

MODELS VP-BI/FC

BELT DRIVEN UTILITY VENT SETS



MODEL FEATURES

- Exhaust air to over 33,000 CFM with static pressure capabilities up to 8" w.g.
- Belt drives permit easy performance adjustments when needed
- Backward inclined or forward curved type wheels
- Airtight all welded construction
- Rotatable to 8 discharge orientations
- AMCA Seal for Air and Sound
- cULus 705 and 762 Listings available

MODEL OVERVIEW

VENT-PAK fan wheels are the versatile, quiet, energy efficient backward inclined and forward curved type. The BI and FC wheels make VENT-PAK utility sets the best selection for many industrial, commercial and institutional projects. Typical applications include hood exhaust, welding fume exhaust and flammable gas exhaust. Ventilation of theaters, restaurants, stores, hotels, kitchens, gymnasiums, laundry rooms, lavatories and locker rooms are other common applications for utility sets.

VENT-PAK fans by S&P are available in 12 sizes with wheel diameters from 12-1/4" through 36-1/2". Wheel diameters are readily recognized from the model number. For example VENTPAK 12 has a 12-1/4" diameter wheel and VENT-PAK 27 has a 27" diameter wheel. VENT-PAK Class I fans deliver up to 26,000 cubic feet of air per minute (CFM) at static pressures (SP) up to 5" W.G. Class II fans deliver up to 33,000 CFM at SP up to 8" W.G.

For small or medium size general ventilation applications. VENT-PAK utility sets are the ideal choice. These easy to select, easy to install fans come prepackaged from the factory. Each self-contained unit includes the motor and adjustable drive as well as the fan assembly.

1 year fan housing warranty, 1 year motor warranty

ACCESSORIES/OPTIONS

Discharge Shutters: Gravity operated shutters open when the fan is running and close when the fan is not running. They shut out weather and backdrafts but do not control airflow. Motorized shutters for volume control are also available. Shutters are not suitable for Downblast or angular down discharge positions and they are limited to a maximum of 200°F.

Vibration Mounts, Rails & Hangers: Vibration mounts, rails and hangers are available for all VENT-PAK fans. They are properly sized for each individual unit to assure maximum vibration isolation and correct deflection.

Spark Resistant Construction: Types B and C spark resistant construction are offered in accordance with AMCA specifications. Type B includes an aluminum wheel and a rubbing plate in the fan housing through which the shaft passes. Type B is limited to a maximum air temperature of 250°. Type C fans use an aluminum wheel, aluminum inlet cone and rubbing plate.

Special Coatings: S&P's standard paint is a tough, corrosion resistant enamel. For special requirements, please contact the factory.

Inlet and Discharge Screens: Screens are recommended whenever there is an open inlet or discharge. They protect personnel from injury and guard against foreign objects entering the fan. Inlet screens are heavy-gauge wire. Discharge screens are galvanized hardware cloth.

Flanges: Inlet and discharge flanges are available on all models. Discharge flanges are not available on downblast or angular down discharges. Flanged inlets are prepunched. Flanged discharges are punched only when requested.

Access Doors: Two types of access doors are available: a bolted or quick-opening type. Access doors are specified where examination and cleaning of the fan interior is required.

Drains: Drains are available on all fans except those with bottom horizontal or Downblast discharges. Drains are located at the lowest point of the scroll and feature I.P.S. coupling connections.

Belt Guards: Standard belt guards are of the open back style, and are readily removable for belt or pulley adjustments. For OSHA-style belt guards, see notes on weather cover.

Weather Covers: An easily removable weather cover is available for either Class I or Class II fans. The weather cover provides complete protection for the motor, fan bearings, and V-belt drive. If an OSHA-style belt guard is specified on vent sets, a weather cover will be supplied.

Shaft Seals: Shaft seals are available on all VENT-PAK fans, and standard on all fans with application temperatures over 300°F. The aluminum cover plate is bolted to the fan housing. A non-asbestos woven fiber material is sandwiched between the fan housings and aluminum cover plate. The shaft seal does not make the fan gas tight.

cULus 705 Listing: For Electrical Safety. Includes weather cover & cULus 705 label.

cULus 762 Listing: For Restaurant Exhaust. Includes weather cover, bolted access door, drain fitting, backplate fins & cULus 762 label (Upblast and top angular up discharges only).

CONSTRUCTION/SPECIFICATIONS

Housings feature airtight all welded construction with the inlet and drive stand reinforced with heavy-gauge side sheets. Inlet cones and inlet rings are standard on all VENTPAK utility sets. The fans are field rotatable to eight standard discharges. Motor compartments are designed for easy access and servicing and are heavily constructed and braced. Bearing supports are also rigid and heavily braced to provide a firm foundation for the shaft and bearings. Belt guards and weather covers are vented to reduce heat buildup.

Backward Inclined Wheels are designed for optimum performance for most operating conditions. Class I sizes 12 through 27 are constructed with riveted aluminum wheels. For operating temperatures over 250°F a welded steel frame is provided. Class I sizes 30 through 36, as well as Class II sizes are constructed with welded steel wheels. All wheels are statically and dynamically balanced at the factory after assembly.

Forward Curved Wheels are designed for most operating conditions. All FC fans are constructed with riveted steel wheels.

Shaft and Bearings are designed for long life. S&P uses only the finest turned, ground and polished shafting. First critical shaft speeds are at least 1.43 times the maximum operating speed. VENT-PAK fans are equipped with pillow block bearings supplied by the most respected manufacturers. Nominal L_{10} bearing life is 40,000 hours, based on maximum class fan speed.

Motors and Drives are selected and mounted at the factory as parts on a packaged unit. Available motors include open drip-proof, totally enclosed, and explosion proof models. Open drip-proof and totally enclosed motors are also available in high efficiency models. Adjustable pitch drives are supplied on all VENT-PAK utility sets. All drives have a minimum 1.2 service factor.



PHYSICAL DATA

Fan Model	Wheel Dia. (in.)	Wheel Weight (lbs.)	WR ² (lbs-ft ²) Class I	WR ² (lbs-ft ²) Class II	Max. Wheel RPM Class I	Max. Wheel RPM Class II	Max. Motor Frame Size Class I	Max. Motor Frame Size Class II	Fan Weight Class I (lbs.)	Fan Weight Class II (lbs.)
12	12.25	14	1.78	2.64	3167	4119	145T	184T	121	133
13	13.50	16	2.61	3.97	2874	3738	145T	215T	139	153
15	15.00	20	4.27	5.84	2587	3364	184T	215T	162	178
16	16.50	28	6.87	9.23	2352	3058	184T	215T	198	218
18	18.25	35	11.14	13.98	2118	2729	215T	256T	220	242
20	20.00	42	16.20	20.90	1932	2490	215T	256T	287	316
22	22.25	67	28.80	34.40	1737	2238	215T	256T	348	383
24	24.50	76	40.60	48.00	1577	2033	215T	256T	453	498
27	27.00	87	58.00	70.10	1397	1803	215T	286T	507	559
30	30.00	107	92.50	110.00	1257	1623	215T	286T	662	728
33	33.00	139	131.80	156.00	1143	1475	256T	326T	758	834
36	36.50	173	217.00	243.00	995	1283	286T	326T	940	1034

Weight is fan only (without accessories, motors, bases, drive, etc.)

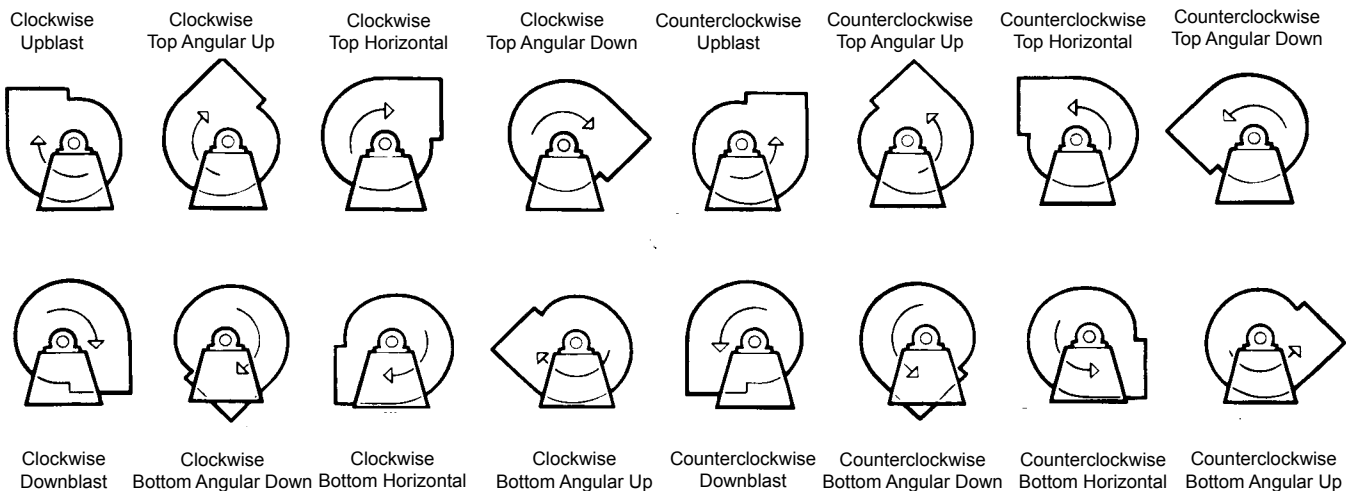
ELEVATED TEMPERATURE DERATE

When elevated temperatures are encountered, maximum RPMs shown above must be derated according to the following table. Aluminum wheels are suitable for use up to 250°F only.

Temp. (°F)	Standard Steel
70	1.00
200	0.98
300	0.96
400	0.95
500	0.90
600	0.86

ROTATION AND DISCHARGE

The direction of rotation is determined from the drive side of the fan. The direction of discharge is determined in accordance with the diagrams below. The angle of discharge is referred to the horizontal axis of fan and designed above or below such standard reference axis.



PERFORMANCE DATA

VENT-PAK 12 BI

Intake Area = .920 Sq. Ft.
Discharge Area = .86 Sq. Ft.

