

MODEL VP-BI/FC BELT DRIVEN VENT SETS



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 JencoFan 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.

Construction

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. JencoFan 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.

Accessories

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: JencoFan'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.

1 year fan housing warranty, 1 year motor warranty



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).



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.)

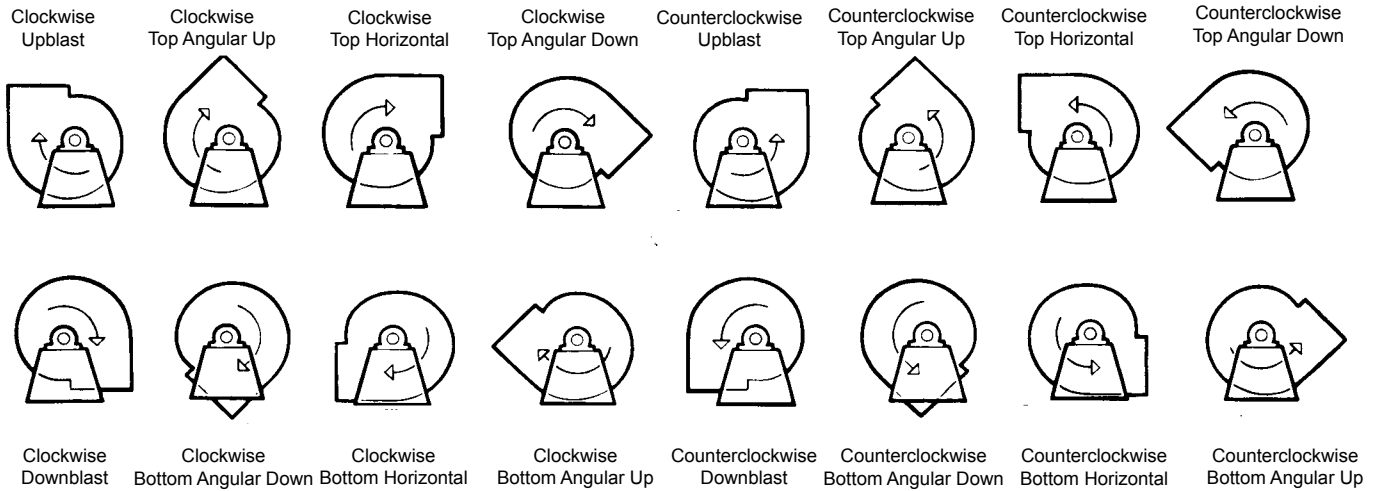
ELEVATED TEMPERATURE DERATE

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.



JencoFan, 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

Table with 23 columns (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) and 23 rows of performance data for VENT-PAK 13 BI.

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

Table with 23 columns (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) and 23 rows of performance data for VENT-PAK 15 BI.

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

Table with 23 columns (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) and 23 rows of performance data for VENT-PAK 16 BI.

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.



JencoFan, 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 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

Table with 22 columns (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) and 22 rows of performance data for VENT-PAK 18 BI.

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

Table with 22 columns (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) and 22 rows of performance data for VENT-PAK 20 BI.

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

Table with 22 columns (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) and 22 rows of performance data for VENT-PAK 22 BI.

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.



JencoFan, 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 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

Table with 20 columns: CFM, OV, 0.25 SP (RPM, BHP), 0.50 SP (RPM, BHP), 0.75 SP (RPM, BHP), 1.00 SP (RPM, BHP), 2.00 SP (RPM, BHP), 3.00 SP (RPM, BHP), 4.00 SP (RPM, BHP), 5.00 SP (RPM, BHP), 6.00 SP (RPM, BHP), 7.00 SP (RPM, BHP), 8.00 SP (RPM, BHP). Rows include CFM values from 2760 to 13110.

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

Table with 20 columns: CFM, OV, 0.25 SP (RPM, BHP), 0.50 SP (RPM, BHP), 0.75 SP (RPM, BHP), 1.00 SP (RPM, BHP), 2.00 SP (RPM, BHP), 3.00 SP (RPM, BHP), 4.00 SP (RPM, BHP), 5.00 SP (RPM, BHP), 6.00 SP (RPM, BHP), 7.00 SP (RPM, BHP), 8.00 SP (RPM, BHP). Rows include CFM values from 3350 to 15920.

