

SIZE 122

TYPE TB TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 1.51 S. F. WHEEL DIAMETER = 12.25"

INLET AND OUTLET DIA = 16.625" TIP SPEED FPM = 3.21 x RPM MAX. BHP = .073 (RPM/ 1000)cubed

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
754	500	1171	0.10	1331	0.15	1478	0.22	1626	0.29								
904	600	1342	0.15	1499	0.22	1610	0.27	1739	0.35	1974	0.51						
1055	700	1522	0.21	1659	0.29	1766	0.35	1873	0.43	2078	0.61	2287	0.80				
1206	800	1696	0.29	1815	0.37	1929	0.46	2024	0.53	2207	0.71	2397	0.93	2558	1.12		
1356	900	1878	0.39	1988	0.48	2102	0.58	2184	0.66	2350	0.85	2519	1.07	2672	1.29	2836	1.53
1507	1000	2055	0.50	2160	0.61	2255	0.71	2345	0.81	2510	1.02	2661	1.24	2811	1.48	2956	1.74
1658	1100	2242	0.64	2337	0.76	2425	0.87	2510	0.98	2672	1.21	2827	1.46	2956	1.70	3083	1.95
1808	1200	2431	0.81	2517	0.94	2607	1.08	2684	1.19	2830	1.43	2997	1.73	3104	1.94	3233	2.23
1959	1300	2617	1.01	2698	1.14	2781	1.29	2859	1.43	3012	1.71	3158	2.00	3259	2.22	3381	2.51
2110	1400	2807	1.24	2881	1.38	2959	1.54	3044	1.71	3187	2.01	3318	2.30	3422	2.55	3533	2.84
2261	1500	2998	1.50	3077	1.67	3146	1.83	3212	1.99	3340	2.29	3422	2.49	3577	2.89	3690	3.21
2411	1600	3188	1.80	3254	1.96	3324	2.14	3392	2.33	3511	2.64	3629	2.96	3742	3.29	3853	3.62
2562	1700	3384	2.15	3447	2.32	3502	2.48	3573	2.69	3693	3.06	3803	3.39	3906	3.71	4010	4.05
2713	1800	3579	2.54	3631	2.70	3688	2.88	3755	3.10	3863	3.47	3976	3.79	4073	4.18	4170	4.53
2863	1900	3774	2.98	3825	3.15	3873	3.31	3934	3.54	4042	3.95	4150	4.36	4245	4.71	4340	5.08
3014	2000	3961	3.43	4014	3.62	4064	3.82	4111	4.01	4227	4.48	4325	4.90	4418	5.28	4510	5.67
3165	2100	4155	3.95	4206	4.16	4254	4.36	4298	4.55	4405	5.04	4497	5.46	4592	5.90	4682	6.31
3315	2200	4352	4.54	4392	4.72	4438	4.93	4484	5.15	4580	5.61	4675	6.10	4768	6.57	4849	6.98
3466	2300	4546	5.17	4587	5.37	4630	5.58	4673	5.80	4763	6.28	4855	6.79	4947	7.29	5030	7.75
3617	2400	4738	5.84	4772	6.02	4811	6.23	4861	6.50	4944	6.98	5034	7.52	5116	8.02	5213	8.60
3768	2500	4926	6.55	4966	6.78	5007	7.02	5043	7.23	5133	7.79	5210	8.27	5301	8.87	5383	9.40
3918	2600	5123	7.37	5159	7.59	5196	7.82	5234	8.06	5316	8.61	5395	9.14	5477	9.72	5555	10.28
4069	2700	5315	8.21	5352	8.47	5385	8.68	5418	8.91	5498	9.48	5579	10.07	5657	10.65	5737	11.28
4220	2800	5506	9.12	5539	9.36	5573	9.61	5613	9.90	5689	10.47	5761	11.03	5841	11.68	5917	12.30

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1206	800	2901	1.58	3066	1.85												
1356	900	2991	1.78	3141	2.03	3300	2.33	3436	2.60								
1507	1000	3096	2.00	3251	2.30	3381	2.56	3515	2.84	3766	3.44						
1658	1100	3217	2.24	3353	2.54	3489	2.85	3606	3.13	3845	3.73	4087	4.41				
1808	1200	3344	2.49	3478	2.83	3601	3.15	3716	3.46	3954	4.12	4172	4.77	4383	5.46	4590	6.20
1959	1300	3493	2.80	3607	3.12	3729	3.48	3836	3.80	4057	4.50	4276	5.21	4464	5.86	4670	6.63
2110	1400	3641	3.14	3746	3.45	3857	3.81	3964	4.17	4157	4.84	4376	5.64	4574	6.39	4749	7.08
2261	1500	3800	3.54	3896	3.79	3997	4.19	4092	4.53	4290	5.30	4488	6.09	4682	6.91	4877	7.75
2411	1600	3951	3.94	4048	4.27	4145	4.61	4229	4.95	4414	5.71	4603	6.55	4794	7.42	4986	8.35
2562	1700	4109	4.40	4198	4.73	4295	5.10	4375	5.43	4549	6.18	4737	7.08	4905	7.93	5094	8.90
2713	1800	4266	4.89	4367	5.29	4450	5.64	4531	5.98	4694	6.74	4877	7.65	5045	8.56	5202	9.45
2863	1900	4433	5.46	4520	5.82	4627	6.30	4691	6.60	4864	7.45	5015	8.25	5184	9.21	5340	10.17
3014	2000	4595	6.05	4689	6.47	4769	6.85	4864	7.32	5021	8.13	5174	8.99	5330	9.93	5495	11.00
3165	2100	4769	6.73	4859	7.17	4929	7.52	5014	7.96	5192	8.96	5341	9.83	5476	10.70	5635	11.77
3315	2200	4938	7.43	5019	7.86	5109	8.34	5177	8.72	5344	9.70	5509	10.74	5654	11.72	5799	12.74
3466	2300	5110	8.10	5193	8.67	5266	9.08	5354	9.61	5491	10.46	5672	11.65	5819	12.69	5958	13.73
3617	2400	5284	9.01	5369	9.53	5450	10.04	5521	10.49	5661	11.41	5830	12.59	5994	13.82	6128	14.87
3768	2500	5461	9.91	5542	10.45	5625	10.99	5697	11.48	5840	12.49	5991	13.60	6165	14.96	6301	16.10
3918	2600	5648	10.94	5718	11.43	5803	12.03	5877	12.56	6023	13.66	6155	14.68	6316	16.01	6477	17.43
4069	2700	5826	11.95	5904	12.54	5971	12.85	6061	13.74	6203	14.88	6323	15.85	6470	17.12	6642	18.69
4220	2800	5995	12.95	6089	13.71	6158	14.05	6228	15.30	6373	16.07	6518	17.33	6636	18.41	6793	19.92

Underlined figures approximate most efficient selection.

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 150

TYPE TB TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 2.26 S. F. WHEEL DIAMETER = 15.00"

INLET AND OUTLET DIA = 20.375" TIP SPEED FPM = 3.93 x RPM MAX. BHP = .210 (RPM/ 1000)cubed

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1130	500	956	0.15	1087	0.23	1207	0.33	<u>1328</u>	0.43								
1356	600	1096	0.22	1224	0.32	1315	0.41	<u>1420</u>	0.53								
1582	700	1243	0.32	1355	0.43	1443	0.53	1530	0.65	1612	0.77						
										1697	0.91	1868	1.20				
1808	800	1385	0.44	1482	0.56	1575	0.68	1653	0.80	1803	1.07	1958	1.39	2089	1.68		
2034	900	1533	0.58	1624	0.72	1717	0.87	1783	0.99	1919	1.27	2057	1.60	2182	1.93	2316	2.30
2260	1000	1679	0.75	1764	0.91	1842	1.06	1915	1.21	2050	1.52	2173	1.85	2295	2.22	2414	2.61
2486	1100	1831	0.96	1909	1.14	1980	1.31	2050	1.47	2182	1.82	2309	2.19	2414	2.55	2518	2.93
2711	1200	1985	1.22	2056	1.41	2129	1.61	2192	1.79	2312	2.14	2448	2.59	2535	2.90	2640	3.34
2937	1300	2137	1.51	2203	1.71	2271	1.93	2335	2.14	2460	2.56	2579	3.00	2662	3.33	2761	3.77
3163	1400	2292	1.85	2353	2.07	2416	2.31	2486	2.57	2602	3.01	2710	3.45	2795	3.83	2885	4.26
3389	1500	2448	2.25	2513	2.51	2569	2.75	2623	2.98	2728	3.44	2795	3.73	2921	4.33	3013	4.81
3615	1600	2604	2.70	2658	2.94	2714	3.21	2770	3.49	2867	3.96	2964	4.44	3056	4.93	3147	5.44
3841	1700	2763	3.22	2815	3.48	2860	3.72	2918	4.04	3016	4.59	3106	5.08	3190	5.57	3275	6.08
4067	1800	2923	3.81	2965	4.04	3012	4.32	3067	4.64	3155	5.20	3247	5.69	3327	6.27	3406	6.80
4293	1900	3082	4.46	3124	4.72	3163	4.97	3213	5.31	3301	5.92	3389	6.53	3467	7.06	3544	7.62
4519	2000	3235	5.14	3278	5.43	3319	5.72	3357	6.01	3452	6.72	3532	7.34	3608	7.92	3683	8.51
4745	2100	3393	5.92	3435	6.23	3474	6.53	3510	6.82	3597	7.55	3672	8.19	3750	8.85	3823	9.47
4971	2200	3554	6.80	3587	7.07	3624	7.38	3662	7.72	3740	8.41	3818	9.15	3894	9.86	3960	10.46
5197	2300	3712	7.75	3746	8.05	3781	8.37	3817	8.70	3890	9.41	3965	10.18	4040	10.94	4108	11.62
5423	2400	3870	8.76	3897	9.03	3929	9.35	3970	9.75	4037	10.47	4111	11.27	4178	12.03	4258	12.89
5649	2500	4023	9.82	4056	10.16	4089	10.52	4118	10.84	4192	11.68	4255	12.40	4329	13.30	4396	14.10
5875	2600	4184	11.05	4213	11.38	4244	11.72	4274	12.09	4342	12.90	4406	13.71	4473	14.57	4537	15.42
6101	2700	4340	12.32	4371	12.70	4398	13.02	4425	13.37	4490	14.21	4556	15.10	4620	15.96	4685	16.91
6327	2800	4496	13.68	4524	14.03	4551	14.40	4584	14.85	4646	15.70	4705	16.53	4771	17.51	4833	18.45

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1808	800	2369	2.38	2504	2.77												
2034	900	2442	2.66	2565	3.05	2695	3.49	2606	3.90								
2260	1000	2529	3.00	2655	3.44	2761	3.83	2870	4.26	3075	5.15						
2486	1100	2627	3.36	2738	3.81	2849	4.28	2945	4.69	3140	5.59	3338	6.61				
2711	1200	2731	3.73	2840	4.24	2941	4.72	3034	5.18	3229	6.17	3408	7.15	3580	8.19	3748	9.30
2937	1300	2853	4.20	2946	4.68	3045	5.22	3133	5.70	3313	6.74	3492	7.81	3646	8.79	3814	9.94
3163	1400	2974	4.71	3059	5.18	3150	5.71	3237	6.25	3395	7.25	3574	8.46	3736	9.58	3879	10.61
3389	1500	3103	5.30	3182	5.68	3264	6.28	3342	6.80	3504	7.94	3665	9.13	3823	10.36	3983	11.62
3615	1600	3226	5.91	3306	6.41	3385	6.92	3454	7.42	3605	8.57	3759	9.82	3915	11.13	4072	12.52
3841	1700	3356	6.60	3428	7.09	3508	7.65	3573	8.14	3715	9.27	3869	10.62	4006	11.89	4160	13.35
4067	1800	3484	7.34	3566	7.93	3634	8.45	3700	8.97	3833	10.10	3983	11.48	4120	12.84	4248	14.18
4293	1900	3621	8.19	3691	8.73	3779	9.44	3831	9.89	3972	11.16	4096	12.37	4233	13.81	4361	15.25
4519	2000	3753	9.07	3829	9.71	3895	10.27	3973	10.97	4100	12.20	4226	13.49	4353	14.89	4487	16.49
4745	2100	3894	10.09	3968	10.75	4026	11.28	4095	11.94	4240	13.43	4362	14.75	4472	16.04	4602	17.64
4971	2200	4033	11.15	4099	11.78	4172	12.50	4228	13.07	4364	14.54	4499	16.10	4617	17.57	4736	19.10
5197	2300	4113	12.14	4241	12.99	4300	13.62	4372	14.40	4485	15.68	4632	17.47	4752	19.03	4866	20.59
5423	2400	4315	13.52	4384	14.29	4451	15.06	4509	15.72	4623	17.10	4761	18.88	4895	20.72	5004	22.30
5649	2500	4460	14.86	4526	15.66	4593	16.48	4653	17.22	4770	18.73	4893	20.39	5035	22.43	5145	24.14
5875	2600	4612	16.40	4670	17.14	4739	18.04	4799	18.83	4919	20.48	5027	22.02	5158	24.00	5290	26.13
6101	2700	4758	17.91	4822	18.81	4877	19.27	4950	20.60	5066	22.31	5163	23.76	5284	25.67	5424	28.03
6327	2800	4896	19.41	4973	20.56	5029	21.07	5086	22.94	5205	24.10	5323	25.99	5420	27.60	5548	29.86

Underlined figures approximate most efficient selection.