Wheel Diameter = 12.25"
Tip Speed FPM = 3.21 x RPM

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
690	800	869	0.05	1044	0.08	1195	0.10	1335	0.17														
770	900	931	0.06	1096	0.10	1240	0.14	1370	0.18														
860	1000	994	0.07	1152	0.12	1289	0.16	1413	0.21														
950	1100	1058	0.09	1210	0.13	1342	0.18	1461	0.23	1879	0.46												
1030	1200	1123	0.11	1271	0.16	1397	0.21	1512	0.26	1911	0.49												
1200	1400	1256	0.15	1397	0.21	1514	0.26	1622	0.32	1992	0.58	2317	0.87										
1380	1600	1396	0.20	1525	0.27	1638	0.33	1738	0.40	2088	0.68	2390	0.98	2671	1.33								
1550	1800	1539	0.27	1655	0.34	1765	0.42	1861	0.49	2193	0.79	2480	1.12	2741	1.48	2989	1.87						
1720	2000	1685	0.36	1790	0.43	1893	0.51	1988	0.60	2305	0.93	2578	1.27	2827	1.65	3059	2.05	3283	2.48	3500	2.94		
1890	2200	1834	0.46	1929	0.54	2024	0.63	2116	0.72	2421	1.08	2683	1.45	2922	1.84	3144	2.26	3355	2.71	3559	3.18	3758	3.67
2060	2400	1984	0.58	2072	0.66	2159	0.76	2245	0.86	2542	1.25	2794	1.65	3023	2.06	3238	2.50	3440	2.96	3633	3.44	3821	3.95
2240	2600	2135	0.72	2216	0.81	2297	0.91	2377	1.01	2667	1.44	2909	1.87	3131	2.31	3337	2.77	3533	3.25	3719	3.75	3898	4.27
2410	2800	2287	0.88	2363	0.98	2438	1.08	2512	1.19	2793	1.66	3028	2.11	3243	2.58	3442	3.06	3631	3.56	3812	4.08	3985	4.61
2580	3000	2439	1.07	2511	1.17	2581	1.28	2650	1.40	2921	1.89	3151	2.38	3358	2.88	3552	3.39	3735	3.90	3910	4.44	4079	5.00
2750	3200	2593	1.28	2660	1.39	2726	1.51	2791	1.63	3049	2.15	3276	2.68	3477	3.20	3665	3.74	3843	4.28	4013	4.83		
2920	3400	2746	1.52	2810	1.64	2872	1.76	2934	1.89	3179	2.43	3402	2.99	3599	3.55	3781	4.11	3955	4.69				
3100	3600	2901	1.79	2961	1.92	3020	2.04	3078	2.17	3310	2.74	3530	3.34	3723	3.93	3901	4.52	4070	5.12				
3270	3800	3055	2.09	3112	2.22	3168	2.36	3224	2.49	3444	3.08	3658	3.71	3849	4.34	4023	4.96						

Bold figures indicate maximum efficiency.

Performance shown is for installation type B & D: free or ducted inlet, ducted outlet.

Power rating (bhp) does not include belt drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

Class II fans found in shaded areas.



Soler & Palau USA, Div. of Soler & Palau Ventilation Group, certifies that the VENT-PAK Backward Inclined Utility Sets shown on pages 4 through 8 are licensed to bear the AMCA Seal for Sound and Air. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



VENT-PAK 13 BI

Intake Area = 1.120 Sq. Ft. Wheel Diameter = 13.5"
Discharge Area = 1.05 Sq. Ft. Tip Speed FPM = 3.53 x RPM

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
840	800	791	0.06	949	0.10	1086	0.15	1213	0.20														
950	900	847	0.08	997	0.12	1127	0.17	1245	0.23														
1050	1000	905	0.09	1048	0.14	1172	0.19	1285	0.25														
1160	1100	963	0.11	1102	0.17	1220	0.22	1328	0.28	1707	0.56												
1260	1200	1022	0.13	1157	0.19	1271	0.25	1375	0.32	1736	0.60												
1470	1400	1144	0.18	1272	0.25	1378	0.32	1475	0.40	1811	0.70	2105	1.06										
1680	1600	1272	0.25	1388	0.33	1491	0.41	1582	0.49	1899	0.83	2172	1.20	2426	1.62								
1890	1800	1403	0.33	1508	0.42	1607	0.51	1695	0.60	1995	0.97	2254	1.37	2490	1.80	2715	2.28	2931	2.79				
2100	2000	1536	0.44	1631	0.53	1724	0.63	1810	0.73	2097	1.14	2344	1.56	2570	2.02	2780	2.50	2982	3.03	3178	3.58		
2310	2200	1672	0.56	1758	0.66	1844	0.77	1927	0.88	2203	1.32	2441	1.78	2657	2.26	2858	2.77	3048	3.30	3233	3.87	3413	4.48
2520	2400	1809	0.71	1888	0.82	1967	0.93	2045	1.05	2314	1.53	2542	2.02	2750	2.53	2944	3.06	3126	3.62	3301	4.20	3472	4.82
2730	2600	1946	0.88	2020	1.00	2093	1.12	2165	1.24	2428	1.77	2647	2.29	2848	2.83	3035	3.39	3212	3.97	3380	4.57	3542	5.21
2940	2800	2085	1.09	2154	1.21	2221	1.33	2289	1.47	2543	2.03	2756	2.59	2950	3.16	3131	3.75	3302	4.35	3466	4.98	3622	5.64
3150	3000	2224	1.32	2289	1.45	2352	1.58	2415	1.72	2660	2.32	2868	2.92	3056	3.53	3231	4.14	3397	4.78	3555	5.42	3708	6.10
3360	3200	2364	1.58	2425	1.72	2485	1.86	2544	2.00	2777	2.64	2982	3.28	3164	3.92	3335	4.58	3496	5.24	3649	5.91		
3570	3400	2505	1.88	2562	2.02	2618	2.17	2674	2.32	2895	2.98	3098	3.68	3276	4.35	3441	5.04	3598	5.74				
3780	3600	2646	2.21	2699	2.36	2753	2.52	2806	2.68	3015	3.36	3214	4.10	3389	4.82	3550	5.54	3703	6.27				
3990	3800	2787	2.58	2838	2.74	2889	2.90	2939	3.07	3138	3.78	3331	4.56	3504	5.32	3661	6.08						

VENT-PAK 15 BI

Intake Area = 1.390 Sq. Ft. Wheel Diameter = 15"
Discharge Area = 1.29 Sq. Ft. Tip Speed FPM = 3.93 x RPM

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1030	800	710	0.08	853	0.13	976	0.18	1091	0.25														
1160	900	760	0.09	896	0.15	1013	0.21	1119	0.28														
1290	1000	812	0.11	941	0.17	1053	0.24	1154	0.31														
1420	1100	864	0.13	989	0.20	1096	0.27	1193	0.35	1535	0.69												
1550	1200	917	0.16	1038	0.23	1141	0.31	1235	0.39	1561	0.74												
1810	1400	1026	0.22	1141	0.31	1237	0.40	1325	0.49	1627	0.86	1893	1.31										
2060	1600	1140	0.31	1245	0.40	1338	0.50	1420	0.60	1706	1.01	1952	1.48	2181	1.99								
2320	1800	1257	0.41	1352	0.51	1442	0.63	1521	0.74	1791	1.19	2026	1.68	2238	2.21	2441	2.80						
2580	2000	1377	0.53	1462	0.65	1547	0.77	1624	0.90	1882	1.39	2106	1.91	2309	2.47	2499	3.08	2682	3.72	2858	4.41		
2840	2200	1498	0.69	1576	0.81	1654	0.94	1728	1.08	1978	1.62	2192	2.18	2387	2.77	2568	3.40	2740	4.06	2907	4.76	3070	5.51
3100	2400	1621	0.87	1692	1.00	1763	1.13	1834	1.28	2077	1.88	2283	2.48	2470	3.10	2645	3.76	2809	4.44	2967	5.17	3121	5.93
3350	2600	1744	1.08	1811	1.22	1876	1.36	1942	1.52	2178	2.17	2376	2.81	2557	3.47	2726	4.15	2886	4.87	3037	5.62	3183	6.39
3610	2800	1868	1.32	1930	1.47	1991	1.63	2052	1.79	2282	2.49	2474	3.18	2649	3.88	2812	4.60	2966	5.34	3114	6.12	3255	6.92
3870	3000	1993	1.60	2051	1.76	2108	1.92	2165	2.10	2386	2.84	2574	3.58	2743	4.32	2902	5.08	3051	5.86	3194	6.66	3331	7.49
4130	3200	2118	1.92	2173	2.09	2227	2.26	2280	2.44	2491	3.22	2676	4.02	2840	4.80	2994	5.61	3139	6.42	3278	7.25		
4390	3400	2244	2.29	2295	2.46	2346	2.64	2397	2.83	2597	3.65	2779	4.49	2940	5.33	3089	6.17	3231	7.03				
4640	3600	2370	2.69	2419	2.88	2467	3.07	2515	3.26	2704	4.11	2884	5.02	3041	5.90	3186	6.78	3324	7.68				
4900	3800	2496	3.14	2543	3.34	2588	3.54	2634	3.74	2814	4.62	2988	5.57	3144	6.51								

VENT-PAK 16 BI

Intake Area = 1.670 Sq. Ft. Wheel Diameter = 16.5"
Discharge Area = 1.57 Sq. Ft. Tip Speed FPM = 4.32 x RPM

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1260	800	648	0.09	777	0.15	889	0.22	992	0.30														
1410	900	694	0.11	816	0.18	923	0.26	1019	0.34														
1570	1000	741	0.14	858	0.21	959	0.29	1051	0.38														
1730	1100	789	0.17	902	0.25	999	0.33	1087	0.42	1397	0.84												
1880	1200	837	0.20	947	0.29	1040	0.38	1125	0.47	1421	0.90												
2200	1400	937	0.27	1041	0.38	1128	0.48	1208	0.59	1482	1.05	1722	1.59										
2510	1600	1041	0.37	1137	0.49	1221	0.61	1295	0.73	1554	1.24	1778	1.80	1985	2.42								
2830	1800	1149	0.50	1234	0.63	1316	0.77	1387	0.90	1633	1.45	1845	2.05	2038	2.70	2222	3.40	2398	4.16				
3140	2000	1258	0.66	1335	0.79	1412	0.95	1482	1.10	1716	1.70	1919	2.33	2103	3.01	2275	3.74	2441	4.53	2601	5.36		
3450	2200	1369	0.84	1440	0.99	1510	1.15	1577	1.32	1803	1.98	1998	2.66	2174	3.37	2339	4.14	2495	4.94	2646	5.80	2793	6.69
3770	2400	1481	1.06	1546	1.22	1610	1.39	1674	1.57	1894	2.29	2081	3.03	2250	3.78	2409	4.57	2559	5.41	2702	6.29	2841	7.21
4080	2600	1594	1.33	1654	1.49	1713	1.67	1773	1.86	1987	2.65	2167	3.43	2331	4.23	2484	5.06	2629	5.93	2766	6.84	2899	7.79
4400	2800	1708	1.63	1764	1.81	1819	2.00	1874	2.19	2082	3.04	2256	3.88	2415	4.73	2563	5.61	2702	6.50	2836	7.45	2964	8.42
4710	3000	1822	1.97	1874	2.16	1926	2.36	1977	2.57	2177	3.47	2348	4.37	2501	5.28	2645	6.20	2780	7.14	2910	8.12	3035	9.13
5020	3200	1936	2.37	1986	2.57	2035	2.78	2083	3.00	2273	3.95	2441	4.91	2590	5.87	2730	6.85	2862	7.84	2987	8.84		
5340	3400	2051	2.81	2098	3.03	2144	3.25	2190	3.48	2370	4.46	2536	5.50	2682	6.52	2817	7.54	2945	8.58				
5650	3600	2167	3.31	2211	3.54	2254	3.77	2298	4.01	2469	5.04	2631	6.13	2774	7.21	2906	8.29	3031	9.38				
5970	3800	2282	3.87	2324	4.11	2365	4.35	2407	4.60	2569	5.66	2727	6.82	2869	7.97	2997	9.09						

Bold figures indicate maximum efficiency.
Performance shown is for installation type B & D: free or ducted inlet, ducted outlet.
Power rating (bhp) does not include belt drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

Class II fans found in shaded areas.

