8.18	8.63	9.08	10.22	11.36	13.40	16.81	25.66
	kW	276	257	238	219	201	182	172	154	138	119	99
4	m3/h	7.95	8.86	9.77	10.67	11.58	12.49	13.63	15.22	17.71	22.48	34.29
	kW	346	327	308	288	269	250	229	206	183	160	133
5	m3/h	9.99	11.13	12.26	13.40	14.53	15.67	17.03	19.08	22.26	28.16	42.92
	kW	435	410	386	362	338	314	286	259	230	200	166
6	m3/h	12.04	13.40	14.76	16.12	17.49	18.85	20.44	22.94	26.80	33.61	51.55
	kW	523	494	465	436	407	377	343	311	277	239	200
7	m3/h	14.08	15.67	17.26	18.85	20.44	22.03	23.85	26.80	31.34	39.29	60.18
	kW	612	578	544	509	475	441	400	363	324	279	233
8	m3/h	17.03	18.62	20.21	21.80	23.39	24.98	27.25	30.66	35.65	44.97	68.81
	kW	719	675	631	588	544	500	458	416	368	319	267
9	m3/h	19.08	20.89	22.71	24.53	26.34	28.16	30.89	34.52	40.20	50.64	77.21
	kW	807	759	710	661	612	564	519	468	415	360	299
10	m3/h	21.12	23.16	25.21	27.25	29.30	31.34	34.29	38.38	44.74	56.32	85.84
	kW	896	842	788	735	681	627	576	520	462	400	333
11	m3/h	23.16	25.44	27.71	29.98	32.25	34.52	37.70	42.24	49.05	62.00	94.47
	kW	984	926	867	808	750	691	633	573	507	440	366
12	m3/h	25.21	27.71	30.20	32.70	35.20	37.70	41.11	45.87	53.60	67.45	103.10
	kW	1,073	1,009	946	882	818	755	690	622	554	479	399
13	m3/h	26.12	29.07	32.02	34.97	37.93	40.88	44.51	49.73	58.14	73.13	111.73
	kW	1,135	1,072	1,008	945	882	818	747	674	601	519	433
14	m3/h	28.16	31.34	34.52	37.70	40.88	44.06	47.92	53.60	62.45	78.80	120.36
	kW	1,224	1,155	1,087	1,019	950	882	805	727	645	560	466
15	m3/h	31.11	34.29	37.47	40.65	43.83	47.01	51.32	57.46	66.99	84.48	128.99
	kW	1,330	1,253	1,175	1,097	1,019	941	862	779	692	600	500
16	m3/h	33.16	36.56	39.97	43.38	46.78	50.19	54.73	61.32	71.54	90.16	137.62
	kW	1,419	1,336	1,253	1,170	1,088	1,005	919	832	739	640	533