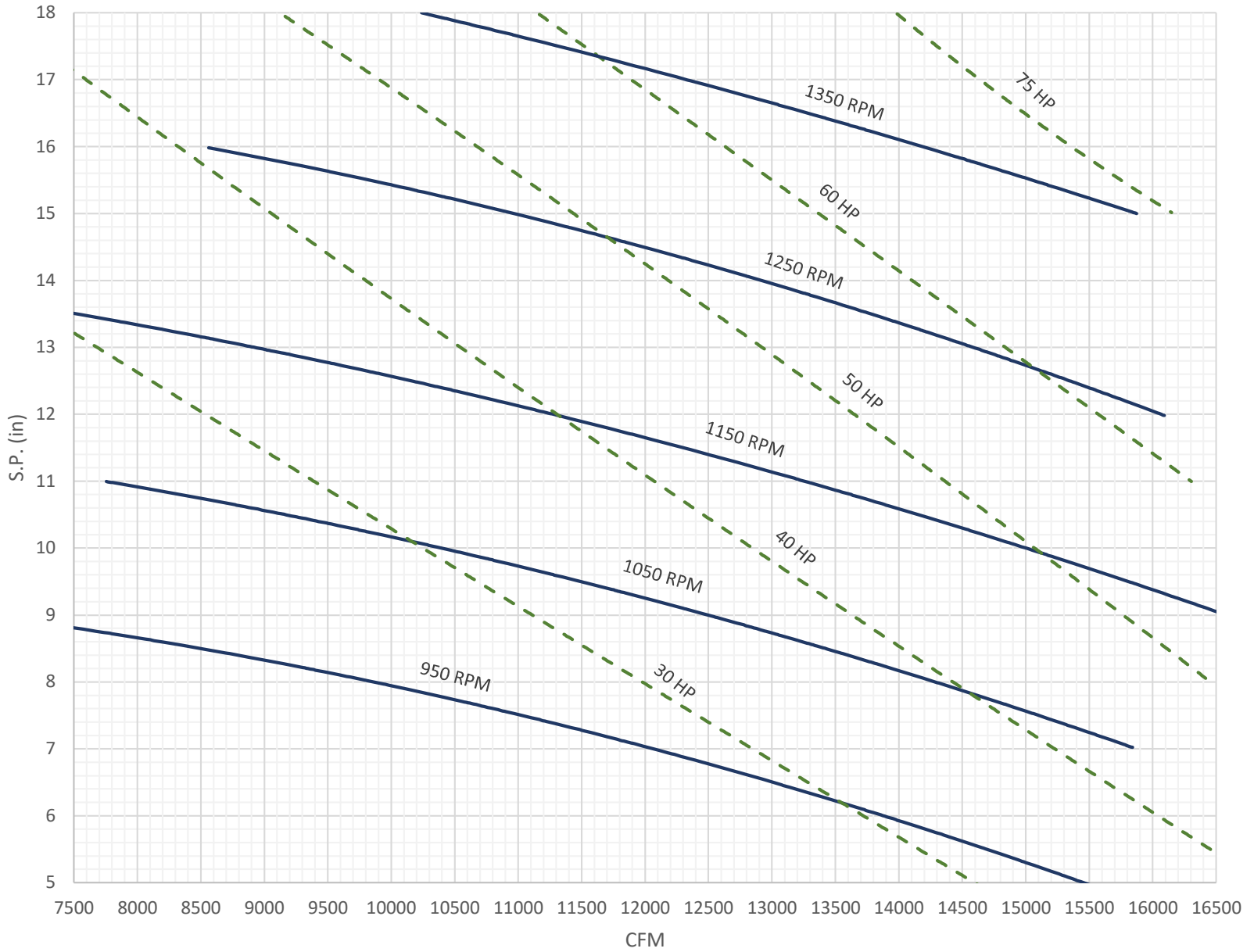


No. 50 Fan Performance Curves





## No. 50 Material Handling Fan

Wheel Diameter 43"