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MODEL VP-BI/FC
BELT DRIVEN UTILITY VENT SET



VENT-PAK 18 BI

Intake Area = 2.025 Sq. Ft. Wheel Diameter = 18.25"
Discharge Area = 1.92 Sq. Ft. Tip Speed FPM = 4.78 x RPM

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1540	800	569	0.10	695	0.17	811	0.25	917	0.34														
1730	900	609	0.13	724	0.20	831	0.29	932	0.38														
1920	1000	651	0.15	757	0.24	857	0.33	951	0.42														
2110	1100	695	0.18	793	0.27	886	0.37	975	0.47														
2300	1200	741	0.22	831	0.32	919	0.42	1002	0.53	1306	1.02												
2690	1400	835	0.31	914	0.42	991	0.54	1066	0.66	1342	1.19	1590	1.80										
3070	1600	933	0.43	1003	0.55	1071	0.68	1138	0.81	1390	1.38	1621	2.03	1834	2.75								
3460	1800	1032	0.57	1096	0.71	1157	0.86	1217	1.00	1448	1.61	1663	2.30	1864	3.06	2052	3.87						
3840	2000	1133	0.75	1191	0.91	1247	1.06	1302	1.22	1514	1.88	1714	2.61	1903	3.40	2081	4.24	2252	5.15				
4220	2200	1235	0.96	1288	1.13	1340	1.30	1390	1.48	1586	2.20	1772	2.96	1950	3.78	2120	4.67	2282	5.60	2437	6.58		
4610	2400	1337	1.21	1387	1.40	1435	1.59	1482	1.78	1663	2.55	1837	3.35	2005	4.22	2165	5.13	2320	6.11	2469	7.13	2612	8.18
4990	2600	1441	1.51	1487	1.71	1531	1.91	1575	2.11	1744	2.94	1907	3.80	2065	4.71	2218	5.66	2365	6.67	2507	7.71	2645	8.81
5380	2800	1545	1.85	1587	2.60	1629	2.28	1670	2.50	1828	3.38	1982	4.30	2131	5.25	2276	6.25	2416	7.28	2552	8.37	2685	9.50
5760	3000	1649	2.24	1689	2.47	1728	2.70	1767	2.94	1916	3.88	2060	4.85	2202	5.85	2339	6.88	2473	7.97	2603	9.08	2730	10.20
6140	3200	1754	2.69	1792	2.94	1829	3.18	1865	3.43	2006	4.43	2142	5.45	2276	6.51	2407	7.59	2534	8.71	2659	9.87		
6530	3400	1859	3.19	1895	3.46	1929	3.71	1964	3.98	2098	5.04	2227	6.12	2354	7.23	2478	8.35	2600	9.51	2720	10.70		
6910	3600	1964	3.76	1998	4.03	2031	4.31	2064	4.59	2191	5.70	2314	6.84	2434	8.00	2553	9.19	2670	10.40				
7300	3800	2070	4.39	2102	4.68	2133	4.97	2164	5.26	2286	6.44	2403	7.63	2518	8.85	2631	10.10						

VENT-PAK 20 BI

Intake Area = 2.440 Sq. Ft. Wheel Diameter = 20"
Discharge Area = 2.30 Sq. Ft. Tip Speed FPM = 5.23 x RPM

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1840	800	518	0.12	634	0.21	739	0.30	837	0.41														
2070	900	554	0.15	660	0.24	758	0.34	850	0.46														
2300	1000	593	0.18	690	0.28	781	0.39	868	0.51														
2530	1100	633	0.22	723	0.33	808	0.44	889	0.57														
2760	1200	675	0.27	757	0.38	837	0.50	914	0.63	1191	1.22												
3220	1400	761	0.37	833	0.51	903	0.64	971	0.78	1224	1.42	1451	2.16										
3680	1600	849	0.51	914	0.66	976	0.82	1037	0.97	1268	1.66	1479	2.44	1674	3.30								
4140	1800	939	0.68	998	0.85	1054	1.02	1109	1.20	1320	1.93	1517	2.76	1700	3.66	1872	4.63						
4600	2000	1031	0.89	1084	1.08	1136	1.27	1186	1.46	1380	2.25	1563	3.12	1735	4.07	1899	5.09	2054	6.17				
5060	2200	1124	1.15	1173	1.35	1220	1.56	1266	1.76	1445	2.62	1616	3.54	1778	4.53	1933	5.59	2081	6.71	2223	7.89		
5520	2400	1218	1.45	1263	1.67	1307	1.90	1349	2.12	1515	3.05	1675	4.02	1828	5.05	1974	6.14	2116	7.32	2252	8.54	2383	9.81
5980	2600	1312	1.80	1353	2.04	1394	2.28	1435	2.53	1589	3.52	1738	4.54	1883	5.64	2022	6.78	2156	7.98	2287	9.25	2413	10.60
6440	2800	1406	2.21	1445	2.46	1484	2.73	1521	2.98	1666	4.05	1806	5.14	1943	6.28	2075	7.48	2203	8.72	2327	10.00	2448	11.40
6900	3000	1501	2.68	1538	2.95	1574	3.23	1609	3.50	1745	4.63	1877	5.80	2007	7.00	2132	8.24	2254	9.53	2374	10.90	2489	12.30
7360	3200	1597	3.21	1631	3.50	1665	3.80	1698	4.09	1827	5.29	1952	6.52	2074	7.78	2194	9.08	2310	10.40	2424	11.80		
7820	3400	1692	3.81	1723	4.12	1757	4.43	1788	4.74	1911	6.02	2029	7.31	2144	8.63	2259	10.00	2370	11.40	2479	12.80		
8280	3600	1788	4.48	1819	4.81	1849	5.14	1879	5.47	1996	6.82	2108	8.18	2218	9.57	2326	11.00	2433	12.40				
8740	3800	1884	5.23	1913	5.58	1942	5.93	1970	6.27	2082	7.69	2189	9.12	2293	10.60	2397	12.10						

VENT-PAK 22 BI

Intake Area = 3.020 Sq. Ft. Wheel Diameter = 22.25"
Discharge Area = 2.85 Sq. Ft. Tip Speed FPM = 5.83 x RPM

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2280	800	466	0.15	570	0.26	665	0.38	752	0.51														
2570	900	499	0.19	594	0.30	682	0.43	764	0.57														
2850	1000	533	0.23	620	0.35	703	0.48	780	0.63														
3140	1100	570	0.27	650	0.41	727	0.55	799	0.70														
3420	1200	607	0.33	681	0.47	753	0.62	822	0.78	1071	1.52												
3990	1400	684	0.46	749	0.63	812	0.80	874	0.97	1101	1.76	1304	2.68										
4560	1600	764	0.63	822	0.82	878	1.01	933	1.21	1140	2.05	1330	3.02	1504	4.08								
5130	1800	845	0.85	898	1.06	948	1.27	997	1.48	1187	2.40	1364	3.42	1528	4.53	1683	5.74						
5700	2000	928	1.11	976	1.34	1022	1.57	1067	1.81	1241	2.79	1405	3.87	1560	5.04	1707	6.30	1847	7.64				
6270	2200	1011	1.42	1055	1.68	1098	1.93	1139	2.19	1300	3.26	1453	4.39	1599	5.61	1738	6.92	1871	8.31	1999	9.78		
6840	2400	1096	1.80	1136	2.07	1176	2.35	1214	2.63	1363	3.78	1506	4.98	1643	6.25	1775	7.62	1902	9.06	2024	10.60	2142	12.10
7410	2600	1180	2.24	1218	2.53	1255	2.83	1361	3.74	1429	4.36	1563	5.63	1693	6.98	1818	8.40	1939	9.89	2056	11.50	2169	13.10
7980	2800	1266	2.75	1301	3.06	1335	3.38	1369	3.71	1498	5.01	1624	6.37	1747	7.78	1866	9.27	1981	10.80	2093	12.40	2201	14.10
8550	3000	1351	3.32	1384	3.67	1416	4.01	1448	4.35	1570	5.75	1689	7.20	1805	8.68	1917	10.20	2027	11.80	2134	13.50	2238	15.20
9120	3200	1437	3.99	1468	4.35	1498	4.71	1528	5.08	1644	6.57	1755	8.08	1865	9.64	1973	11.30	2078	12.90	2180	14.60		
9690	3400	1523	4.73	1552	5.11	1581	5.50	1609	5.89	1719	7.46	1825	9.07	1929	10.70	2031	12.40	2132	14.10	2230	15.90		
10260	3600	1609	5.57	1637	5.98	1664	6.38	1691	6.79	1796	8.46	1896	10.10	1995	11.90	2093	13.60	2188	15.40				
10830	3800	1696	6.50	1722	6.93	1747	7.35	1773	7.79	1873	9.54	1969	11.30	2063	13.10	2156	15.00						

Bold figures indicate maximum efficiency.
Performance shown is for installation type A & C: free or ducted inlet, ducted outlet.
Power rating (bhp) does not include belt drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

Class II fans found in shaded areas.



Soler & Palau USA, Div. of Soler & Palau



MODEL VP-BI/FC
BELT DRIVEN UTILITY VENT SET



VENT-PAK 24 BI

Intake Area = 3.640 Sq. Ft. Wheel Diameter = 24.5"
Discharge Area = 3.45 Sq. Ft. Tip Speed FPM = 6.41 x RPM

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2760	800	423	0.18	517	0.31	604	0.46	683	0.62														
3110	900	452	0.22	539	0.36	619	0.52	694	0.69														
3450	1000	484	0.27	563	0.42	638	0.59	708	0.76														
3800	1100	517	0.33	590	0.49	659	0.66	726	0.85														
4140	1200	551	0.40	618	0.57	683	0.75	746	0.95	972	1.84												
4830	1400	621	0.56	680	0.76	737	0.96	793	1.18	999	2.13	1184	3.24										
5520	1600	693	0.77	746	0.99	796	1.22	846	1.46	1035	2.49	1207	3.65	1366	4.95								
6210	1800	767	1.03	814	1.28	860	1.53	905	1.79	1078	2.90	1238	4.13	1388	5.49	1528	6.95						
6900	2000	842	1.34	885	1.62	927	1.90	968	2.19	1126	3.38	1275	4.68	1416	6.10	1550	7.63	1677	9.25				
7590	2200	917	1.72	957	2.03	996	2.34	1033	2.64	1179	3.93	1319	5.31	1451	6.79	1578	8.38	1699	10.10	1815	11.80		
8280	2400	994	2.18	1030	2.50	1066	2.84	1101	3.17	1236	4.56	1367	6.02	1492	7.58	1612	9.23	1727	11.00	1838	12.80	1945	14.70
8970	2600	1070	2.70	1104	3.05	1138	3.42	1171	3.79	1296	5.27	1419	6.82	1537	8.46	1650	10.20	1760	12.00	1866	13.90	1969	15.80
9660	2800	1148	3.32	1179	3.69	1211	4.09	1241	4.47	1359	6.06	1474	7.71	1585	9.41	1693	11.20	1798	13.10	1900	15.00	1998	17.10
10350	3000	1225	4.01	1255	4.42	1284	4.84	1313	5.25	1424	6.94	1532	8.70	1638	10.50	1740	12.30	1840	14.30	1937	16.30	2032	18.40
11040	3200	1303	4.81	1331	5.25	1359	5.69	1386	6.13	1491	7.93	1593	9.78	1693	11.70	1790	13.60	1886	15.60	1979	17.70		
11730	3400	1381	5.71	1407	6.17	1433	6.64	1459	7.11	1559	9.01	1655	11.00	1750	13.00	1843	15.00	1934	17.10	2024	19.30		
12420	3600	1459	6.72	1484	7.21	1509	7.71	1533	8.20	1629	10.20	1720	12.30	1810	14.40	1899	16.50	1986	18.60				
13110	3800	1538	7.85	1561	8.36	1585	8.89	1608	9.41	1699	11.50	1786	13.70	1872	15.90	1956	18.10						

