

# 40 270

## PERFORMANCE TABLES

Wheel Diameter: **27"**  
 Outlet Area: **4.190 sq. Ft.**  
 Maximum RPM: **1400**  
 Tip Speed in FPM: **7.07 x RPM**

Series **CMB-40**: 7.5 hp

Other horsepower available through 15 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
3780	900	397	0.254	431	0.327	464	0.404	498	0.485	531	0.570	595	0.754				
4200	1000	426	0.310	458	0.392	488	0.473	518	0.559	548	0.649	608	0.840				
4620	1100	454	0.377	486	0.465	514	0.554	541	0.645	569	0.739	623	0.939				
5040	1200	485	0.456	515	0.547	541	0.646	566	0.743	591	0.842	641	1.052	692	1.274	741	1.51
5460	1300	518	0.542	543	0.643	570	0.748	593	0.853	616	0.959	663	1.177	709	1.409	756	1.65
5880	1400	549	0.644	571	0.752	598	0.860	622	0.976	643	1.089	686	1.318	729	1.560	772	1.81
6300	1500	582	0.763	605	0.875	626	0.988	650	1.108	672	1.232	712	1.474	752	1.725	792	1.99
6720	1600	616	0.898	636	1.008	655	1.133	679	1.255	700	1.386	738	1.646	776	1.907	814	2.18
7140	1700	650	1.045	668	1.159	687	1.293	707	1.321	729	1.553	766	1.833	802	2.108	837	2.39
7560	1800	684	1.211	701	1.333	720	1.465	735	1.604	757	1.741	795	2.034	829	2.326	862	2.62
7980	1900			734	1.525	751	1.656	768	1.806	785	1.948	823	2.248	857	2.560	888	2.87
8400	2000			768	1.740	783	1.866	801	2.019	814	2.175	852	2.481	885	2.811	916	3.13
9240	2200			836	2.213	849	2.364	864	2.508	880	2.679	908	3.017	942	3.357	972	3.72
10080	2400					917	2.944	930	3.108	943	3.265	970	3.644	998	4.004	1029	4.38
10920	2600							997	3.807	1099	3.972	1035	4.340	1057	4.751	1085	5.14
11760	2800							1065	4.585	1076	4.797	1098	5.150	1124	5.589	1143	6.02
12600	3000									1144	5.696	1164	6.104	1187	6.524	1210	7.00
13440	3200											1231	7.186	1251	7.594	1273	8.06
14280	3400											1299	8.363				

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

CFM	Outlet Velocity	1¼" 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
3780	900																
4200	1000																
4620	1100																
5040	1200	788	1.76	832	2.02												
5460	1300	801	1.91	844	2.18	925	2.75										
5880	1400	816	2.08	858	2.35	937	2.93	1011	3.56								
6300	1500	832	2.26	872	2.54	950	3.14	1023	3.78	1091	4.45						
6720	1600	851	2.46	889	2.75	964	3.37	1035	4.02	1102	4.71	1166	5.43				
7140	1700	872	2.68	908	2.98	979	3.61	1048	4.28	1114	4.98	1177	5.72	1237	6.49		
7560	1800	895	2.92	929	3.23	996	3.88	1063	4.56	1127	5.28	1189	6.03	1248	6.82	1304	7.63
7980	1900	920	3.18	951	3.50	1015	4.17	1079	4.86	1141	5.60	1202	6.36	1260	7.16	1316	7.99
8400	2000	945	3.46	975	3.79	1036	4.47	1096	5.19	1157	5.94	1216	6.72	1273	7.54	1328	8.38
9240	2200	1000	4.08	1027	4.43	1082	5.16	1137	5.92	1191	6.70	1246	7.51	1301	8.36	1354	9.23
10080	2400	1057	4.78	1083	5.17	1133	5.94	1183	6.74	1233	7.56	1283	8.42	1333	9.29	1384	10.19
10920	2600	1114	5.55	1140	5.98	1187	6.83	1233	7.67	1279	8.53	1326	9.42	1371	10.34		
11760	2800	1170	6.44	1196	6.88	1244	7.80	1287	8.71	1330	9.62	1373	10.54				
12600	3000	1227	7.45	1252	7.91	1301	8.86	1343	9.85								
13440	3200	1294	8.58	1310	9.05	1357	10.04										
14280	3400																

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.