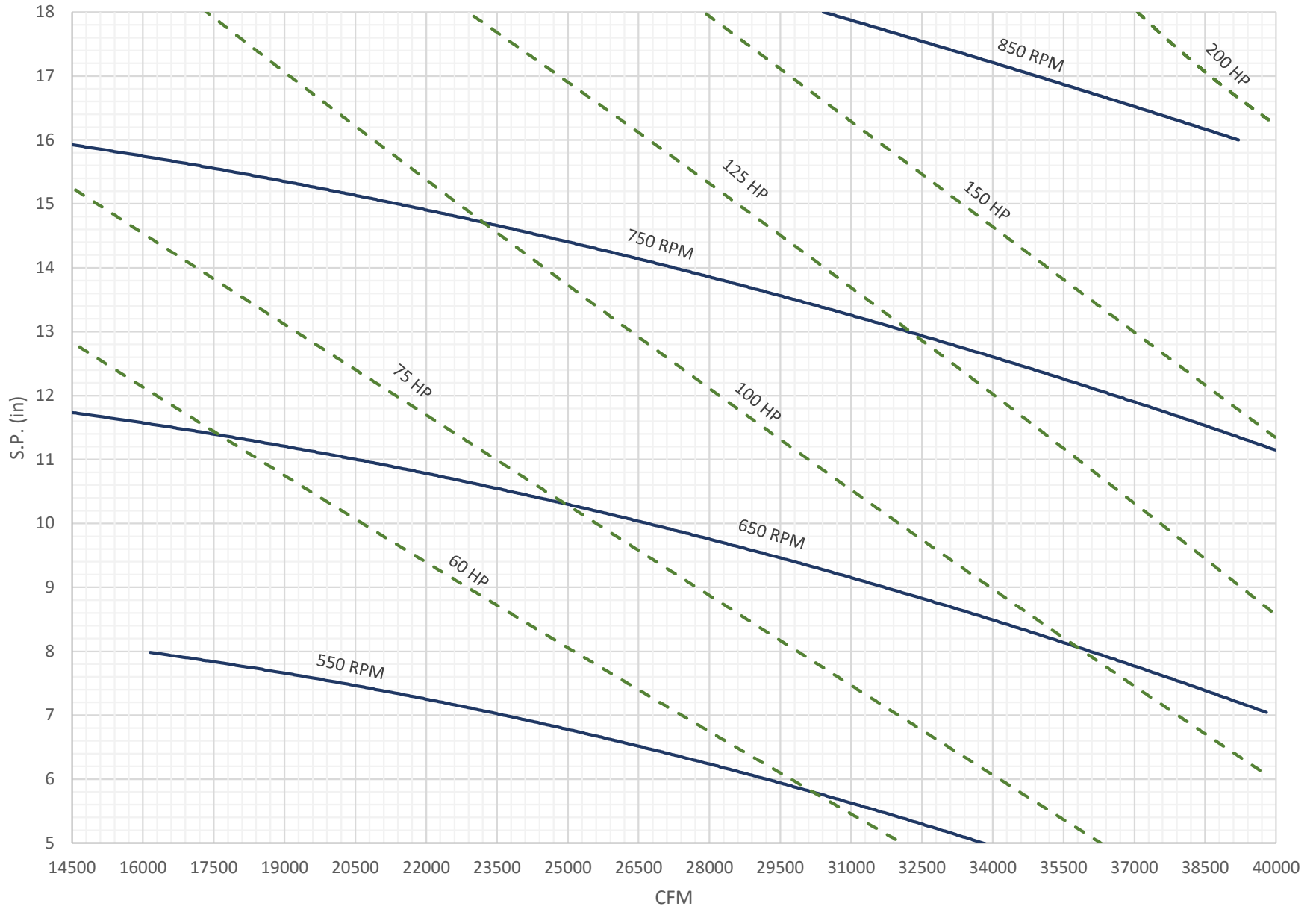


No. 80 Fan Performance Curves





## No. 80 Material Handling Fan

Wheel Diameter 70"

No. of Blades: 12

Wheel Circumference 18.328'

