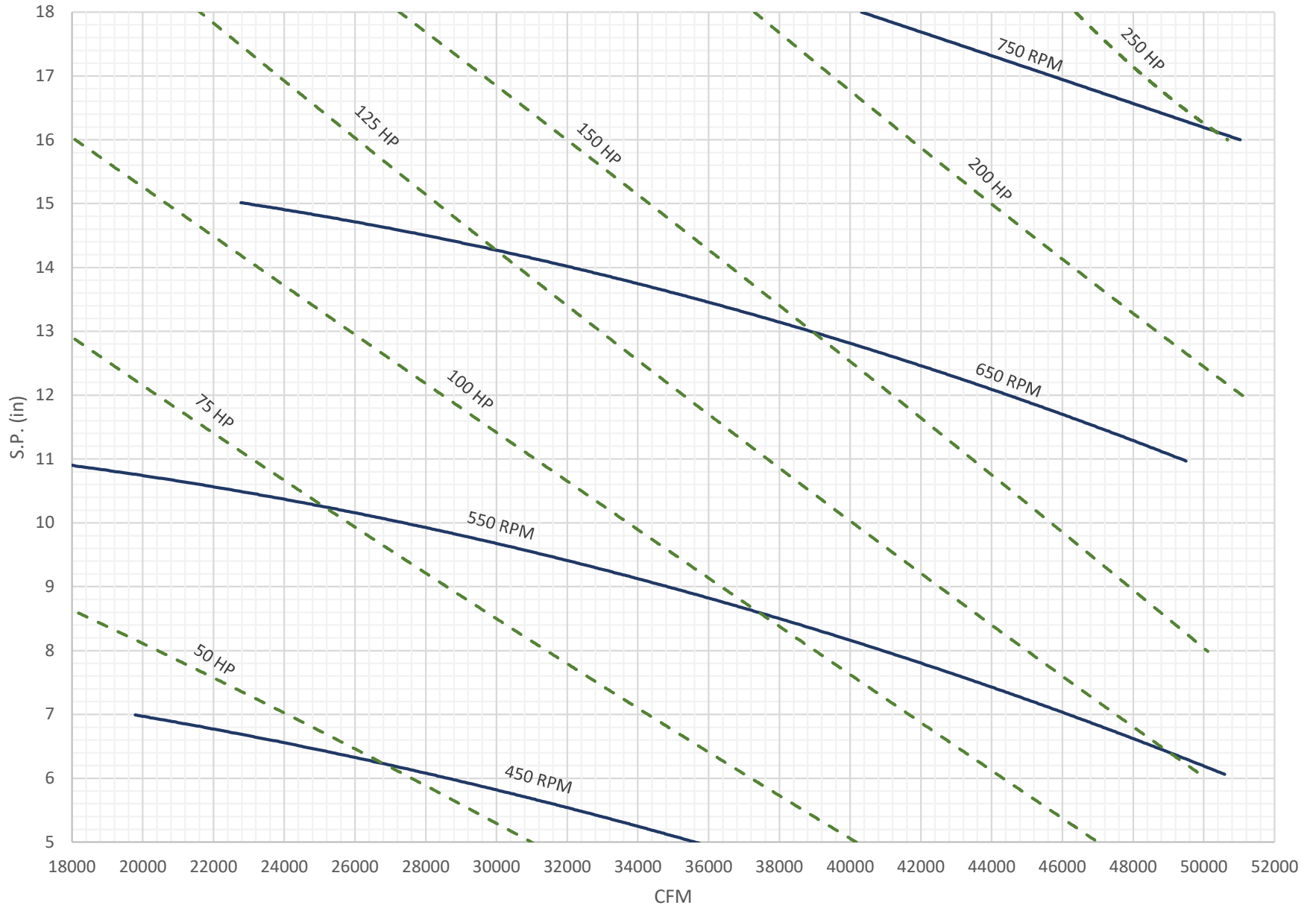


No. 90 Fan Performance Curves





### No. 90 Material Handling Fan

Wheel Diameter 80"

No. of Blades: 12

Wheel Circumference 20.943'

