

Chiller Selection Charts

Chart 1 and 2 data are based on a closed recirculating system with chiller / heat pump on full time.

Charts show maximum volumes of water (Gallons) that can be maintained at various temperature differences below ambient air temperature.

Caution: Charts assume maximum of one pump with a three times per hour water turnover rate and basic fluorescent lighting.

Consult Aqua Logic for proper sizing with multiple pumps, protein skimmers and high intensity lighting.

Chart No. 1

Uninsulated Tanks: Acrylic and Glass. For polypropylene / ethylene tanks take gallons x .8 = net gallons

MODEL NO.	HP	NOMINAL BTU/hr	Temperature "chill-down" or "heat-up in gallons from ambient (°F)							
			5°	10°	15°	20°	25°	30°	35°	40°
DS,CY-1	1/6	1500	180	90	60	45	36	30	26	23
DS,CY-2	1/5	1810	348	174	116	87	70	58	50	43
DS,CY-3	1/4	3080	592	296	197	148	118	99	85	74
DS,CY-4	1/3	4050	778	389	259	194	156	130	111	97
DS,CY-5	1/2	6000	1,152	576	384	288	230	192	165	144
DS-7	3/4	9500	1,825	912	608	456	365	304	261	228
DS-9	1	12,000	3,457	1,729	1,152	864	691	576	494	432
DS-10, MT-1.5, HP-1	1 1/2	18,000	5,186	2,593	1,729	1,297	1,037	864	741	648
MT-1, HP-2	2	24,000	6,915	3,457	2,305	1,729	1,383	1,152	988	864
MT-3, HP-3	3	36,000	10,372	5,186	3,457	2,593	2,074	1,729	1,482	1,297
MT-5, HP-4	4	48,000	13,830	6,915	4,610	3,457	2,766	2,305	1,976	1,729
MT-7, HP-5	5	60,000	17,287	8,643	5,762	4,322	3,457	2,881	2,470	2,161
MT-9, HP-6	7 1/2	96,000	27,659	13,830	9,220	6,915	5,532	4,610	3,951	3,457
MT-10, HP-7	10	120,000	34,574	17,287	11,525	8,643	6,915	5,762	4,939	4,322
MT-12, HP-8	12 1/2	156,000	44,946	22,473	14,982	11,236	8,989	7,491	6,421	5,618
MT-15, HP-9	15	180,000	51,861	25,930	17,287	12,965	10,372	8,643	7,409	6,483
MT-20, HP-10	20	240,000	69,148	34,574	23,049	17,287	13,830	11,525	9,878	8,643

Chart No. 2

Insulated Tanks with 2" foam on all surfaces

MODEL NO.	HP	NOMINAL BTU / hr	Temperature "chill-down" or "heat-up in gallons from ambient (°F)							
			5°	10°	15°	20°	25°	30°	35°	40°
DS,CY-1	1/6	1500	324	162	108	81	65	54	46	41
DS,CY-2	1/5	1810	521	261	174	130	104	87	74	65
DS,CY-3	1/4	3080	887	444	296	222	177	148	127	111
DS,CY-4	1/3	4050	1,167	583	389	292	233	194	167	146
DS,CY-5	1/2	6000	1,729	864	576	432	346	288	247	216
DS-7	3/4	9500	2,737	1,369	912	684	547	456	391	342
DS-9	1	12,000	4,610	2,305	1,537	1,152	922	768	659	576
DS-10, MT-1.5, HP-1	1 1/2	18,000	6,915	3,457	2,305	1,729	1,383	1,152	988	864
MT-1, HP-2	2	24,000	9,220	4,610	3,073	2,305	1,844	1,537	1,317	1,152
MT-3, HP-3	3	36,000	13,830	6,915	4,610	3,457	2,766	2,305	1,976	1,729
MT-5, HP-4	4	48,000	18,439	9,220	6,146	4,610	3,688	3,073	2,634	2,305
MT-7, HP-5	5	60,000	23,049	11,525	7,683	5,762	4,610	3,842	3,293	2,881
MT-9, HP-6	7 1/2	96,000	36,879	18,439	12,293	9,220	7,376	6,146	5,268	4,610
MT-10, HP-7	10	120,000	46,098	23,049	15,366	11,525	9,220	7,683	6,585	5,762
MT-12, HP-8	12 1/2	156,000	59,928	29,964	19,976	14,982	11,986	9,988	8,561	7,491
MT-15, HP-9	15	180,000	69,148	34,574	23,049	17,287	13,830	11,525	9,878	8,643
MT-20, HP-10	20	240,000	92,197	46,098	30,732	23,049	18,439	15,366	13,171	11,525