

WATER NEEDED FOR COOL PAD

WATER NEEDED LITERS PER HR

CFM	FAN	TOTAL CFM	TEMP DIFF REQUIRED IN ° F											
			1	2	5	10	15	20	25	27	30	33		
1000														
	1	20000	9	19	47	95	142	190	237	256	284	313		
	2	40000	19	38	95	190	284	379	474	512	569	626		
	3	60000	28	57	142	284	427	569	711	768	853	939		
	4	80000	38	76	190	379	569	758	948	1024	1138	1251		
	5	100000	47	95	237	474	711	948	1185	1280	1422	1564		
	6	120000	57	114	284	569	853	1138	1422	1536	1706	1877		
	7	140000	66	133	332	664	995	1327	1659	1792	1991	2190		
	8	160000	76	152	379	758	1138	1517	1896	2048	2275	2503		
	9	180000	85	171	427	853	1280	1706	2133	2304	2560	2816		
	10	200000	95	190	474	948	1422	1896	2370	2560	2844	3128		
	11	220000	104	209	521	1043	1564	2086	2607	2816	3128	3441		
	12	240000	114	228	569	1138	1706	2275	2844	3072	3413	3754		
	13	260000	123	246	616	1232	1849	2465	3081	3327	3697	4067		
	14	280000	133	265	664	1327	1991	2654	3318	3583	3982	4380		

TEMP OUTSIDE F	86	87	90	95	100	105	110	112	115	118
TEMP OUTSIDE C	30.0	30.5	32.2	35.0	37.7	40.5	43.3	44.4	46.1	47.7
DESIGNED INSIDE TEMP 85 ° F OR 29.5 ° C.										

Note: Cooling of 1000 cfm by 1o F will need about 0.5 liters of water per hr.

Temp reduction will depend upon outside Humidity levels.

Circulate minimum 3 liters per running foot of cool pads. 10 times the evaporation.

Example: If you want temp reduction of 10 o F and your system depending upon birds / shed size is using 10 fans then water needed 948 lt/hr For 32 ft Cooling panel you need 32 x 3 = 93 say 100 liters/min water circulation.