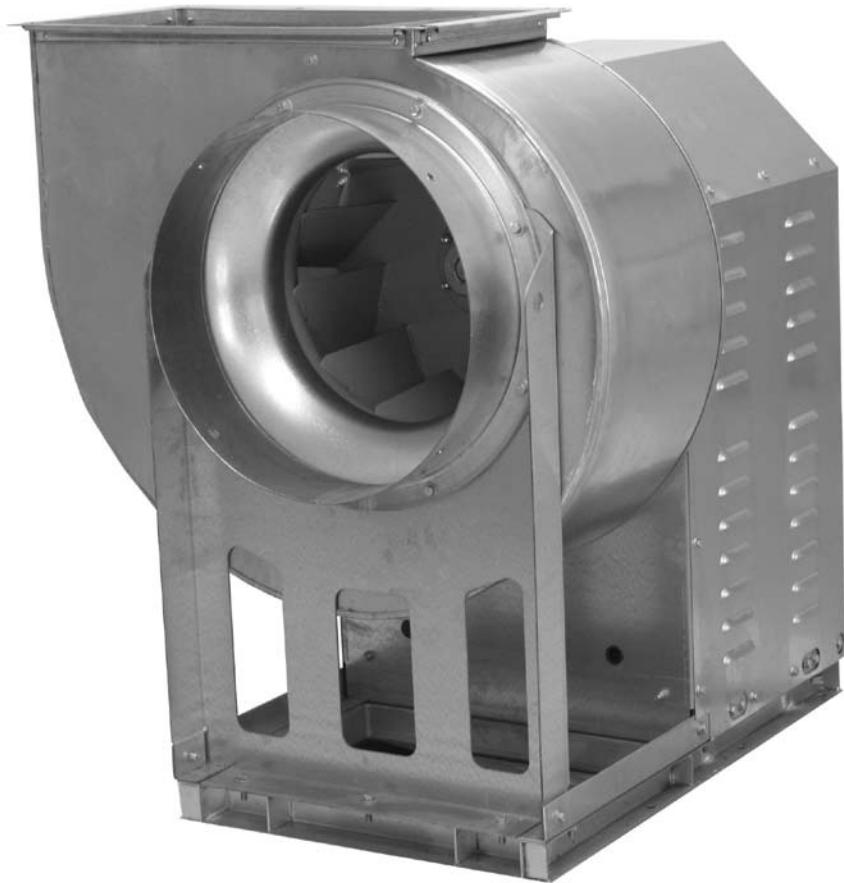


**Soler & Palau**  
WORLD CLASS VENTILATION TECHNOLOGY



## BVS Vent Sets • Level I Construction

Belt Driven / SWSI Arrangement #10 / Class I Construction / Nonoverloading B.I. Wheel

Catalog BVS01-July 2007



Soler & Palau USA, Div. of Soler & Palau Ventilation Group, certifies that the Models BVS shown herein are licensed to bear the AMCA Seal (except BVS 10). The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

**Soler&Palau**  
Ventilation Group

**BVS Vent Sets • Level I Construction**



# Model BVS Belt Driven Vent Sets

## General

The model BVS is a belt driven arrangement 10, Class I centrifugal fan with high efficiency, backward inclined nonoverloading wheel. The self-contained packaged unit (also known as a "vent set" or "utility set") is fully factory assembled to reduce installation costs. Each complete fan is test run prior to shipment to provide smooth, vibration free and consistently reliable operation, and will deliver years of dependable service with minimal maintenance – all in the most economical manner.

A full range of sizes (10 through 36) provides airflow performance from 500 CFM to over 24,000 CFM with static pressure up to 5 in. w.g.

The mechanical design and construction determines the maximum operating speed and power. The performance ranges shown on the following pages comply with the Class I operating limits as defined in AMCA standard 99.

## Application

The belted vent set is an excellent choice for a wide range of exhaust or supply applications in commercial, institutional, or light industrial projects. The packaged unit comes complete with the motor mounted on an adjustable base, v-belt drives, heavy-duty ball bearings, and an integral mounting platform. The installer-friendly design simplifies and reduces the cost of installation.

Typical applications include either supply or exhaust service for ducted systems in schools, theaters, gymnasiums, manufacturing plants, hotels, office buildings, restaurant hoods, and many other general ventilation applications.

The model BVS is suitable for indoor or outdoor installation and with appropriate accessories it can be mounted either on the roof or floor. The model BVS may also be suspended from structure overhead. Ductwork may be connected to the inlet side of the fan, to the outlet, or both.

## Standard Construction and Features

### Housing & Drive Frame Structure

The entire housing is constructed from heavy-gauge galvanized steel for excellent weather resistance. The angle reinforced side sheets are bonded to the fan scroll with a precise lock seam. The flexible design is available in either CCW (counterclockwise) or optional CW (clockwise) rotation. The housing is field rotatable to various standard discharge positions.

Housing supports, reinforcements, and structural members are formed from heavy-gauge galvanized steel. Robust drive frame members support the motor, shaft and bearings and provide a rigid foundation for the housing assembly.

### Wheel

The backward inclined nonoverloading centrifugal wheel is constructed of steel blades welded to the inlet ring and is protected with a durable polyester powder coat finish. Each wheel is statically and dynamically balanced to ISO 1940 and AMCA 204-G2.5 Standards.

