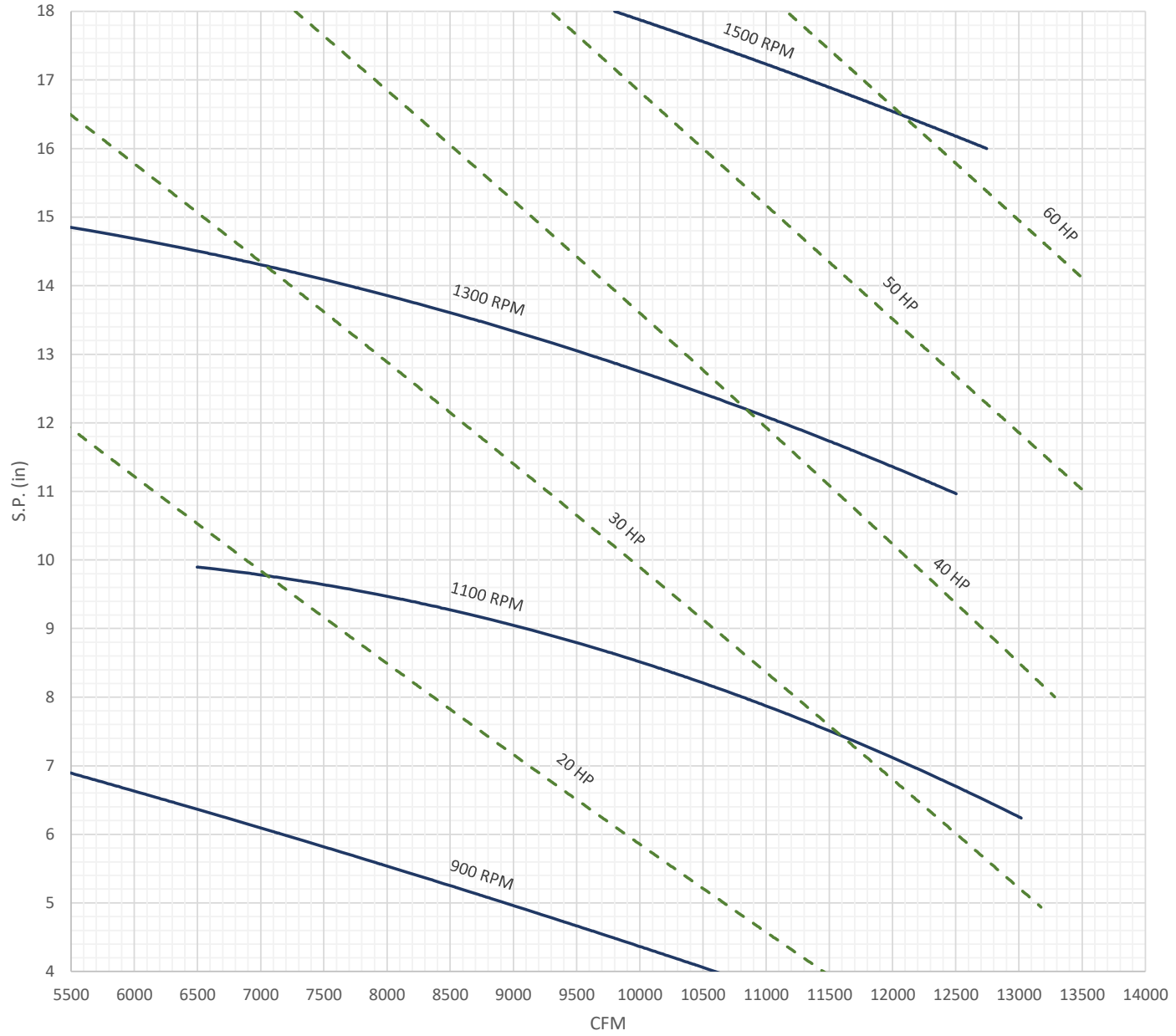


No. 45 Fan Performance Curves





No. 45 Material Handling Fan

Wheel Diameter 39.5"

No. of Blades: 12

Wheel Circumference 10.339'