Max RPM: 716

\*outlet velocity based on 37" 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
14934	2000	299	12.60	340	17.62	376	23.54	410	28.71	439	31.41	468	40.99	497	46.47	522	50.50	546	55.00	569	62.81	591	66.70	612	75.32	635	83.23	652	94.73	672	97.90	687	111.04
16427	2200	303	13.97	344	19.14	380	25.53	413	30.27	441	33.11	471	43.99	500	48.84	524	52.68	549	58.83	571	65.80	594	70.58	615	79.30	637	87.63	654	97.53	674	100.70	690	113.84
17921	2400	309	15.58	350	21.17	385	27.52	416	32.12	445	35.86	474	46.99	503	51.54	527	55.23	552	61.53	574	69.40	596	74.51	617	83.28	640	92.89	656	100.33	676	103.50	693	116.64
19414	2600	314	17.24	354	22.88	389	29.51	421	34.72	449	39.32	478	49.69	506	53.95	531	59.12	554	64.80	577	74.18	599	79.01	620	87.26	644	98.10	658	103.84	677	106.01	696	119.15
20908	2800	320	19.37	360	25.11	395	31.88	425	37.04	453	42.25	483	52.39	510	57.37	534	62.15	557	68.07	581	78.35	602	82.94	622	90.57	647	103.31	661	108.05	680	111.35	699	124.49
22401	3000	326	21.36	385	27.47	400	34.11	429	39.65	458	45.48	486	54.57	513	60.07	537	65.13	560	71.91	584	82.52	604	86.17	625	94.55	649	107.77	663	111.56	683	115.96	702	130.27
23894	3200	332	23.45	372	30.27	405	36.71	434	42.40	462	48.65	491	57.27	517	63.57	542	69.68	564	76.27	588	87.63	608	91.38	628	99.43	653	112.98	666	116.48	685	120.94	705	136.09
25388	3400	339	25.86	377	32.45	410	38.99	438	44.86	467	52.20	496	60.44	522	67.49	545	72.48	568	81.71	590	89.86	612	96.54	632	105.16	656	118.19	670	121.36	689	127.57	709	142.73
26881	3600	346	28.14	383	35.24	413	40.69	444	47.99	472	55.71	500	63.81	525	70.53	549	77.40	573	87.16	594	95.40	616	102.98	635	109.80	658	122.64	672	125.58	693	134.20	712	150.78
28375	3800	353	30.46	389	37.85	420	44.95	450	51.63	478	59.88	504	67.55	530	74.84	554	82.23	577	92.04	599	100.95	620	108.90	639	114.45	662	127.85	676	131.93	696	140.83	716	156.79
29868	4000	361	33.54	395	40.64	425	47.65	455	55.38	483	63.71	509	71.29	536	80.24	558	87.07	581	97.49	603	105.92	625	115.39	643	120.41	665	133.06	680	138.37	701	149.12	720	164.23
31361	4200	367	35.95	401	43.20	432	51.16	460	58.83	488	66.89	514	75.41	540	82.99	562	91.42	586	102.94	608	112.60	628	120.56	647	126.19	667	137.52	685	145.52	705	157.41	725	171.24
32855	4400	374	39.17	408	46.75	438	54.62	465	62.24	493	70.39	519	79.53	544	88.06	566	96.78	590	107.29	612	117.00	633	126.71	651	132.35	671	142.73	690	153.38	709	164.85	728	177.50
34348	4600	381	42.40	414	50.26	444	58.12	472	66.65	498	74.66	523	82.90	549	92.75	572	102.51	594	113.31	615	121.36	636	131.45	655	138.32	674	147.94	693	158.10	713	171.95	732	184.55
35842	4800	388	45.43	421	54.05	450	61.34	477	70.39	504	79.20	530	88.49	554	97.91	577	107.86	599	119.28	621	128.09	641	137.37	660	146.28	679	155.33	698	166.27	718	180.62	737	192.37
37335	5000	398	49.83	428	58.08	457	66.32	484	75.41	510	84.89	536	93.75	559	103.55	583	113.64	604	125.29	626	134.77	645	143.29	664	152.25	685	165.08	703	174.13	723	189.29	741	200.19
38828	5200	406	53.72	436	62.05	464	70.68	491	79.77	516	89.81	541	98.48	565	109.19	589	120.75	611	132.92	631	141.54	650	149.83	670	160.87	690	173.18	708	182.71	727	196.87	746	208.00
40322	5400	414	57.60	443	66.08	471	75.60	497	84.37	522	94.74	546	102.98	570	114.30	594	126.48	617	139.98	636	148.03	656	156.94	675	168.16	696	182.00	713	190.62	732	205.21	750	215.82
41815	5600	422	61.68	452	71.34	478	80.58	504	90.62	529	100.80	553	109.71	576	120.89	600	133.25	621	145.43	641	154.57	661	164.04	680	174.89	702	190.14	718	197.77	737	212.79	755	224.39
43309	5800	431	66.22	459	76.36	485	85.55	511	95.73	535	105.73	558	115.58	582	127.00	605	138.98	627	152.53	647	162.24	666	171.15	685	182.49	707	198.95	723	206.72	742	221.12	760	232.21
44802	6000	438	69.87	466	81.29	493	90.81	518	101.61	543	112.50	565	122.31	588	133.82	610	145.24	632	156.27	652	168.16	672	178.25	691	191.71	713	207.09	728	215.20	747	229.46	764	240.02
46295	6200	447	74.18	474	86.97	500	96.63	526	107.86	549	118.95	572	129.58	594	140.40	616	152.02	638	163.85	658	176.45	677	185.83	696	199.10	717	214.54	733	223.63	752	238.56	769	249.50
47789	6400	456	79.96	482	92.61	510	104.12	535	115.20	557	126.29	580	136.71	601	148.03	622	158.78	644	171.43	664	184.74	684	195.45	702	207.86	721	219.42	738	232.87	757	246.89	774	259.11
49282	6600	464	86.02	491	98.58	518	110.85	543	122.12	565	133.63	587	144.67	608	155.61	628	166.08	649	176.44	669	191.28	689	203.69	707	215.91	725	227.09	744	242.11	762	255.99	779	268.78
50776	6800	473	92.42	501	105.73	527	117.24	551	129.58	573	141.78	596	154.28	615	164.23	635	173.99	656	187.16	675	197.77	695	212.60	712	224.01	731	237.09	749	250.59	766	262.24	784	278.39
52269	7000	484	99.76	510	111.70	536	124.35	559	137.42	581	149.55	602	161.39	623	172.85	640	180.95	662	195.31	682	208.19	701	221.55	718	232.73	736	245.52	755	261.39	772	274.18	789	288.05