### Shaft and Bearings

Turned, ground and polished steel shafts are securely keyed to both the fan wheel hub and the motor sheave. A critical safety factor is provided by designing the shaft first critical speed at least 38% over the maximum operating speed. Standard bearings are heavy-duty self-aligning pillow block ball bearings with cast iron housings with minimum L10 life in excess of 100,000 hours.

### Motors

Heavy-duty ball bearing motors are factory mounted on an adjustable base for ease of service and belt maintenance. Motor enclosures are available Open Drip Proof (ODP) and Totally Enclosed Fan Cooled (TEFC).

### Drives

V-belt drives are selected for a minimum safety factor of 150% of the driven horsepower. Cast iron motor pulleys are adjustable for final system balancing and are factory set to the required RPM range. Dual groove v-belt drives are standard for motors 5HP thru 10HP. Three groove v-belt drives are standard on 15HP units.

### Temperature

Standard operating temperature range is -20°F to 300°F. See the VPBI Level 2 Construction literature for 301°F to 600° applications.

## Options and Accessories

Refer to Page 19.

## WARRANTY

**Soler & Palau** guarantees this equipment to be free of defects in materials and workmanship for one year from date of shipment. Any units or parts which prove to be defective and are reported during the warranty period will be replaced, exclusive of labor, at our option when returned to our factory, transportation prepaid. Deterioration or wear caused by heat, abrasive action, chemicals, improper installation or operation or lack of normal maintenance shall not constitute defect, and is not covered under warranty.

The motor is warranted by the motor manufacturer for one year. If the motor fails in the warranty period, it should be taken to the nearest authorized motor service station. If this is not done, the motor manufacturer will not warranty the motor. Call the factory for instructions if the authorized motor service station is not found.

**Soler & Palau will not be responsible for any installation, removal or reinstallation costs, consequential damages or any unauthorized back charges.**

All specifications are subject to change without notice unless approved in submittal by Soler & Palau.



## Physical Data

BVS Model	Wheel Diameter (in.)	Wheel Weight (lbs.)	WR <sup>2</sup> (lbs-ft <sup>2</sup> )	Max. Wheel RPM	Max. Motor Frame Size	Fan Weight* (lbs.)
10	10	4	0.600	2998	145T	105
12	12 3/4	11	1.90	2873	145T	143
14	14 1/4	13	3.56	2672	184T	165
16	16	18	5.22	2268	184T	187
18	17 7/8	24	9.73	2137	184T	242
20	20	31	16.85	1823	213T	286
22	22 1/2	42	26.10	1716	215T	352
24	25 1/4	59	41.77	1533	215T	418
27	28 1/4	84	78.31	1297	254T	594
30	31 3/4	108	132.18	1093	254T	726
36	35 5/8	147	207.40	1009	254T	880

\*Weight is fan only (without accessories, motors, bases, drives, etc.)

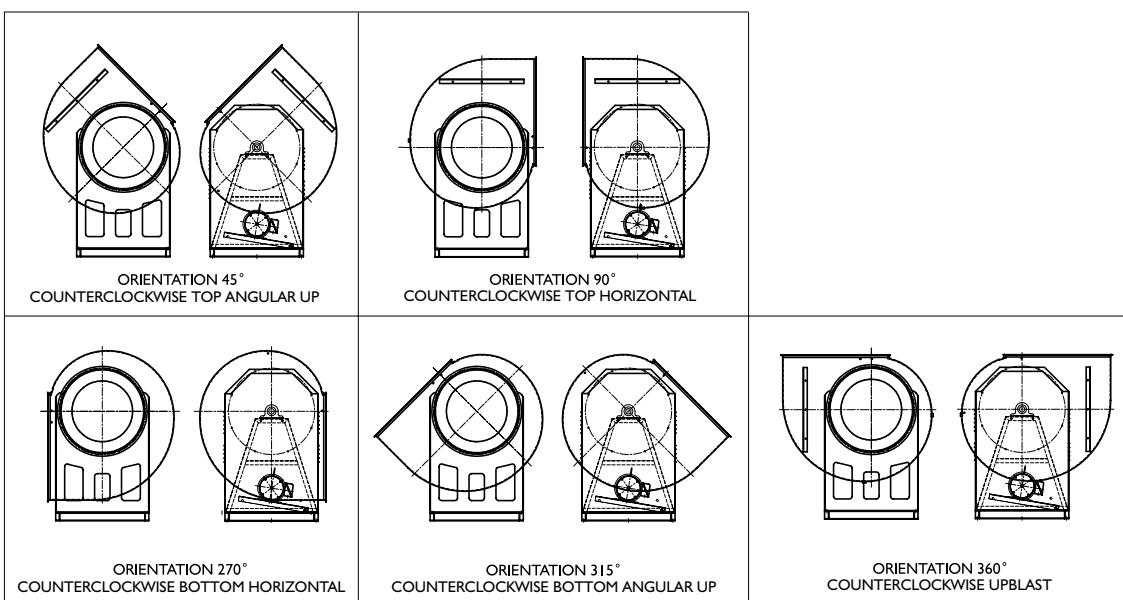
### Elevated Temperature Derate

When elevated temperatures are encountered, maximum RPMs shown above must be derated according to the following table.

