



FRP Fans:

CLUB Series 1500-7300
Performance and
Technical Information

Verantis Environmental Solutions Group provides solutions for most common and complex situations including repair, rebuilding, field balancing, service and installation.



VERANTIS CORPORATION CERTIFIES THAT THE CLUB SERIES CENTRIFUGAL FANS SHOWN HEREIN ARE LICENSED TO BEAR THE AMCA SEAL. THE RATINGS SHOWN ARE BASED ON TESTS MADE IN ACCORDANCE WITH AMCA PUBLICATION 211 AND COMPLY WITH THE REQUIREMENTS OF THE AMCA RATINGS PROGRAM.

OTHER VERANTIS FANS INCLUDE:

- **CMHB Centrifugal High Efficiency Low to Medium Pressure**
 - **CLM Centrifugal Low to Medium Pressure**
 - **CMH Centrifugal Medium to High Pressure**
 - **CH/CHP Centrifugal High Pressure**
 - **FL/FLR Tube Axial Low Pressure**

FRP

Centrifugal Fans



Wide choice of sizes and performance characteristics.

The CLUB series is available in sizes 1500 through 7200 providing exhaust volumes up to 76,885 CFM and static pressures up to 10" WG.

Every unit pretested.

Impellers are statically and dynamically balanced prior to assembly. Each fan is factory tested before shipment to ensure proper function and service. Fan performance data is obtained from tests conducted in accordance with AMCA standards.

Using this bulletin.

The following pages include information to select a CLUB Series fan for most applications. If you require technical assistance, call your Verantis representative or the Verantis Corporate Office. Phone numbers are listed at www.verantis.com.

Verantis CLUB Series fiberglass fans offer the widest range of performance from any Fiberglass Reinforced Plastic (FRP) fan on the market. For over 40 years, Verantis fans have provided industry leading reliability and service in corrosive environments.

Designed and built to the highest standards.

Housings are made of premium corrosion-resistant, fire retardant vinyl ester resin systems. Impellers are manufactured using premium vinyl ester to assure structural integrity under the intense dynamic forces of rotation. All fiberglass components are fabricated in accordance with ASTM C582 and ASTM 4167 specifications for fiberglass laminates and fiberglass blowers.

All metal parts exposed to the process gasses are fully encapsulated in FRP to assure maximum protection against chemical attack. Fan and motor bases are heavy-gauge steel coated with polyurethane. Other Verantis protective coatings are available for other severe service conditions.

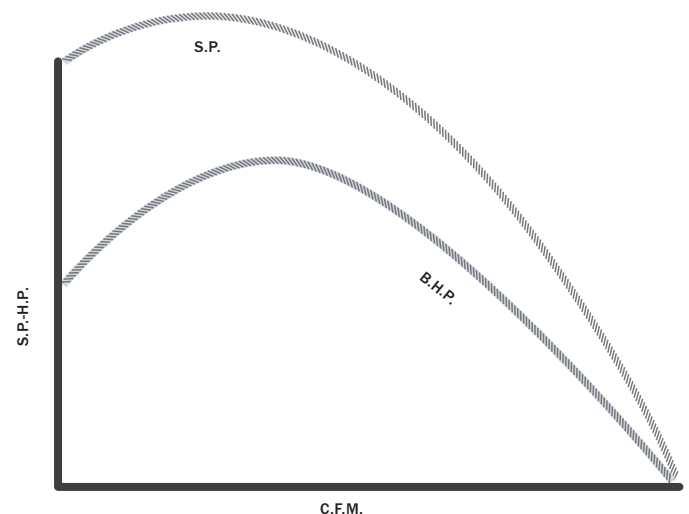
Engineering Features

- Low noise
- Lower operating speeds for increased service life
- Oversized shafts
- Optimized impeller and housing designs for greater efficiency
- Robust base design
- Taper lock mounting of impeller to shaft for ease of service

High Strength FRP Impellers

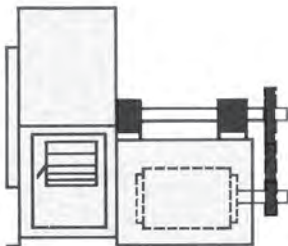
CLUB Backward Curved Impeller

- For forced draft and non-abrasive induced draft applications
- Non-overloading horsepower characteristic
- Increased efficiency
- Stable operation



Arrangement Versatility

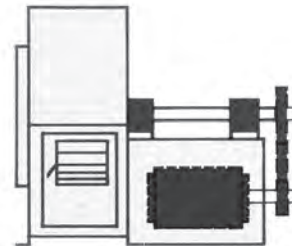
Standard for sizes 1500 through 2550



ARR. 10 SWSI - For belt drive. Wheel over-hung, two bearings, with prime mover inside base.

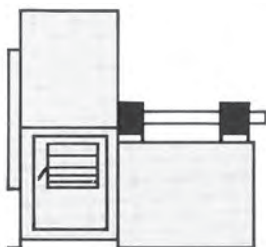
Size 1500 through 2550 are offered in Arrangement 10 as standard, while Arrangement 9 is standard in sizes 3000 through 7300. Other arrangements are available if required. Fans are available in clockwise or counter-clockwise rotation and all 8 standard discharge positions.