VENT-PAK 27 BI

Intake Area = 4.350 Sq. Ft. Wheel Diameter = 27"
Discharge Area = 4.19 Sq. Ft. Tip Speed FPM = 7.075 x RPM

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3350	800	380	0.22	457	0.36	526	0.53	592	0.72														
3770	900	408	0.27	479	0.43	544	0.60	603	0.79														
4190	1000	437	0.33	504	0.50	564	0.69	620	0.88	838	1.93												
4610	1100	467	0.40	530	0.59	587	0.79	640	0.99	836	2.00												
5030	1200	498	0.48	557	0.69	611	0.90	661	1.11	843	2.12												
5870	1400	561	0.68	614	0.91	663	1.16	709	1.40	875	2.48	1026	3.75	1186	5.44								
6700	1600	627	0.93	674	1.20	718	1.47	761	1.75	914	2.91	1051	4.21	1184	5.74	1325	7.67						
7540	1800	693	1.24	736	1.54	777	1.85	816	2.15	959	3.43	1088	4.82	1206	6.32	1324	8.05	1449	10.20				
8380	2000	761	1.63	800	1.96	838	2.30	874	2.63	1007	4.02	1128	5.49	1241	7.08	1346	8.77	1452	10.70	1564	12.90	1677	15.50
9220	2200	829	2.08	865	2.45	900	2.82	934	3.19	1059	4.70	1173	6.28	1280	7.95	1381	9.72	1476	11.60	1572	13.60	1672	16.00
10060	2400	898	2.63	932	3.04	964	3.43	995	3.83	1113	5.47	1222	7.17	1323	8.93	1419	10.80	1511	12.70	1598	14.70	1686	16.90
10890	2600	968	3.28	999	3.71	1029	4.14	1058	4.57	1169	6.33	1272	8.14	1369	10.00	1461	12.00	1549	14.00	1633	16.10	1714	18.30
11730	2800	1038	4.02	1066	4.47	1095	4.95	1122	5.41	1227	7.29	1325	9.22	1418	11.20	1506	13.30	1590	15.40	1671	17.50	1750	19.80
12570	3000	1108	4.87	1135	5.36	1161	5.86	1187	6.36	1287	8.38	1380	10.40	1468	12.50	1553	14.70	1634	16.90	1712	19.10	1788	21.50
13410	3200	1178	5.83	1203	6.35	1228	6.88	1253	7.42	1348	9.58	1437	11.70	1521	13.90	1602	16.20	1680	18.50	1756	20.90		
14250	3400	1248	6.91	1272	7.47	1296	8.04	1319	8.60	1409	10.90	1495	13.20	1576	15.50	1654	17.90	1729	20.30	1802	22.80		
15080	3600	1319	8.14	1342	8.74	1364	9.33	1386	9.92	1472	12.30	1554	14.80	1632	17.20	1707	19.70	1779	22.20				
15920	3800	1390	9.51	1411	10.10	1433	10.80	1454	11.40	1536	13.90	1614	16.50	1689	19.10	1762	21.70						

VENT-PAK 30 BI

Intake Area = 5.355 Sq. Ft. Wheel Diameter = 30"
Discharge Area = 5.17 Sq. Ft. Tip Speed FPM = 7.86 x RPM

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4140	800	342	0.27	411	0.45	473	0.65	533	0.89														
4650	900	367	0.33	431	0.53	489	0.74	543	0.98														
5170	1000	393	0.41	453	0.62	508	0.85	558	1.09	754	2.38												
5690	1100	420	0.49	476	0.72	528	0.97	576	1.23	752	2.46												
6200	1200	448	0.59	501	0.84	550	1.11	595	1.38	758	2.61												
7240	1400	505	0.84	552	1.12	596	1.42	638	1.73	787	3.05	923	4.63	1067	6.70								
8270	1600	564	1.15	606	1.47	646	1.81	684	2.15	823	3.60	946	5.20	1065	7.08	1192	9.45						
9310	1800	624	1.53	662	1.90	699	2.28	734	2.65	863	4.24	979	5.94	1085	7.79	1192	9.95	1304	12.50				
10340	2000	684	2.00	720	2.42	754	2.83	786	3.24	906	4.96	1015	6.78	1117	8.75	1212	10.80	1307	13.20	1408	16.00	1509	19.10
11370	2200	746	2.57	778	3.02	810	3.48	840	3.93	953	5.80	1056	7.76	1152	9.81	1242	12.00	1329	14.30	1415	16.80	1505	19.70
12410	2400	808	3.24	838	3.74	867	4.23	895	4.72	1002	6.76	1099	8.84	1190	11.00	1277	13.30	1359	15.70	1438	18.20	1517	20.90
13440	2600	871	4.04	898	4.56	926	5.11	952	5.64	1052	7.81	1145	10.10	1232	12.40	1314	14.70	1394	17.20	1470	19.90	1543	22.60
14480	2800	933	4.94	959	5.51	985	6.10	1010	6.68	1104	8.99	1192	11.40	1276	13.80	1355	16.40	1430	18.90	1504	21.60	1574	24.40
15510	3000	996	5.99	1021	6.61	1045	7.23	1068	7.84	1158	10.30	1242	12.90	1321	15.40	1397	18.10	1470	20.80	1540	23.60	1609	26.50
16540	3200	1060	7.20	1082	7.83	1105	8.49	1127	9.15	1212	11.80	1293	14.50	1369	17.20	1442	20.00	1512	22.90	1580	25.80		
17580	3400	1123	8.53	1145	9.23	1166	9.92	1187	10.60	1268	13.40	1345	16.30	1418	19.20	1488	22.10	1556	25.10	1621	28.10		
18610	3600	1186	10.00	1207	10.80	1227	11.50	1247	12.20	1324	15.20	1398	18.20	1468	21.20	1536	24.30	1601	27.40				
19650	3800	1250	11.70	1270	12.50	1289	13.30	1308	14.00	1382	17.20	1452	20.30	1520	23.50	1585	26.70						

Bold figures indicate maximum efficiency



VENT-PAK 33 BI

Intake Area = 6.49 Sq. Ft.

Wheel Diameter = 33"

Discharge Area = 6.26 Sq. Ft.

Tip Speed FPM = 8.65 x RPM

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5010	800	311	0.33	374	0.54	430	0.79	484	1.07														
5630	900	334	0.40	392	0.64	445	0.90	493	1.18														
6260	1000	357	0.49	412	0.75	462	1.03	508	1.33	686	2.89												
6890	1100	382	0.60	433	0.88	480	1.17	524	1.49	684	2.99												
7510	1200	407	0.72	455	1.02	500	1.34	541	1.67	690	3.17												
8760	1400	459	1.01	502	1.36	542	1.72	580	2.09	716	3.70	839	5.60	970	8.12								
10020	1600	513	1.39	551	1.78	588	2.20	622	2.60	748	4.35	860	6.30	968	8.56	1084	11.50						
11270	1800	567	1.85	602	2.30	636	2.76	668	3.22	785	5.14	890	7.19	987	9.45	1083	12.00	1186	15.20				
12520	2000	623	2.43	655	2.93	685	3.42	715	3.93	824	6.01	923	8.21	1015	10.60	1102	13.10	1188	15.90	1280	19.30	1372	23.10
13770	2200	679	3.12	708	3.66	737	4.22	764	4.77	867	7.04	960	9.39	1047	11.90	1130	15.00	1208	17.30	1286	20.40	1368	23.90
15020	2400	735	3.93	762	4.52	789	5.14	814	5.72	911	8.18	1000	10.70	1082	13.30	1161	16.10	1236	19.00	1308	22.00	1379	25.30
16280	2600	792	4.89	817	5.53	842	6.19	866	6.84	957	9.47	1041	12.20	1120	15.00	1195	17.80	1267	20.90	1336	24.00	1403	27.30
17530	2800	849	6.00	873	6.70	896	7.40	918	8.08	1004	10.90	1084	13.80	1160	16.80	1232	19.80	1301	22.90	1367	26.20	1432	29.60
18780	3000	906	7.26	928	8.00	950	8.75	972	9.52	1053	12.50	1129	15.60	1202	18.70	1271	21.90	1337	25.20	1401	28.60	1463	32.10
20030	3200	964	8.72	985	9.51	1005	10.30	1025	11.10	1103	14.30	1176	17.60	1245	20.90	1311	24.20	1375	27.70	1436	31.20		
21280	3400	1022	10.40	1041	11.20	1061	12.00	1080	12.90	1153	16.30	1223	19.70	1289	23.20	1353	26.70	1415	30.40	1474	34.10		
22540	3600	1079	12.20	1098	13.10	1116	13.90	1134	14.80	1205	18.50	1271	22.00	1335	25.70	1397	29.50	1456	33.20				
23790	3800	1137	14.20	1155	15.10	1172	16.10	1190	17.00	1257	20.80	1321	24.60	1382	28.50	1441	32.40						

VENT-PAK 36 BI

Intake Area = 7.98 Sq. Ft.

Wheel Diameter = 36.5"

Discharge Area = 7.66 Sq. Ft.

Tip Speed FPM = 9.56 x RPM

CFM	OV	0.25 SP		0.50 SP		0.75 SP		1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		7.00 SP		8.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6130	800	271	0.38	326	0.65	379	0.95	430	1.27														
6890	900	291	0.47	342	0.76	389	1.07	435	1.41														
7660	1000	312	0.57	359	0.89	403	1.23	445	1.58														
8430	1100	335	0.70	377	1.03	418	1.39	457	1.77	607	3.51												
9190	1200	357	0.84	397	1.20	435	1.58	472	1.99	610	3.77												
10720	1400	404	1.19	439	1.60	472	2.03	504	2.46	628	4.44	744	6.63										
12260	1600	453	1.65	483	2.09	513	2.57	542	3.07	653	5.20	758	7.57	859	10.10								
13790	1800	502	2.21	529	2.70	556	3.23	582	3.77	683	6.08	779	8.62	871	11.30	961	14.30						
15320	2000	552	2.91	577	3.46	601	4.02	625	4.61	717	7.09	805	9.79	890	12.70	972	15.70	1053	18.90	1137	22.60		
16850	2200	603	3.76	625	4.34	647	4.94	669	5.58	754	8.26	836	11.10	915	14.20	992	17.40	1066	20.80	1139	24.20	1215	28.10
18380	2400	654	4.76	674	5.38	695	6.06	715	6.73	793	9.58	869	12.60	943	15.90	1015	19.30	1085	22.80	1153	26.40	1221	30.20
19920	2600	705	5.94	724	6.62	743	7.32	761	8.02	835	11.10	906	14.30	975	17.70	1042	21.30	1108	25.00	1173	28.80	1236	32.70
21450	2800	756	7.29	774	8.03	792	8.79	809	9.54	877	12.80	944	16.20	1009	19.80	1073	23.50	1135	27.40	1196	31.40	1256	35.50
22980	3000	808	8.86	824	9.62	841	10.40	857	11.20	921	14.60	984	18.30	1045	22.00	1106	25.90	1165	30.00	1222	34.10	1279	38.40
24510	3200	859	10.60	875	11.50	890	12.30	906	13.20	966	16.70	1025	20.50	1083	24.50	1140	28.50	1197	32.80	1252	37.10		
26040	3400	911	12.60	926	13.50	941	14.40	955	15.30	1012	19.10	1068	23.10	1123	27.20	1177	31.40	1231	35.90	1283	40.30		
27580	3600	963	14.90	977	15.80	991	16.80	1005	17.70	1059	21.70	1112	25.80	1164	30.10	1216	34.60	1266	39.10				
29110	3800	1015	17.40	1028	18.40	1041	19.30	1054	20.30	1106	24.50	1157	28.90	1206	33.30	1255	38.00						

Bold figures indicate maximum efficiency.