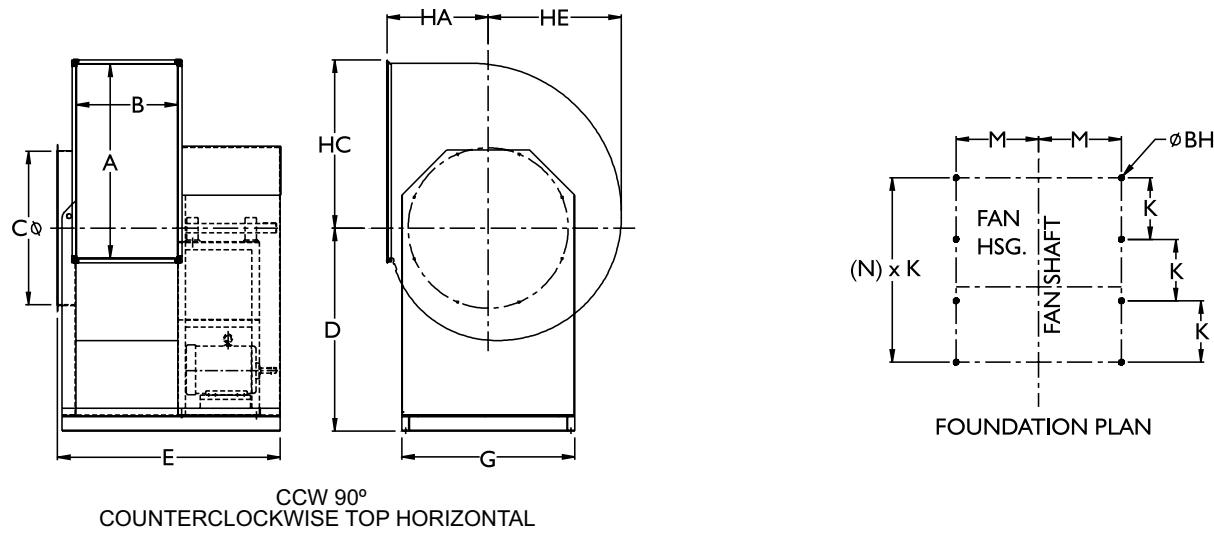
Temperature (°F)	Standard Steel	
70	1.00	
200	0.98	Standard Temperature Range
300	0.96	
400	0.95	
500	0.90	High Temperature Range (See VPBI Level 2 Construction literature for 301°F - 600°F applications)
600	0.86	

### Rotation and Discharge

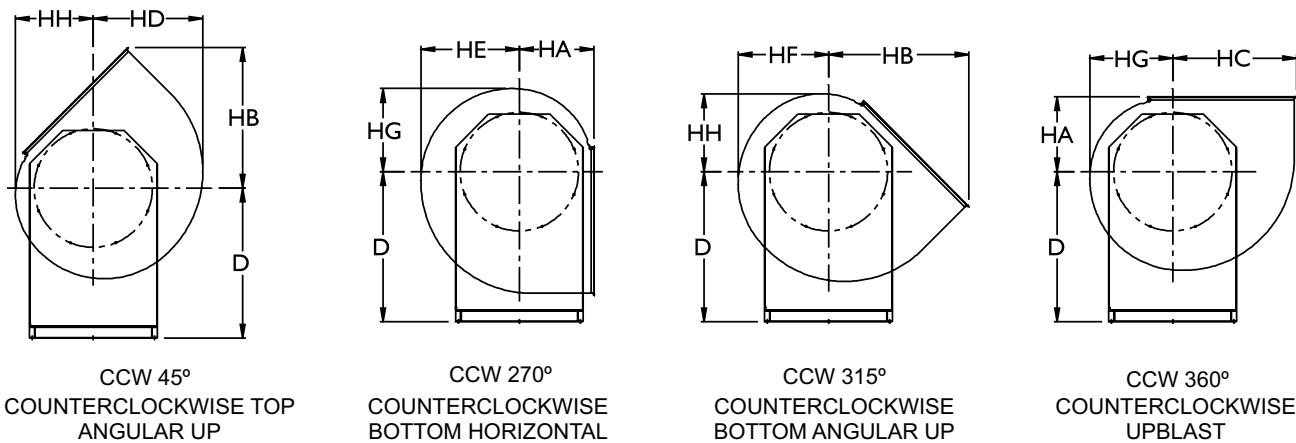
The direction of rotation is determined from the drive side of the fan. The direction of discharge is determined in accordance with the diagrams below. The angle of discharge is referred to the horizontal axis of fan and designated in degrees above or below such standard reference axis.



Counterclockwise rotation shown. Clockwise is similar but opposite.