No. of Blades: 12

Wheel Circumference 11.255'

Max RPM: 1330

\*outlet velocity based on 21" diameter pipe

CFM	OUT VEL	3" S.P.		4" S.P.		5" S.P.		6" S.P.		7" S.P.		8" S.P.		9" S.P.		10" S.P.		11" S.P.		12" S.P.		13" S.P.		14" S.P.		15" S.P.		16" S.P.		17" S.P.		18" S.P.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4810	2000	556	4.06	633	5.68	699	7.58	764	9.25	816	10.12	870	13.40	925	14.91	971	16.27	1016	17.72	1058	20.23	1099	21.49	1139	24.26	1180	26.81	1213	30.52	1251	31.54	1276	36.16
5291	2200	564	4.50	640	6.16	707	8.22	769	9.75	820	10.67	875	14.27	930	15.73	975	16.97	1022	18.95	1062	21.20	1104	22.74	1144	25.54	1185	28.25	1217	31.42	1254	32.44	1282	37.06
5772	2400	574	5.02	651	6.82	716	8.87	774	10.35	827	11.55	882	15.14	936	16.60	980	17.79	1026	19.82	1067	22.36	1109	24.00	1149	26.83	1191	29.92	1221	32.32	1257	33.34	1288	37.96
6253	2600	584	5.55	659	7.37	724	9.51	783	11.19	836	12.67	890	16.01	941	17.38	988	19.04	1031	20.87	1074	23.90	1115	25.44	1154	28.11	1197	30.78	1225	33.45	1260	34.15	1294	38.77
6734	2800	596	6.24	670	8.09	734	10.27	790	11.93	843	13.61	898	16.88	949	18.48	994	20.02	1036	21.93	1080	25.24	1120	26.72	1158	29.18	1203	33.28	1230	34.80	1264	35.48	1300	40.10
7215	3000	607	6.88	680	8.85	743	10.99	799	12.77	851	14.65	905	17.58	954	19.35	1000	20.98	1042	23.16	1086	26.58	1124	27.76	1163	30.46	1208	34.72	1234	35.94	1270	37.36	1306	41.96
7696	3200	618	7.54	692	9.75	754	11.83	807	13.66	860	15.67	913	18.45	962	20.48	1008	22.45	1049	24.57	1093	28.23	1131	29.44	1169	32.03	1214	36.39	1240	37.52	1275	38.96	1312	43.84
8177	3400	631	8.33	701	10.45	762	12.56	815	14.45	869	16.82	923	19.47	970	21.73	1013	23.35	1057	26.32	1097	28.95	1138	31.10	1176	33.88	1220	38.07	1246	39.09	1282	41.09	1319	45.98
8658	3600	644	9.06	716	11.35	768	13.11	825	15.46	878	17.94	930	20.55	977	22.72	1021	24.93	1066	28.08	1105	30.73	1146	33.17	1182	35.37	1225	39.51	1251	40.45	1288	43.23	1325	48.57
9139	3800	656	9.81	723	12.19	782	14.48	837	16.63	889	19.29	939	21.76	986	24.11	1030	26.49	1073	29.65	1113	32.52	1154	35.08	1188	36.87	1231	41.19	1258	42.50	1295	45.37	1333	50.51
9620	4000	672	10.80	735	13.09	791	15.35	847	17.84	899	20.52	947	22.97	998	25.85	1038	28.05	1082	31.40	1121	34.12	1162	37.17	1196	38.79	1237	42.88	1266	44.57	1304	48.04	1340	52.90
10101	4200	682	11.58	746	13.92	803	16.48	856	18.95	908	21.55	956	24.29	1004	26.73	1046	29.45	1090	33.16	1131	36.27	1169	38.84	1203	40.65	1242	44.30	1274	46.88	1312	50.71	1348	55.16