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 180

TYPE TBA TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 3.30 S. F. WHEEL DIAMETER = 8.25"

INLET AND OUTLET DIA = 24.625" TIP SPEED FPM = 4.78 x RPM MAX. BHP = .45 (RPM/ 1000)cubed

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1620	500	769	0.15	889	0.25	989	0.35	1085	0.45								
1944	600	876	0.21	988	0.33	1072	0.43	1160	0.56	1322	0.81						
2268	700	984	0.29	1086	0.42	1169	0.55	1239	0.67	1394	0.97	1532	1.26				
2592	800	1098	0.39	1182	0.52	1269	0.68	1335	0.82	1472	1.13	1598	1.46	1733	1.83		
2916	900	1213	0.51	1289	0.66	1371	0.84	1435	0.99	1560	1.32	1683	1.70	1789	2.04	1916	2.49
3240	1000	1332	0.67	1404	0.83	1473	1.01	1538	1.19	1660	1.57	1780	1.99	1861	2.30	1972	2.74
3564	1100	1452	0.85	1517	1.03	1583	1.22	1645	1.43	1763	1.85	1875	2.29	1949	2.60	2047	3.06
3888	1200	1570	1.07	1630	1.25	1690	1.45	1749	1.67	1864	2.14	1976	2.64	2051	3.00	2132	3.42
4212	1300	1693	1.33	1749	1.53	1801	1.72	1860	1.97	1963	2.44	2073	2.99	2143	3.37	2234	3.88
4536	1400	1815	1.63	1869	1.85	1918	2.06	1967	2.29	2072	2.82	2172	3.38	2246	3.83	2324	4.31
4860	1500	1939	1.99	1986	2.20	2035	2.44	2087	2.70	2176	3.20	2265	3.75	2347	4.29	2429	4.86
5184	1600	2062	2.38	2109	2.61	2150	2.84	2197	3.11	2282	3.62	2365	4.19	2445	4.81	2525	5.38
5508	1700	2184	2.81	2229	3.07	2270	3.32	2312	3.58	2394	4.14	2472	4.71	2549	5.31	2627	5.97
5832	1800	2308	3.31	2353	3.60	2388	3.84	2426	4.09	2504	4.66	2582	5.28	2657	5.94	2728	6.58
6156	1900	2431	3.86	2474	4.16	2513	4.44	2545	4.69	2617	5.27	2697	5.95	2766	6.59	2838	7.32
6480	2000	2554	4.46	2593	4.77	2628	5.05	2667	5.38	2737	5.98	2808	6.64	2882	7.38	2946	8.07
6804	2100	2679	5.14	2714	5.45	2751	5.77	2786	6.08	2852	6.71	2922	7.40	2991	8.18	3054	8.87
7128	2200	2800	0.86	2838	6.20	2873	6.55	2903	6.83	2966	7.47	3034	8.21	3099	8.97	3166	9.77
7452	2300	2925	6.67	2961	7.02	2988	7.33	3023	7.67	3081	8.32	3141	9.02	3207	9.84	3273	10.67
7776	2400	3046	7.51	3077	7.85	3109	8.21	3141	8.57	3198	9.24	3260	10.02	3317	10.76	3380	11.62
8100	2500	3173	8.49	3202	8.83	3231	9.19	3265	9.61	3324	10.35	3377	11.07	3433	11.85	3490	12.69
8424	2600	3300	9.55	3326	9.89	3357	10.29	3385	10.65	3446	11.49	3497	12.23	3547	12.97	3602	13.82
8748	2700	3423	10.64	3451	11.03	3483	11.47	3508	11.82	3571	12.74	3620	13.50	3671	14.33	3715	15.04
9072	2800	3546	11.82	3575	12.24	3601	12.63	3630	13.08	3691	14.02	3738	14.80	3791	15.73	3836	16.49

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2592	800	1955	2.56														
2916	900	2019	2.88	2114	3.26	2208	3.68										
3240	1000	2084	3.21	2174	3.62	2264	4.04	2357	4.52								
3564	1100	2149	3.55	2247	4.04	2334	4.50	2416	4.95	2588	5.99	2753	7.11				
3888	1200	2227	3.93	2319	4.46	2405	4.95	2500	5.55	2645	6.49	2802	7.62	2939	8.69		
4212	1300	2310	4.34	2395	4.88	2482	5.46	2568	6.05	2722	7.16	2860	8.21	3002	9.39	3135	10.58
4536	1400	2406	4.86	2477	5.35	2557	5.92	2641	6.56	2788	7.73	2932	8.94	3064	10.11	3192	11.32
4860	1500	2503	5.40	2578	5.97	2647	6.52	2719	7.13	2868	8.42	3001	9.63	3136	10.94	3255	13.28
5184	1600	2604	6.00	2670	6.55	2742	7.18	2804	7.73	2943	9.05	3078	10.41	3196	11.64	3345	13.28
5508	1700	2704	6.69	2770	7.24	2836	7.86	2898	8.45	3021	9.71	3155	11.17	3281	12.61	3396	13.97
5832	1800	2802	0.29	2870	7.95	2937	8.63	2995	9.23	3119	10.59	3240	12.03	3365	13.58	3474	14.96
6156	1900	2904	8.00	2973	8.73	3033	9.39	3104	10.20	3221	11.58	3334	13.00	3455	14.62	3574	16.26
6480	2000	3013	8.82	3076	9.55	3137	10.26	3201	11.05	3319	12.56	3442	14.21	3554	15.82	3668	17.54
6804	2100	3119	9.66	3179	10.40	3245	11.25	3298	11.95	3431	13.77	3541	15.35	3664	17.23	3775	19.01
7128	2200	3225	10.55	3290	11.42	3346	12.17	3412	13.12	3526	14.78	3646	16.64	3750	18.31	3888	20.66
7452	2300	3333	11.49	3392	12.32	3452	13.21	3511	14.09	3626	16.72	3748	17.91	3863	19.90	3986	22.09
7776	2400	3442	12.52	3502	13.45	3556	14.28	3620	15.31	3732	17.18	3841	19.10	3952	21.10	4080	23.55
8100	2500	3553	13.64	3610	14.56	3669	15.52	3726	16.52	3830	18.35	3941	20.42	4042	22.41	4171	24.98
8424	2600	3658	14.70	3720	15.79	3781	16.84	3829	17.71	3931	19.63	4033	21.66	4145	23.95	4253	26.25
8748	2700	3769	15.97	3833	17.11	3886	18.06	3940	19.15	4038	21.11	4137	23.16	4240	25.39	4343	27.67
9072	2800	3883	17.33	3935	18.30	3998	19.52	4048	20.55	4144	22.57	4238	24.65	4343	27.05	4442	29.35

Underlined figures approximate most efficient selection.

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 200

TYPE TBA TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 3.94 S. F. WHEEL DIAMETER = 20'

INLET AND OUTLET DIA = 26.875" TIP SPEED FPM = 5.23 x RPM MAX. BHP = .64 (RPM/ 1000)cube

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

		0.25 SP		0.50 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1985	500	700	0.15	780	0.21												
2382	600	776	0.26	850	0.34	940	0.46	<u>1013</u>	<u>0.58</u>	1176	0.91						
2779	700	860	0.37	935	0.47	1020	0.61	<u>1095</u>	<u>0.76</u>	<u>1219</u>	<u>1.01</u>	1343	1.40				
3176	800	950	0.48	1027	0.61	1100	0.74	1159	0.87	1298	1.22	<u>1418</u>	<u>1.59</u>	1534	2.02	1824	2.39
3573	900	1050	0.66	1119	0.80	1180	0.94	1252	1.12	1372	1.47	<u>1485</u>	<u>1.87</u>	<u>1800</u>	<u>2.33</u>	1690	2.75
3970	1000	1150	0.82	1213	0.97	1273	1.12	1336	1.29	1442	1.62	1560	2.06	1669	2.52	<u>1738</u>	<u>2.84</u>
4367	1100	1249	1.10	1316	1.29	1371	1.45	1420	1.61	1528	1.98	1835	2.47	1747	3.01	1813	3.36
4784	1200	1347	1.32	1420	1.55	1469	1.72	1517	1.89	1814	2.27	1708	2.70	1822	3.27	1888	3.64
5161	1300	1447	1.71	1517	1.97	1566	2.12	1615	2.37	1700	2.77	1792	3.24	1897	3.85	1963	4.26
5558	1400	1553	2.04	1615	2.29	1663	2.50	1705	2.69	1792	3.13	1875	3.58	1972	4.17	2040	4.62
5955	1500	1680	2.57	1710	2.81	1780	3.07	1801	3.29	1884	3.76	1958	4.22	2054	4.87	2120	5.36
8352	1600	1763	3.00	1810	3.25	1856	3.50	1897	3.74	1977	4.23	2048	4.71	2139	5.36	2200	5.83
6749	1700	1863	3.75	1910	4.04	1952	4.31	1993	4.59	2075	5.18	<u>2144</u>	<u>5.71</u>	2225	6.38	2280	6.87
7148	1800	1963	4.35	2013	4.69	2052	4.97	2094	5.28	2175	5.91	2240	6.46	2311	7.09	2369	7.64
7543	1900	2065	5.10	<u>2117</u>	<u>5.49</u>	<u>2157</u>	<u>5.81</u>	<u>2198</u>	<u>6.15</u>	2275	6.82	2336	7.38	2406	8.07	2461	8.63
7940	2000	2170	5.85	2222	6.29	2261	6.62	2302	7.00	2369	7.62	2432	8.24	2501	8.96	2554	9.54
8337	2100	2274	8.60	2313	6.94	2360	7.37	2392	7.68	2462	8.37	2528	9.06	2595	9.80	2648	10.41
8734	2200	2388	7.79	2413	8.03	2456	8.47	2485	8.77	2554	9.43	2624	10.33	2684	11.06	2744	11.81
9131	2300	2495	8.71	2513	8.90	2552	9.32	2577	9.60	2650	10.44	2720	11.28	2780	12.05	2840	12.84
9528	2400	2598	9.64	2614	9.82	2641	10.13	2682	10.61	2750	11.43	2816	12.28	2876	13.08	2934	13.88
9925	2500	2695	10.38	2725	10.73	2750	11.03	2791	11.53	2850	12.27	2911	13.08	2981	14.05	3025	14.68
10322	2800	2805	12.14	2842	12.83	2859	12.86	2900	13.42	2948	14.10	3004	14.92	3073	15.97	3116	16.65
10719	2700	2929	13.55	2949	13.83	2968	14.10	2998	14.53	3044	15.21	3096	16.00	3165	17.09	3206	17.77
11116	2800	3042	14.85	3083	15.16	3077	15.37	3097	15.67	3140	16.34	3188	17.10	3268	18.42	3312	19.17

		3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
CFM	CV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3176	800	1748	2.99	1847	3.52												
3573	900	1773	3.18	1867	3.71	1979	4.02										
3970	1000	1817	3.25	1898	3.91	1998	4.32	2092	4.96								
4367	1100	<u>1888</u>	<u>3.80</u>	1936	4.09	2050	4.86	2109	5.29	<u>2293</u>	<u>6.80</u>						
4764	1200	1960	4.07	2030	4.53	2117	5.13	2161	5.46	2338	6.91	<u>2478</u>	<u>8.23</u>	2639	9.94	2804	11.93
5181	1300	2038	4.77	<u>2104</u>	<u>5.25</u>	<u>2183</u>	<u>5.86</u>	2231	6.26	2400	7.79	2514	8.96	2663	10.65	2811	12.00
5558	1400	2113	5.13	2178	5.62	2250	6.19	2300	6.62	2462	8.11	2565	9.18	2698	10.68	2822	12.22
5955	1500	2188	5.89	2252	6.10	2315	6.42	2377	7.55	2523	9.03	2640	10.35	2743	11.61	2885	13.23
6352	1600	2263	6.35	2331	6.93	2393	7.51	2455	8.11	2585	9.46	2720	11.02	2777	11.73	2918	13.81
6749	1700	2344	7.47	2414	8.15	2470	8.73	2532	9.41	2659	10.90	2800	12.72	2869	13.69	2988	15.46
7146	1800	2433	8.28	2497	8.95	2548	9.51	2810	10.22	2732	11.72	2880	13.73	2943	14.65	3059	16.45
7543	1900	2522	9.29	2579	9.93	2626	10.49	2690	11.27	2805	12.78	2918	14.39	3020	15.95	3129	17.47
7940	2000	2610	10.19	2658	10.76	2714	11.45	2770	12.18	2878	13.66	2999	15.45	3097	17.02	3200	18.77
8337	2100	2706	11.11	2750	11.66	2801	12.33	2850	12.98	2985	14.62	3079	16.37	3175	17.95	3275	20.56
8734	2200	2802	12.58	2842	13.12	2889	13.79	2935	14.46	3052	16.25	3160	18.04	3261	19.83	3350	21.50
9131	2300	2898	13.65	2934	14.16	2975	14.76	3027	15.50	3139	17.34	3240	19.07	3343	20.95	3425	22.53
9528	2400	2985	14.62	3027	15.25	3067	15.86	3119	16.68	3230	18.52	3320	20.11	3424	22.07	3500	23.57
9925	2500	3078	15.46	3119	16.09	3160	16.83	3213	17.59	3320	19.40	3400	20.84	3506	22.85	3580	24.33
10322	2600	3170	17.53	3213	18.25	3265	19.15	3317	20.08	3411	21.84	3480	23.19	3589	25.44	3660	26.98
10719	2700	3263	18.73	3317	19.88	3370	20.63	3421	21.58	3500	23.11	3569	24.51	3670	26.65	3740	28.20
11116	2800	3363	20.07	3421	21.13	3473	22.10	3516	22.93	3596	24.54	3862	25.91	3751	27.84	3820	29.41

Underlined figures approximate most efficient selection.