Standard for sizes 3000 through 7300

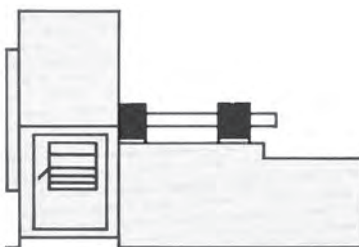


ARR. 9 SWSI - For belt drive. Wheel over-hung, two bearings, with prime mover outside base.

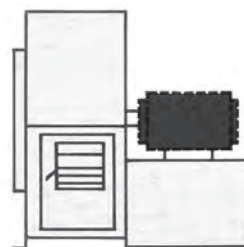
Optional arrangements available for special requirements.



ARR. 1 SWSI - For belt drive or direct connection. Wheel over-hung. Two bearings on base.



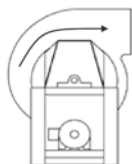
ARR. 8 SWSI - For belt drive or direct connection. Arrangement 1 plus extended base for prime mover.



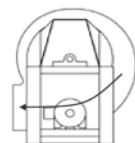
ARR. 4 SWSI - For direct drive. Wheel overhung on prime mover shaft. No bearings on fan. Prime mover base mounted or directly connected.

Rotation and Discharge Options

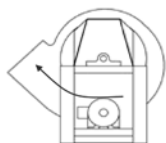
Direction of rotation is determined from drive side of fan. On single inlet fans, drive side is always considered as the side opposite fan inlet. Direction of discharge is determined in accordance with diagrams (below). Angle of discharge is referred to the horizontal axis of fan and designated in degrees above or below such standard reference axis. For fan inverted for ceiling suspension or side wall mounting, direction of rotation and discharge is determined when the fan is resting on floor.



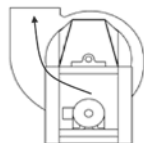
Rotation: Clockwise
Orientation: Top Horizontal



Rotation: Clockwise
Orientation: Bottom Horizontal



Rotation: Clockwise
Orientation: Bottom Angular Up



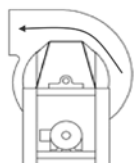
Rotation: Clockwise
Orientation: Up Blast



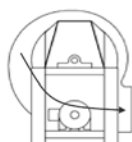
Rotation: Clockwise
Orientation: Top Angular Up



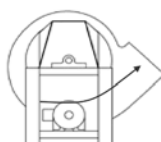
Rotation: Clockwise
Orientation: Top Angular Down



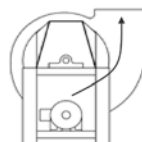
Rotation: Counterclockwise
Orientation: Top Horizontal



Rotation: Counterclockwise
Orientation: Bottom Horizontal



Rotation: Counterclockwise
Orientation: Bottom Angular Up



Rotation: Counterclockwise
Orientation: Up Blast



Rotation: Counterclockwise
Orientation: Top Angular Up



Rotation: Counterclockwise
Orientation: Top Angular Down

Features Available for Design Flexibility

Carbon gel coating.

All FRP surfaces exposed to the gas stream are coated with a graphite-impregnated layer to eliminate static buildup. Grounding connectors are located externally.

Access doors.

Stud-mounted bolted access doors available on all sizes.

Flanges.

Standard and custom available for inlet or outlet. Drilled or undrilled.

Drains.

PVC coupling or flanged FRP.

Discharge transition.

Rectangular to round are available and can be made integral to the fan or separate.

Shaft seals.

Single Teflon® is standard. Depending on application severity, other options available include double and triple Teflon, stuffing box and single or double mechanical.

Guards.

All guards are FRP constructed and can be supplied as full canopy covering motor, drive and shaft; belt drive only and shaft only. All types can be made available OSHA rated.

Flexible connectors.

Standard connectors are EPDM sleeve type with stainless steel draw bands. Flanged flex connectors are also available.

Shafts.

Carbon steel is standard. Stainless steel, Titanium and other alloys and coatings are available as options.

Vibration Isolators.

Rubber vibration isolators, spring vibration isolators or other seismic restraints are available as needs dictate.

Miscellaneous.

Bird screens, back vanes, inlet boxes, vibration monitors, disconnects, zero speed switches, speed controls, dampers, temperature monitoring, inertia bases and sound enclosures are also available.

Hinged & Latch
access door.



Weather canopy
on Arrangement 10 fan.



Custom transition



Split housing for impeller
removed without
disconnecting ductwork



Class Construction

Verantis fans are designed and fabricated to provide safe and reliable performance throughout the full range listed in the tables. In order to assure an adequate safety factor, we have established the following maximum speeds at 70°F. For recommendations on applications above 180°F please contact your Verantis representative.

	CL-II	CL-III	CL-IV
SFPM	10,500	13,500	18,000

How to Select a CLUB Series Fan

Rating table information

Performance ratings shown in the tables for CLUB Series fans are based on:

1. Standard air at the fan inlet, with a density of 0.075 pounds per cubic foot. This corresponds to 70°F and 29.92 inches barometric pressure at sea level.
2. Excluding V-belt drive losses.

