

# 50 300

## PERFORMANCE TABLES

Wheel Diameter: **30"**  
 Outlet Area: **5.170 sq. Ft.**  
 Maximum RPM: **1250**  
 Tip Speed in FPM: **7.85 x RPM**

Series 50 10 hp

Other horsepowers available through 15 HP

CFM	Outlet Velocity	1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4635	900	358	0.312	388	0.401	418	0.495	448	0.594	479	0.699	535	0.925				
5150	1000	384	0.380	412	0.480	439	0.581	466	0.686	493	0.796	547	1.030				
5665	1100	409	0.462	438	0.571	463	0.680	487	0.791	512	0.907	561	1.152				
6180	1200	437	0.559	463	0.671	487	0.792	510	0.911	533	1.033	578	1.290	623	1.56	667	1.85
6695	1300	466	0.665	489	0.788	513	0.917	534	1.047	555	1.175	597	1.444	639	1.73	681	2.03
7210	1400	494	0.789	515	0.922	539	1.054	560	1.196	579	1.335	618	1.616	657	1.91	696	2.22
7725	1500	524	0.936	545	1.073	564	1.212	586	1.359	605	1.510	641	1.807	677	2.11	713	2.44
8240	1600	554	1.101	573	1.236	590	1.389	611	1.539	631	1.700	665	2.018	699	2.34	733	2.67
8755	1700	585	1.282	601	1.421	619	1.586	636	1.742	656	1.904	690	2.248	722	2.58	754	2.93
9270	1800	615	1.485	631	1.634	648	1.796	662	1.967	681	2.135	716	2.494	746	2.85	776	3.21
9785	1900			660	1.870	676	2.030	692	2.215	707	2.389	742	2.757	771	3.14	800	3.52
10300	2000			691	2.134	705	2.288	721	2.476	733	2.667	767	3.042	797	3.45	825	3.84
11330	2200			752	2.713	765	2.899	777	3.075	792	3.285	818	3.699	848	4.12	876	4.57
12360	2400					825	3.610	837	3.811	849	4.004	874	4.469	899	4.91	927	5.37
13390	2600							898	4.668	908	4.871	932	5.321	952	5.83	977	6.31
14420	2800							959	5.622	969	5.881	988	6.315	1011	6.85	1029	7.38
15450	3000									1030	6.984	1048	7.485	1068	8.00	1089	8.58
16480	3200											1108	8.811	1129	9.31	1145	9.88
17510	3400											1169	10.255				

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

CFM	Outlet Velocity	1 1/4" SP		2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP		5" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4635	900																
5150	1000																
5665	1100																
6180	1200	709	2.16	749	2.48												
6695	1300	721	2.34	760	2.67	833	3.37										
7210	1400	735	2.54	772	2.88	844	3.60	911	4.36								
7725	1500	749	2.77	786	3.12	856	3.85	921	4.63	982	5.46						
8240	1600	766	3.02	801	3.38	868	4.13	932	4.93	993	5.77	1050	6.66				
8755	1700	786	3.29	817	3.66	882	4.43	944	5.25	1004	6.11	1060	7.02	1114	7.96		
9270	1800	806	3.58	837	3.96	897	4.75	957	5.59	1015	6.47	1071	7.40	1124	8.36	1175	9.36
9785	1900	828	3.90	857	4.29	914	5.11	971	5.96	1028	6.86	1083	7.80	1135	8.79	1185	9.80
10300	2000	851	4.24	879	4.64	933	5.49	987	6.37	1042	7.28	1095	8.24	1146	9.24	1196	10.28
11330	2200	901	5.00	925	5.44	974	6.33	1024	7.25	1073	8.22	1123	9.21	1172	10.25	1220	11.32
12360	2400	952	5.96	975	6.34	1020	7.29	1065	8.26	1110	9.27	1155	10.32	1201	11.39	1246	12.50
13390	2600	1003	6.80	1026	7.34	1069	8.37	1110	9.40	1152	10.46	1194	11.55	1235	12.68		
14420	2800	1054	7.90	1078	8.43	1120	9.57	1159	10.68	1197	11.79	1236	12.93				
15450	3000	1105	9.14	1128	9.69	1171	10.87	1210	12.08								
16480	3200	1165	10.52	1180	11.11	1222	12.31										
17510	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.