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 220

TYPE TBA TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 4.87 S. F. WHEEL DIAMETER = 22.25"

INLET AND OUTLET DIA = 30.000" TIP SPEED FPM = 5.82 x RPM MAX. BHP = 1.080 (RPM/ 1000)cubed

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2457	500	596	0.22	696	0.43	779	0.51	862	0.68	1006	0.97						
2948	600	680	0.32	766	0.48	840	0.64	914	0.83	1053	1.23	1170	1.53				
3439	700	766	0.45	840	0.63	910	0.82	975	1.00	1099	1.36	1213	1.88	1320	2.38	1424	2.72
3931	800	849	0.59	922	0.80	981	1.00	1044	1.23	1160	1.70	1267	2.19	1370	2.71	1471	3.30
4422	900	941	0.80	1004	1.03	1062	1.26	1116	1.49	1222	1.98	1331	2.55	1418	3.07	1512	3.68
4913	1000	1030	1.04	1085	1.27	1143	1.53	1194	1.79	1294	2.34	1391	2.92	1481	3.51	1558	4.06
5405	1100	1121	1.32	1177	1.60	1225	1.86	1276	2.15	1369	2.75	1457	3.34	1540	3.96	1624	4.64
5896	1200	1213	1.67	1261	1.96	1311	2.25	1359	2.56	1444	3.18	1529	3.85	1605	4.47	1687	5.21
6388	1300	1307	2.07	1352	2.38	1397	2.70	1444	3.04	1527	3.71	1599	4.36	1676	5.07	1751	5.92
6879	1400	1400	2.54	1444	2.87	1486	3.22	1532	3.59	1610	4.27	1680	5.02	1754	5.78	1818	6.47
7370	1500	1494	3.07	1534	3.42	1573	3.79	1610	4.11	1689	4.91	1760	5.69	1820	6.40	1894	7.29
7862	1600	1585	3.66	1627	4.05	1664	4.43	1702	4.83	1770	5.58	1842	6.42	1901	7.23	1964	8.07
8353	1700	1681	4.34	1721	4.78	1753	5.14	1791	5.58	1855	6.37	1921	7.23	1988	8.19	2052	9.16
8844	1800	1776	5.11	1813	5.56	1845	5.95	1880	6.41	1941	7.23	2007	8.21	2065	9.01	2120	9.98
9336	1900	1872	5.98	1904	6.41	1938	6.87	1971	7.33	2032	8.24	2090	9.17	2151	10.16	2203	11.09
9827	2000	1965	6.88	1997	7.38	2031	7.87	2064	8.39	2123	9.37	2178	10.31	2236	11.32	2286	12.27
10318	2100	2061	7.93	2093	8.48	2121	8.92	2151	9.43	2214	10.59	2266	11.51	2318	12.51	2367	13.53
10810	2200	2157	9.08	2186	9.60	2218	10.16	2244	10.67	2299	11.76	2351	12.76	2406	13.91	2454	14.94
11301	2300	2253	10.35	2280	10.88	2309	11.44	2333	11.92	2388	13.09	2441	14.25	2491	15.32	2539	16.45
11792	2400	2348	11.68	2375	12.27	2402	12.81	2427	13.37	2476	14.49	2528	15.72	2575	16.84	2622	18.01
12284	2500	2441	13.12	2472	13.80	2494	14.33	2518	14.88	2569	16.11	2616	17.30	2662	18.54	2707	19.68
12775	2600	2537	14.69	256.5	15.41	2586	15.89	2613	16.60	2661	17.79	2707	19.10	2751	20.31	2796	21.60
13266	2700	2633	16.42	2661	17.19	2680	17.67	2706	18.38	2751	19.59	2796	20.90	2840	22.30	2884	23.59
13758	2800	2729	18.26	2757	19.06	2774	19.54	2796	20.24	2838	21.44	2884	22.86	2927	24.23	2972	25.71

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3931	800	1545	3.84	1637	4.39												
4422	900	1595	0.25	1684	4.93	1749	5.43										
4913	1000	1640	4.70	1725	5.41	1802	6.10	1875	6.79	2016	8.29						
5405	1100	1700	5.28	1771	5.88	1842	6.62	1918	7.43	2059	9.02	2133	9.91	2299	12.18		
5896	1200	1764	5.94	1831	6.62	1900	7.36	1965	8.08	2107	9.81	2246	11.67	2337	13.02	2461	15.00
6388	1300	1822	6.56	1903	7.45	1956	8.09	2041	9.15	2147	10.47	2279	12.41	2378	13.96	2496	15.93
6879	1400	1891	7.31	1954	8.09	2022	8.95	2093	9.91	2206	11.53	2307	13.09	2432	15.14	2528	16.82
7370	1500	1958	8.11	2018	8.89	2082	9.78	2147	10.72	2263	12.54	2348	13.91	2476	16.18	2560	17.71
7862	1600	2022	8.89	2085	9.79	2144	10.64	2208	11.67	2334	13.75	2441	15.71	2546	17.69	2628	19.34
8353	1700	2102	9.96	2157	10.79	2216	11.75	2271	12.66	2394	14.86	2499	16.88	2598	18.90	2692	20.90
8844	1800	2173	10.80	2235	11.92	2288	12.87	2346	13.95	2452	15.99	2561	18.21	2658	20.31	2751	22.44
9336	1900	2257	12.07	2308	13.04	2359	14.02	2412	15.07	2520	17.31	2622	19.54	2719	21.80	2811	24.13
9827	2000	2347	13.49	2394	14.43	2439	15.41	2489	16.51	2593	18.76	2694	21.18	2784	23.38	2858	25.30
10318	2100	2429	14.86	2471	15.78	2520	16.92	2564	17.91	2665	20.35	2767	22.91	2853	25.17	2939	27.54
10810	2200	2500	15.99	2551	17.20	2594	18.33	2650	19.72	2738	21.97	2830	24.42	2919	26.88	3014	29.69
11301	2300	2563	17.54	2636	18.85	2680	20.04	2725	21.25	2819	23.86	2904	26.28	2990	28.81	3086	31.76
11792	2400	2671	19.26	2715	20.41	2763	21.80	2806	23.06	2891	25.53	2980	28.26	3079	31.42	3158	34.06
12284	2500	2757	21.04	2796	22.22	2844	23.63	2888	24.90	2970	27.54	3049	30.10	3165	34.01	3220	35.98
12775	2600	2840	22.88	2890	24.41	2930	25.68	2972	26.96	3055	29.79	3127	32.29	3212	35.31	3309	38.92
13266	2700	2930	25.04	2973	26.42	3018	27.90	3053	29.06	3134	31.92	3212	34.82	3297	37.95	3361	40.61
13758	2800	3015	27.10	3062	28.69	3108	30.27	3145	31.65	3216	34.05	3302	37.72	3364	40.17	3436	43.23

Underlined figures approximate most efficient selection.

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 240

TYPE TBA TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 5.85 S. F. WHEEL DIAMETER = 24.25"

INLET AND OUTLET DIA = 32.75" TIP SPEED FPM = 6.35 x RPM MAX. BHP = 1.71 (RPM/ 1000)cubed

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2979	500	541	0.27	632	0.53	708	0.62	783	0.83	913	1.17						
3574	600	617	0.39	696	0.59	762	0.78	830	1.01	957	1.49	1063	1.86				
4170	700	696	0.54	762	0.77	826	0.99	886	1.22	998	1.65	1102	2.28	1199	2.88	1293	3.30
4766	800	771	0.72	838	0.98	891	1.22	949	1.49	1054	2.06	1150	2.66	1244	3.29	1336	4.01
5362	900	855	0.98	912	1.25	965	1.53	1013	1.80	1110	2.40	1209	3.09	1288	3.72	1373	4.46
5957	1000	936	1.26	985	1.55	1038	1.86	1084	2.18	1176	2.84	1264	3.54	1345	4.26	1415	4.92
6553	1100	1018	1.61	1069	1.94	1113	2.25	1158	2.61	1243	3.33	1323	4.05	1398	4.80	1475	5.63
7149	1200	1102	2.03	1145	2.37	1191	2.73	1234	3.11	1311	3.86	1389	4.67	1458	5.42	1532	6.32
7745	1300	1187	2.51	1228	2.88	1269	3.27	1312	3.69	1387	4.50	1452	5.28	1522	6.15	1590	7.17
8340	1400	1271	3.08	1311	3.48	1349	3.90	1391	4.35	1462	5.18	1526	6.09	1593	7.01	1651	7.85
8936	1500	1357	3.72	1393	4.14	1429	4.59	1462	4.98	1534	5.96	1598	6.90	1653	7.76	1720	8.84
9532	1600	1439	4.44	1478	4.91	1511	5.37	1545	5.85	1607	6.77	1673	7.79	1727	8.76	1784	9.78
10128	1700	1527	5.27	1563	5.79	1592	6.23	1626	6.77	1685	7.73	1744	8.76	1806	9.93	1864	11.10
10723	1800	1613	6.20	1647	6.74	1676	7.22	1707	7.77	1762	8.76	1823	9.95	1875	10.92	1926	12.10
11319	1900	1700	7.25	1729	7.77	1760	8.33	1790	8.88	1846	9.99	1898	11.12	1953	12.32	2001	13.45
11915	2000	1784	8.34	1814	8.94	1845	9.54	1874	10.17	1928	11.36	1978	12.50	2030	13.73	2076	14.87
12511	2100	1872	9.62	1901	10.28	1927	10.82	1953	11.43	2011	12.85	2058	13.96	2105	15.17	2149	16.40
13106	2200	1959	11.01	1985	11.64	2015	12.32	2038	12.94	2088	14.26	2135	15.47	2185	16.87	2229	18.11
13702	2300	2047	12.55	2071	13.19	2097	13.87	2119	14.45	2169	15.88	2217	17.27	2262	18.58	2306	19.94
14298	2400	2132	14.17	2157	14.87	2181	15.53	2204	16.21	2249	17.57	2296	19.06	2339	20.42	2381	21.83
14894	2500	2217	15.91	2245	16.73	2265	17.38	2287	18.04	2333	19.54	2376	20.98	2418	22.48	2459	23.86
15489	2600	2304	17.81	2330	18.68	2349	19.27	2373	20.12	2416	21.56	2458	23.15	2498	24.63	2540	26.19
16085	2700	2391	19.91	2416	20.84	2434	21.43	2457	22.28	2498	23.75	2539	25.35	2580	27.04	2620	28.60
16681	2800	2478	22.13	2504	23.11	2519	23.69	2540	24.54	2577	25.99	2619	27.72	2658	29.38	2699	31.17

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4766	800	1403	4.65	1487	5.33												
5362	900	1448	5.15	1530	5.97	1589	6.59										
5957	1000	1489	5.70	1567	6.56	1637	7.40	1703	8.24	1831	10.05						
6553	1100	1544	6.41	1608	7.13	1673	8.03	1742	9.00	1870	10.94	1937	12.02	2088	14.77		
7149	1200	1602	7.20	1663	8.03	1726	8.93	1784	9.80	1913	11.90	2040	14.19	2122	15.79	2235	18.19
7745	1300	1655	7.95	1728	9.03	1776	9.81	1854	11.09	1949	12.70	2069	15.05	2160	16.93	2267	19.31
8340	1400	1718	8.87	1775	9.81	1836	10.85	1901	12.02	2003	13.99	2096	15.88	2209	18.35	2296	20.39
8936	1500	1778	9.83	1833	10.77	1891	11.85	1949	13.00	2056	15.20	2132	16.87	2249	19.61	2325	21.47
9532	1600	1837	10.77	1894	11.87	1947	12.91	2005	14.15	2120	16.67	2217	19.04	2312	21.44	2387	23.45
10128	1700	1909	12.08	1959	13.09	2012	14.24	2063	15.35	2174	18.02	2269	20.47	2359	22.91	2445	25.35
10723	1800	1974	13.10	2029	14.45	2078	15.61	2131	16.91	2227	19.39	2326	22.07	2414	24.63	2498	27.21
11319	1900	2050	14.63	2096	15.82	2142	17.00	2190	18.28	2289	20.99	2381	23.69	2469	26.43	2553	29.26
11915	2000	2131	16.36	2174	17.50	2215	18.68	2260	20.02	2355	22.75	2447	25.68	2528	28.35	2595	30.67
12511	2100	2206	18.02	2244	19.13	2288	20.51	2329	21.71	2420	24.67	2513	27.76	2591	30.52	2669	33.39
13106	2200	2270	19.39	2317	20.86	2356	22.22	2407	23.90	2487	26.64	2570	29.61	2651	32.59	2737	36.00
13702	2300	2346	21.26	2393	22.85	2433	24.30	2475	25.77	2560	28.93	2638	31.86	2715	34.93	2802	38.51
14298	2400	2425	23.35	2465	24.75	2509	26.43	2549	27.96	2625	30.96	2706	34.26	2796	38.10	2868	41.30
14894	2500	2504	25.51	2541	26.94	2583	28.65	2623	30.19	2697	33.39	2769	36.50	2874	41.24	2924	43.62
15489	2600	2580	27.75	2624	29.59	2661	31.14	2699	32.68	2775	36.12	2840	39.15	2917	42.81	3005	47.19
16085	2700	2661	30.36	2700	32.04	2741	33.82	2773	35.23	2847	38.70	2917	42.21	2994	46.01	3052	49.24
16681	2800	2738	32.86	2781	34.78	2823	36.71	2856	38.37	2921	41.28	2999	45.74	3055	48.71	3121	52.42

Underlined figures approximate most efficient selection.