Effect of temperature and altitude

For selection of fans handling other than standard air, temperature and altitude must be taken into consideration. Since a fan is a constant volume machine, it will deliver the same volume regardless of the air density. The fan static pressure developed and horsepower required will vary directly with the density.

The density of air is inversely proportional to the absolute temperature (rise in temperature gives a lower density) and directly proportional to the absolute pressure (rise in pressure gives a higher density). For example: The ratio to standard conditions for air at 3,000 ft. altitude (26.81" Hg) and at 250°F would be 0.669.

The temperature-pressure relationship is tabulated below. For gases other than air, the gas density, in relationship to standard air density of 0.075 pound per cubic foot, must also be taken into consideration.

Table of Air Density Factors for Various Temperatures and Altitudes

Air Temp °F	Altitude in Feet Above Sea Level							
	0	1,000	2,000	3,000	4,000	5,000	6,000	7,000
	Barometric Pressure in inches of Mercury							
	29.29	28.86	27.82	26.82	25.84	24.90	23.98	23.09
70	1.000	0.0964	0.0930	0.0896	0.864	0.832	0.801	0.772
100	0.946	0.912	0.880	0.848	0.818	0.787	0.758	0.730
125	0.908	0.875	0.846	0.809	0.784	0.755	0.721	0.700
150	0.869	0.838	0.808	0.770	0.751	0.723	0.696	0.671
175	0.836	0.806	0.777	0.745	0.722	0.695	0.669	0.645
200	0.803	0.774	0.747	0.720	0.694	0.668	0.643	0.620
225	0.775	0.747	0.721	0.694	0.669	0.645	0.620	0.598
250*	0.747	0.720	0.720	0.669	0.645	0.622	0.598	0.576

*Maximum allowable operating temperature for FRP construction.

Fan selection

The cold static method is the most common system for fan selection. This method is based on the assumption that, at constant CFM and RPM, the static pressure and BHP vary inversely as the absolute temperature and directly as the air density.

Example:

A fan is required to handle 5000 ACFM at 5.5" SP at 200°F and 3,000 ft. altitude.

1. Density factor from table 1 = 0.720.
2. Convert sp to standard: 5.5" 0.720=5.85
3. Using the fan performance tables we select a CLUB-1825 fan at a speed of 2574 RPM and 7.03 BHP.

4. Correct BHP to actual conditions: $7.03 \times .72 = 5.06$ BHP.
5. BHP at cold start: density factor at 70°F at 3,000 ft. Elevation is 0.896, Therefore the cold start BHP is: $7.03 \times 0.896 = 6.30$ BHP

Therefore we would select a CLUB-1825 fan to deliver 5000 ACFM at 5.5" SP rotating at 2574 RPM using 6.30 BHP, hence a 7.5 HP motor must be supplied.

CLUB-1500

(BACKWARD CURVED IMPELLER)

Wheel Dia.15" O.D.
Tip Speed (fpm) = 3.93 x RPM

Inlet Dia.14" I.D.
Inlet Area1.07 sq. ft.

Outlet Size15-3/4" x 11-3/4"
Outlet Area = 1.29 sq. ft.