Performance shown is for installation type B & D: free or ducted inlet, ducted outlet.

Power rating (bhp) does not include belt drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

Class II fans found in shaded areas.



Soler & Palau USA, Div. of Soler & Palau Ventilation Group, certifies that the VENT-PAK Backward Inclined Utility Sets shown on pages 5 through 8 are licensed to bear the AMCA Seal for Sound and Air. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



VENT-PAK 12 FC

Intake Area = 0.920 Sq. Ft. Wheel Diameter = 12.25"
Discharge Area = 0.86 Sq. Ft. Tip Speed FPM = 0.321 x RPM

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		3.50 SP		4.00 SP		5.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
690	800	435	0.05																				
770	900	447	0.06																				
860	1000	461	0.08																				
950	1100	476	0.09	612	0.15																		
1030	1200	492	0.11	623	0.17																		
1200	1400	530	0.15	649	0.21	755	0.28																
1380	1600	572	0.21	680	0.28	780	0.35	871	0.43														
1550	1800	620	0.28	714	0.35	808	0.43	894	0.52	1050	0.70												
1720	2000	673	0.37	753	0.44	839	0.53	921	0.62	1071	0.81												
1890	2200	728	0.47	795	0.55	874	0.64	952	0.74	1095	0.95	1224	1.16										
2060	2400	784	0.60	840	0.67	913	0.78	984	0.88	1121	1.10	1247	1.33	1363	1.57								
2240	2600	842	0.76	891	0.83	953	0.93	1020	1.04	1151	1.27	1271	1.51	1384	1.77	1490	2.03						
2410	2800	900	0.94	944	1.01	997	1.10	1059	1.22	1182	1.46	1299	1.72	1408	1.99	1511	2.26	1609	2.55				
2580	3000	958	1.14	998	1.21	1044	1.30	1100	1.42	1216	1.69	1328	1.95	1434	2.23	1534	2.52	1629	2.82	1720	3.12		
2750	3200	1017	1.37	1054	1.45	1095	1.54	1143	1.65	1252	1.93	1360	2.21	1462	2.50	1559	2.80	1653	3.12	1741	3.43	1911	4.09
2920	3400	1076	1.63	1111	1.72	1148	1.81	1190	1.91	1292	2.20	1393	2.50	1492	2.80	1586	3.11	1677	3.44	1764	3.77	1928	4.45
3100	3600	1136	1.93	1168	2.02	1202	2.11	1240	2.21	1332	2.50	1428	2.81	1524	3.13	1616	3.46	1703	3.79	1788	4.13	1949	4.84
3270	3800	1196	2.27	1226	2.35	1258	2.45	1292	2.55	1374	2.83	1466	3.15	1557	3.49	1647	3.83	1732	4.17	1814	4.53	1972	5.27

VENT-PAK 13 FC

Intake Area = 1.120 Sq. Ft. Wheel Diameter = 13.5"
Discharge Area = 1.05 Sq. Ft. Tip Speed FPM = 3.53 x RPM

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		3.50 SP		4.00 SP		5.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
840	800	395	0.07																				
950	900	406	0.08																				
1050	1000	419	0.10	548	0.16																		
1160	1100	433	0.11	556	0.18																		
1260	1200	448	0.14	566	0.20																		
1470	1400	482	0.19	590	0.26	686	0.35																
1680	1600	520	0.25	618	0.34	708	0.43	791	0.53														
1890	1800	565	0.34	650	0.43	734	0.53	812	0.63	954	0.85												
2100	2000	613	0.45	685	0.54	763	0.65	837	0.76	973	1.00	1096	1.25										
2310	2200	663	0.58	723	0.67	795	0.79	865	0.91	995	1.16	1112	1.42										
2520	2400	715	0.74	765	0.83	830	0.95	895	1.08	1019	1.35	1133	1.63	1238	1.92								
2730	2600	767	0.93	811	1.02	867	1.14	928	1.28	1046	1.56	1155	1.85	1258	2.17	1353	2.48						
2940	2800	820	1.15	860	1.24	907	1.35	964	1.50	1075	1.80	1180	2.11	1279	2.44	1373	2.78	1461	3.12				
3150	3000	874	1.41	910	1.49	951	1.60	1001	1.75	1106	2.07	1208	2.40	1303	2.74	1394	3.09	1480	3.45	1562	3.82		
3360	3200	927	1.69	961	1.79	998	1.90	1041	2.03	1139	2.37	1236	2.71	1329	3.07	1417	3.44	1501	3.82	1582	4.21	1735	5.00
3570	3400	982	2.02	1013	2.12	1046	2.22	1084	2.36	1175	2.70	1267	3.07	1357	3.44	1442	3.82	1524	4.22	1603	4.62	1751	5.44
3780	3600	1036	2.38	1065	2.49	1096	2.60	1129	2.72	1212	3.07	1299	3.45	1386	3.84	1469	4.24	1548	4.65	1625	5.07	1770	5.92
3990	3800	1090	2.79	1118	2.90	1146	3.01	1177	3.14	1251	3.48	1334	3.88	1416	4.28	1497	4.69	1574	5.11	1649	5.55	1792	6.46

VENT-PAK 15 FC

Intake Area = 1.390 Sq. Ft. Wheel Diameter = 15"
Discharge Area = 1.29 Sq. Ft. Tip Speed FPM = 3.93 x RPM

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		3.50 SP		4.00 SP		5.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1030	800	355	0.08																				
1160	900	365	0.10																				
1290	1000	376	0.12																				
1420	1100	389	0.14	500	0.22																		
1550	1200	402	0.17	509	0.25																		
1810	1400	433	0.23	530	0.32	617	0.42																
2060	1600	467	0.31	555	0.41	637	0.53	711	0.64														
2320	1800	506	0.41	583	0.53	660	0.65	730	0.77	858	1.05												
2580	2000	550	0.55	615	0.66	686	0.79	752	0.93	874	1.22												
2840	2200	595	0.71	649	0.82	714	0.97	777	1.11	894	1.42	1000	1.75										
3100	2400	641	0.91	687	1.01	745	1.16	804	1.32	916	1.65	1018	1.99	1113	2.35								
3350	2600	688	1.14	728	1.24	779	1.39	833	1.56	940	1.91	1038	2.27	1131	2.66	1217	3.04						
3610	2800	735	1.40	771	1.51	814	1.65	865	1.83	966	2.20	1061	2.59	1150	2.99	1234	3.40	1314	3.82				
3870	3000	783	1.71	816	1.82	853	1.96	899	2.14	993	2.53	1085	2.93	1171	3.35	1253	3.79	1331	4.23	1405	4.68		
4130	3200	831	2.06	861	2.17	894	2.31	934	2.48	1023	2.90	1111	3.32	1194	3.75	1274	4.22	1350	4.68	1422	5.15	1561	6.14
4390	3400	879	2.45	907	2.57	938	2.71	972	2.87	1055	3.30	1138	3.75	1219	4.20	1296	4.68	1370	5.17	1441	5.66	1575	6.68
4640	3600	928	2.90	954	3.02	982	3.16	1013	3.32	1088	3.75	1167	4.22	1245	4.70	1320	5.19	1391	5.68	1461	6.21	1592	7.27
4900	3800	977	3.40	1001	3.52	1027	3.66	1055	3.82	1122	4.24	1198	4.74	1272	5.23	1345	5.74	1415	6.27	1482	6.80	1611	7.91

Bold figures indicate maximum efficiency.
Performance shown is for installation type B & D: free or ducted inlet, ducted outlet.
Power rating (bhp) does not include belt drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

Class II fans found in shaded areas.



Soler & Palau USA, Div. of Soler & Palau Ventilation Group, certifies that the VENT-PAK Forward Curved Utility Sets shown on pages 9 through 12 are licensed to bear the AMCA Seal for Air. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



MODEL VP-BI/FC
BELT DRIVEN UTILITY VENT SET



VENT-PAK 16 FC

Intake Area = 1.670 Sq. Ft. Wheel Diameter = 16.5"
Discharge Area = 1.57 Sq. Ft. Tip Speed FPM = 4.32 x RPM

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		3.50 SP		4.00 SP		5.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1260	800	324	0.10																				
1410	900	332	0.12																				
1570	1000	343	0.14	448	0.23																		
1730	1100	354	0.17	455	0.27																		
1880	1200	366	0.20	464	0.31																		
2200	1400	395	0.28	483	0.39	562	0.52																
2510	1600	426	0.38	506	0.51	580	0.64	647	0.79														
2830	1800	462	0.51	532	0.65	601	0.79	665	0.95	780	1.27												
3140	2000	502	0.67	561	0.81	625	0.97	685	1.14	796	1.49	897	1.86										
3450	2200	543	0.87	592	1.01	651	1.18	708	1.36	814	1.74	910	2.13										
3770	2400	585	1.11	627	1.24	680	1.43	733	1.62	834	2.01	927	2.44	1013	2.87								
4080	2600	628	1.39	664	1.52	710	1.70	760	1.91	856	2.33	946	2.78	1029	3.24	1107	3.71						
4400	2800	672	1.73	704	1.85	743	2.03	789	2.25	880	2.69	966	3.16	1047	3.65	1123	4.15	1196	4.67				
4710	3000	715	2.10	745	2.24	779	2.41	820	2.62	905	3.09	988	3.58	1066	4.09	1141	4.63	1211	5.16	1279	5.72		
5020	3200	760	2.54	787	2.68	817	2.84	852	3.04	933	3.55	1012	4.06	1088	4.60	1160	5.15	1229	5.72	1294	6.28	1420	7.48
5340	3400	804	3.02	829	3.17	857	3.34	887	3.52	962	4.05	1037	4.59	1110	5.14	1180	5.71	1247	6.31	1312	6.92	1433	8.14
5650	3600	848	3.57	872	3.72	897	3.89	925	4.08	992	4.59	1063	5.16	1134	5.74	1202	6.34	1267	6.95	1330	7.59	1449	8.87
5970	3800	893	4.18	915	4.34	939	4.52	964	4.70	1024	5.20	1092	5.80	1159	6.41	1225	7.02	1288	7.65	1349	8.30	1466	9.65