## Performance Data



Model	A	B	BH	C	D	E	G	HA	HB	HC	HD	HE	HF	HG	HH	M	(N)	K
10	12 5/8	7	3/8	9 7/8	18	28 1/8	13 1/8	7 3/4	13 3/4	11 3/4	9 5/8	8 5/8	7 7/8	7 1/8	6 3/4	5 3/4	2	11
12	15 7/8	8 3/4	1/2	12 3/8	21 1/8	32 1/4	15 1/2	9 1/4	16 3/4	14 1/2	12	11	10	9	8 1/2	7	2	12 3/4
14	17 3/4	9 3/4	1/2	14	22 7/8	33 1/4	17 1/2	10 1/4	18 3/4	16 1/8	13 5/8	12 3/8	11 1/4	10 1/4	9 5/8	8	2	13 1/4
16	19 7/8	10 3/4	1/2	15 3/4	25 1/4	34 5/8	20	11 3/8	20 7/8	18 1/8	15 3/8	13 7/8	12 5/8	11 1/2	10 3/4	9 1/4	2	15
18	22 3/8	12 1/8	1/2	17 3/4	27 3/8	35 5/8	22 1/4	12 3/4	23 1/4	20 1/4	17 1/4	15 5/8	14 1/4	13	12 1/8	10 3/8	2	15 1/2
20	25 1/8	13 5/8	1/2	19 3/4	29 3/8	38 1/2	23 5/8	14	25 5/8	22 3/8	19 1/8	17 3/8	15 7/8	14 3/8	13 1/2	11	3	11 1/4
22	28 1/8	15 1/8	1/2	22	30 5/8	42 3/4	27 3/4	15 3/8	28 3/8	24 3/4	21 1/2	19 5/8	17 3/4	16 1/8	15	12 7/8	3	12 1/4
24	31 1/2	17	1/2	24 3/4	35 3/4	45 7/8	29 5/8	17 1/8	31 3/4	27 7/8	24 3/8	22 1/8	20 1/4	18 3/8	17 1/4	13 7/8	3	13 1/4
27	35 3/8	18 7/8	1/2	28	39 1/8	49	33	19 1/8	35 5/8	31 1/8	27 1/2	25	22 5/8	20 3/4	19 3/8	15 1/2	3	14
30	39 5/8	21	1/2	31 1/2	43	50 3/4	35 7/8	21 3/8	40	35	30 7/8	28 1/8	25 1/2	23 1/4	21 3/4	16 7/8	3	14 3/8
36	44 1/2	23 3/8	1/2	35 3/8	48 1/4	55 5/8	40 1/2	23 7/8	44 3/4	39 1/2	34 3/4	31 5/8	28 3/4	26 1/8	24 5/8	19 1/4	3	14 5/8

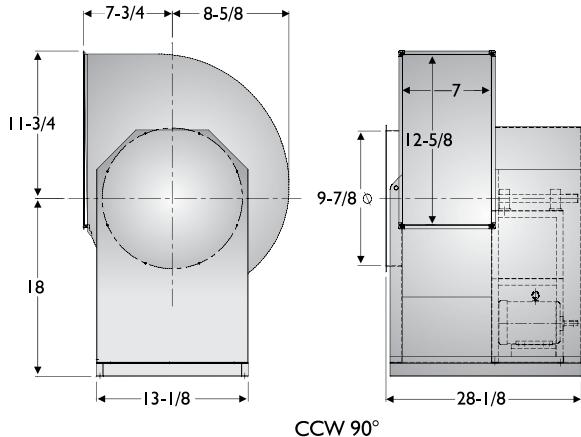
## NOTES:

1. Outlet flange is optional for all sizes.
2. Unit rotatable to all positions: 45°, 90°, 270°, 315°, & 360°.
- "CW" rotation is shown: "CCW" rotation is similar but opposite.



# Performance Data

## BVS 10



**Wheel Diameter:** 10"  
**Outlet Area:** 0.625 Sq. Ft.  
**Average Weight:** 170 lb  
**Shaft Diameter:** 3/4"  
**Tip Speed:** 2.64 x RPM=FPM  
**Max Fan RPM:** 2,998 RPM  
**Max Motor HP:** 3/4 HP