VOL	VEL	1" W.G.		2" W.G.		3" W.G.		4" W.G.		5" W.G.		6" W.G.		7" W.G.		8" W.G.		9" W.G.		10" W.G.		11" W.G.		12" W.G.		13" W.G.		14" W.G.		
		FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CFM																														
700	545	1063	0.18	1460	0.41	1770	0.65	2031	0.91	2261	1.19	2474	1.49	2663	1.80	2840	2.12	3010	2.44	3171	2.78	3317	3.14	3457	3.51	3594	3.90	3728	4.31	
850	662	1087	0.21	1482	0.47	1788	0.76	2047	1.04	2278	1.33	2487	1.66	2678	2.00	2857	2.36	3030	2.73	3186	3.11	3334	3.49	3478	3.87	3618	4.26	3755	4.66	
1000	778	1113	0.23	1505	0.52	1809	0.85	2067	1.18	2295	1.52	2503	1.85	2694	2.20	2873	2.58	3041	2.98	3199	3.39	3351	3.81	3498	4.25	3638	4.69	3768	5.13	
1150	895	1155	0.27	1528	0.57	1831	0.92	2088	1.30	2316	1.68	2521	2.08	2711	2.46	2890	2.83	3057	3.23	3215	3.66	3367	4.11	3511	4.58	3648	5.05	3782	5.53	
1300	1012	1207	0.30	1554	0.62	1854	0.99	2110	1.41	2337	1.83	2542	2.26	2731	2.70	2908	3.15	3074	3.58	3233	4.00	3384	4.44	3527	4.91	3664	5.40	3799	5.91	
1450	1129	1271	0.35	1582	0.67	1879	1.06	2134	1.49	2358	1.97	2563	2.44	2752	2.91	2928	3.40	3093	3.89	3251	4.39	3400	4.87	3543	5.35	3683	5.81	3815	6.32	
1600	1245	1342	0.40	1625	0.74	1905	1.14	2157	1.58	2383	2.06	2585	2.60	2773	3.12	2949	3.64	3115	4.17	3271	4.71	3419	5.25	3562	5.81	3699	6.34			
1750	1362	1417	0.46	1676	0.81	1932	1.21	2183	1.69	2405	2.19	2610	2.71	2796	3.29	2970	3.87	3136	4.43	3292	5.01	3441	5.59	3583	6.18	3719	6.78			
1900	1479	1494	0.53	1732	0.89	1971	1.32	2209	1.80	2431	2.30	2632	2.86	2821	3.43	2994	4.05	3157	4.69	3313	5.30	3462	5.91	3604	6.54	3740	7.18			
2050	1596	1572	0.60	1797	0.99	2021	1.42	2238	1.89	2457	2.45	2657	2.99	2842	3.60	3018	4.21	3182	4.87	3335	5.57	3482	6.24	3625	6.89	3761	7.56			
2200	1712	1652	0.69	1867	1.08	2071	1.53	2278	2.04	2483	2.56	2683	3.17	2868	3.76	3040	4.41	3205	5.06	3360	5.75	3506	6.49	3646	7.23	3782	7.94			
2350	1829	1732	0.78	1941	1.20	2131	1.66	2328	2.17	2516	2.71	2710	3.32	2894	3.96	3065	4.59	3227	5.28	3382	5.98	3531	6.70	3671	7.47	3804	8.28			
2500	1946	1814	0.88	2017	1.32	2197	1.80	2378	2.31	2559	2.89	2738	3.46	2920	4.14	3091	4.82	3253	5.48	3405	6.22	3553	6.96	3695	7.72					
2650	2063	1896	1.00	2094	1.46	2266	1.95	2434	2.47	2610	3.07	2777	3.68	2946	4.29	3117	5.03	3278	5.75	3431	6.45	3576	7.22	3716	8.01					
2800	2179	1981	1.13	2172	1.60	2338	2.10	2498	2.67	2660	3.24	2824	3.89	2782	4.52	3144	5.20	3305	5.99	3457	6.74	3602	7.48	3741	8.28					
2950	2296	2067	1.28	2250	1.76	2414	2.28	2565	2.86	2716	3.44	2875	4.09	3026	4.78	3177	5.44	3331	6.19	3483	7.01	3628	7.81	3767	8.57					
3100	2413	2155	1.43	2330	1.92	2490	2.48	2635	3.05	2779	3.68	2925	4.30	3077	5.02	3218	5.74	3363	6.43	3509	7.23	3654	8.10	3793	8.94					
3250	2530	2243	1.61	2410	2.10	2567	2.68	2708	3.27	2846	3.92	2983	4.55	3127	5.26	3267	6.01	3402	6.77	3540	7.49	3681	8.34	3819	9.25					
3400	2646	2332	1.79	2491	2.30	2645	2.90	2784	3.51	2915	4.15	3046	4.84	3178	5.51	3318	6.29	3449	7.08	3579	7.86	3711	8.62							
3550	2763	2421	1.99	2573	2.52	2723	3.13	2860	3.76	2987	4.41	3113	5.13	3238	5.82	3368	6.57	3500	7.39	3624	8.21	3749	9.02							
3700	2880	2510	2.21	2655	2.76	2802	3.37	2937	4.03	3061	4.69	3182	5.41	3303	6.17	3423	6.88	3550	7.70	3675	8.56	3794	9.41							
3850	2997	2600	2.45	2739	3.01	2882	3.63	3014	4.31	3137	5.00	3253	5.71	3369	6.50	3485	7.25	3601	8.02	3726	8.91									
4000	3113	2690	2.70	2824	3.28	2962	3.90	3092	4.61	3214	5.33	3327	6.05	3439	6.83	3550	7.65	3661	8.42	3776	9.25									
4150	3230	2780	2.97	2911	3.57	3043	4.20	3171	4.92	3291	5.66	3402	6.41	3510	7.17	3618	8.03	3275	8.85											
4300	3347	2871	3.25	2998	3.88	3125	4.52	3250	5.25	3368	6.02	3479	6.79	3583	7.56	3687	8.40	3791	9.29											
4450	3464	2962	3.56	3086	4.21	3207	4.87	3330	5.60	3446	6.39	3555	7.18	3658	7.98	3759	8.80													
4600	3580	3053	3.89	3174	4.55	3289	5.24	3410	5.96	3524	6.78	3632	7.60	3735	8.42															
4750	3697	3144	4.24	3263	4.92	3374	5.62	3491	6.36	3603	7.18	3710	8.03	3811	8.88															
4900	3814	3235	4.59	3352	5.31	3460	6.03	3573	6.78	3683	7.60	3788	8.48																	
5050	3931	3326	4.95	3441	5.73	3546	6.46	3655	7.22	3783	8.04																			

☐ Class I Fans.

☒ Class II Fans.

☒ Class III Fans.

☐ Class IV Fans.

Performance shown is for CLUB fans with outlet duct.
BHP shown does not include belt drive losses.
For static pressure greater than 14" contact Verantis.

CLUB-1825

(BACKWARD CURVED IMPELLER)

Wheel Dia. 18-1/4" O.D. Inlet Dia. 18" I.D. Outlet Size 19-3/16" x 14-3/8"
Tip Speed (fpm) = 4.78 x RPM Inlet Area 1.77 sq. ft. Outlet Area = 1.92 sq. ft.