Max RPM: 820

\*outlet velocity based on 33" 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
11880	2000	341	10.02	389	14.02	429	18.73	469	22.34	501	24.98	534	33.08	568	36.97	597	40.17	624	43.75	650	49.97	675	53.06	699	59.91	725	66.21	746	75.37	768	77.89	787	89.31
13068	2200	347	11.12	393	15.22	435	20.31	472	24.08	504	26.34	537	35.23	571	38.85	599	41.90	628	46.80	653	52.34	678	56.15	703	63.08	728	69.75	748	77.59	770	80.11	790	91.53
14256	2400	353	12.40	400	16.34	440	21.89	476	25.55	508	28.53	542	37.38	575	41.00	602	43.94	631	48.95	656	55.20	681	59.27	706	66.24	732	73.89	750	79.81	772	82.33	793	93.75
15444	2600	359	13.72	405	18.20	445	23.48	481	27.62	513	31.28	547	39.53	578	42.92	607	47.03	634	51.55	660	59.01	685	62.85	709	69.41	735	78.04	752	82.60	774	84.33	796	95.75
16632	2800	366	15.41	411	19.97	451	25.36	485	29.47	518	33.61	552	41.68	583	45.63	610	49.44	637	54.15	663	62.33	688	65.98	711	72.05	739	82.18	755	85.95	777	87.61	799	99.03
17820	3000	373	16.99	418	21.86	457	27.13	491	31.54	523	36.17	556	43.41	586	47.78	614	51.81	640	57.20	667	65.64	691	68.54	714	75.21	742	85.73	758	88.74	780	92.25	802	103.62
19008	3200	380	18.65	425	24.08	463	29.20	496	33.73	528	38.70	561	45.56	591	50.57	619	55.43	644	60.67	672	69.71	695	72.69	718	79.09	746	89.87	762	92.66	783	96.20	806	108.26
20196	3400	388	20.57	433	25.81	468	31.01	501	35.68	534	41.53	567	48.08	596	53.66	622	57.65	650	65.00	674	71.48	699	76.80	723	83.65	749	94.02	765	96.54	787	101.48	810	113.54
21384	3600	395	22.38	438	28.04	472	32.37	507	38.17	539	44.31	571	50.76	600	56.11	627	61.57	655	69.33	679	75.89	704	81.92	726	87.35	752	97.56	768	99.89	791	106.75	814	119.94
22572	3800	403	24.23	444	30.11	480	35.61	514	41.07	546	47.63	577	53.73	606	59.54	633	65.42	659	73.22	684	80.30	709	86.63	730	91.04	756	101.70	773	104.94	796	112.03	819	124.73
23760	4000	413	26.68	452	32.33	486	37.91	520	44.05	552	50.68	582	56.71	613	63.83	638	69.26	664	77.55	689	84.26	714	91.79	734	95.79	760	105.85	778	110.07	801	118.62	823	130.64
24948	4200	419	28.60	458	34.37	493	40.70	526	46.80	557	53.21	587	59.99	617	66.02	642	72.73	670	81.88	695	89.57	718	95.90	739	100.38	763	109.39	783	115.76	806	125.22	828	136.22
26126	4400	427	31.16	466	37.19	500	43.45	532	49.51	563	56.00	593	63.27	622	70.05	647	76.19	674	85.35	699	93.07	723	100.80	744	105.28	766	113.54	788	120.01	811	131.13	832	141.19
27324	4600	436	33.73	474	39.98	508	46.24	539	53.02	569	59.39	598	65.94	627	73.78	654	81.54	679	90.13	703	96.54	727	104.57	748	110.03	770	117.68	792	126.01	815	136.78	837	146.81
28512	4800	443	36.14	481	42.99	514	48.80	545	56.00	575	63.00	605	70.39	633	77.89	660	85.80	685	94.88	709	101.89	732	109.28	754	116.36	776	123.56	798	132.26	820	143.68	842	153.03
29700	5000	455	39.64	490	46.20	523	52.75	553	60.00	583	67.53	612	74.57	639	82.37	666	90.40	691	99.67	715	107.20	737	113.99	759	121.11	783	131.32	803	138.52	826	150.58	847	159.24
30888	5200	464	42.73	498	49.36	530	56.22	561	63.46	590	71.44	619	78.34	645	86.86	673	96.05	698	105.74	722	112.59	743	119.19	766	127.97	789	137.76	809	145.34	831	156.62	852	165.46
32076	5400	473	45.82	506	52.57	538	60.14	568	67.11	597	75.36	624	81.92	651	90.93	679	100.61	705	111.35	727	117.76	749	124.84	771	133.77	796	144.77	815	151.63	837	163.24	857	171.68
33264	5600	482	49.06	516	56.75	546	64.10	577	72.09	605	80.19	632	87.27	658	96.16	686	106.00	710	115.68	733	122.96	755	130.49	777	139.12	802	151.25	820	157.32	842	169.27	863	178.50
34452	5800	493	52.68	525	60.74	554	68.05	584	76.15	611	84.11	638	91.94	665	101.02	691	110.56	716	121.34	740	129.06	762	136.14	783	145.53	808	158.26	826	164.44	848	175.90	868	184.72
35640	6000	501	55.58	533	64.66	563	72.24	592	80.83	620	89.49	646	97.29	672	106.45	697	115.53	722	124.31	745	133.77	768	141.80	789	152.50	815	164.11	832	171.19	853	182.53	873	190.93
36828	6200	511	59.01	542	69.18	572	76.87	601	85.80	628	94.64	654	103.02	679	111.69	704	120.92	729	130.34	752	140.36	774	147.83	795	158.38	820	170.66	838	177.90	859	189.77	879	198.47
38016	6400	521	63.61	551	73.67	583	82.82	611	91.64	637	100.46	662	108.75	687	117.76	711	126.31	735	136.37	759	146.96	781	155.48	802	165.35	824	174.54	844	185.24	865	196.40	885	206.12
39204	6600	531	68.43	561	78.42	592	88.18	620	97.14	645	106.30	671	115.08	694	123.78	718	132.11	742	141.95	765	152.16	787	162.03	808	171.75	829	180.65	850	192.59	871	203.63	890	213.81
40392	6800	541	73.52	573	84.11	602	93.26	629	103.06	655	112.78	681	122.73	703	130.64	725	138.41	749	148.88	771	157.32	794	169.12	814	178.20	836	188.60	856	199.34	875	208.61	896	221.46
41580	7000	553	79.36	583	88.85	612	96.91	639	109.31	664	118.96	688	128.38	712	137.50	731	143.94	757	155.36	779	165.61	801	176.24	821	185.13	841	195.30	863	207.93	883	218.10	902	229.14