VENT-PAK 18 FC

Intake Area = 2.025 Sq. Ft. Wheel Diameter = 18.25"
Discharge Area = 1.92 Sq. Ft. Tip Speed FPM = 4.78 x RPM

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		3.50 SP		4.00 SP		5.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1540	800	293	0.11																				
1730	900	302	0.13	402	0.23																		
1920	1000	313	0.16	406	0.26																		
2110	1100	325	0.19	413	0.30	492	0.42																
2300	1200	339	0.23	421	0.34	496	0.46																
2690	1400	368	0.33	441	0.44	509	0.58	574	0.73														
3070	1600	399	0.46	466	0.58	528	0.72	587	0.88	697	1.22												
3460	1800	432	0.62	494	0.76	550	0.90	605	1.06	708	1.43	804	1.82										
3840	2000	466	0.81	524	0.97	576	1.12	626	1.28	722	1.66	812	2.08	898	2.52								
4220	2200	501	1.04	555	1.22	604	1.38	651	1.56	740	1.93	825	2.37	906	2.84	984	3.33						
4610	2400	536	1.31	587	1.51	634	1.69	677	1.87	761	2.26	842	2.71	918	3.20	992	3.72	1064	4.25				
4990	2600	572	1.63	620	1.84	665	2.05	706	2.24	785	2.65	861	3.10	934	3.61	1004	4.15	1072	4.74	1138	5.27		
5380	2800	609	2.01	654	2.23	696	2.45	736	2.67	811	3.10	883	3.56	952	4.06	1019	4.62	1084	5.21	1147	5.81		
5760	3000	646	2.43	689	2.68	729	2.91	767	3.15	838	3.60	906	4.07	972	4.58	1036	5.14	1099	5.76	1159	6.38	1276	7.67
6140	3200	683	2.91	724	3.18	762	3.43	799	3.69	867	4.17	932	4.67	995	5.19	1056	5.75	1116	6.36	1174	7.00	1287	8.37
6530	3400	721	3.46	760	3.75	796	4.01	831	4.28	897	4.80	959	5.32	1019	5.86	1078	6.44	1135	7.04	1191	7.69	1299	9.09
6910	3600	759	4.08	796	4.38	831	4.67	864	4.94	928	5.51	987	6.04	1045	6.61	1101	7.19	1156	7.81	1210	8.46	1314	9.87
7300	3800	797	4.76	832	5.07	866	5.39	898	5.68	959	6.27	1017	6.85	1072	7.43	1126	8.03	1179	8.66	1230	9.30	1331	10.70

VENT-PAK 20 FC

Intake Area = 2.440 Sq. Ft. Wheel Diameter = 20"
Discharge Area = 2.30 Sq. Ft. Tip Speed FPM = 5.23 x RPM

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		3.50 SP		4.00 SP		5.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1840	800	268	0.13																				
2070	900	276	0.16	367	0.27																		
2300	1000	286	0.19	371	0.31																		
2530	1100	297	0.23	376	0.35	449	0.50																
2760	1200	309	0.28	384	0.41	453	0.56																
3220	1400	335	0.40	402	0.53	465	0.69	523	0.87														
3680	1600	364	0.55	425	0.70	481	0.86	535	1.05	636	1.46												
4140	1800	394	0.74	450	0.90	502	1.08	551	1.26	645	1.70	733	2.18										
4600	2000	424	0.96	477	1.15	525	1.34	571	1.53	659	1.99	741	2.49	819	3.02								
5060	2200	456	1.24	505	1.45	550	1.65	593	1.86	675	2.31	753	2.85	827	3.41	898	3.99						
5520	2400	488	1.57	535	1.80	577	2.01	617	2.23	694	2.71	767	3.23	838	3.84	905	4.45	970	5.08				
5980	2600	521	1.95	565	2.20	606	2.45	643	2.67	716	3.17	785	3.71	852	4.32	916	4.97	978	5.64	1038	6.31		
6440	2800	554	2.39	596	2.67	634	2.92	671	3.19	739	3.70	805	4.26	868	4.86	929	5.52	989	6.24	1047	6.96		
6900	3000	588	2.90	627	3.19	664	3.48	699	3.76	764	4.30	826	4.87	886	5.48	945	6.15	1002	6.88	1057	7.63	1164	9.18
7360	3200	622	3.48	659	3.79	694	4.09	728	4.40	790	4.97	849	5.56	907	6.20	963	6.87	1017	7.59	1071	8.39	1174	10.00
7820	3400	656	4.12	692	4.47	725	4.79	757	5.11	817	5.72	874	6.35	929	7.00	982	7.67	1035	8.42	1086	9.19	1185	10.90
8280	3600	691	4.86	724	5.21	757	5.57	787	5.90	845	6.56	900	7.23	952	7.88	1004	8.60	1054	9.33	1103	10.10	1199	11.80
8740	3800	725	5.66	758	6.06	788	6.41	818	6.78	874	7.49	926	8.16	977	8.87	1026	9.59	1074	10.30	1122	11.10	1214	12.80

Bold figures indicate maximum efficiency.

Performance shown is for installation type B & D: free or ducted inlet, ducted outlet.
Power rating (bhp) does not include belt drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

Class II fans found in shaded areas.



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VENT-PAK 22 FC

Intake Area = 3.020 Sq. Ft. Wheel Diameter = 22.25"
Discharge Area = 2.85 Sq. Ft. Tip Speed FPM = 5.83 x RPM

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		3.50 SP		4.00 SP		5.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2280	800	241	0.16																				
2570	900	248	0.20	329	0.34																		
2850	1000	257	0.24	333	0.39																		
3140	1100	267	0.29	338	0.44	403	0.62																
3420	1200	278	0.35	345	0.50	407	0.69																
3990	1400	302	0.50	362	0.66	418	0.86	470	1.07														
4560	1600	327	0.68	382	0.86	433	1.07	481	1.30	572	1.81												
5130	1800	354	0.91	405	1.12	451	1.33	496	1.57	580	2.11	659	2.70										
5700	2000	382	1.20	429	1.43	472	1.66	513	1.90	592	2.46	666	3.09	736	3.73								
6270	2200	410	1.54	455	1.80	495	2.05	533	2.30	607	2.87	677	3.53	743	4.22	807	4.94						
6840	2400	439	1.94	481	2.23	519	2.50	555	2.77	624	3.35	690	4.02	753	4.76	814	5.53	872	6.30				
7410	2600	469	2.43	508	2.73	545	3.04	579	3.33	644	3.94	706	4.60	766	5.35	823	6.15	879	6.98	934	7.84		
7980	2800	499	2.98	536	3.31	571	3.64	603	3.95	665	4.60	724	5.28	780	6.01	835	6.84	889	7.73	941	8.62		
8550	3000	529	3.60	564	3.96	597	4.31	629	4.67	687	5.33	743	6.05	797	6.80	850	7.64	901	8.53	951	9.48	1047	11.40
9120	3200	560	4.33	593	4.71	625	5.09	655	5.47	711	6.19	764	6.92	815	7.68	866	8.53	915	9.43	963	10.40	1055	12.40
9690	3400	591	5.14	622	5.53	652	5.94	681	6.34	735	7.11	786	7.88	835	8.68	883	9.52	930	10.40	976	11.40	1065	13.50
10260	3600	622	6.05	652	6.48	681	6.92	708	7.32	760	8.14	809	8.95	856	9.78	903	10.70	948	11.60	992	12.50	1078	14.70
10830	3800	653	7.05	682	7.52	709	7.96	736	8.42	786	9.29	833	10.10	878	11.00	923	11.90	966	12.80	1091	13.80	1009	15.90

VENT-PAK 24 FC

Intake Area = 3.640 Sq. Ft. Wheel Diameter = 24.5"
Discharge Area = 3.45 Sq. Ft. Tip Speed FPM = 6.41 x RPM

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		3.50 SP		4.00 SP		5.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2760	800	218	0.20																				
3110	900	225	0.24	299	0.41																		
3450	1000	233	0.29	302	0.47																		
3800	1100	242	0.35	307	0.53	366	0.75																
4140	1200	252	0.42	313	0.61	369	0.83																
4830	1400	274	0.60	328	0.79	379	1.03	427	1.30														
5520	1600	297	0.82	347	1.05	393	1.29	437	1.57	519	2.19												
6210	1800	321	1.10	367	1.35	410	1.62	450	1.89	527	2.56	598	3.26										
6900	2000	346	1.45	389	1.72	428	2.00	466	2.30	538	2.98	605	3.74	669	4.53								
7590	2200	372	1.86	413	2.18	449	2.47	484	2.78	551	3.47	614	4.26	675	5.11	733	5.99						
8280	2400	399	2.36	436	2.69	471	3.02	504	3.36	567	4.07	626	4.85	684	5.76	739	6.69	792	7.63				
8970	2600	425	2.92	461	3.30	494	3.66	525	4.01	584	4.75	641	5.57	695	6.46	748	7.46	798	8.44	848	9.49		
9660	2800	452	3.58	486	3.99	518	4.40	547	4.76	603	5.54	657	6.38	708	7.27	758	8.27	807	9.35	854	10.40		
10350	3000	480	4.35	512	4.79	542	5.22	570	5.62	623	6.43	674	7.30	724	8.24	771	9.21	818	10.30	863	11.50	951	13.80
11040	3200	508	5.23	538	5.69	567	6.15	594	6.59	645	7.47	693	8.35	740	9.29	786	10.30	830	11.40	874	12.60	958	15.00
11730	3400	536	6.20	564	6.68	592	7.19	618	7.66	667	8.59	713	9.51	758	10.50	802	11.50	845	12.60	886	13.80	967	16.30
12420	3600	564	7.29	591	7.81	617	8.32	642	8.83	690	9.85	734	10.80	777	11.80	819	12.90	860	14.00	900	15.10	978	17.70
13110	3800	592	8.50	618	9.06	643	9.60	667	10.10	713	11.2	756	12.20	797	13.30	838	14.40	877	15.50	916	16.70	991	19.30

VENT-PAK 27 FC

Intake Area = 4.350 Sq. Ft. Wheel Diameter = 27"
Discharge Area = 4.19 Sq. Ft. Tip Speed FPM = 7.075 x RPM

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		3.50 SP		4.00 SP		5.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3350	800	191	0.23																				
3770	900	196	0.27																				
4190	1000	203	0.33	265	0.54																		
4610	1100	211	0.40	269	0.62																		
5030	1200	219	0.47	273	0.70	324	0.96																
5870	1400	237	0.66	286	0.91	331	1.19	375	1.51														
6700	1600	257	0.90	301	1.18	342	1.48	382	1.81														
7540	1800	278	1.20	318	1.50	356	1.83	392	2.17	462	2.96												
8380	2000	301	1.59	337	1.91	373	2.27	406	2.63	470	3.44	531	4.32										
9220	2200	324	2.04	357	2.38	390	2.77	421	3.16	480	3.98	538	4.93	593	5.92								
10060	2400	347	2.57	378	2.95	408	3.34	438	3.78	493	4.64	547	5.61	599	6.65	649	7.73						
10890	2600	371	3.21	400	3.61	427	4.00	455	4.46	508	5.40	558	6.38	607	7.45	655	8.60	701	9.77				
11730	2800	395	3.94	422	4.36	448	4.80	474	5.27	525	6.30	572	7.31	617	8.35	663	9.56	707	10.80	750	12.00		
12570	3000	419	4.77	445	5.24	469	5.68	493	6.16	541	7.22	587	8.33	630	9.43	673	10.60	715	11.90	756	13.20	834	15.90
13410	3200	444	5.74	468	6.21	491	6.69	514	7.21	559	8.30	603	9.47	644	10.60	684	11.80	724	13.10	764	14.50	841	17.40
14250	3400	469	6.83	492	7.34	514	7.86	535	8.36	577	9.46	620	10.70	660	12.00	698	13.20	736	14.50	773	15.80	847	18.80
15080	3600	494	8.04	515	8.54	536	9.09	557	9.67	596	10.80	637	12.10	676	13.40	713	14.70	749	16.00	784	17.40	855	20.40
15920	3800	519	9.39	539	9.92	559	10.50	579	11.10	617	12.30	655	13.60	693	15.00	729	16.40	763	17.70	797	19.10	864	22.10

Class II fans found in shaded areas.