VOL	VEL	1" W.G.		2" W.G.		3" W.G.		4" W.G.		5" W.G.		6" W.G.		7" W.G.		8" W.G.		9" W.G.		10" W.G.		11" W.G.		12" W.G.		13" W.G.		14" W.G.			
		FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
CFM																															
1200	631	888	0.30	1213	0.68	1465	1.08	1680	1.48	1868	1.91	2040	2.39	2198	2.89	2348	3.41	2485	3.94	2613	4.47	2737	5.02	2857	5.57	2974	6.14	3080	6.74		
1400	736	907	0.33	1230	0.75	1480	1.21	1693	1.68	1881	2.15	2052	2.62	2209	3.14	2357	3.70	2494	4.27	2625	4.87	2753	5.48	2870	6.10	2982	6.72	3090	7.35		
1600	841	931	0.37	1247	0.81	1496	1.32	1708	1.85	1895	2.39	2065	2.93	2223	3.45	2369	4.00	2506	4.60	2638	5.24	2761	5.88	2879	6.54	2994	7.23	3106	7.93		
1800	946	968	0.42	1266	0.87	1514	1.41	1724	2.00	1911	2.59	2080	3.20	2236	3.81	2381	4.41	2520	4.99	2649	5.62	2772	6.29	2891	6.99	3006	7.71	3114	8.43		
2000	1052	1009	0.47	1285	0.94	1531	1.50	1741	2.12	1926	2.79	2095	3.44	2251	4.11	2395	4.79	2532	5.47	2661	6.13	2786	6.78	2904	7.46	3017	8.19	3126	8.94		
2200	1157	1058	0.53	1308	1.01	1550	1.60	1758	2.24	1943	2.95	2111	3.67	2266	4.39	2411	5.12	2547	5.86	2675	6.62	2798	7.36	2916	8.09	3030	8.80	3140	9.52		
2400	1262	1112	0.60	1341	1.11	1569	1.71	1776	2.36	1961	3.08	2128	3.87	2282	4.66	2427	5.43	2562	6.23	2691	7.03	2813	7.85	2930	8.67	3043	9.49	3151	10.3		
2600	1367	1168	0.68	1379	1.20	1589	1.80	1795	2.51	1978	3.24	2146	4.02	2299	4.88	2442	5.74	2578	6.58	2706	7.43	2829	8.30	2945	9.18	3057	10.1	3165	11.0		
2800	1472	1225	0.77	1420	1.31	1618	1.94	1814	2.65	1997	3.40	2162	4.22	2318	5.06	2460	5.98	2593	6.92	2722	7.82	2844	8.73	2961	9.66	3073	10.6	3181	11.5		
3000	1577	1282	0.87	1469	1.44	1655	2.08	1835	2.77	2016	3.59	2181	4.40	2333	5.29	2478	6.19	2612	7.17	2738	8.19	2859	9.16	2977	10.1	3089	11.1	3196	12.1		
3200	1683	1341	0.98	1520	1.57	1692	2.22	1863	2.96	2035	3.75	2200	4.63	2352	5.50	2494	6.45	2630	7.41	2757	8.44	2876	9.53	2992	10.6	3104	11.6	3212	12.6		
3400	1788	1400	1.10	1574	1.71	1733	2.38	1898	3.15	2057	3.92	2219	4.84	2371	5.75	2512	6.69	2646	7.71	2774	8.73	2895	9.80	3010	10.9	3120	12.1	3227	13.2		
3600	1893	1460	1.23	1630	1.87	1781	2.58	1936	3.33	2086	4.16	2239	5.01	2390	6.02	2531	6.96	2664	7.98	2790	9.05	2912	10.1	3028	11.2	3138	12.4	3244	13.7		
3800	1998	1521	1.38	1686	2.04	1831	2.76	1973	3.52	2122	4.40	2264	5.26	2410	6.23	2550	7.28	2683	8.27	2808	9.35	2928	10.5	3045	11.6	3157	12.8	3263	14.0		
4000	2103	1582	1.55	1743	2.23	1883	2.96	2018	3.76	2160	4.63	2295	5.55	2431	6.46	2570	7.54	2702	8.64	2828	9.68	2947	10.8	3061	12.0	3172	13.2	3281	14.4		
4200	2208	1646	1.73	1801	2.43	1937	3.18	2067	4.02	2197	4.86	2332	5.83	2459	6.79	2590	7.77	2722	8.95	2847	10.1	2966	11.2	3080	12.4	3190	13.6	3296	14.9		
4400	2314	1710	1.92	1859	2.64	1993	3.42	2117	4.27	2240	5.14	2369	6.11	2493	7.12	2616	8.12	2741	9.19	2866	10.4	2985	11.6	3099	12.8	3208	14.0	3314	15.3		
4600	2419	1775	2.14	1918	2.86	2050	3.68	2169	4.52	2287	5.46	2406	6.38	2531	7.45	2647	8.51	2765	9.54	2886	10.7	3005	12.0	3118	13.3	3228	14.5	3333	15.7		
4800	2524	1840	2.37	1978	3.10	2107	3.95	2223	4.82	2336	5.78	2449	6.72	2568	7.77	2683	8.88	2794	9.99	2908	11.1	3024	12.3	3138	13.7	3247	15.0	3352	16.2		
5000	2629	1905	2.61	2038	3.37	2164	4.24	2279	5.14	2387	6.10	2496	7.10	2605	8.10	2721	9.25	2829	10.4	2936	11.5	3046	12.7	3157	14.0	3266	15.4	3371	16.8		
5200	2734	1971	2.88	2098	3.65	2222	4.55	2335	5.48	2440	6.42	2545	7.49	2649	8.50	2758	9.62	2867	10.8	2969	12.0	3073	13.2	3179	14.4	3286	15.8	3391	17.3		
5400	2839	2037	3.16	2159	3.96	2280	4.86	2392	5.83	2495	6.80	2595	7.87	2696	8.95	2796	10.0	2904	11.2	3006	12.5	3105	13.7	3205	14.9	3307	16.2	3410	17.7		
5600	2945	2104	3.46	2220	4.29	2339	5.20	2449	6.20	2551	7.20	2647	8.25	2745	9.40	2841	10.5	2941	11.7	3044	13.0	3141	14.2	3236	15.5	3333	16.8	3431	18.1		
5800	3050	2170	3.78	2283	4.63	2399	5.55	2507	6.58	2607	7.62	2701	8.67	2795	9.84	2888	11.0	2982	12.1	3081	13.4	3179	14.8	3271	16.1	3363	17.4	3458	18.7		
6000	3155	2237	4.13	2347	5.00	2458	5.93	2565	6.99	2664	8.06	2756	9.13	2847	10.3	2937	11.5	3027	12.7	3119	13.9	3216	15.3	3309	16.7	3398	18.0	3487	19.4		
6200	3260	2304	4.50	2411	5.40	2518	6.34	2623	7.41	2721	8.52	2812	9.63	2900	10.8	2988	12.0	3075	13.3	3162	14.5	3253	15.8	3346	17.2	3436	18.6				
6400	3365	2371	4.89	2475	5.81	2579	6.77	2682	7.85	2778	8.99	2869	10.1	2955	11.3	3040	12.5	3125	13.8	3209	15.1	3294	16.4	3383	17.8	3473	19.2				
6600	3470	2438	5.30	2540	6.25	2640	7.24	2741	8.31	2836	9.49	2926	10.7	3011	11.8	3093	13.1	3175	14.4	3257	15.8	3339	17.0	3422	18.4						
6800	3576	2506	5.74	2606	6.72	2701	7.73	2800	8.80	2894	10.0	2983	11.2	3067	12.4	3147	13.7	3227	15.0	3307	16.4	3387	17.7	3466	19.1						
7000	3681	2573	6.20	2671	7.21	2763	8.24	2860	9.32	2953	10.5	3040	11.8	3124	13.0	3203	14.3	3280	15.6	3358	17.0	3436	18.5								