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

Table with 20 columns: CFM, OV, 0.25 SP (RPM, BHP), 0.50 SP (RPM, BHP), 0.75 SP (RPM, BHP), 1.00 SP (RPM, BHP), 2.00 SP (RPM, BHP), 3.00 SP (RPM, BHP), 4.00 SP (RPM, BHP), 5.00 SP (RPM, BHP), 6.00 SP (RPM, BHP), 7.00 SP (RPM, BHP), 8.00 SP (RPM, BHP). Rows include CFM values from 4140 to 19650.

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.



JenCoFan, 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 33 BI

Intake Area = 6.49 Sq. Ft.

Wheel Diameter = 33"

Discharge Area = 6.26 Sq. Ft.

Tip Speed FPM = 8.65 x RPM

Table with 24 columns (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) and 24 rows of performance data for VENT-PAK 33 BI.

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

Table with 24 columns (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) and 24 rows of performance data for VENT-PAK 36 BI.

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.



JencoFan, 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.



JencoFan, 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.



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

Table with 18 columns (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) and 20 rows of performance data for VENT-PAK 16 FC.

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

Table with 18 columns (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) and 20 rows of performance data for VENT-PAK 18 FC.

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

Table with 18 columns (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) and 20 rows of performance data for VENT-PAK 20 FC.

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.



JencoFan, 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.



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

Table with 18 columns (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) and 18 rows of performance data for VENT-PAK 22 FC.

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

Table with 18 columns (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) and 18 rows of performance data for VENT-PAK 24 FC.

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

Table with 18 columns (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) and 18 rows of performance data for VENT-PAK 27 FC.

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.



JencoFan, 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.



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

Table with 23 columns (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) and 23 rows of performance data for VENT-PAK 30 FC.

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

Table with 23 columns (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) and 23 rows of performance data for VENT-PAK 33 FC.

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

Table with 23 columns (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) and 23 rows of performance data for VENT-PAK 36 FC.

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.

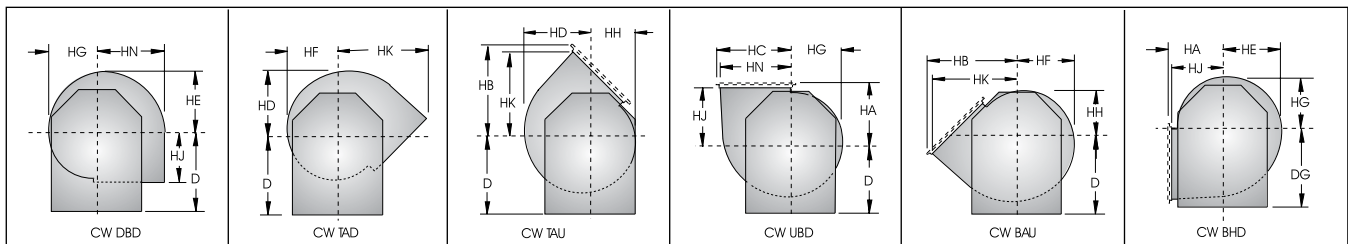
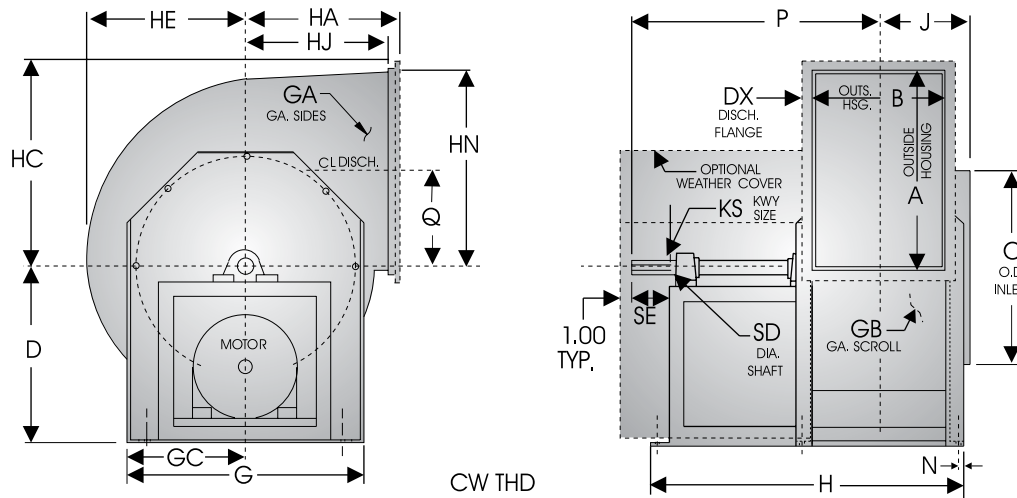