CFM	OV	Static Pressure (Inches W.G.)															
		0.5		1		1.5		2		2.5		3		3.5			
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
499	800	1316	0.07	1655	0.12	1939	0.18	-	-	-	-	-	-	-	-	-	-
531	850	1353	0.07	1682	0.13	1962	0.19	-	-	-	-	-	-	-	-	-	-
562	900	1392	0.08	1710	0.14	1986	0.20	2229	0.27	-	-	-	-	-	-	-	-
593	950	1431	0.08	1740	0.15	2011	0.21	2251	0.29	-	-	-	-	-	-	-	-
624	1000	1472	0.09	1772	0.16	2037	0.23	2274	0.30	2490	0.38	-	-	-	-	-	-
656	1050	1513	0.10	1804	0.17	2065	0.24	2299	0.31	2511	0.40	-	-	-	-	-	-
687	1100	1556	0.11	1839	0.18	2093	0.25	2324	0.33	2534	0.41	2729	0.50	-	-	-	-
718	1150	1600	0.12	1875	0.19	2123	0.27	2350	0.35	2558	0.43	2751	0.52	-	-	-	-
749	1200	1643	0.13	1912	0.20	2154	0.28	2377	0.36	2583	0.45	2774	0.54	2953	0.64	-	-
780	1250	1687	0.14	1950	0.21	2186	0.30	2405	0.38	2608	0.47	2798	0.56	2975	0.66	-	-
812	1300	1732	0.15	1989	0.23	2219	0.31	2435	0.40	2635	0.49	2822	0.58	2998	0.68	-	-
843	1350	1776	0.16	2029	0.24	2254	0.33	2465	0.42	2662	0.51	2847	0.61	-	-	-	-
874	1400	1820	0.17	2070	0.26	2290	0.34	2496	0.44	2691	0.53	2873	0.63	-	-	-	-
905	1450	1864	0.18	2111	0.27	2327	0.36	2528	0.46	2720	0.56	2900	0.66	-	-	-	-
936	1500	1908	0.20	2153	0.29	2365	0.38	2562	0.48	2750	0.58	2928	0.68	-	-	-	-
968	1550	1953	0.21	2196	0.30	2404	0.40	2596	0.50	2781	0.61	2957	0.71	-	-	-	-
999	1600	1998	0.22	2239	0.32	2442	0.42	2632	0.52	2813	0.63	2987	0.74	-	-	-	-
1030	1650	2043	0.24	2283	0.34	2482	0.44	2669	0.54	2846	0.66	-	-	-	-	-	-
1061	1700	2089	0.25	2327	0.36	2523	0.46	2706	0.57	2880	0.68	-	-	-	-	-	-
1093	1750	2135	0.27	2371	0.38	2564	0.49	2745	0.59	2915	0.71	-	-	-	-	-	-
1124	1800	2181	0.29	2415	0.40	2606	0.51	2783	0.62	2951	0.74	-	-	-	-	-	-
1155	1850	2228	0.31	2459	0.42	2648	0.54	2822	0.65	-	-	-	-	-	-	-	-
1186	1900	2275	0.33	2503	0.45	2691	0.56	2862	0.68	-	-	-	-	-	-	-	-
1217	1950	2323	0.35	2547	0.47	2734	0.59	2902	0.70	-	-	-	-	-	-	-	-
1249	2000	2371	0.38	2591	0.49	2778	0.62	2943	0.74	-	-	-	-	-	-	-	-
1280	2050	2422	0.40	2635	0.52	2821	0.64	-	-	-	-	-	-	-	-	-	-
1311	2100	2470	0.43	2680	0.54	2865	0.67	-	-	-	-	-	-	-	-	-	-
1342	2150	2519	0.44	2724	0.57	2909	0.70	-	-	-	-	-	-	-	-	-	-
1373	2200	2568	0.47	2769	0.59	2954	0.74	-	-	-	-	-	-	-	-	-	-
1405	2250	2619	0.50	2814	0.60	-	-	-	-	-	-	-	-	-	-	-	-
1436	2300	2669	0.52	2859	0.65	-	-	-	-	-	-	-	-	-	-	-	-
1467	2350	2718	0.56	2905	0.68	-	-	-	-	-	-	-	-	-	-	-	-
1498	2400	2768	0.59	2950	0.71	-	-	-	-	-	-	-	-	-	-	-	-
1530	2450	2820	0.62	2996	0.75	-	-	-	-	-	-	-	-	-	-	-	-
1561	2500	2870	0.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1592	2550	2920	0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1623	2600	2971	0.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Performance certified is for installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (BHP) does not include transmission losses.



Must specify:  
Restaurant Model or Standard Vent Set





















**BVS 10**

RPM	Sound Performance Sones / LwA (Inches w.g.)						
	0.5	1	1.5	2	2.5	3	3.5
1325	4.4 / 60.1	-	-	-	-	-	-
1500	5.7 / 64.2	-	-	-	-	-	-
1700	7.5 / 68.6	6.6 / 65.9	-	-	-	-	-
1875	9.5 / 72.1	8.2 / 69.5	-	-	-	-	-
2050	11.7 / 75.4	9.9 / 72.6	9.3 / 70.9	-	-	-	-
2250	14.4 / 78.7	12.2 / 76.0	11.4 / 74.6	11.1 / 73.2	-	-	-
2450	17.0 / 81.5	14.5 / 78.9	13.5 / 77.5	13.1 / 76.6	-	-	-
2625	19.1 / 83.5	17.1 / 81.5	15.7 / 80.0	15.0 / 79.1	14.6 / 78.1	-	-
2825	21 / 85.2	19.6 / 84.0	17.9 / 82.3	17.1 / 81.3	16.6 / 80.6	16.3 / 79.7	-
3000	23 / 86.7	22 / 85.9	19.8 / 84.1	19.0 / 83.2	18.4 / 82.5	18.1 / 81.8	18.1 / 81.2

**BVS 12**

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
1025	4.7 / 60.7	-	-	-	-	-	-	-	-	-
1225	7.1 / 67.4	-	-	-	-	-	-	-	-	-
1450	10.2 / 73.3	8.8 / 70.4	-	-	-	-	-	-	-	-
1650	13.7 / 77.9	11.5 / 75.1	10.7 / 73.3	-	-	-	-	-	-	-
1850	17.6 / 81.9	14.8 / 79.2	13.7 / 77.5	13.1 / 76.3	-	-	-	-	-	-
2050	21 / 84.9	18.6 / 82.8	17.2 / 81.3	16.3 / 80.1	15.9 / 79.2	-	-	-	-	-
2275	25 / 88.0	24 / 86.8	21 / 85	20 / 84	19.6 / 83.1	19.3 / 82.4	-	-	-	-
2475	30 / 90.5	28 / 89.9	26 / 88.1	24 / 87.1	23 / 86.3	23 / 85.5	23 / 85	-	-	-
2700	34 / 92.8	34 / 92.6	31 / 91.3	29 / 90.0	28 / 89.3	27 / 88.6	26 / 87.9	26 / 87.5	26 / 87.2	-
2900	38 / 94.5	38 / 94.3	36 / 93.6	33 / 92.3	32 / 91.4	31 / 90.9	30 / 90.3	29 / 89.7	29 / 89.3	29 / 89.1