Max RPM: 1450

*outlet velocity based on 19" 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
3938	2000	605	3.32	689	4.65	761	6.21	831	7.57	872	8.28	926	11.09	1007	12.25	1057	13.32	1106	14.50	1151	16.56	1197	17.59	1239	19.86	1285	21.95	1321	24.98	1363	26.09	1391	29.84
4332	2200	614	3.68	697	5.05	770	6.73	837	7.98	877	8.73	934	11.74	10133	12.88	1062	13.89	1113	15.51	1156	17.35	1202	18.61	1215	20.91	1290	23.12	1325	25.72	1366	26.69	1397	30.44
4726	2400	625	4.11	708	5.58	779	7.26	843	8.47	884	9.46	942	12.39	1019	13.59	1067	14.56	1117	16.23	1162	18.30	1208	19.65	1250	21.96	1297	24.50	1329	26.46	1369	27.29	1403	31.04
5119	2600	636	4.55	717	6.03	788	7.78	852	9.16	893	10.37	951	13.10	1024	14.23	1075	15.59	1123	17.09	1169	19.56	1214	20.84	1256	23.01	1303	25.87	1333	27.38	1372	27.95	1409	31.70
5513	2800	649	5.11	729	6.62	799	8.41	860	9.77	901	11.14	960	13.82	1033	15.13	1082	16.39	1128	17.95	1176	20.66	1219	21.87	1260	23.88	1310	27.24	1339	28.49	1376	29.04	1415	32.81
5907	3000	661	5.63	740	7.25	809	8.99	869	10.46	910	11.99	967	14.39	1039	15.84	1088	17.18	1135	18.96	1182	21.76	1224	22.72	1266	24.93	1315	28.42	1343	29.41	1383	30.58	1422	34.35
6301	3200	673	6.17	753	7.98	821	9.68	879	11.18	919	12.83	976	15.10	1047	16.67	1097	18.37	1142	20.11	1190	23.11	1231	24.10	1272	26.22	1322	29.79	1350	30.72	1388	31.89	1428	35.89
6695	3400	687	6.82	763	8.56	829	10.28	888	11.83	929	13.77	986	15.94	1056	17.79	1103	19.11	1151	21.55	1194	23.70	1239	25.46	1281	27.73	1328	31.17	1357	32.00	1395	33.64	1435	37.64
7088	3600	701	7.42	776	9.29	836	10.73	899	12.65	939	14.69	994	16.83	1064	18.60	1112	20.41	1160	22.98	1203	25.16	1248	27.16	1287	28.95	1333	32.34	1362	33.11	1403	35.39	1443	39.76
7482	3800	715	8.03	787	9.98	851	11.85	911	13.62	950	15.79	1003	17.81	1074	19.74	1121	21.68	1168	24.27	1212	26.62	1256	28.72	1293	30.18	1340	33.71	1370	34.79	1410	37.14	1451	41.35
7876	4000	732	8.84	800	10.72	861	12.57	922	14.60	961	16.80	1012	18.80	1086	21.16	1130	22.96	1178	25.71	1220	27.93	1265	30.43	1301	31.75	1346	35.09	1378	36.49	1419	39.32	1459	43.31
8270	4200	743	9.48	812	11.39	874	13.49	932	15.51	970	17.64	1022	19.89	1093	21.88	1138	24.11	1187	27.14	1231	29.69	1272	31.79	1310	33.28	1351	36.26	1387	38.37	1428	41.51	1467	45.16
8664	4400	757	10.33	827	12.33	887	14.40	942	16.41	980	18.56	1032	20.97	1103	23.22	1147	25.26	1194	28.29	1239	30.85	1281	33.41	1318	34.90	1358	37.64	1397	40.45	1436	43.47	1475	46.81
9057	4600	772	11.18	839	13.25	900	15.33	955	17.58	990	19.69	1040	21.86	1112	24.46	1159	27.03	1204	29.88	1246	32.00	1289	34.66	1326	36.47	1364	39.01	1404	41.77	1445	45.34	1483	48.67
9451	4800	786	11.98	853	14.25	911	16.18	966	18.56	1001	20.89	1053	23.33	1122	25.82	1169	28.44	1214	31.45	1257	33.78	1298	36.22	1337	38.57	1375	40.96	1414	43.84	1454	47.63	1492	50.73
9845	5000	806	13.14	868	15.31	926	17.49	981	19.89	1015	22.38	1065	24.72	1133	27.31	1180	29.97	1224	33.03	1268	35.54	1307	37.79	1345	40.15	1387	43.52	1424	45.92	1464	49.92	1501	52.79
10239	5200	823	14.17	882	16.38	939	18.64	993	21.04	1026	23.68	1076	25.97	1144	28.79	1193	31.84	1237	35.05	1279	37.32	1317	39.51	1357	42.42	1398	45.67	1435	48.18	1473	51.91	1510	54.85
10633	5400	838	15.19	897	17.43	953	19.94	1006	22.25	1038	24.98	1085	27.16	1154	30.14	1203	33.35	1249	36.91	1289	39.04	1329	41.38	1367	44.34	1410	47.99	1445	50.26	1483	54.11	1519	56.91
11026	5600	855	16.26	915	18.81	968	21.25	1022	23.90	1052	26.58	1099	28.93	1167	31.88	1215	35.36	1258	38.35	1299	40.76	1339	43.26	1376	46.12	1421	50.14	1454	52.15	1492	56.12	1529	59.17
11420	5800	873	17.46	930	20.15	982	22.56	1034	25.25	1064	27.88	1110	30.48	1178	33.49	1225	36.35	1270	40.22	1311	42.78	1350	45.13	1387	48.24	1433	52.46	1465	54.51	1502	58.31	1538	61.23
11814	6000	888	18.42	944	21.44	998	23.95	1049	26.78	1079	29.67	1124	32.25	1191	35.29	1236	38.30	1280	41.21	1320	44.34	1361	47.00	1399	50.55	1443	54.60	1475	56.75	1512	60.51	1548	63.29
12208	6200	905	19.56	961	22.93	1013	25.48	1064	28.44	1092	31.37	1138	34.15	1203	37.02	1248	40.08	1291	43.21	1332	46.53	1372	49.00	1409	52.50	1452	56.57	1485	58.97	1523	62.91	1558	65.79
12602	6400	923	21.09	977	24.52	1033	27.46	1082	30.38	1108	33.30	1152	36.05	1217	39.04	1260	41.87	1303	45.21	1345	48.72	1384	51.54	1421	54.81	1460	57.86	1496	61.41	1533	65.10	1568	68.33
12995	6600	941	22.69	994	25.99	1050	29.22	1099	32.20	1123	35.25	1168	38.15	1230	41.03	1272	43.79	1314	47.05	1355	50.44	1395	53.71	1432	56.93	1469	59.90	1507	63.84	1544	67.50	1578	70.87
13389	6800	959	24.37	1015	27.88	1066	30.92	1116	34.16	1140	37.39	1185	40.68	1246	43.31	1285	45.88	1328	49.35	1367	52.15	1407	56.06	1442	59.07	1481	62.52	1517	66.08	1551	69.15	1588	73.41
13783	7000	980	26.31	1033	29.45	1085	32.79	1133	36.24	1156	39.44	1197	42.56	1261	45.58	1296	47.72	1340	51.50	1381	54.90	1419	58.42	1455	61.39	1491	64.74	1529	68.92	1564	72.30	1598	75.96