

Paul Mueller Company
-2.7C Evaporation, DX R-22 Falling Film Chiller Sizing

No. of 3' x 5' Plates		SYSTEM TEMPERATURE DIFFERENCE (K)										
		31	28.3	25.5	22.7	20	17.2	14.4	11.6	8.8	6.1	3.3
2	m3/h	0.68	0.91	1.14	1.36	1.59	1.82	2.04	2.73	3.18	3.86	5.90
	kW	39.30	38.72	38.13	37.54	37	36	34	37	33	27	23
3	m3/h	0.45	0.91	1.36	1.82	2.27	2.73	3.18	4.09	4.09	5.90	9.08
	kW	45.76	47.52	49.28	51.04	53	55	53	55	42	42	35
4	m3/h	1.36	1.82	2.27	2.73	3.18	3.63	4.09	5.45	6.36	7.95	12.04
	kW	78.61	77.44	76.26	75.09	74	73	69	74	66	56	47
5	m3/h	1.14	1.82	2.50	3.18	3.86	4.54	5.45	6.81	7.95	9.99	15.22
	kW	85.06	86.24	87.41	88.58	90	91	92	92	82	71	59
6	m3/h	2.04	2.73	3.41	4.09	4.77	5.45	6.59	8.18	9.54	11.81	18.17
	kW	117.91	116.15	114.39	112.63	111	109	111	111	99	84	70
7	m3/h	1.82	2.73	3.63	4.54	5.45	6.36	7.72	9.54	11.13	13.85	21.35
	kW	124.37	124.95	125.54	126.13	127	127	130	129	115	98	83
8	m3/h	2.73	3.63	4.54	5.45	6.36	7.27	8.86	10.90	12.72	15.90	24.30
	kW	157.22	154.87	152.53	150.18	148	145	149	148	131	113	94

No. of 4' x 8' Plates		SYSTEM TEMPERATURE DIFFERENCE (K)										
		31.20	28.40	25.60	22.80	20	17.2	14.4	11.6	8.8	6.1	3.3
2	m3/h	2.27	2.73	3.18	3.63	4.09	4.54	5.22	5.45	6.36	8.18	12.49
	kW	111.46	107.35	103.25	99.14	95	91	88	74	66	58	48
3	m3/h	4.54	5.00	5.45	5.90	6.36	6.81	7.49	8.40	9.77	12.26	18.85
	kW	193.59	182.15	170.71	159.27	148	136	126	114	101	87	73
4	m3/h	5.68	6.36	7.04	7.72	8.40	9.08	9.99	11.13	12.94	16.35	25.21
	kW	249.32	235.83	222.33	208.84	195	182	168	151	134	116	98
5	m3/h	7.95	8.63	9.31	9.99	10.67	11.36	12.49	14.08	16.35	20.67	31.57
	kW	331.45	310.62	289.80	268.97	248	227	210	191	169	147	122
6	m3/h	8.18	9.31	10.45	11.58	12.72	13.85	14.99	16.81	19.53	24.75	37.70
	kW	368.99	350.66	332.33	314.00	296	277	252	228	202	176	146
7	m3/h	10.45	11.58	12.72	13.85	14.99	16.12	17.49	19.53	22.94	28.84	44.06
	kW	451.12	425.46	399.79	374.13	348	323	294	265	237	205	171
8	m3/h	11.58	12.94	14.31	15.67	17.03	18.40	19.98	22.48	26.12	32.93	50.42
	kW	506.85	479.13	451.42	423.70	396	368	336	305	270	234	195
9	m3/h	13.85	15.22	16.58	17.94	19.30	20.67	22.48	25.21	29.52	37.24	56.78
	kW	588.98	553.93	518.88	483.83	449	414	377	342	305	265	220
10	m3/h	14.99	16.58	18.17	19.76	21.35	22.94	25.21	28.16	32.70	41.33	63.13
	kW	644.71	607.61	570.50	533.40	496	459	423	382	338	294	245
11	m3/h	16.35	18.17	19.98	21.80	23.62	25.44	27.71	30.89	36.11	45.42	69.49
	kW	708.66	668.76	628.87	588.98	549	509	465	419	373	323	269
12	m3/h	17.49	19.53	21.57	23.62	25.66	27.71	30.20	33.84	39.29	49.51	75.62
	kW	764.39	722.44	680.50	638.55	597	555	507	459	406	352	293
13	m3/h	19.76	21.80	23.85	25.89	27.93	29.98	32.70	36.56	42.69	53.82	81.98
	kW	846.51	797.24	747.96	698.68	649	600	549	496	441	382	318
14	m3/h	20.89	23.16	25.44	27.71	29.98	32.25	35.20	39.29	45.87	57.91	88.34
	kW	902.25	850.91	799.58	748.25	697	646	591	533	474	411	342
15	m3/h	23.16	25.44	27.71	29.98	32.25	34.52	37.70	42.24	49.28	62.00	94.70
	kW	984.37	925.71	867.05	808.38	750	691	633	573	509	440	367
16	m3/h	24.30	26.80	29.30	31.79	34.29	36.79	40.20	44.97	52.46	66.09	101.06
	kW	1,040.10	979.39	918.67	857.95	797	737	675	610	542	469	392