**BVS 14**

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
900	4.8 / 60.6	-	-	-	-	-	-	-	-	-
1100	7.7 / 68.7	-	-	-	-	-	-	-	-	-
1300	10.8 / 74.4	9.4 / 71.7	-	-	-	-	-	-	-	-
1500	14.4 / 79.0	12.5 / 76.8	11.3 / 74.8	-	-	-	-	-	-	-
1700	18.4 / 82.9	16.5 / 81.2	15.0 / 79.7	13.9 / 78.2	-	-	-	-	-	-
1900	23 / 86.3	21 / 85.1	19.3 / 83.9	18.0 / 82.8	17.0 / 81.7	15.5 / 79.4	-	-	-	-
2100	27 / 89.4	25 / 88.4	24 / 87.5	23 / 86.7	22 / 85.9	21 / 85.2	19.4 / 83.9	-	-	-
2300	32 / 92.2	30 / 91.3	29 / 90.6	28 / 90.1	26 / 89.4	25 / 88.8	25 / 88.4	23 / 87.5	-	-
2500	37 / 94.2	35 / 93.5	33 / 92.9	32 / 92.4	31 / 91.8	30 / 91.2	29 / 90.7	28 / 90.3	27 / 89.7	26 / 88.7
2700	41 / 96.2	40 / 95.6	38 / 95.0	37 / 94.5	36 / 94.1	34 / 93.6	33 / 93.1	32 / 92.6	31 / 92.2	31 / 91.8

The A-weighted sound ratings shown have been calculated per AMCA standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.



Soler & Palau USA, Div. of Soler & Palau Ventilation Group certifies that the Models BVS shown herein are licensed to bear the AMCA Seal (except BVS10). The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

**BVS 16**

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
800	5.0 / 61.1	-	-	-	-	-	-	-	-	-
1000	8.6 / 70.3	-	-	-	-	-	-	-	-	-
1150	11.6 / 75.3	9.4 / 71.6	-	-	-	-	-	-	-	-
1300	15.2 / 79.7	12.4 / 76.4	10.7 / 73.7	-	-	-	-	-	-	-
1450	19.3 / 83.5	16.1 / 80.7	14.2 / 78.5	12.4 / 75.9	-	-	-	-	-	-
1625	24 / 87.0	21 / 85.0	18.6 / 83.0	17.1 / 81.5	15.3 / 79.3	-	-	-	-	-
1800	29 / 90.1	27 / 88.9	24 / 87.1	22 / 85.5	20 / 84.4	18.5 / 82.6	-	-	-	-
1950	34 / 92.6	32 / 92.0	29 / 90.1	26 / 88.8	25 / 87.6	23 / 86.7	21 / 85.1	20.0 / 83.4	-	-
2150	39 / 95.1	39 / 94.8	35 / 93.5	32 / 92.2	30 / 91.1	28 / 90.1	27 / 89.4	26 / 88.4	24 / 86.8	23 / 85.5
2300	44 / 96.7	43 / 96.5	40 / 95.7	37 / 94.4	35 / 93.4	33 / 92.4	31 / 91.6	30 / 91.0	29 / 90.2	27 / 88.8

**BVS 18**

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
700	4.8 / 60.4	-	-	-	-	-	-	-	-	-
875	8.4 / 69.5	-	-	-	-	-	-	-	-	-
1025	12.3 / 75.4	9.5 / 71.5	-	-	-	-	-	-	-	-
1175	17.0 / 80.3	13.9 / 77.4	11.3 / 74.2	-	-	-	-	-	-	-
1350	23 / 85.2	19.9 / 83.2	16.9 / 80.7	14.6 / 78	14.4 / 76.9	-	-	-	-	-
1500	27 / 88.0	24 / 86.6	22 / 84.7	19.0 / 82.7	16.9 / 80.5	16.5 / 79.3	-	-	-	-
1650	31 / 90.4	29 / 89.6	26 / 88.1	24 / 86.5	21 / 84.8	19.4 / 83	18.4 / 81.4	-	-	-
1825	35 / 93.1	34 / 92.6	32 / 91.5	29 / 90.3	27 / 89.0	25 / 87.6	23 / 86.1	21 / 84.6	22 / 84.3	-
2000	42 / 95.8	40 / 95.4	39 / 94.7	36 / 93.7	34 / 92.7	32 / 91.6	30 / 90.5	28 / 89.2	26 / 88.0	25 / 86.7
2150	48 / 98.0	47 / 97.7	46 / 97.3	43 / 96.5	41 / 95.6	38 / 94.7	36 / 93.7	34 / 92.7	32 / 91.6	30 / 90.5

**BVS 20**

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
650	5.6 / 62.7	-	-	-	-	-	-	-	-	-
775	8.4 / 69.7	-	-	-	-	-	-	-	-	-
900	12.0 / 75.3	9.3 / 71.1	-	-	-	-	-	-	-	-
1050	17.3 / 81	13.9 / 77.7	12.2 / 74.8	-	-	-	-	-	-	-
1175	22 / 85.0	18.4 / 82.1	16.5 / 80.2	14.9 / 77.8	-	-	-	-	-	-
1300	27 / 88.4	24 / 86.3	21 / 84.4	19.7 / 82.9	18.0 / 81	-	-	-	-	-
1450	33 / 91.5	31 / 90.2	27 / 88.3	25 / 87	24 / 85.9	22 / 84.6	20 / 82.6	-	-	-
1550	37 / 93.2	34 / 92.2	31 / 90.6	28 / 89.2	27 / 88.1	25 / 87.1	24 / 85.7	22 / 84.1	-	-
1700	42 / 95.6	40 / 94.8	37 / 93.6	34 / 92.3	32 / 91.3	30 / 90.4	29 / 89.4	28 / 88.5	26 / 86.9	-
1825	47 / 97.5	45 / 96.9	43 / 96.0	39 / 94.9	36 / 93.7	35 / 92.9	33 / 92.2	32 / 91.3	31 / 90.5	29 / 89.3

The A-weighted sound ratings shown have been calculated per AMCA standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.