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 270

TYPE TBA TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 7.21 S. F. WHEEL DIAMETER = 27"

INLET AND OUTLET DIA = 36.125" TIP SPEED FPM = 7.07 x RPM MAX. BHP = 2.86 (RPM/ 1000)cubed

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25		SP		0.50		SP		0.75		SP		1.00		SP		1.50		SP		2.00		SP		2.50		SP		3.00		SP	
		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
3618	500	491	0.33	573	0.64	642	0.75	<u>710</u>	<u>1.00</u>	829	1.42																						
4341	600	560	0.47	631	0.71	692	0.95	753	1.22	868	1.80																						
5065	700	631	0.66	692	0.93	750	1.20	804	1.48	906	2.00																						
5788	800	700	0.87	760	1.18	808	1.48	861	1.80	956	2.50																						
6512	900	776	1.18	827	1.51	876	1.86	919	2.19	1007	2.92																						
7235	1000	849	1.53	894	1.88	942	2.26	984	2.64	1067	3.44																						
7959	1100	924	1.95	970	2.35	1010	2.73	1051	3.17	1128	4.05																						
8682	1200	1000	2.46	1039	2.88	1081	3.32	1120	3.77	1190	4.68																						
9406	1300	1077	3.04	1114	3.50	1151	3.97	1190	4.48	1259	5.47																						
10129	1400	1153	3.74	1190	4.23	1224	4.74	1262	5.29	1327	6.29																						
10853	1500	1231	4.52	1264	5.03	1296	5.58	1327	6.05	1392	7.24																						
11577	1600	1306	5.39	1341	5.96	1371	6.52	1402	7.11	1459	8.22																						
12300	1700	1385	6.40	1419	7.03	1444	7.56	1476	8.22	1529	9.39																						
13024	1800	1464	7.53	1494	8.18	1521	8.77	1549	9.44	1599	10.64																						
13747	1900	1543	8.80	1569	9.44	1597	10.11	1624	10.79	1675	12.14																						
14471	2000	1619	10.13	1646	10.86	1674	11.59	1701	12.36	1750	13.80																						
15194	2100	1699	11.68	1725	12.48	1748	13.14	1773	13.89	1824	15.60																						
15918	2200	1778	13.38	1801	14.14	1828	14.96	1849	15.71	1895	17.31																						
16641	2300	1857	15.24	1879	16.02	1903	16.84	1923	17.55	1968	19.28																						
17365	2400	1935	17.20	1957	18.06	1979	18.86	2000	19.68	2041	21.34																						
18088	2500	2012	14.32	2037	20.32	2056	21.10	2075	21.91	2117	23.73																						
18812	2600	2090	21.63	2114	22.69	2131	23.40	2153	24.44	2193	26.19																						
19535	2700	2170	24.18	2193	25.31	2209	26.03	2230	27.06	2267	28.85																						
20259	2800	2249	26.88	2272	28.07	2286	28.78	2304	29.80	2339	31.57																						

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5788	800	1273	5.65	1349	6.47												
6512	900	1314	6.25	1388	7.25	1441	8.00										
7235	1000	1351	6.93	1421	7.96	1485	8.98	1545	10.01	1661	12.21						
7959	1100	1401	7.78	1459	8.66	1518	9.75	1581	10.93	1697	13.29	1758	14.60	1895	17.93		
8682	1200	1454	8.75	1509	9.75	1566	10.84	1619	11.90	1736	14.45	1851	17.19	1926	19.17	2028	22.09
9406	1300	1501	9.66	1568	10.97	1612	11.92	1682	13.47	1769	15.42	1878	18.28	1960	20.56	2057	23.46
10129	1400	1559	10.77	1610	11.92	1666	13.18	1725	14.60	1818	16.99	1901	19.28	2004	22.29	2083	24.77
10853	1500	1613	11.94	1663	13.09	1716	14.40	1769	15.78	1865	18.46	1935	20.48	2041	23.82	2110	26.08
11577	1600	1667	13.09	1719	14.42	1767	15.67	1819	17.19	1924	20.25	2012	23.13	2098	26.04	2166	28.49
12300	1700	1733	14.67	1778	15.89	1826	17.30	1872	18.64	1973	21.89	2059	24.86	2141	27.83	2219	30.78
13024	1800	1791	15.91	1841	17.55	1885	18.95	1933	20.54	2021	23.55	2110	26.81	2190	29.91	2267	33.04
13747	1900	1860	17.77	1902	19.21	1944	20.65	1987	22.20	2077	25.50	2161	28.78	2241	32.09	2316	35.54
14471	2000	1934	19.87	1973	21.25	2010	22.69	2051	24.31	2137	27.63	2220	31.18	2294	34.43	2355	37.25
15194	2100	2001	21.89	2036	23.24	2076	24.91	2113	26.37	2196	29.96	2280	33.73	2351	37.07	2422	40.55
15918	2200	2060	23.55	2102	25.33	2138	26.99	2184	29.03	2256	32.35	2332	35.96	2405	39.58	2484	43.72
16641	2300	2129	25.82	2172	27.76	2208	29.51	2246	31.29	2323	35.14	2393	38.69	2464	42.43	2543	46.77
17365	2400	2201	28.36	2237	30.05	2277	32.09	2313	33.95	2382	37.60	2456	41.61	2537	46.27	2602	50.16
18088	2500	2272	30.98	2306	32.71	2344	34.79	2380	36.67	2447	40.55	2513	44.32	2608	50.08	2653	52.98
18812	2600	2341	33.70	2381	35.94	2415	37.82	2449	39.69	2518	43.87	2577	47.55	2647	52.00	2727	57.32
19535	2700	2415	36.87	2450	38.91	2487	41.08	2516	42.79	2583	47.00	2647	51.27	2717	55.88	2770	59.80
20259	2800	2484	39.91	2524	42.25	2561	44.58	2592	46.60	2650	50.14	2721	55.55	2772	59.16	2832	63.66

Underlined figures approximate most efficient selection.

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 300

TYPE TBA TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 8.83 S. F. WHEEL DIAMETER = 30"

INLET AND OUTLET DIA = 40.25" TIP SPEED FPM = 7.85 x RPM MAX. BHP = 4.81 (RPM/ 1000)cubed

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.30 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4360	500	410	0.31	481	0.53	<u>538</u>	<u>0.74</u>	596	0.98								
5232	600	468	0.44	526	0.69	584	0.90	631	1.20	728	1.78	816	2.51				
6104	700	528	0.62	580	0.90	628	1.17	673	1.46	763	1.90	849	2.83	924	3.54		
6976	800	590	0.84	633	1.13	678	1.45	723	1.79	804	2.48	883	3.26	953	4.02	1035	5.01
7848	900	657	1.14	694	1.45	732	1.78	767	2.09	847	2.90	918	3.70	977	4.43	1055	5.49
8720	1000	718	1.45	756	1.83	789	2.17	821	2.52	894	3.37	961	4.24	1020	5.07	1087	6.11
9592	1100	779	1.82	814	2.21	849	2.65	877	3.02	943	3.91	1005	4.81	1062	5.73	1122	6.75
10464	1200	844	2.29	878	2.73	911	3.20	937	3.61	992	4.47	1056	5.53	1111	6.53	1162	7.50
11336	1300	908	2.81	938	3.26	972	3.83	1000	4.32	1050	5.22	1108	6.32	1159	7.34	1208	8.40
12208	1400	971	3.41	1002	3.93	1030	4.45	1056	4.97	1109	6.06	1160	7.17	1203	8.13	1256	9.37
13080	1500	1038	4.13	1063	4.62	1093	5.24	1122	5.89	1163	6.84	1216	8.15	1262	9.30	1320	10.79
13952	1600	1104	4.97	1130	5.53	1155	6.10	1183	6.81	1224	7.86	1267	9.04	1313	10.32	1353	11.46
14824	1700	1171	5.90	1196	6.52	1220	7.16	1244	7.77	1286	9.00	1327	10.27	1365	11.45	1406	12.70
15696	1800	1234	6.86	1255	7.43	1282	8.16	1305	8.84	1346	10.17	1385	11.47	1425	12.87	1460	14.09
16568	1900	1300	7.99	1322	8.64	1346	9.39	1368	10.07	1405	11.40	1447	12.93	1487	14.45	1522	15.84
17440	2000	1365	9.20	1388	9.94	1409	10.70	1432	11.47	1470	12.92	1506	14.35	1547	16.10	1582	17.58
18312	2100	<u>1432</u>	<u>10.59</u>	1454	11.41	1472	12.08	1491	12.79	1530	14.39	1570	16.15	1606	17.78	1640	19.35
19184	2200	1499	12.11	1519	12.91	1536	13.61	1557	14.50	1592	16.07	1629	17.78	1667	19.64	1696	21.12
20056	2300	1565	13.77	1584	14.61	1601	15.33	1621	16.28	1654	17.80	1692	19.74	1730	21.72	1763	23.62
20928	2400	1632	15.54	1650	16.49	1665	17.17	1683	18.03	1718	19.82	1752	21.66	1787	23.63	1819	25.49
21800	2500	1698	17.51	1717	18.54	1731	19.24	1747	20.09	1782	22.02	1817	24.00	1845	25.71	1880	27.89
22672	2600	1764	19.59	1780	20.53	1797	21.40	1811	22.27	1846	24.28	1876	26.09	1910	28.38	1940	30.34
23544	2700	1830	21.87	1847	22.92	1862	23.76	1877	24.70	1913	26.95	1939	28.70	1967	30.57	2001	32.97
24416	2800	1896	24.25	1911	25.24	1927	26.20	1939	27.03	1973	29.37	2001	31.20	2031	33.27	2062	35.81

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6976	800																
7848	900	1112	6.33	1172	7.27												
8720	1000	<u>1141</u>	<u>6.99</u>	1195	7.94	1260	9.15	1307	10.06								
9592	1100	1175	7.72	1224	8.67	1281	9.83	1332	10.91	1440	13.47						
10464	1200	1212	8.49	1262	9.59	1318	10.85	1357	11.79	1458	14.32	1553	16.98				
11336	1300	1257	9.48	1306	10.65	1354	11.85	1395	12.91	1493	15.63	1579	18.20				
12208	1400	1302	10.51	1348	11.70	1398	13.06	1441	14.30	1530	16.97	1611	19.58	1698	22.61	1768	25.24
13080	1500	1353	11.71	1396	12.96	1442	14.33	1485	15.64	1565	18.29	1644	21.08	1723	23.96	1796	26.89
13952	1600	1398	12.85	1444	14.24	1485	15.60	1525	16.93	1610	19.94	1677	22.51	1751	25.46	1825	28.61
14824	1700	1446	14.07	1480	15.17	1536	17.15	1574	18.56	1651	21.51	1723	24.46	1793	27.49	1863	30.69
15696	1800	1496	15.45	1533	16.76	1573	18.25	1620	20.09	1692	23.09	1769	26.44	1836	29.56	1899	32.63
16568	1900	1554	17.09	1587	18.38	1627	20.06	1661	21.47	1742	25.13	1811	28.35	1881	31.79	1932	34.45
17440	2000	1612	18.84	1642	20.15	1678	21.85	1715	23.49	1790	27.07	1854	30.35	1917	33.67	1985	37.41
18312	2100	1668	20.63	1697	22.02	1732	23.77	1767	25.51	1833	28.87	1892	32.03	1955	35.57	2025	39.65
19184	2200	1725	22.56	1754	24.14	1788	25.94	1819	27.56	1886	31.26	1948	34.79	2009	38.46	2056	41.45
20056	2300	1786	24.76	1817	26.61	1847	28.36	1872	29.75	1942	33.92	2000	37.41	2064	41.53	2118	45.13
20928	2400	1846	27.06	1872	28.79	1905	30.83	1930	32.33	1984	35.74	2050	40.04	2106	43.86	2162	47.81
21800	2500	1907	29.54	1934	31.45	1963	33.41	1987	34.97	2044	38.92	2101	42.83	2163	47.26	2214	51.06
22672	2600	1969	32.23	1998	34.44	2023	36.23	2047	37.92	2101	41.79	2155	45.92	2212	50.33	2261	54.05
23544	2700	2027	34.80	2053	36.99	2082	39.05	2106	40.99	2158	45.03	2211	49.21	2263	53.44	2318	58.01
24416	2800	2088	37.84	2113	39.76	2141	42.15	2166	44.19	2209	47.70	2265	52.38	2318	57.02	2364	61.21

Underlined figures approximate most efficient selection.