10582	4400	696	12.62	759	15.06	815	17.59	866	20.05	917	22.68	964	25.62	1013	28.37	1053	30.85	1097	34.56	1138	37.69	1177	40.82	1211	42.63	1247	45.98	1283	49.41	1319	53.10	1355	57.18
11063	4600	709	13.66	771	16.19	826	18.72	877	21.50	927	24.05	973	26.70	1021	29.88	1065	33.02	1106	36.50	1144	39.09	1184	42.34	1218	44.56	1253	47.66	1289	51.03	1327	55.39	1362	59.45
11544	4800	722	14.63	784	17.41	837	19.76	887	22.68	937	25.51	985	28.50	1031	31.54	1074	34.75	1115	38.42	1155	41.26	1192	44.25	1228	47.12	1263	50.04	1299	53.56	1335	58.18	1371	61.97
12025	5000	740	16.05	797	18.71	851	21.36	901	24.29	949	27.34	997	30.20	1041	33.36	1084	36.61	1124	40.36	1165	43.41	1201	46.16	1236	49.04	1274	53.18	1308	56.09	1345	60.98	1379	64.49
12506	5200	756	17.30	810	19.99	862	22.77	913	25.70	960	28.93	1007	31.72	1051	35.17	1096	38.90	1136	42.86	1175	45.60	1210	48.27	1247	51.82	1284	55.79	1318	58.86	1353	63.42	1387	67.00
12987	5400	770	18.51	824	21.29	876	24.35	924	27.18	971	30.52	1016	33.17	1060	36.82	1105	40.70	1147	45.09	1184	47.69	1220	50.55	1256	54.17	1295	58.63	1327	61.40	1362	66.10	1396	69.52
13468	5600	785	19.87	841	22.98	889	25.96	939	29.19	985	32.47	1028	35.34	1072	38.94	1116	42.92	1155	46.85	1193	49.79	1230	52.84	1264	56.34	1305	61.25	1335	63.71	1371	68.54	1405	72.28
13949	5800	802	21.33	854	24.60	903	27.51	950	30.84	995	34.06	1039	37.23	1083	40.91	1125	44.77	1166	49.14	1204	52.26	1240	55.13	1274	58.93	1316	64.24	1345	66.59	1380	71.23	1414	74.80
14430	6000	815	22.55	867	26.18	917	29.25	964	32.73	1010	36.24	1052	39.40	1094	43.11	1135	46.79	1174	50.34	1212	54.17	1250	57.42	1285	61.75	1326	66.70	1355	69.32	1389	73.92	1422	77.32
14911	6200	831	23.90	882	27.99	931	31.12	978	34.75	1022	38.32	1065	41.72	1105	45.23	1146	48.97	1186	52.78	1224	56.84	1260	59.86	1294	64.14	1335	69.11	1364	72.04	1399	76.85	1431	80.37
15392	6400	848	25.76	897	29.83	949	33.54	995	37.11	1036	40.68	1078	44.04	1118	47.69	1157	51.15	1197	55.22	1236	59.51	1271	62.96	1305	66.96	1341	70.68	1374	75.02	1408	79.53	1440	83.47
15873	6600	864	27.71	913	31.75	964	35.71	1010	39.34	1051	43.05	1093	46.60	1130	50.13	1169	53.50	1207	57.48	1245	61.62	1282	65.62	1315	69.55	1350	73.15	1384	77.99	1418	82.46	1449	86.58
16354	6800	861	29.77	933	34.06	980	37.77	1025	41.73	1069	45.67	1108	49.70	1144	52.90	1180	56.05	1220	60.29	1256	63.71	1293	68.48	1325	72.16	1360	76.37	1393	80.72	1425	84.48	1458	89.68
16835	7000	900	32.14	949	35.98	996	40.06	1041	44.27	1082	48.17	1120	51.99	1159	55.68	1191	58.29	1232	62.91	1268	67.07	1304	71.37	1336	74.97	1370	79.09	1405	84.20	1437	88.32	1468	92.79