Bold figures indicate maximum efficiency.

Performance shown is for installation type B & D: free or ducted inlet, ducted outlet. Power rating (bhp) does not include belt drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.



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VENT-PAK 30 FC

Intake Area = 5.355 Sq. Ft. Wheel Diameter = 30"
Discharge Area = 5.17 Sq. Ft. Tip Speed FPM = 7.86 x RPM

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		3.50 SP		4.00 SP		5.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4140	800		172	0.28																			
4650	900		176	0.33																			
5170	1000	183	0.41	239	0.67																		
5690	1100	190	0.49	242	0.76																		
6200	1200	197	0.58	246	0.86	292	1.19																
7240	1400	213	0.81	257	1.12	298	1.47	337	1.85														
8270	1600	231	1.11	271	1.46	308	1.82	344	2.24														
9310	1800	250	1.48	286	1.85	321	2.27	353	2.69	416	3.65												
10340	2000	271	1.96	303	2.34	335	2.79	365	3.24	423	4.24	478	5.33										
11370	2200	291	2.51	321	2.93	351	3.42	379	3.90	432	4.91	484	6.07	533	7.27								
12410	2400	312	3.17	340	3.63	367	4.12	394	4.66	444	5.74	492	6.91	539	8.20	584	9.53						
13440	2600	334	3.97	359	4.42	384	4.93	410	5.53	457	6.66	502	7.87	546	9.18	589	10.60	631	12.10				
14480	2800	355	4.84	380	5.39	403	5.91	426	6.48	472	7.75	514	8.98	556	10.30	596	11.80	636	13.30	675	14.90		
15510	3000	377	5.88	400	6.44	422	7.01	444	8.92	487	8.92	528	10.30	567	11.60	605	13.10	643	14.60	681	16.30	751	19.60
16540	3200	399	7.05	421	7.66	442	8.27	462	8.87	503	10.20	543	11.70	580	13.10	616	14.60	652	16.20	687	17.80	757	21.40
17580	3400	422	8.42	442	9.01	462	9.66	481	10.30	519	11.70	557	13.20	594	14.80	628	16.30	662	17.90	696	19.60	762	23.20
18610	3600	444	9.89	464	10.60	483	11.30	501	11.90	537	13.30	573	14.90	608	16.50	642	18.20	674	19.80	706	21.50	769	25.10
19650	3800	467	11.60	485	12.20	503	12.90	521	13.70	555	15.10	589	16.70	623	18.40	656	20.20	687	21.90	717	23.60	778	27.30

VENT-PAK 33 FC

Intake Area = 6.49 Sq. Ft. Wheel Diameter = 33"
Discharge Area = 6.26 Sq. Ft. Tip Speed FPM = 8.65 x RPM

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		3.50 SP		4.00 SP		5.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5010	800		156	0.34																			
5630	900		160	0.40																			
6260	1000	166	0.49	217	0.80																		
6890	1100	172	0.59	220	0.92																		
7510	1200	179	0.70	224	1.05	265	1.43																
8760	1400	194	0.99	234	1.36	271	1.78	307	2.25														
10020	1600	210	1.34	247	1.78	280	2.21	312	2.69														
11270	1800	228	1.81	261	2.27	292	2.76	321	3.25	378	4.42												
12520	2000	246	2.36	276	2.86	305	3.39	332	3.93	384	5.11	434	6.43										
13770	2200	265	3.05	292	3.56	319	4.13	345	4.74	393	5.96	440	7.35	485	8.83								
15020	2400	284	3.85	309	4.39	334	5.00	358	5.63	404	6.97	447	8.35	490	9.93	531	11.50						
16280	2600	304	4.82	327	5.38	350	6.01	372	6.65	416	8.10	457	9.56	497	11.20	536	12.90	574	14.60				
17530	2800	323	5.88	345	6.50	366	7.14	387	7.83	429	9.37	468	10.90	505	12.50	542	14.20	579	16.20	614	18.00		
18780	3000	343	7.13	364	7.81	384	8.50	403	9.18	443	10.80	480	12.40	515	14.10	550	15.80	585	17.60	619	19.80	683	23.80
20030	3200	363	8.55	383	9.29	402	10.00	420	10.70	457	12.40	493	14.10	527	15.90	560	17.70	593	19.80	625	21.60	688	25.90
21280	3400	384	10.20	402	10.90	420	11.70	438	12.50	472	14.10	507	16.00	540	17.90	571	19.70	602	21.60	633	23.70	693	28.10
22540	3600	404	12.00	422	12.80	439	13.60	455	14.40	488	16.10	521	18.00	553	20.00	583	21.90	613	24.00	642	26.00	700	30.60
23790	3800	425	14.10	441	14.80	458	15.70	474	16.60	505	18.40	536	20.30	567	22.40	596	24.40	625	26.50	652	28.50	707	33.10

VENT-PAK 36 FC

Intake Area = 7.98 Sq. Ft. Wheel Diameter = 36.5"
Discharge Area = 7.66 Sq. Ft. Tip Speed FPM = 9.56 x RPM

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		3.50 SP		4.00 SP		5.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6130	800		141	0.41																			
6890	900		145	0.50																			
7660	1000	150	0.60	196	0.98																		
8430	1100	156	0.73	199	1.13																		
9190	1200	162	0.86	202	1.28	240	1.76																
10720	1400	175	1.20	211	1.66	245	2.18	277	2.74														
12260	1600	190	1.65	223	2.16	253	2.70	283	3.33														
13790	1800	206	2.21	236	2.78	264	3.37	290	3.97	342	5.42												
15320	2000	223	2.92	249	3.47	276	4.16	300	4.80	347	6.25	393	7.91										
16850	2200	240	3.75	264	4.35	288	5.04	312	5.81	355	7.28	398	9.01	438	10.80								
18380	2400	257	4.72	279	5.35	302	6.12	324	6.91	365	8.51	404	10.20	443	12.10	480	14.10						
19920	2600	275	5.90	296	6.61	316	7.33	337	8.19	376	9.90	413	11.70	449	13.60	484	15.70	519	17.90				
21450	2800	292	7.19	312	7.96	331	8.74	350	9.58	388	11.50	423	13.30	457	15.30	490	17.40	523	19.70	555	22.10		
22980	3000	310	8.72	329	9.55	347	10.40	365	11.30	400	13.20	434	15.20	466	17.20	498	19.50	529	21.80	559	24.10	617	29.00
24510	3200	329	10.50	346	11.30	363	12.20	380	13.20	413	15.10	446	17.30	477	19.50	506	21.60	536	24.00	565	26.50	622	31.70
26040	3400	347	12.50	364	13.40	380	14.30	396	15.30	427	17.30	458	19.50	488	21.80	516	24.10	544	26.40	572	29.00	627	34.50
27580	3600	365	14.60	381	15.60	397	16.70	412	17.70	441	19.70	471	22.10	500	24.50	527	26.80	554	29.30	580	31.80	632	37.20
29110	3800	384	17.20	399	18.20	414	19.20	428	20.20	456	22.40	484	24.70	512	27.30	539	29.90	565	32.50	590	35.00	639	40.40

Class II fans found in shaded areas.

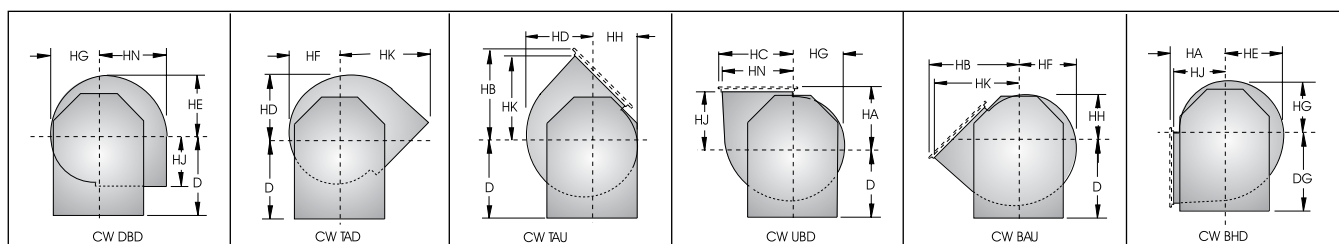
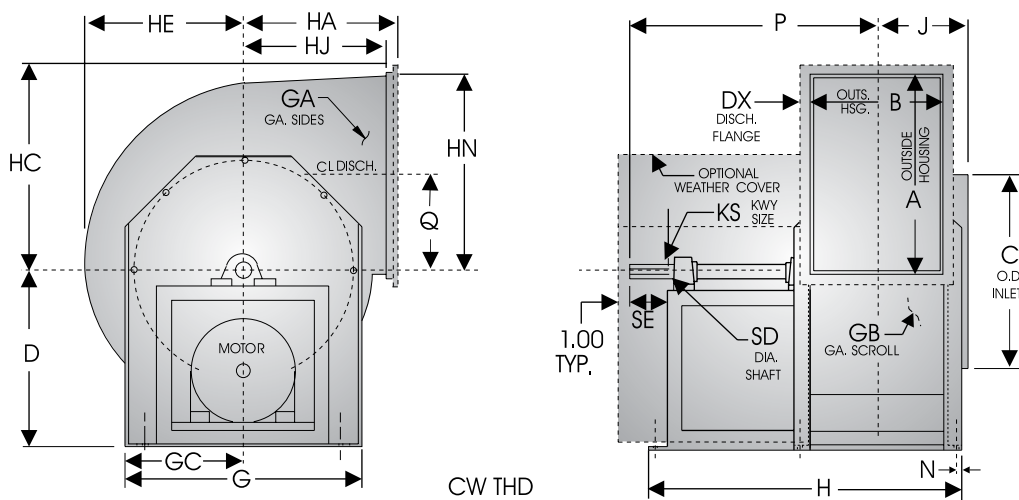
Bold figures indicate maximum efficiency.
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Power rating (bhp) does not include belt drive losses.
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DIMENSIONS

Class I



Notes:

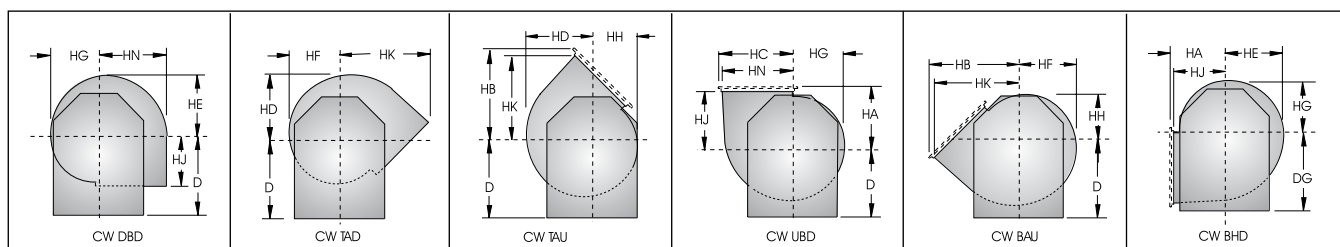
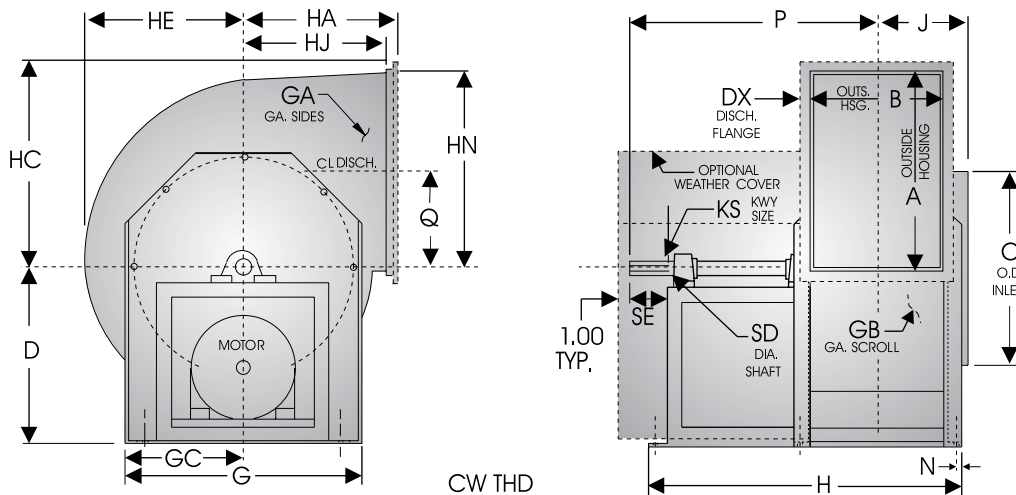
1. Flanged outlet is optional on sizes 12-20. Flanged outlet is standard on sizes 22-36 (except on TAD & DBD).
2. "CW" rotation is shown. "CCW" rotation is similar but opposite.
- *3. Shaft diameter is increased to 1.187 on Hi-Temp fans which require shaft coolers.
4. Unit rotatable to all positions (except BHD on sizes 30, 33 & 36 with "D" centerline height.)

Size	A	B	C	D	DG	DX	G	GA	GB	GC	H	HA	HB	HC	HD	HE
12	13.00	9.75	13.25	14.50	14.50	1.00	16.00	14.00	14.00	8.00	24.50	9.75	16.75	13.94	11.19	10.56
13	14.31	10.81	14.56	15.75	15.75	1.00	17.50	14.00	14.00	8.75	25.63	10.75	18.38	15.25	12.31	11.63
15	15.88	11.94	16.19	17.75	17.75	1.00	19.00	14.00	14.00	9.50	28.75	11.94	20.31	16.81	13.75	12.88
16	17.44	13.19	17.75	19.00	19.00	1.00	20.50	14.00	14.00	10.25	30.13	13.13	22.25	18.38	15.06	14.13
18	19.38	14.56	19.50	21.00	21.00	1.25	22.50	12.00	14.00	11.25	34.38	14.50	24.81	20.56	16.69	15.69
20	21.19	15.94	21.38	22.75	22.75	1.25	25.00	12.00	14.00	12.50	35.75	15.81	27.00	22.38	18.38	17.31
22	23.56	17.69	23.75	25.50	25.50	1.25	27.25	12.00	14.00	13.63	40.75	17.69	30.00	24.75	20.44	19.06
24	25.94	19.44	26.06	28.00	28.00	1.25	29.75	12.00	14.00	14.88	43.50	19.50	33.00	27.13	22.38	21.00
27	28.63	21.38	28.50	30.50	30.50	1.50	33.00	12.00	14.00	16.50	47.38	21.44	36.44	30.06	24.69	23.19
30	31.81	23.81	31.63	27.50	34.25	1.50	36.13	10.00	12.00	18.06	52.88	23.81	40.31	33.25	27.44	25.75
33	35.13	26.06	34.75	30.00	37.25	1.50	38.88	10.00	12.00	19.44	56.13	26.25	44.44	36.56	30.13	28.38
36	38.75	28.88	38.50	33.50	41.00	1.50	43.75	10.00	12.00	21.88	64.56	29.00	48.88	40.13	33.50	31.50

Size	HF	HG	HH	HJ	HK	HN	J	KS	L	N	P	Q	SD	SE
12	9.94	9.31	8.69	9.25	15.69	12.94	7.44	.25 x .13	12.00	0.50	19.75	6.44	1.000	2.75
13	10.94	10.25	9.56	10.25	17.31	14.25	8.00	.25 x .13	12.00	0.50	20.31	7.13	1.000	2.75
15	12.13	11.38	10.63	11.44	19.25	15.81	9.06	.25 x .13	13.88	0.50	23.13	7.88	1.000	3.25
16	13.31	12.50	11.69	12.63	21.19	17.38	9.69	.25 x .13	13.88	0.63	23.75	8.69	1.000*	3.25
18	14.75	13.81	12.88	14.00	23.56	19.31	10.88	.25 x .13	16.75	0.63	27.94	9.63	1.187	3.75
20	16.25	15.19	14.13	15.31	25.75	21.13	11.56	.38 x .19	16.75	0.63	28.63	10.56	1.437	3.75
22	17.94	16.81	15.69	17.19	28.75	23.50	12.44	.38 x .19	19.00	0.88	27.63	11.75	1.437	3.75
24	19.75	18.50	17.25	19.00	31.75	25.88	13.31	.38 x .19	20.00	0.88	29.00	12.94	1.437	3.75
27	21.81	20.44	19.06	20.94	35.00	28.56	14.25	.38 x .19	22.00	0.88	31.69	14.25	1.437	4.00
30	24.25	22.75	21.25	23.31	38.94	31.75	15.50	.50 x .25	24.00	1.13	40.38	15.81	1.937	3.75
33	26.69	25.00	23.31	25.75	43.00	35.06	16.63	.50 x .25	25.00	1.13	42.50	17.50	1.937	3.75
36	29.63	27.75	25.88	28.50	47.44	39.63	18.00	.50 x .25	28.88	1.13	50.56	19.25	1.937	4.75



Class II



Notes:

1. Flanged outlet is optional on sizes 12-20. Flanged outlet is standard on sizes 22-36 (except on TAD & DBD).
2. "CW" rotation is shown. "CCW" rotation is similar but opposite.
3. Shaft diameter is increased to 1.187 on Hi-Temp fans which require shaft coolers.
4. Unit rotatable to all positions (except BHD sizes 30, 33 & 36 with "D" centerline height.)

Size	A	B	C	D	DG	DX	G	GA	GB	GC	H	HA	HB	HC	HD	HE
12	13.00	9.75	13.25	17.63	17.63	1.00	16.00	14.00	14.00	8.00	32.00	9.75	16.75	13.94	11.19	10.56
13	14.31	10.81	14.56	19.13	19.13	1.00	17.50	14.00	14.00	8.75	34.81	10.75	18.38	15.25	12.31	11.63
15	15.88	11.94	16.19	19.38	19.38	1.00	19.00	14.00	14.00	9.50	36.00	11.94	20.31	16.81	13.75	12.88
16	17.44	13.19	17.75	19.38	19.38	1.00	20.50	14.00	14.00	10.25	37.31	13.13	22.25	18.38	15.06	14.13
18	19.38	14.56	19.50	21.88	21.88	1.25	22.50	12.00	14.00	11.25	43.44	14.50	24.81	20.56	16.69	15.69
20	21.19	15.94	21.38	22.75	22.75	1.25	25.00	12.00	14.00	12.50	44.81	15.81	27.00	22.38	18.38	17.31
22	23.56	17.69	23.75	25.50	25.50	1.25	27.25	12.00	14.00	13.63	47.13	17.69	30.00	24.75	20.44	19.06
24	25.94	19.44	26.06	28.00	28.00	1.25	29.75	12.00	14.00	14.88	48.81	19.50	33.00	27.13	22.38	21.00
27	28.63	21.38	28.50	30.50	30.50	1.50	33.00	12.00	14.00	16.50	53.00	21.44	36.44	30.06	24.69	23.19
30	31.81	23.81	31.63	27.50	34.25	1.50	36.13	10.00	12.00	18.06	56.00	23.81	40.31	33.25	27.44	25.75
33	35.13	26.06	34.75	30.00	37.25	1.50	38.88	10.00	12.00	19.44	61.75	26.25	44.44	36.56	30.13	28.38
36	38.75	28.88	38.50	33.50	41.00	1.50	43.75	10.00	12.00	21.88	64.56	29.00	48.88	40.13	33.50	31.50

Size	HF	HG	HH	HJ	HK	HN	J	KS	L	N	P	Q	SD	SE
12	9.94	9.31	8.69	9.25	15.69	12.94	7.44	.25 x .13	18.50	0.50	26.50	6.44	1.187	2.75
13	10.94	10.25	9.56	10.25	17.31	14.25	8.00	.25 x .13	20.25	0.50	29.56	7.13	1.187	3.38
15	12.13	11.38	10.63	11.44	19.25	15.81	9.06	.25 x .13	20.25	0.50	30.13	7.88	1.187	3.38
16	13.31	12.50	11.69	12.63	21.19	17.38	9.69	.25 x .13	20.00	0.63	30.75	8.69	1.187	3.38
18	14.75	13.81	12.88	14.00	23.56	19.31	10.88	.38 x .19	24.75	0.63	36.81	9.63	1.437	4.00
20	16.25	15.19	14.13	15.31	25.75	21.13	11.56	.38 x .19	24.63	0.63	37.50	10.56	1.437	4.00
22	17.94	16.81	15.69	17.19	28.75	23.50	12.44	.38 x .19	23.88	0.88	38.38	11.75	1.437	4.00
24	19.75	18.50	17.25	19.00	31.75	25.88	13.31	.38 x .19	23.88	0.88	39.25	12.94	1.687	4.00
27	21.81	20.44	19.06	20.94	35.00	28.56	14.25	.38 x .19	26.13	0.88	43.13	14.25	1.687	4.63
30	24.25	22.75	21.25	23.31	38.94	31.75	15.50	.50 x .25	25.38	1.13	44.44	15.81	1.937	4.63
33	26.69	25.00	23.31	25.75	43.00	35.06	16.63	.50 x .25	28.88	1.13	49.69	17.50	2.187	5.25
36	29.63	27.75	25.88	28.50	47.44	39.63	18.00	.63 x .31	28.88	1.13	51.06	19.25	2.437	5.25