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 330

TYPE TB TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 10.68 S. F. WHEEL DIAMETER = 33"

INLET AND OUTLET DIA = 44.25" TIP SPEED FPM = 8.64 x RPM MAX. BHP = 7.76 (RPM/ 1000)cubed

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.30 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5340	500	373	0.38	437	0.64	<u>489</u>	<u>0.90</u>	541	1.19								
6408	600	425	0.54	479	0.83	531	1.10	574	1.45								
7476	700	480	0.75	527	1.09	571	1.42	612	1.76	669	2.30	742	3.04				
												772	3.42	840	4.28		
8544	800	536	1.01	576	1.37	616	1.75	657	2.16	731	3.00	802	3.94	866	4.87	941	6.07
9612	900	597	1.38	631	1.75	666	2.16	697	2.53	770	3.51	834	4.47	888	5.36	959	6.64
10680	1000	652	1.76	687	2.22	717	2.63	746	3.05	813	4.08	874	5.14	927	6.13	988	7.39
11748	1100	708	2.21	740	2.68	772	3.21	797	3.65	857	4.73	913	5.82	966	6.93	1020	8.16
12816	1200	767	2.77	798	3.31	828	3.87	852	4.37	902	5.41	960	6.69	1010	7.90	1056	9.08
13884	1300	825	3.40	853	3.95	884	4.64	909	5.23	955	6.32	1007	7.64	1054	8.88	1099	10.17
14952	1400	883	4.12	911	4.76	936	5.39	960	6.01	1008	7.33	1055	8.67	1094	9.84	1142	11.33
16020	1500	943	5.00	966	5.59	993	6.34	1020	7.12	1057	8.28	1106	9.86	1147	11.25	1200	13.06
17088	1600	1004	6.01	1027	6.69	1050	7.38	1076	8.24	1112	9.52	1152	10.94	1194	12.48	1230	13.87
18156	1700	1065	7.14	1087	7.88	1109	8.66	1131	9.40	1169	10.89	1207	12.42	1241	13.85	1278	15.37
19224	1800	1122	8.30	1141	8.99	1165	9.88	1187	10.69	1224	12.31	1259	13.87	1296	15.58	1327	17.05
20292	1900	1181	9.66	1202	10.46	1224	11.36	1243	12.18	1277	13.80	1315	15.65	1352	17.48	1384	19.16
21360	2000	1241	11.13	1262	12.03	1281	12.95	1302	13.88	1336	15.63	1369	17.36	1407	19.49	1438	21.27
22428	2100	1302	12.81	1322	13.80	1338	14.61	1355	15.48	1391	17.41	1428	19.54	1460	21.52	1491	23.42
23496	2200	1362	14.65	1381	15.62	1396	16.47	1415	17.54	1447	19.45	1481	21.51	1516	23.76	1542	25.56
24564	2300	1423	16.67	1440	17.67	1455	18.55	1474	19.70	1503	21.54	1538	23.88	1572	26.28	1603	28.59
25632	2400	1483	18.81	1500	19.96	1514	20.76	1530	21.82	1562	23.99	1593	26.21	1624	28.59	1654	30.85
26700	2500	1544	21.19	1561	22.43	1574	23.28	1588	24.31	1620	26.64	1652	29.04	1677	31.11	1709	33.75
27768	2600	1604	23.70	1618	24.84	1633	25.90	1647	26.95	1676	29.37	1705	31.56	1737	34.34	1764	36.72
28836	2700	1664	26.46	1679	27.73	1693	28.75	1707	29.88	1739	32.61	1763	34.73	1788	37.00	1819	39.90
29904	2800	1724	29.35	1738	30.54	1752	31.71	1763	32.71	1794	35.54	1819	37.76	1846	40.25	1874	43.33

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8544	800																
9612	900	1012	7.70	1065	8.79												
10680	1000	1040	8.54	1087	9.61	1146	11.07	1188	12.17								
11748	1100	1070	9.34	1112	10.49	1164	11.89	1210	13.20	1309	16.30						
12816	1200	1106	10.38	1147	11.60	1198	13.12	1234	14.27	1325	17.32	1412	20.54				
13884	1300	1145	11.53	1187	12.88	1231	14.34	1269	15.62	1357	18.91	1436	22.02				
14952	1400	1188	12.85	1225	14.15	1271	15.80	1310	17.30	1391	20.54	1464	23.69	1543	27.36	1607	30.54
16020	1500	1234	14.30	1269	15.69	1311	17.33	1350	18.93	1423	22.14	1495	25.51	1566	28.99	1633	32.54
17088	1600	1274	15.62	1312	17.23	1350	18.88	1387	20.49	1463	24.12	1525	27.24	1592	30.81	1659	34.62
18156	1700	1320	17.21	1346	18.35	1396	20.75	1431	22.46	1501	26.03	1566	29.59	1630	33.26	1694	37.13
19224	1800	1370	19.06	1394	20.28	1430	22.08	1472	24.31	1538	27.93	1608	32.00	1669	35.77	1726	39.48
20292	1900	1420	20.96	1442	22.24	1479	24.27	1510	25.97	1584	30.41	1647	34.30	1710	38.47	1756	41.69
21360	2000	1475	23.20	1492	24.38	1526	26.43	1559	28.42	1627	32.75	1686	36.72	1743	40.74	1805	45.26
22428	2100	1523	25.25	1542	26.64	1575	28.76	1606	30.86	1667	34.93	1720	38.75	1777	43.04	1841	47.97
23496	2200	1574	27.57	1595	29.21	1626	31.39	1654	33.34	1715	37.82	1771	42.10	1826	46.54	1870	50.16
24564	2300	1632	30.37	1652	32.20	1679	34.31	1702	36.00	1766	41.05	1818	45.27	1876	50.26	1925	54.60
25632	2400	1684	33.05	1702	34.83	1732	37.31	1754	39.12	1804	43.24	1864	48.45	1915	53.07	1966	57.85
26700	2500	1738	35.99	1758	38.06	1785	40.42	1806	42.32	1859	47.10	1910	51.82	1966	57.19	2013	61.78
27768	2600	1795	39.30	1816	41.67	1839	43.84	1861	45.89	1910	50.57	1959	55.56	2011	60.90	2055	65.40
28836	2700	1852	42.33	1867	44.76	1892	47.25	1914	49.60	1962	54.49	2010	59.55	2057	64.66	2107	70.19
29904	2800	1914	46.85	1921	48.11	1947	51.00	1969	53.47	2008	57.71	2059	63.38	2107	68.99	2150	74.06

Underlined figures approximate most efficient selection.

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 360

TYPE TB TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 13.22 S. F. WHEEL DIAMETER = 36.5"

INLET AND OUTLET DIA = 49.25" TIP SPEED FPM = 9.56 x RPM MAX. BHP = 12.63 (RPM/1000)³

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.30 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6610	500	337	0.46	395	0.78	443	1.10	490	1.45	547	1.80	594	2.16	641	2.52	688	2.88
7932	600	385	0.66	433	1.02	480	1.41	519	1.77	558	2.16	597	2.52	636	2.88	675	3.24
9254	700	434	0.92	477	1.33	516	1.73	553	2.16	605	2.82	652	3.52	699	4.18	746	4.84
10576	800	485	1.24	521	1.67	557	2.14	594	2.64	661	3.67	725	4.82	783	5.96	851	7.42
11898	900	540	1.69	570	2.14	602	2.64	630	3.10	696	4.29	754	5.47	803	6.56	867	8.12
13220	1000	590	2.15	622	2.71	649	3.22	675	3.73	735	4.99	790	6.28	838	7.50	894	9.04
14542	1100	641	2.70	669	3.28	698	3.92	721	4.47	775	5.78	826	7.12	873	8.48	922	9.99
15864	1200	694	3.38	722	4.04	748	4.73	770	5.35	815	6.62	868	8.18	913	9.66	955	11.10
17186	1300	746	4.16	771	4.83	799	5.67	822	6.39	863	7.73	910	9.35	952	10.86	993	12.44
18508	1400	798	5.05	824	5.82	846	6.59	868	7.36	911	8.97	954	10.61	989	12.04	1033	13.87
19830	1500	853	6.12	873	6.84	898	7.76	922	8.71	956	10.13	1000	12.06	1037	13.76	1085	15.98
21152	1600	908	7.35	929	8.18	950	9.03	973	10.08	1006	11.64	1041	13.38	1079	15.27	1112	16.97
22474	1700	963	8.73	983	9.65	1003	10.60	1022	11.50	1057	13.32	1091	15.20	1122	16.95	1155	18.80
23796	1800	1014	10.15	1032	11.00	1054	12.08	1073	13.08	1106	15.05	1138	16.97	1171	19.06	1200	20.86
25118	1900	1068	11.82	1087	12.80	1106	13.90	1124	14.90	1155	16.88	1189	19.15	1222	21.39	1251	23.44
26440	2000	1122	13.62	1141	14.71	1158	15.84	1177	16.98	1208	19.12	1238	21.24	1272	23.84	1300	26.02
27762	2100	1177	15.68	1195	16.88	1210	17.88	1225	18.93	1257	21.29	1291	23.91	1320	26.32	1348	28.65
29084	2200	1232	17.92	1248	19.11	1262	20.15	1280	21.46	1309	23.79	1339	26.32	1370	29.07	1394	31.27
30406	2300	1286	20.39	1302	21.62	1316	22.70	1332	24.10	1359	26.35	1391	29.21	1422	32.15	1449	34.97
31728	2400	1341	23.01	1356	24.41	1369	25.42	1383	26.69	1412	29.34	1440	32.07	1469	34.97	1495	37.74
33050	2500	1396	25.92	1411	27.44	1423	28.48	1436	29.74	1465	32.59	1493	35.53	1516	38.06	1545	41.29
34372	2600	1450	29.00	1463	30.39	1477	31.68	1489	32.97	1517	35.94	1542	38.61	1570	42.02	1595	44.92
35694	2700	1504	32.38	1518	33.93	1530	35.17	1543	36.56	1572	39.89	1594	42.49	1616	45.26	1645	48.81
37016	2800	1558	35.90	1571	37.37	1584	38.79	1594	40.02	1622	43.48	1644	46.19	1669	49.24	1695	53.00

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10576	800																
11898	900	917	9.44	963	10.75												
13220	1000	943	10.55	983	11.76	1036	13.54	1074	14.89								
14542	1100	972	11.66	1006	12.84	1053	14.55	1094	16.15	1184	19.94						
15864	1200	1004	12.87	1037	14.19	1083	16.06	1116	17.45	1198	21.19	1277	25.13				
17186	1300	1040	14.31	1073	15.76	1113	17.55	1147	19.11	1227	23.14	1298	26.94				
18508	1400	1079	15.93	1108	17.32	1149	19.33	1184	21.16	1257	25.13	1324	28.99	1395	33.47	1453	37.37
19830	1500	1118	17.59	1148	19.19	1185	21.21	1220	23.16	1286	27.08	1351	31.21	1416	35.47	1476	39.81
21152	1600	1163	19.62	1186	21.07	1221	23.10	1254	25.06	1323	29.51	1379	33.33	1439	37.69	1500	42.35
22474	1700	1204	21.57	1217	22.45	1262	25.38	1294	27.48	1357	31.85	1416	36.20	1474	40.69	1532	45.43
23796	1800	1244	23.59	1260	24.82	1293	27.02	1331	29.74	1391	34.17	1454	39.14	1509	43.76	1561	48.30
25118	1900	1295	26.24	1304	27.20	1337	29.69	1365	31.77	1432	37.20	1489	41.97	1546	47.06	1588	51.00
26440	2000	1340	28.74	1349	29.82	1380	32.34	1409	34.77	1471	40.06	1524	44.92	1576	49.84	1632	55.37
27762	2100	1380	31.07	1395	32.60	1424	35.18	1452	37.76	1507	42.74	1555	47.41	1607	52.66	1664	58.69
29084	2200	1430	34.16	1442	35.73	1470	38.40	1495	40.79	1550	46.27	1601	51.51	1651	56.93	1690	61.36
30406	2300	1483	37.69	1493	39.40	1518	41.97	1538	44.04	1596	50.22	1644	55.38	1696	61.48	1741	66.80
31728	2400	1525	40.61	1538	42.62	1566	45.64	1586	47.86	1631	52.90	1685	59.27	1731	64.92	1777	70.77
33050	2500	1575	44.31	1590	46.56	1614	49.45	1633	51.77	1680	57.62	1727	63.40	1778	69.96	1820	75.58
34372	2600	1628	48.48	1642	50.97	1663	53.63	1682	56.13	1727	61.86	1771	67.97	1818	74.50	1858	80.00
35694	2700	1677	52.58	1688	54.76	1711	57.80	1731	60.68	1774	66.66	1817	72.85	1860	79.11	1905	85.86
37016	2800	1725	56.82	1736	58.86	1760	62.39	1780	65.42	1816	70.61	1862	77.54	1905	84.40	1943	90.60

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 400

TYPE TB TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 16.04 S. F. WHEEL DIAMETER = 40.25"