☐ Class I Fans. ☒ Class II Fans. ☒ Class III Fans. ☐ Class IV Fans.

Performance shown is for CLUB fans with outlet duct.
BHP shown does not include belt drive losses.
For static pressure greater than 14" contact Verantis.

CLUB-2225

(BACKWARD CURVED IMPELLER)

Wheel Dia.22-1/4" O.D.Outlet Size23-3/8" x 17-1/2"

Tip Speed (fpm) =5.83 x RPMInlet Dia.22" I.D.Outlet Area =2.84 sq. ft.

VOL	VEL	1" W.G.		2" W.G.		3" W.G.		4" W.G.		5" W.G.		6" W.G.		7" W.G.		8" W.G.		9" W.G.		10" W.G.		11" W.G.		12" W.G.		13" W.G.		14" W.G.	
		CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2750	973	802	0.64	1042	1.32	1246	2.12	1417	3.03	1570	3.92	1709	4.84	1836	5.78	1956	6.71	2068	7.61	2176	8.51	2277	9.5	2374	10.5	2468	11.6	2557	12.7
3000	1061	831	0.71	1055	1.41	1257	2.24	1430	3.17	1581	4.17	1720	5.14	1847	6.15	1966	7.17	2078	8.19	2184	9.18	2286	10.2	2383	11.2	2475	12.2	2565	13.4
3250	1150	865	0.79	1071	1.50	1270	2.36	1441	3.32	1593	4.37	1730	5.44	1858	6.49	1977	7.58	2088	8.68	2194	9.79	2294	10.9	2391	12.0	2484	13.0	2575	14.1
3500	1238	902	0.87	1093	1.62	1283	2.51	1453	3.47	1606	4.53	1742	5.70	1869	6.83	1987	7.97	2099	9.14	2204	10.3	2304	11.5	2401	12.7	2493	13.9	2582	15.0
3750	1327	940	0.97	1119	1.73	1297	2.62	1466	3.63	1617	4.73	1755	5.88	1880	7.15	1998	8.36	2110	9.58	2215	10.8	2315	12.1	2411	13.4	2503	14.6	2592	15.9
4000	1415	979	1.08	1145	1.85	1314	2.77	1479	3.83	1629	4.92	1766	6.11	1893	7.37	2009	8.72	2120	10.0	2226	11.3	2326	12.6	2422	14.0	2514	15.3	2602	16.7
4250	1503	1018	1.19	1177	2.00	1335	2.95	1493	3.99	1642	5.14	1778	6.35	1905	7.62	2022	8.97	2131	10.4	2236	11.8	2337	13.2	2432	14.6	2524	16.0	2613	17.4
4500	1592	1058	1.32	1210	2.17	1361	3.12	1508	4.15	1656	5.38	1791	6.58	1916	7.91	2034	9.26	2144	10.7	2248	12.2	2347	13.7	2443	15.1	2535	16.6	2623	18.1
4750	1680	1099	1.46	1246	2.32	1387	3.30	1527	4.40	1669	5.58	1804	6.87	1928	8.17	2045	9.58	2157	11.0	2261	12.5	2359	14.2	2454	15.7	2546	17.2	2635	18.8
5000	1769	1140	1.60	1283	2.50	1415	3.49	1551	4.63	1684	5.77	1817	7.14	1942	8.46	2058	9.88	2167	11.4	2273	12.9	2372	14.5	2466	16.2	2556	17.9	2645	19.5
5250	1857	1181	1.76	1321	2.69	1447	3.73	1578	4.86	1703	6.06	1831	7.37	1955	8.82	2071	10.2	2180	11.7	2284	13.3	2384	14.9	2479	16.6	2569	18.3	2656	20.1
5500	1946	1223	1.94	1360	2.91	1481	3.97	1603	5.09	1725	6.36	1846	7.61	1968	9.11	2084	10.6	2193	12.1	2296	13.7	2395	15.3	2491	17.0	2582	18.7	2669	20.6
5750	2034	1265	2.14	1399	3.13	1516	4.20	1631	5.35	1751	6.65	1865	7.97	1982	9.36	2097	11.0	2206	12.5	2309	14.1	2407	15.8	2502	17.5	2594	19.2	2682	21.0