Soler & Palau USA, Div. of Soler & Palau Ventilation Group certifies that the Models BVS shown herein are licensed to bear the AMCA Seal (except BVS10). The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



## BVS 22

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
575	5.7 / 62.7	-	-	-	-	-	-	-	-	-
700	9.0 / 70.3	-	-	-	-	-	-	-	-	-
825	13.1 / 76.4	10.6 / 72.9	-	-	-	-	-	-	-	-
950	18.1 / 81.5	14.9 / 78.4	13.4 / 76.1	-	-	-	-	-	-	-
1075	23 / 85.7	19.9 / 83.2	17.8 / 81.1	16.5 / 79.3	-	-	-	-	-	-
1225	30 / 89.7	27 / 88.2	24 / 86.4	22 / 84.9	21 / 83.3	19.8 / 82.1	-	-	-	-
1350	35 / 92.6	34 / 91.7	31 / 90.2	28 / 88.9	26 / 87.6	25 / 86.2	24 / 85.0	-	-	-
1475	40 / 94.8	39 / 94.4	36 / 93.2	34 / 91.9	32 / 90.9	30 / 89.8	28 / 88.7	27 / 87.7	26 / 86.9	-
1600	46 / 96.9	45 / 96.7	42 / 95.8	40 / 94.7	37 / 93.7	35 / 92.8	33 / 91.9	32 / 91.0	31 / 90.2	30 / 89.4
1725	51 / 98.9	50 / 98.7	49 / 98.2	46 / 97.3	43 / 96.4	41 / 95.6	39 / 94.8	37 / 94.0	36 / 93.3	35 / 92.6

## BVS 24

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
500	5.2 / 61.9	-	-	-	-	-	-	-	-	-
625	9.5 / 71.7	-	-	-	-	-	-	-	-	-
725	13.4 / 77.1	10.2 / 72.8	-	-	-	-	-	-	-	-
825	17.6 / 81.4	14.3 / 78.4	12.1 / 75.2	-	-	-	-	-	-	-
950	23 / 85.9	20.0 / 84.0	17.4 / 81.4	15.5 / 79.2	-	-	-	-	-	-
1050	28 / 88.9	25 / 87.5	22 / 85.7	19.9 / 83.6	18.4 / 81.9	16.4 / 79.1	-	-	-	-
1175	34 / 92.1	32 / 91.4	29 / 90.1	26 / 88.5	24 / 86.8	23 / 85.5	20 / 83.2	-	-	-
1275	39 / 94.4	39 / 94.1	35 / 92.9	32 / 91.8	30 / 90.3	28 / 89.0	26 / 87.9	24 / 86.0	-	-
1400	45 / 96.8	45 / 96.5	42 / 95.8	39 / 94.9	36 / 93.9	34 / 92.7	32 / 91.5	30 / 90.6	29 / 89.7	26 / 87.6
1500	50 / 98.6	50 / 98.3	48 / 97.9	45 / 97.1	42 / 96.4	40 / 95.4	37 / 94.4	35 / 93.3	34 / 92.5	33 / 91.7

Sound Characteristics

## BVS 27

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
450	5.6 / 62.1	-	-	-	-	-	-	-	-	-
550	9.4 / 71.0	-	-	-	-	-	-	-	-	-
650	14.0 / 77.5	10.8 / 73.1	-	-	-	-	-	-	-	-
750	18.9 / 82.5	15.6 / 79.4	12.9 / 75.9	-	-	-	-	-	-	-
825	22 / 85.4	19.4 / 83.2	16.7 / 80.5	14.4 / 77.5	-	-	-	-	-	-
925	27 / 88.7	25 / 87.4	22 / 85.5	19.6 / 83.2	17.5 / 80.8	-	-	-	-	-
1025	32 / 91.6	31 / 91.0	28 / 89.5	25 / 87.9	23 / 86.0	21 / 83.9	19.8 / 82.5	-	-	-
1100	36 / 93.6	36 / 93.3	33 / 92.1	30 / 90.8	28 / 89.3	25 / 87.6	23 / 85.8	22 / 84.5	-	-
1200	42 / 96.1	42 / 95.8	40 / 95.2	37 / 94.2	34 / 93.1	32 / 91.8	29 / 90.3	27 / 88.7	26 / 87.5	-
1300	48 / 98.2	47 / 98.0	47 / 97.7	44 / 96.9	41 / 96.0	39 / 95.0	36 / 93.9	34 / 92.7	31 / 91.3	30 / 90.1

The A-weighted sound ratings shown have been calculated per AMCA standard 301.

Values shown are for inlet Lwi(A) sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.