JencoFan, Div. of Soler & Palau Ventilation Group, certifies that the VENT-PAK Forward Curved Utility Sets shown on pages 9 through 12 are licensed to bear the AMCA Seal for Air. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication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



DIMENSIONS

Class I



Notes:

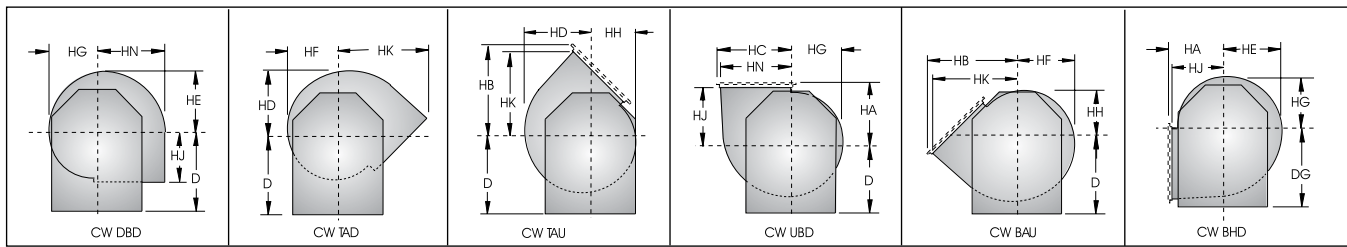
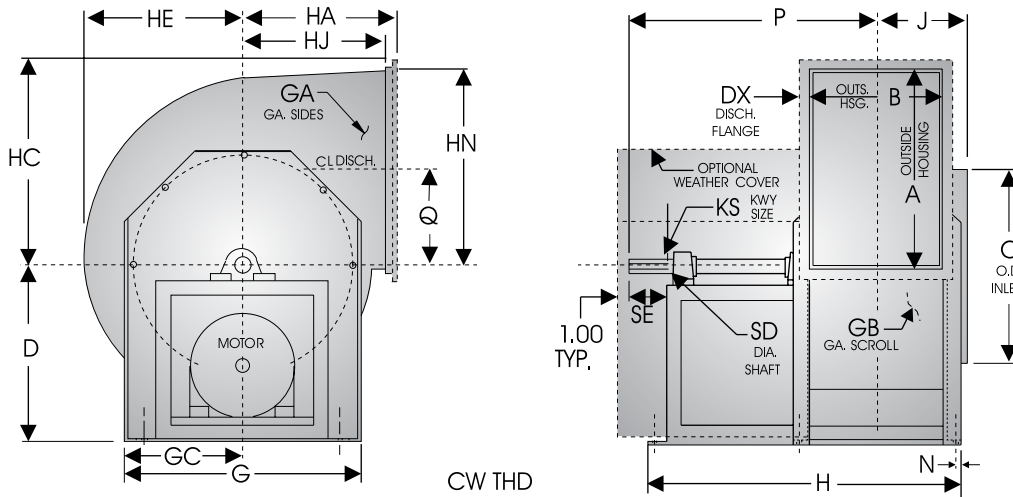
1. Flanged outlet is optional on sizes 12-20. Flanged outlet is standard on sizes 22-36 (except on TAD & DBD).
2. "CW" rotation is shown. "CCW" rotation is similar but opposite.
- *3. Shaft diameter is increased to 1.187 on Hi-Temp fans which require shaft coolers.
4. Unit rotatable to all positions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