6000	2123	1307	2.35	1499	3.37	1552	4.45	1662	5.66	1777	6.94	1888	8.33	1998	9.68	2111	11.3	2219	12.9	2322	14.5	2420	16.2	2514	17.9	2605	19.7	2693	21.5
6250	2211	1351	2.58	1478	3.61	1590	4.73	1696	5.98	1803	7.23	1913	8.67	2018	10.1	2125	11.6	2233	13.3	2335	15.0	2433	16.6	2527	18.4	2617	20.2	2704	22.1
6500	2299	1395	2.82	1519	3.88	1629	5.04	1731	6.30	1832	7.58	1939	9.02	2041	10.5	2143	12.0	2246	13.6	2349	15.4	2446	17.2	2540	18.9	2629	20.7	2716	22.6
6750	2388	1440	3.08	1559	4.15	1668	5.36	1766	6.61	1864	7.97	1965	9.37	2066	10.9	2163	12.5	2262	14.0	2362	15.8	2460	17.7	2553	19.5	2643	21.3	2729	23.2
7000	2476	1485	3.36	1600	4.44	1707	5.69	1803	6.96	1898	8.38	1992	9.75	2092	11.3	2187	13.0	2281	14.5	2376	16.2	2473	18.1	2566	20.1	2656	21.9	2742	23.7
7250	2565	1530	3.66	1641	4.76	1746	6.04	1841	7.34	1932	8.77	2023	10.2	2118	11.7	2213	13.4	2302	15.1	2394	16.7	2487	18.5	2580	20.5	2669	22.5	2755	24.5
7500	2653	1575	3.97	1683	5.10	1786	6.41	1880	7.75	1968	9.17	2056	10.7	2145	12.2	2239	13.9	2327	15.6	2414	17.3	2503	19.0	2593	21.0	2683	23.1	2769	25.1
7750	2742	1621	4.31	1724	5.46	1826	6.79	1919	8.17	2005	9.59	2090	11.2	2175	12.7	2264	14.3	2354	16.1	2437	17.9	2522	19.7	2609	21.5	2696	23.5	2782	25.7
8000	2830	1666	4.66	1766	5.84	1866	7.19	1958	8.61	2042	10.1	2125	11.6	2208	13.2	2291	14.8	2379	16.7	2463	18.5	2544	20.4	2627	22.1	2710	24.0	2796	26.2
8250	2918	1712	5.03	1808	6.25	1907	7.60	1997	9.07	2081	10.5	2161	12.1	2241	13.8	2321	15.4	2405	17.2	2489	19.1	2568	21.0	2648	22.9	2728	24.7	2809	26.7
8500	3007	1758	5.43	1851	6.67	1948	8.03	2037	9.55	2120	11.1	2198	12.6	2276	14.4	2353	16.0	2431	17.7	2515	19.7	2595	21.6	2671	23.6	2748	25.5	2827	27.4
8750	3095	1804	5.84	1895	7.12	1989	8.49	2076	10.0	2159	11.6	2235	13.2	2311	14.9	2386	16.7	2462	18.4	2540	20.2	2621	22.3	2696	24.3	2771	26.3	2846	28.3
9000	3184	1850	6.28	1939	7.60	2030	8.98	2117	10.6	2198	12.2	2273	13.8	2347	15.5	2421	17.3	2494	19.1	2568	20.9	2646	22.9	2723	25.0	2795	27.1	2868	29.1
9250	3272	1896	6.75	1983	8.09	2071	9.50	2157	11.1	2237	12.7	2312	14.4	2384	16.1	2456	18.0	2527	19.8	2598	21.6	2672	23.5	2748	25.7	2822	27.8	2892	30.0
9500	3361	1943	7.24	2028	8.61	2113	10.0	2197	11.6	2277	13.3	2351	15.0	2422	16.7	2491	18.6	2561	20.5	2630	22.4	2700	24.3	2774	26.4	2848	28.6	2918	30.8
9750	3449	1989	7.75	2073	9.16	2155	10.6	2238	12.2	2316	14.0	2390	15.7	2460	17.4	2528	19.2	2596	21.3	2664	23.2	2731	25.1	2800	27.1	2873	29.3	2944	31.6
10000	3538	2035	8.29	2118	9.73	2197	11.2	2279	12.8	2356	14.6	2430	16.4	2499	18.2	2565	20.0	2631	22.0	2698	24.0	2763	26.0	2830	27.9	2899	30.1	2969	32.4

