

# 8/10<sup>105</sup>

## PERFORMANCE TABLES

Wheel Diameter: **10.625"**  
 Outlet Area: **.730 sq. Ft.**  
 Maximum RPM: **3700**  
 Tip Speed in FPM: **2.78 x RPM**

Series **CMB- 8:** .75 hp  
 Series **CMB-10:** 1 hp

Other horsepower available through 1.5 hp

CFM	Outlet Velocity	¼"SP		⅜"SP		½"SP		⅝"SP		¾"SP		1"SP		1¼"SP		1½"SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
365	500	943	0.026	1078	0.039	1201	0.053	1314	0.067	1418	0.083	1606	0.114	1775	0.147	1930	0.182
438	600	1018	0.034	1146	0.047	1259	0.062	1365	0.078	1464	0.095	1647	0.131	1812	0.168	1963	0.205
511	700	1100	0.043	1219	0.058	1328	0.073	1427	0.090	1520	0.108	1695	0.147	1854	0.189	2002	0.233
584	800	1189	0.054	1299	0.071	1402	0.088	1497	0.105	1586	0.124	1751	0.165	1904	0.209	2047	0.257
657	900	1284	0.068	1384	0.086	1480	0.105	1571	0.124	1657	0.144	1815	0.185	1961	0.231	2098	0.281
730	1000	1383	0.084	1475	0.104	1564	0.124	1650	0.145	1732	0.167	1885	0.210	2025	0.257	2157	0.308
803	1100	1482	0.104	1570	0.125	1653	0.146	1733	0.169	1811	0.192	1959	0.238	2095	0.288	2222	0.339
876	1200	1584	0.126	1669	0.149	1745	0.172	1821	0.196	1895	0.221	2035	0.272	2167	0.323	2291	0.376
949	1300	1688	0.152	1768	0.176	1842	0.201	1912	0.227	1981	0.253	2116	0.307	2243	0.362	2364	0.418
1022	1400	1794	0.183	1868	0.208	1941	0.234	2007	0.261	2072	0.289	2200	0.346	2322	0.405	2439	0.464
1095	1500	1902	0.218	1972	0.243	2041	0.271	2106	0.299	2166	0.329	2287	0.389	2404	0.451	2517	0.515
1168	1600	2008	0.258	2076	0.283	2140	0.313	2205	0.342	2264	0.373	2378	0.436	2489	0.501	2598	0.568
1241	1700	2118	0.302	2182	0.329	2243	0.359	2304	0.391	2363	0.422	2471	0.488	2577	0.556	2682	0.626
1314	1800	2230	0.352	2290	0.381	2347	0.410	2404	0.444	2462	0.477	2568	0.545	2669	0.616	2768	0.689
1387	1900			2396	0.437	2452	0.467	2507	0.501	2562	0.537	2667	0.607	2762	0.682	2858	0.757
1460	2000			2504	0.499	2559	0.531	2611	0.565	2663	0.602	2765	0.676	2859	0.752	2950	0.832
1606	2200			2726	0.643	2773	0.678	2823	0.713	2870	0.749	2964	0.832	3056	0.912	3140	0.997
1752	2400					2991	0.851	3037	0.890	3081	0.927	3168	1.01	3255	1.10	3338	1.18
1898	2600					3215	1.05	3252	1.09	3297	1.13	3376	1.22	3456	1.31	3537	1.41
2044	2800							3474	1.33	3510	1.37	3589	1.46	3663	1.56		

CFM = Cubic Feet/Minute SP = Static Pressure RPM = Revolutions / Minute BHP = Brake Horsepower

CFM	Outlet Velocity	1¾"SP		2"SP		2½"SP		3"SP		3½"SP		4"SP		4½"SP		5"SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
365	500	2074	0.218														
438	600	2103	0.245	2236	0.287	2479	0.374										
511	700	2140	0.276	2269	0.319	2509	0.412	2728	0.512	2931	0.614						
584	800	2181	0.306	2308	0.355	2543	0.454	2759	0.557	2959	0.668	3147	0.782	3325	0.900		
657	900	2229	0.334	2352	0.388	2583	0.499	2795	0.609	2992	0.722	3178	0.843	3354	0.969	3521	1.09
730	1000	2281	0.362	2402	0.420	2627	0.540	2836	0.663	3030	0.786	3212	0.909	3385	1.03	3551	1.17
803	1100	2342	0.395	2457	0.454	2676	0.580	2880	0.712	3071	0.847	3252	0.983	3422	1.11	3585	1.25
876	1200	2408	0.432	2519	0.492	2730	0.621	2929	0.760	3116	0.904	3294	1.05	3462	1.19		
949	1300	2477	0.476	2586	0.536	2790	0.667	2982	0.808	3166	0.960	3340	1.11	3506	1.27		
1022	1400	2550	0.525	2656	0.587	2854	0.719	3041	0.863	3218	1.01	3389	1.17	3553	1.34		
1095	1500	2625	0.578	2728	0.643	2923	0.778	3105	0.923	3277	1.08	3443	1.24				
1168	1600	2702	0.636	2803	0.704	2994	0.843	3172	0.991	3340	1.14	3501	1.31				
1241	1700	2783	0.698	2881	0.771	3067	0.916	3242	1.06	3407	1.22	3564	1.39				
1314	1800	2866	0.764	2961	0.840	3143	0.993	3315	1.14	3476	1.31						
1387	1900	2951	0.835	3044	0.915	3220	1.07	3388	1.23	3548	1.40						
1460	2000	3039	0.912	3128	0.994	3300	1.16	3465	1.33								
1606	2200	3223	1.08	3305	1.17	3467	1.35										
1752	2400	3415	1.28	3490	1.37												
1898	2600																
2044	2800																

Performances shown are for installation type D (Ducted inlet, Ducted outlet). Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.