INLET AND OUTLET DIA = 54.25" TIP SPEED FPM = 1.54 x RPM MAX. BHP = 20.26 (RPM/1000)³

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.30 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8020	500	306	0.57	358	0.95	401	1.33	444	1.77								
9624	600	349	0.81	392	1.23	435	1.71	470	2.15								
11228	700	394	1.13	432	1.60	468	2.10	502	2.62	549	3.43	608	4.52				
												633	5.09	689	6.36		
12832	800	440	1.51	472	2.03	505	2.60	539	3.22	599	4.47	658	5.86	710	7.24	772	9.03
14436	900	490	2.06	517	2.60	546	3.21	571	3.76	631	5.22	684	6.65	728	7.98	787	9.87
16040	1000	535	2.62	564	3.30	588	3.91	612	4.53	666	6.07	717	7.64	760	9.12	810	11.00
17644	1100	581	3.28	606	3.98	633	4.77	654	5.43	703	7.03	749	8.65	792	10.31	836	12.15
19248	1200	629	4.12	654	4.92	679	5.76	698	6.50	740	8.05	787	9.95	828	11.75	866	13.50
20852	1300	676	5.06	699	5.87	725	6.90	745	7.77	783	9.40	825	11.37	864	13.21	901	15.13
22456	1400	724	6.14	747	7.08	768	8.01	787	8.95	826	10.90	865	12.90	897	14.64	936	16.86
24060	1500	773	7.44	792	8.32	814	9.44	836	10.59	867	12.31	907	14.66	941	16.73	984	19.43
25664	1600	823	8.94	842	9.95	861	10.98	882	12.26	912	14.16	944	16.28	979	18.57	1008	20.63
27268	1700	873	10.62	891	11.73	909	12.89	927	13.98	958	16.20	989	18.48	1018	20.61	1048	22.86
28872	1800	920	12.35	936	13.38	956	14.69	973	15.91	1003	18.31	1032	20.64	1062	23.17	1088	25.36
30476	1900	969	14.38	986	15.56	1003	16.90	1019	18.12	1047	20.52	1078	23.28	1108	26.01	1135	28.51
32080	2000	1018	16.56	1034	17.89	1051	19.27	1067	20.65	1095	23.26	1122	25.82	1153	28.99	1179	31.64
33684	2100	1067	19.06	1084	20.53	1097	21.74	1111	23.03	1140	25.90	1170	29.07	1197	32.01	1222	34.84
35288	2200	1117	21.79	1132	23.24	1145	24.50	1160	26.10	1187	28.93	1214	32.00	1243	35.35	1264	38.02
36892	2300	1167	24.79	1181	26.29	1193	27.60	1208	29.30	1233	32.04	1261	35.53	1289	39.10	1314	42.53
38496	2400	1216	27.98	1230	29.69	1241	30.91	1254	32.45	1281	35.68	1306	39.00	1332	42.53	1356	45.89
40100	2500	1265	31.53	1280	33.37	1290	34.64	1302	36.16	1328	39.63	1354	43.20	1375	46.29	1401	50.21
41704	260.0	1315	35.26	1327	36.95	1339	38.53	1350	40.10	1376	43.70	1398	46.96	1424	51.09	1446	54.62
43308	2700	1364	39.37	1376	41.26	1388	42.77	1399	44.46	1426	48.51	1445	51.67	1466	55.04	1492	59.35
44912	2800	1413	43.66	1425	45.44	1436	47.17	1445	48.66	1471	52.87	1491	56.17	1514	59.88	1537	64.46

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12832	800																
14436	900	832	11.59	873	13.08												
16040	1000	853	12.73	891	14.30	939	16.47	974	18.11								
17644	1100																
19248	1200	879	14.05	912	15.61	955	17.69	992	19.64	1074	24.25						
20852	1300	910	15.63	941	17.26	982	19.52	1012	21.22	1087	25.77	1158	30.56				
		943	17.40	973	19.16	1009	21.34	1040	23.24	1113	28.13	1177	32.76				
22456	1400	976	19.23	1005	21.06	1042	23.51	1074	25.73	1140	30.55	1201	35.25	1265	40.70	1318	45.44
24060	1500	1015	21.46	1041	23.33	1075	25.79	1107	28.16	1167	32.93	1226	37.95	1284	43.13	1339	48.41
25664	1600	1043	23.15	1076	25.63	1107	28.09	1137	30.48	1200	35.89	1250	40.53	1305	45.83	1360	51.50
27268	1700	1088	25.99	1103	27.30	1145	30.86	1173	33.41	1231	38.73	1284	44.02	1337	49.48	1389	55.24
28872	1800	1127	28.60	1143	30.18	1173	32.85	1207	36.16	1261	41.56	1318	47.60	1368	53.22	1415	58.74
30476	1900	1168	31.45	1183	33.08	1213	36.11	1238	38.64	1299	45.23	1350	51.03	1402	57.23	1440	62.02
32080	2000	1210	34.57	1224	36.27	1251	39.32	1278	42.28	1334	48.72	1382	54.63	1429	60.60	1480	67.34
33684	2100	1252	37.84	1265	39.64	1291	42.78	1317	45.91	1366	51.97	1410	57.65	1457	64.03	1509	71.37
35288	2200	1294	41.31	1308	43.45	1333	46.69	1356	49.60	1406	56.27	1452	62.63	1497	69.23	1533	74.62
36892	2300	1344	45.73	1354	47.91	1377	51.04	1395	53.55	1448	61.06	1491	67.35	1538	74.77	1578	81.23
38496	2400	1382	49.29	1395	51.82	1420	55.50	1438	58.20	1479	64.33	1528	72.08	1570	78.95	1612	86.06
40100	2500	1429	53.95	1441	56.62	1463	60.13	1481	62.95	1524	70.06	1566	77.09	1612	85.08	1650	91.91
41704	2600	1476	58.92	1489	61.99	1508	65.22	1525	68.26	1566	75.22	1606	82.65	1649	90.60	1685	97.29
43308	2700	1518	63.62	1530	66.59	1551	70.29	1569	73.79	1609	81.06	1648	88.58	1687	96.20	1728	104.41
44912	2800	1565	69.18	1575	71.58	1596	75.87	1614	79.55	1647	85.86	1688	94.29	1728	102.64	1762	110.17

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 440

TYPE TB TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 19.62 S. F. WHEEL DIAMETER = 44.5"

INLET AND OUTLET DIA = 60" TIP SPEED FPM = 11.65 x RPM MAX. BHP = 36.09 (RPM/1000)³

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.30 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9810	500	266	0.63	314	1.10	362	1.68	401	2.22								
11772	600	298	0.84	344	1.42	383	1.99	421	2.65								
13734	700	336	1.14	375	1.77	409	2.40	443	3.09	490	4.04						
15696	800	372	1.50	406	2.17	437	2.84	470	3.65	532	5.36	584	7.06	641	9.06		
17658	900	411	1.98	440	2.65	472	3.49	498	4.23	557	6.13	610	8.08	652	9.81	704	12.13
19620	1000	449	2.53	477	3.28	504	4.10	531	4.98	582	6.89	628	8.81	677	11.03	719	13.21
21582	1100	488	3.18	513	3.96	538	4.85	562	5.80	611	7.82	656	9.90	700	12.21	744	14.69
23544	1200	527	3.95	551	4.80	574	5.73	597	6.72	645	9.01	683	11.07	728	13.65	767	16.07
25506	1300	567	4.86	590	5.80	611	6.77	632	7.81	673	9.97	715	12.46	755	15.03	793	17.65
27468	1400	606	5.88	627	6.83	649	7.97	669	9.07	707	11.35	749	14.08	780	16.32	818	19.21
29430	1500	648	7.14	664	8.01	686	9.23	708	10.54	738	12.56	779	15.55	814	18.25	847	20.98
31392	1600	690	8.57	707	9.61	725	10.75	744	12.01	777	14.47	811	17.20	850	20.54	880	23.23
33354	1700	731	10.19	748	11.26	767	12.60	781	13.72	813	16.24	844	18.92	877	22.00	914	25.60
35316	1800	773	12.02	788	13.06	806	14.51	822	15.77	850	18.31	881	21.24	913	24.49	946	28.21
37278	1900	814	14.01	828	15.08	844	16.52	860	17.85	888	20.65	917	23.58	945	26.72	976	30.31
39240	2000	854	16.15	869	17.44	884	18.82	898	20.20	925	22.96	953	26.05	981	29.40	1010	33.01
41202	2100	896	18.59	911	20.01	922	21.16	938	22.78	964	25.65	990	28.81	1016	32.20	1040	35.33
43164	2200	939	21.31	952	22.74	964	24.05	976	25.42	1003	28.71	1026	31.72	1052	35.28	1077	38.77
45126	2300	981	24.21	991	25.45	1003	26.91	1016	28.46	1041	31.75	1064	34.95	1088	38.42	1113	42.31
47088	2400	1022	27.35	1032	28.66	1043	30.13	1053	31.48	1078	34.91	1100	38.15	1125	41.99	1148	45.88
49050	2500	1063	30.73	1074	32.20	1083	33.56	1094	34.98	1117	38.44	1139	41.93	1161	45.66	1183	49.62
51012	2600	1105	34.56	1114	35.91	1124	37.42	1133	38.65	1155	40.40	1176	45.86	1198	49.57	1222	54.18
52974	2700	1147	38.48	1155	39.86	1163	41.17	1173	42.77	1196	46.65	1217	50.82	1235	53.86	1261	59.76
54936	2800	1188	42.67	1195	44.06	1205	45.65	1213	47.15	1234	50.84	1254	57.62	1274	58.51	1295	62.99

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15696	800																
17685	900	748	14.52														
19620	1000	762	15.50	802	15.28												
21582	1100	782	17.00	830	16.80	857	22.36	908	25.53								
23544	1200	811	18.98	842	18.94	875	23.69	912	26.61	981	32.32						
25506	1300	835	20.76	864	20.76	900	25.90	932	28.73	995	34.43	1060	40.85				
27468	1400	855	22.19	891	22.28	925	28.19	956	31.11	1018	37.27	1071	43.01	1133	49.96		
29430	1500	880	23.92	916	24.22	951	30.55	982	33.71	1035	39.40	1098	46.76	1148	52.90	1202	59.95
31392	1600	907	25.83	946	26.25	972	32.48	1017	37.41	1064	42.88	1117	49.51	1173	56.94	1222	63.98
33354	1700	941	28.53	964	28.71	1008	36.01	1028	38.62	1086	45.49	1143	53.18	1192	60.28	1242	67.72
35316	1800	974	31.18	1002	31.64	1026	37.45	1055	41.17	1112	48.94	1165	56.39	1218	64.35	1262	71.55
37278	1900	1006	33.86	1029	34.37	1059	40.71	1082	44.05	1139	52.23	1190	59.90	1240	67.87	1288	76.05
39240	2000	1038	36.64	1064	37.36	1089	43.70	1118	47.97	1166	55.43	1211	62.90	1262	71.44	1311	80.28
41202	2100	1072	39.92	1098	40.71	1121	47.25	1140	50.19	1194	58.99	1241	67.18	1284	75.21	1343	86.32
43164	2200	1106	43.21	1130	44.08	1154	51.09	1175	54.44	1223	62.71	1270	71.38	1313	80.05	1359	89.17
45126	2300	1141	46.85	1165	47.80	1191	55.20	1210	58.82	1255	66.69	1296	68.84	1339	83.78	1389	94.84
47088	2400	1177	50.92	1205	52.08	1223	59.02	1244	63.09	1285	71.22	1325	79.49	1367	88.59	1415	99.44
49050	2500	1216	55.53	1236	58.22	1263	64.47	1285	69.04	1318	76.27	1359	85.01	1395	93.12	1441	104.31
51012	2600	1252	59.86	1277	61.25	1292	68.07	1312	72.26	1354	81.76	1392	90.55	1432	100.06	1473	110.38
52974	2700	1293	65.59	1311	66.67	1329	73.27	1349	77.59	1387	86.97	1427	96.80	1468	106.87	1499	115.46
54936	2800	1328	70.19	1347	72.86	1365	79.11	1385	83.44	1418	91.64	1464	103.49	1495	112.00	1538	124.00

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 490

TYPE TB TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 23.66 S. F. WHEEL DIAMETER = 49

INLET AND OUTLET DIA = 65.875" TIP SPEED FPM = 12.83 x RPM MAX. BHP = 58.34 (RPM/ 1000)cube

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.30 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11894	500	242	0.76	285	1.33	329	2.04	364	2.69								
14273	600	271	1.02	312	1.72	348	2.41	382	3.21	445	4.90						
16652	700	305	1.38	341	2.15	371	2.91	402	3.75	461	5.63	517	7.66				
19031	800	338	1.82	369	2.63	397	3.44	427	4.43	483	6.50	530	8.56	582	10.99		
21410	900	373	2.40	400	3.21	429	4.23	452	5.13	506	7.43	554	9.80	592	11.89	639	14.71
23789	1000	408	3.07	433	3.98	458	4.97	482	6.04	529	8.35	570	10.68	615	13.37	653	16.02
26168	1100	443	3.86	466	4.80	489	5.88	510	7.03	555	9.48	596	12.00	636	14.80	676	17.81
28546	1200	479	4.79	500	5.82	521	6.95	542	8.15	586	10.92	620	13.42	661	16.55	697	19.48
30925	1300	515	5.89	536	7.03	555	8.21	574	9.47	611	12.09	649	15.11	686	18.22	720	21.40
33304	1400	550	7.13	569	8.28	589	9.66	608	11.00	642	13.76	680	17.07	708	19.79	743	23.29
35683	1500	588	8.66	603	9.71	623	11.19	643	12.78	670	15.23	707	18.85	739	22.13	769	25.44
38062	1600	627	10.39	642	11.65	658	13.03	676	14.56	706	17.54	737	20.85	772	24.90	799	28.17
40441	1700	664	12.36	679	13.65	697	15.28	709	16.64	738	19.69	766	22.94	796	26.67	830	31.04
42820	1800	702	14.57	716	15.83	732	17.59	747	19.12	772	22.20	800	25.75	829	29.69	859	34.20
45199	1900	739	16.99	752	18.28	766	20.03	781	21.64	806	25.04	833	28.59	858	32.40	886	36.75
47577	2000	776	19.58	789	21.15	803	22.82	816	24.49	840	27.84	865	31.58	891	35.65	917	40.02
49556	2100	814	22.54	827	24.26	837	25.66	852	27.62	875	31.10	899	34.93	923	39.04	944	42.84
52335	2200	853	25.84	865	27.57	875	29.16	886	30.82	911	34.81	932	38.46	955	42.78	978	47.01
54714	2300	910	29.35	900	30.86	911	32.63	923	34.51	945	38.50	966	42.38	988	46.58	1011	51.30
57093	2400	928	33.16	937	34.75	947	36.53	956	38.17	979	42.33	999	46.26	1022	50.91	1043	55.63
59472	2500	965	37.26	975	39.04	984	40.69	994	42.41	1014	46.61	1034	50.84	1054	55.36	1074	60.16
61851	2600	1004	41.90	1012	43.54	1021	45.37	1029	46.86	1049	48.98	1068	55.60	1088	60.10	1110	65.69
64230	2700	1042	46.66	1049	48.33	1056	49.92	1065	51.86	1086	56.56	1105	61.62	1122	65.30	1145	72.46
66608	2800	1079	51.74	1065	53.42	1094	55.35	1102	57.17	1121	61.64	1139	69.86	1157	70.94	1176	76.37