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## BVS 30

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
400	5.6 / 62.2	-	-	-	-	-	-	-	-	-
475	8.8 / 69.9	-	-	-	-	-	-	-	-	-
550	12.7 / 75.7	9.5 / 70.8	-	-	-	-	-	-	-	-
625	16.8 / 80.4	13.3 / 76.5	11.1 / 73.1	-	-	-	-	-	-	-
700	21 / 84.2	17.6 / 81.3	14.9 / 78.3	13.5 / 76	-	-	-	-	-	-
775	26 / 87.5	22 / 85.3	19.4 / 82.8	17.2 / 80.5	16.3 / 78.9	-	-	-	-	-
875	32 / 91.2	29 / 89.8	26 / 87.9	23 / 86.0	21 / 84.1	20 / 82.8	-	-	-	-
950	38 / 93.7	35 / 92.7	32 / 91.1	29 / 89.5	26 / 87.8	24 / 86.3	23 / 85.2	-	-	-
1025	43 / 96.0	41 / 95.1	38 / 93.9	34 / 92.6	32 / 91.1	29 / 89.7	28 / 88.4	27 / 87.4	27 / 87.4	-
1100	49 / 97.9	46 / 97.1	44 / 96.2	40 / 95.1	37 / 93.9	35 / 92.7	32 / 91.4	31 / 90.3	29 / 89.3	29 / 89.0

## BVS 36

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
350	5.6 / 61.6	-	-	-	-	-	-	-	-	-
425	9.1 / 69.9	-	-	-	-	-	-	-	-	-
500	13.7 / 76.6	10.4 / 72.0	-	-	-	-	-	-	-	-
575	19.8 / 82.1	16.0 / 78.3	13.1 / 75.0	-	-	-	-	-	-	-
650	26 / 86.4	22 / 83.4	19.3 / 81.1	16.8 / 78.3	-	-	-	-	-	-
725	32 / 89.8	28 / 87.7	25 / 85.5	22 / 83.5	20.0 / 81.3	-	-	-	-	-
800	37 / 92.6	34 / 91.2	30 / 89.1	28 / 87.6	25 / 85.9	23 / 84.0	23 / 83.1	-	-	-
875	43 / 95.2	40 / 94.2	37 / 92.5	33 / 90.9	31 / 89.7	29 / 88.2	26 / 86.6	26 / 85.4	-	-
950	49 / 97.6	47 / 96.7	44 / 95.6	40 / 94.1	37 / 93.0	35 / 91.9	33 / 90.7	30 / 89.3	30 / 88.2	30 / 87.7
1025	56 / 99.9	54 / 99.2	51 / 98.4	48 / 97.2	44 / 96.0	42 / 95.1	40 / 94.2	37 / 93.1	35 / 91.9	34 / 90.9

The A-weighted sound ratings shown have been calculated per AMCA standard 301. Values shown are for inlet Lwi(A) sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.



Must specify:  
Restaurant Model or Standard Vent Set



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## Optional Accessories

### Standard Vent Set Includes

- Inlet Flange
- Weather Cover/Belt Guard
- CCW Top Horizontal Discharge

### Optional Accessories

- Gravity Outlet Dampers
- Vibration Isolation
- Inlet Guard/Screen
- Outlet Flange
- Outlet Guard/Screen
- Access Door
- Drain Fitting
- Shaft Seal
- Electrical Disconnect Switch-NEMA 1, 3R & 4
- Protective Coatings

### Restaurant Model Includes

- Inlet Flange
- Weather Cover c/w additional Motor Ventilation
- Upblast Discharge
- Access Door
- Drain Fitting
- Shaft Seal
- High Temperature Insulation
- cULus762 Listing
- Meets NFPA-96 Guidelines

### Optional Accessories

- Floor or Hanging Vibration Isolators
- Outlet Flange
- Electrical Disconnect Switch-NEMA 1, 3R & 4



## Additional Products

**Soler & Palau manufactures a complete line of gravity ventilators and fans for all your ventilation requirements.**



### MODEL DB

Backward Inclined  
Belt Drive  
Centrifugal Roof Exhaust



### MODEL RED

Backward Inclined  
Direct Drive  
Centrifugal Roof Exhaust



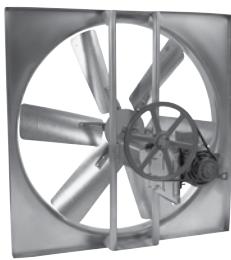
### MODEL SQB/SQD

Backward Inclined  
Belt Drive/Direct Drive  
Square Inline



### MODEL UBB/UBX/UBS

Propeller  
Belt and Direct Drive  
Upblast Roof Exhaust



### MODEL L

Propeller  
Belt Drive  
Sidewall Exhaust or Supply



### MODEL BGH

Gravity Hood  
Intake or Relief



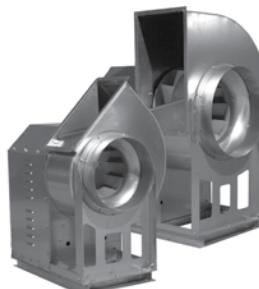
### MODEL KSF

Forward Curved Blower  
Belt Drive  
Filtered Roof Supply



### MODEL TXB/TXD

Backward Inclined  
Belt Drive/Direct Drive  
Centrifugal Upblast



### MODEL BVS

Backward Inclined  
Belt Drive  
Centrifugal Utility Set

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**Soler & Palau Canada**  
61A Baywood Road  
Toronto, ON M9V 3Y8  
866.733.0233  
866.358.5346  
[www.solerpalaucanada.com](http://www.solerpalaucanada.com)