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
19031	800																
21443	900	679	17.61														
23789	1000	692	18.79	728	18.53												
26168	1100	710	20.61	754	20.37	778	27.11	825	30.95								
28546	1200	737	23.01	765	22.96	795	28.72	828	32.26	891	39.19						
30925	1300	758	25.17	785	25.17	817	31.40	846	34.83	904	41.75	963	49.53				
33304	1400	776	26.90	809	27.01	840	34.18	868	37.72	925	45.19	973	52.15	1029	60.58		
35683	1500	799	29.00	832	29.37	864	37.04	892	40.87	940	47.77	997	56.70	1043	64.14	1092	72.69
38062	1600	824	31.32	859	31.83	883	39.38	924	45.36	966	51.99	1014	60.03	1065	69.04	1110	77.57
40441	1700	855	34.59	875	34.81	915	43.66	934	46.83	986	55.16	1038	64.48	1083	73.09	1128	82.11
42820	1800	885	37.80	910	38.36	932	45.41	958	49.92	1010	59.34	1058	68.37	1106	78.02	1146	86.75
45199	1900	914	41.05	934	41.67	962	49.36	983	53.41	1034	63.33	1081	72.63	1126	82.29	1170	92.21
47577	2000	943	44.43	966	45.30	989	52.99	1015	58.16	1059	67.21	1100	76.26	1146	86.62	1191	97.34
49556	2100	974	48.40	997	49.36	1018	57.29	1035	60.85	1084	71.52	1127	81.45	1166	91.19	1220	104.66
52335	2200	1004	52.39	1026	53.45	1048	61.95	1067	66.01	1111	76.03	1153	86.55	1192	97.06	1234	108.12
54714	2300	1036	56.80	1058	57.96	1082	66.93	1099	71.32	1140	80.86	1177	83.47	1216	101.58	1261	114.99
57093	2400	1069	61.74	1094	63.15	1111	71.56	1130	76.49	1167	86.35	1203	96.38	1241	107.41	1285	120.57
59472	2500	1104	67.33	1122	70.59	1147	78.17	1167	83.71	1197	92.48	1234	103.07	1267	112.91	1309	126.47
61851	2600	1137	72.58	1160	74.26	1173	82.53	1192	87.61	1230	99.13	1264	109.79	1300	121.32	1338	133.83
64230	2700	1174	79.53	1191	80.84	1207	88.84	1225	94.08	1260	105.45	1296	117.37	1333	129.58	1361	139.99
66608	2800	1206	85.10	1223	88.34	1240	95.92	1258	101.17	1288	111.11	1330	125.48	1358	135.80	1397	150.35

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 540

TYPE TB TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 29.25 S. F. WHEEL DIAMETER = 54'

INLET AND OUTLET DIA = 73.25" TIP SPEED FPM = 14.14 x RPM MAX. BHP = 95.67 (RPM/ 1000)cube

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.30 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14580	500	218	0.94	256	1.63	297	2.50	329	3.30								
17496	600	244	1.25	282	2.11	314	2.96	345	3.94	402	6.00						
20412	700	276	1.69	308	2.63	335	3.57	363	4.59	417	6.90	467	9.39				
23328	800	305	2.23	333	3.23	358	4.22	386	5.42	436	7.97	479	10.49	526	13.47		
26243	900	337	2.94	361	3.94	387	5.19	408	6.29	457	9.11	500	12.01	535	14.58	577	18.03
29159	1000	368	3.76	391	4.87	413	6.09	436	7.40	477	10.24	515	13.09	555	16.39	590	19.63
32075	1100	400	4.73	421	5.89	441	7.21	461	8.62	501	11.62	538	14.71	574	18.15	610	21.83
34991	1200	432	5.87	452	7.13	471	8.52	490	9.99	529	13.39	560	16.45	597	20.29	629	23.88
37907	1300	465	7.22	484	8.62	501	10.06	518	11.61	552	14.82	586	18.52	619	22.34	650	26.23
40823	1400	497	8.74	514	10.15	532	11.85	549	13.48	580	16.87	614	20.93	640	24.25	671	28.55
43739	1500	532	10.61	545	11.90	563	13.72	581	15.66	605	18.67	639	23.11	668	27.12	695	31.18
46655	1600	566	12.74	580	14.28	595	15.98	610	17.85	637	21.51	665	25.56	697	30.53	722	34.52
49571	1700	600	15.14	614	16.73	629	18.73	641	20.39	667	24.14	692	28.12	719	32.70	750	38.05
52487	1800	634	17.86	646	19.41	661	21.56	674	23.44	697	27.21	723	31.57	749	36.40	776	41.93
55403	1900	668	20.82	679	22.41	692	24.55	705	26.53	728	30.69	752	35.04	775	39.71	801	45.05
58319	2000	701	24.00	713	25.92	725	27.97	737	30.02	759	34.12	782	38.72	805	43.69	828	49.06
61235	2100	735	27.63	747	29.74	756	31.45	769	33.86	791	38.12	812	42.82	833	47.86	853	52.51
64151	2200	770	31.67	781	33.80	791	35.74	801	37.78	823	42.67	842	47.14	863	52.43	883	57.62
67067	2300	805	35.98	813	37.82	823	39.99	833	42.30	854	47.19	873	51.94	892	57.10	913	62.88
69983	2400	838	40.65	847	42.59	856	44.78	864	46.79	884	51.88	902	56.70	923	62.41	942	68.19
72898	2500	872	45.67	881	47.86	888	49.88	897	51.99	916	57.13	934	62.32	952	67.86	970	73.75
75814	2600	906	51.36	914	53.37	922	55.61	929	57.44	947	60.04	965	68.16	983	73.67	1002	80.52
78730	2700	941	57.19	947	59.24	954	61.19	962	63.57	981	69.33	998	75.53	1013	80.05	1034	88.82
81646	2800	974	63.42	980	65.48	988	67.85	995	70.07	1012	75.56	1029	85.64	1045	86.96	1062	93.62

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
23328	800																
26284	900	614	21.58														
29159	1000	625	23.04	658	22.71												
32075	1100	641	25.27	681	24.97	703	33.23	745	37.94								
34991	1200	665	28.21	691	28.15	718	35.21	748	39.55	805	48.03						
37907	1300	685	30.85	709	30.85	738	38.49	764	42.70	816	51.17	869	60.71				
40823	1400	701	32.98	731	33.11	759	41.90	784	46.24	835	55.39	879	63.92	929	74.25		
43739	1500	722	35.55	751	36.00	780	45.40	806	50.10	849	58.56	901	69.50	942	78.62	986	89.10
46655	1600	744	38.39	776	39.01	797	48.27	834	55.60	873	63.73	916	73.58	962	84.62	1002	95.09
49571	1700	772	42.40	791	42.67	827	53.52	843	57.40	891	67.61	938	79.04	978	89.59	1019	100.65
52487	1800	799	46.34	822	47.02	842	55.66	865	61.19	912	72.73	956	83.81	999	95.64	1035	106.34
55403	1900	825	50.32	844	51.08	869	60.50	888	65.47	934	77.62	976	89.02	1017	100.87	1057	113.03
58319	2000	851	54.45	873	55.52	893	64.95	917	71.29	956	82.38	993	93.48	1035	106.17	1075	119.31
61235	2100	879	59.33	901	60.50	920	70.22	935	74.59	979	87.67	1018	99.84	1053	111.78	1102	128.29
64151	2200	907	64.22	927	65.51	947	75.93	964	80.91	1003	93.20	1042	106.09	1077	118.97	1115	132.53
67067	2300	936	69.63	956	71.04	77	82.04	993	87.42	1029	99.12	1063	102.31	1098	124.51	1139	140.95
69983	2400	965	75.68	988	77.40	1003	87.72	1020	93.76	1054	105.85	1087	118.14	1121	131.66	1161	147.79
72898	2500	997	82.53	1014	86.53	1036	95.82	1054	102.61	1081	113.35	1115	126.34	1144	138.40	1182	155.03
75814	2600	1027	88.96	1047	91.03	1060	101.17	1076	107.39	1111	121.51	1142	134.58	1175	148.71	1208	164.05
78730	2700	1061	97.48	1075	99.09	1090	108.89	1107	115.31	1138	129.26	1171	143.86	1204	158.83	1230	171.60
81646	2800	1089	104.32	1105	108.29	1120	117.57	1136	124.01	1163	136.20	1201	153.81	1226	166.46	1262	184.29

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 600

TYPE TB TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 35.99 S. F. WHEEL DIAMETER = 60"

INLET AND OUTLET DIA = 81.25" TIP SPEED FPM = 14.14 x RPM MAX. BHP = 15.71 (RPM/ 1000)cube

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.30 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
17834	500	197	1.15	233	2.00	268	3.05	297	4.04								
21401	600	221	1.53	255	2.58	284	3.62	312	4.82	363	7.34						
24968	700	249	2.07	278	3.22	303	4.36	329	5.62	377	8.44	422	11.49				
28535	800	276	2.73	301	3.94	324	5.16	349	6.64	395	9.74	433	12.83	475	16.47		
32101	900	305	3.60	326	4.82	350	6.34	369	7.69	413	11.14	452	14.69	484	17.83	522	22.05
35668	1000	333	4.60	354	5.96	374	7.45	394	9.05	432	12.53	466	16.02	502	20.05	533	24.02
39235	1100	362	5.78	380	7.20	399	8.82	417	10.54	453	14.22	487	18.00	519	22.20	552	26.71
42802	1200	391	7.18	409	8.73	426	10.42	443	12.22	478	16.38	507	20.12	540	24.82	569	29.21
46369	1300	421	8.84	438	10.54	453	12.31	469	14.20	499	18.12	530	22.65	560	27.32	588	32.09
49936	1400	449	10.69	465	12.42	481	14.49	496	16.49	524	20.63	556	25.60	578	29.67	607	34.92
53502	1500	481	12.98	492	14.56	509	16.78	525	19.16	547	22.83	578	28.27	604	33.18	628	38.14
57069	1600	512	15.58	524	17.47	538	19.54	552	21.83	576	26.31	601	31.27	630	37.34	653	42.23
60636	1700	542	18.52	555	20.47	569	22.91	579	24.94	603	29.52	626	34.40	650	39.99	678	46.54
64203	1800	573	21.85	584	23.74	598	26.38	610	28.67	630	33.29	653	38.61	677	44.52	702	51.28
67770	1900	604	25.47	614	27.41	626	30.03	638	32.45	659	37.54	680	42.87	701	48.58	724	55.10
71336	2000	633	29.36	645	31.71	656	34.21	666	36.72	686	41.74	707	47.36	728	53.45	749	60.01
74903	2100	665	33.80	676	36.38	684	38.47	696	41.41	715	46.63	734	52.38	754	58.54	771	64.23
78470	2200	696	38.74	706	41.34	715	43.72	724	46.21	744	52.19	761	57.67	780	64.14	799	70.48
82037	2300	728	44.01	735	46.27	744	48.92	754	51.74	772	57.72	789	63.54	807	69.85	825	76.92
85604	2400	758	49.72	765	52.10	774	54.77	781	57.23	800	63.46	816	69.35	834	76.34	851	83.41
89171	2500	788	55.87	797	58.54	803	61.01	811	63.59	828	69.88	845	76.23	861	83.01	877	90.21
92737	2600	820	62.83	826	65.28	834	68.03	840	70.26	857	73.45	872	83.37	889	90.12	906	98.50
96304	2700	851	69.95	857	72.46	863	74.85	870	77.75	887	84.81	903	92.39	916	97.91	935	108.64
99871	2800	881	77.57	886	80.10	894	82.99	900	85.72	915	92.42	930	104.75	945	106.37	960	114.51

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
28535	800																
32150	900	555	26.40														
35668	1000	565	28.18	595	27.78												
39235	1100	580	30.91	616	30.54	636	40.65	673	46.41								
42802	1200	601	34.50	624	34.43	649	43.07	676	48.38	728	58.76						
46369	1300	619	37.74	641	37.74	667	47.08	691	52.23	738	62.59	786	74.26				
49936	1400	634	40.34	661	40.50	686	51.25	709	56.56	755	67.76	794	78.19	840	90.82		
53502	1500	653	43.49	679	44.03	705	55.54	728	61.28	768	71.63	814	85.01	851	96.17	891	108.99
57069	1600	673	46.96	702	47.72	721	59.05	754	68.01	789	77.95	828	90.01	870	103.51	906	116.31
60636	1700	698	51.87	715	52.19	748	65.46	762	70.21	805	82.70	848	96.68	884	109.59	921	123.11
64203	1800	722	56.68	743	57.52	761	68.08	782	74.85	825	88.97	864	102.51	903	116.99	936	130.07
67770	1900	746	61.56	763	62.48	785	74.01	802	80.08	845	94.95	883	108.90	920	123.38	955	138.26
71336	2000	770	66.61	789	67.92	808	79.44	829	87.21	865	100.77	898	114.35	936	129.87	972	145.95
74903	2100	795	72.57	814	74.01	831	85.90	845	91.24	886	107.24	920	122.13	952	136.73	996	156.93
78470	2200	820	78.55	838	80.14	856	92.88	871	98.97	907	114.00	942	129.77	974	145.53	1008	162.11
82037	2300	846	85.17	864	86.90	883	100.35	897	106.93	931	121.24	961	125.15	993	152.31	1030	172.41
85604	2400	873	92.57	894	94.68	907	107.30	923	114.69	953	129.47	983	144.51	1014	161.05	1049	180.78
89171	2500	902	100.95	917	105.84	937	117.20	953	125.51	978	138.66	1008	154.54	1035	169.29	1069	189.63
92737	2600	929	108.82	947	111.35	958	123.75	973	131.37	1004	148.64	1032	164.62	1062	181.90	1092	200.67
96304	2700	959	119.24	972	121.20	986	133.20	1001	141.05	1029	158.11	1058	175.98	1089	194.28	1112	209.90
99871	2800	985	127.60	999	132.46	1012	143.82	1027	151.69	1052	166.60	1086	188.14	1109	203.61	1141	225.43

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 660

TYPE TB TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 43.55 S. F. WHEEL DIAMETER = 66"

INLET AND OUTLET DIA = 89.375" TIP SPEED FPM = 17.28 x RPM MAX. BHP = 258.3 (RPM/ 1000)cubed

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.30 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
21579	500	179	1.39	212	2.42	244	3.70	270	4.88								
25895	600	201	1.85	232	3.12	258	4.38	284	5.83								
30211	700	227	2.51	253	3.89	276	5.28	299	6.80	330	8.89						
										343	10.21	384	13.90				
34527	800	251	3.30	274	4.77	295	6.25	317	8.03	359	11.79	394	15.53	432	19.93		
38843	900	277	4.36	297	5.83	318	7.68	336	9.30	376	13.48	411	17.77	440	21.58	475	26.68
43159	1000	303	5.57	322	7.22	340	9.02	358	10.95	392	15.16	423	19.38	456	24.26	485	29.06
47474	1100	329	7.00	346	8.71	363	10.67	379	12.76	412	17.20	442	21.78	472	26.86	502	32.31
51790	1200	355	8.69	372	10.56	387	12.60	403	14.78	435	19.82	461	24.35	491	30.03	517	35.35
56106	1300	382	10.69	398	12.76	412	14.89	426	17.18	454	21.93	482	27.41	509	33.06	535	38.83
60422	1400	409	12.93	423	15.02	438	17.53	451	19.95	477	24.97	505	30.97	526	35.90	552	42.26
64738	1500	437	15.71	448	17.62	463	20.30	477	23.19	498	27.63	525	34.21	549	40.14	571	46.15
69054	1600	465	18.85	477	21.14	489	23.65	502	26.42	524	31.83	547	37.84	573	45.18	593	51.10
73370	1700	493	22.42	504	24.77	517	27.72	527	30.18	548	35.72	569	41.62	591	48.39	616	56.31
77685	1800	521	26.44	531	28.73	543	31.92	554	34.69	573	40.28	594	46.72	616	53.87	638	62.05
82001	1900	549	30.82	558	33.17	569	36.34	580	39.27	599	45.42	618	51.87	637	58.78	658	66.67
86317	2000	576	35.53	586	38.36	596	41.40	605	44.43	624	50.51	643	57.30	661	64.67	681	72.61
90633	2100	604	40.89	614	44.02	622	46.55	632	50.11	650	56.42	667	63.37	685	70.83	701	77.72
94949	2200	633	46.88	642	50.02	650	52.90	658	55.92	676	63.15	692	69.78	709	77.61	726	85.28
99265	2300	661	53.26	668	55.98	676	59.19	685	62.60	702	69.84	717	76.88	734	84.51	750	93.07
103581	2400	689	60.16	696	63.04	703	66.28	710	69.25	727	76.79	742	83.92	759	92.37	774	100.92
107896	2500	717	67.60	724	70.83	730	73.82	738	76.95	753	84.56	768	92.23	783	100.44	798	109.15
112212	2600	745	76.02	751	78.99	758	82.31	764	85.02	779	88.87	793	100.88	808	109.04	824	119.18
116528	2700	773	84.65	779	87.68	784	90.56	791	94.08	806	102.62	821	111.79	833	118.48	850	131.46
120844	2800	801	93.86	806	96.92	812	100.42	818	103.72	832	111.83	845	126.75	859	128.71	873	138.56

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
34527	800																
38902	900	504	31.94														
43159	1000	514	34.10	541	33.61												
47474	1100	527	37.40	560	36.96	578	49.19	612	56.16								
51790	1200	547	41.75	568	41.66	590	52.11	615	58.53	661	71.10						
56106	1300	563	45.67	583	45.67	607	56.97	628	63.20	671	75.74	715	89.86				
60422	1400	576	48.81	601	49.01	624	62.01	645	68.43	686	81.98	722	94.61	764	109.90		
64738	1500	593	52.62	618	53.28	641	67.20	662	74.15	698	86.67	740	102.86	774	116.37	810	131.87
69054	1600	612	56.82	638	57.74	655	71.45	686	82.29	717	94.32	753	108.91	791	125.25	824	140.74
73370	1700	634	62.76	650	63.15	680	79.21	693	84.95	732	100.07	771	116.98	804	132.60	837	148.97
77685	1800	657	68.59	676	69.60	692	82.38	711	90.56	750	107.65	785	124.04	821	141.55	851	157.39
82001	1900	678	74.48	694	75.60	714	89.55	730	96.90	768	114.89	802	131.76	836	149.30	868	167.29
86317	2000	700	80.60	717	82.18	734	96.13	754	105.52	786	121.93	817	138.36	851	157.15	884	176.59
90633	2100	723	87.81	740	89.55	756	103.94	769	110.40	805	129.76	837	147.78	866	165.44	906	189.88
94949	2200	746	95.05	762	96.96	778	112.38	792	119.75	825	137.94	856	157.02	885	176.09	916	196.15
99265	2300	769	103.06	785	105.15	803	121.42	816	129.39	846	146.70	874	151.43	903	184.29	937	208.62
103581	2400	794	112.01	812	114.56	825	129.83	839	138.78	866	156.66	893	174.86	922	194.87	954	218.74
107896	2500	820	122.15	833	128.07	852	141.82	866	151.87	889	167.77	916	187.00	941	204.84	972	229.45
112212	2600	844	131.68	861	134.73	871	149.74	885	158.95	913	179.85	939	199.18	966	220.10	993	242.81
116528	2700	872	144.28	884	146.66	896	161.17	910	170.68	935	191.31	962	212.93	990	235.08	1011	253.98
120844	2800	895	154.40	908	160.27	920	174.02	934	183.54	956	201.58	987	227.65	1008	246.37	1037	272.77

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.

SIZE 730

TYPE TB TUBULAR CENTRIFUGAL FAN

INTAKE AND OUTLET AREA = 53.29 S. F. WHEEL DIAMETER = 73'

INLET AND OUTLET DIA = 98.875" TIP SPEED FPM = 19.11 x RPM MAX. BHP = 428.5 (RPM/ 1000)cube

TOP WHITE AREA, CLASS I / SHADED AREA. CLASS II / BOTTOM WHITE AREA, CLASS III

CFM	OV	0.25 SP		0.30 SP		0.75 SP		1.00 SP		1.50 SP		2.00 SP		2.50 SP		3.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
26400	500	162	1.70	191	2.96	221	4.53	244	5.98								
31680	600	182	2.26	210	3.83	233	5.36	257	7.13	299	10.87						
36960	700	205	3.08	229	4.77	249	6.46	270	8.32	310	12.49	347	17.00				
42240	800	227	4.04	247	5.85	267	7.63	287	9.83	324	14.43	356	18.99	391	24.38		
47520	900	251	5.34	268	7.14	288	9.40	304	11.39	340	16.50	372	21.75	397	26.40	429	32.65
52800	1000	274	6.80	291	8.81	307	11.03	323	13.41	355	18.53	383	23.71	412	29.70	439	35.55
58080	1100	298	8.56	313	10.66	328	13.04	343	15.60	373	21.05	400	26.65	427	32.87	454	39.53
63360	1200	321	10.62	336	12.91	350	15.41	364	18.07	393	24.23	417	29.80	444	36.72	468	43.26
68640	1300	346	13.08	360	15.62	373	18.23	386	21.01	410	26.83	436	33.53	460	40.46	483	47.51
73920	1400	369	15.81	382	18.38	396	21.44	408	24.41	431	30.54	456	37.90	476	43.93	499	51.70
79200	1500	395	19.22	405	21.56	418	24.85	431	28.35	450	33.81	475	41.85	497	49.12	517	56.47
84480	1600	421	23.06	431	25.85	442	28.93	454	32.32	474	38.95	495	46.29	518	55.27	537	62.51
89760	1700	446	27.42	456	30.30	467	33.91	476	36.93	496	43.70	514	50.91	534	59.20	557	68.90
95040	1800	471	32.35	480	35.15	491	39.06	501	42.45	518	49.28	537	57.15	556	65.90	576	75.92
100320	1900	496	37.71	505	40.59	515	44.47	524	48.04	542	55.56	559	63.45	576	71.90	595	81.57
105600	2000	521	43.46	530	46.93	539	50.65	548	54.37	564	61.78	581	70.11	598	79.13	616	88.84
110880	2100	546	50.02	555	53.84	562	56.94	572	61.32	587	69.04	603	77.54	619	86.66	634	95.07
116160	2200	572	57.36	581	61.19	588	64.72	595	68.42	611	76.95	626	88.84	641	94.94	656	104.35
121440	2300	598	65.16	604	68.48	611	72.42	619	76.60	634	84.73	648	96.21	663	103.39	678	113.85
126720	2400	623	73.60	629	77.12	636	81.09	642	84.73	657	92.67	671	104.48	686	113.00	700	123.26
132000	2500	648	82.69	654	86.67	660	90.32	667	94.13	681	102.00	694	112.17	708	122.87	721	133.55
137280	2600	674	93.01	679	96.63	685	100.70	690	104.01	704	111.93	717	121.84	731	133.41	745	145.82
142560	2700	699	103.56	704	107.26	709	110.79	715	115.10	729	121.18	742	131.74	753	144.94	769	160.83
147840	2800	724	114.83	728	118.57	734	122.85	740	126.89	752	131.01	764	141.54	777	157.46	789	169.53

CFM	CV	3.50 SP		4.00 SP		4.50 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP		9.0 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
42239	800																
47592	900	456	39.07														
52799	1000	465	41.71	489	41.12												
58079	1100	477	45.75	506	45.21	522	60.17	554	68.70								
63359	1200	494	51.08	513	50.97	533	63.75	556	71.61	598	86.98						
68639	1300	509	55.87	527	55.87	549	69.70	568	77.31	607	92.65	646	109.93				
73918	1400	521	59.71	543	59.96	564	75.86	583	83.72	621	100.30	653	115.74	691	134.45		
79198	1500	536	64.37	558	65.18	580	82.21	599	90.72	631	106.03	669	125.83	700	142.36	733	161.33
84478	1600	553	69.51	577	70.64	593	87.41	620	100.67	649	115.39	681	133.24	715	153.23	745	172.17
89758	1700	574	76.78	588	77.26	614	96.91	627	103.93	662	122.42	697	143.11	727	162.22	757	182.24
95038	1800	594	83.91	611	85.15	625	100.78	643	110.79	678	131.70	710	151.75	742	173.17	769	192.55
100318	1900	613	91.12	627	92.49	646	109.55	660	118.54	694	140.55	725	161.20	756	182.64	785	204.66
105598	2000	633	98.60	649	100.54	664	117.60	682	129.09	711	149.17	738	169.27	769	192.25	799	216.04
110878	2100	653	107.43	669	109.55	683	127.15	695	135.07	728	158.75	756	180.79	783	202.40	819	232.29
116158	2200	674	116.28	689	118.62	703	137.49	716	146.50	746	168.76	774	192.09	800	215.42	828	239.96
121437	2300	696	126.08	710	128.63	726	148.55	738	158.29	765	179.47	790	185.25	816	225.46	847	255.22
126717	2400	717	137.03	735	140.15	746	158.83	758	169.78	783	191.66	808	213.91	833	238.40	863	267.60
131997	2500	741	149.44	753	156.67	770	173.49	783	185.79	803	205.25	828	228.77	850	250.59	878	280.71
137277	2600	763	161.09	778	164.83	788	183.18	800	194.46	825	220.02	849	243.68	873	269.27	898	297.04
142557	2700	788	176.51	799	179.41	810	197.18	822	208.80	845	234.04	870	260.50	895	287.60	914	310.71
147837	2800	810	188.89	821	196.07	832	212.89	844	224.54	864	246.61	892	278.50	911	301.40	938	333.69

Performance shown is for tubular backward incline fans with outlet ducts and with or without inlet ducts

BHP shown does not include belt drive losses.