☐ Class I Fans.

☒ Class II Fans.

☒ Class III Fans.

☐ Class IV Fans.

Performance shown is for CLUB fans with outlet duct.
BHP shown does not include belt drive losses.
For static pressure greater than 14" contact Verantis.

CLUB-2550

(BACKWARD CURVED IMPELLER)

Wheel Dia.

25-1/2" O.D.

Inlet Dia.

24" I.D.

Outlet Size

26-3/4" x 20"

Tip Speed (fpm) =

6.68 x RPM

Inlet Area

3.14 sq. ft.

Outlet Area =

3.72 sq. ft.

VOL	VEL	1" W.G.		2" W.G.		3" W.G.		4" W.G.		5" W.G.		6" W.G.		7" W.G.		8" W.G.		9" W.G.		10" W.G.		11" W.G.		12" W.G.		13" W.G.		14" W.G.		
		FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CFM																														
6500	1751	987	2.1	1112	3.2	1229	4.5	1349	6.0	1466	7.5	1583	9.3	1692	11.0	1793	12.9	1889	14.8	1981	16.8	2067	18.9	2149	21.2	2229	23.3	2306	25.4	
6750	1818	1014	2.2	1138	3.4	1250	4.7	1366	6.2	1478	7.8	1592	9.6	1701	11.4	1802	13.2	1897	15.2	1988	17.2	2076	19.3	2158	21.5	2236	23.8	2313	26.0	
7000	1885	1042	2.4	1163	3.6	1272	5.0	1384	6.5	1492	8.1	1601	9.8	1709	11.7	1811	13.5	1905	15.5	1996	17.6	2083	19.7	2166	21.9	2245	24.2	2321	26.6	
7250	1953	1070	2.6	1189	3.8	1294	5.2	1400	6.7	1507	8.4	1612	10.0	1718	12.0	1819	14.0	1914	15.9	2004	18.0	2090	20.2	2174	22.4	2254	24.6	2329	27.1	
7500	2020	1098	2.8	1215	4.1	1318	5.5	1419	7.0	1524	8.7	1625	10.4	1727	12.2	1828	14.3	1923	16.3	2013	18.4	2098	20.6	2181	22.8	2262	25.1	2338	27.5	
7750	2087	1126	3.0	1241	4.3	1342	5.7	1439	7.3	1542	9.0	1639	10.8	1737	12.5	1837	14.7	1932	16.8	2022	18.8	2107	21.0	2189	23.3	2269	25.6	2346	28.0	
8000	2155	1154	3.2	1268	4.5	1366	6.0	1461	7.6	1559	9.2	1655	11.1	1749	12.9	1846	14.9	1941	17.2	2030	19.3	2116	21.4	2197	23.8	2276	26.2	2353	28.6	
8250	2222	1184	3.4	1294	4.8	1392	6.3	1484	7.9	1576	9.5	1672	11.5	1763	13.4	1856	15.2	1950	17.5	2039	19.8	2124	21.9	2206	24.2	2284	26.7	2361	29.1	
8500	2289	1213	3.7	1321	5.0	1417	6.6	1507	8.2	1595	9.9	1690	11.8	1778	13.8	1868	15.7	1958	17.8	2048	20.2	2133	22.5	2215	24.7	2293	27.1	2369	29.7	
8750	2357	1243	3.9	1348	5.3	1443	6.9	1530	8.5	1617	10.3	1706	12.1	1795	14.2	1881	16.2	1968	18.2	2057	20.6	2142	23.0	2224	25.3	2302	27.7	2377	30.2	
9000	2424	1272	4.2	1375	5.6	1469	7.2	1554	8.9	1639	10.7	1723	12.5	1813	14.6	1896	16.7	1980	18.7	2066	21.0	2151	23.5	2232	25.9	2311	28.3	2386	30.7	
9250	2491	1302	4.5	1402	5.9	1495	7.5	1579	9.2	1661	11.1	1743	12.9	1830	15.0	1912	17.1	1993	19.2	2076	21.4	2160	23.9	2241	26.5	2319	28.9	2395	31.3	
9500	2559	1332	4.8	1429	6.2	1521	7.9	1604	9.6	1684	11.5	1764	13.4	1846	15.4	1929	17.6	2008	19.8	2088	21.9	2169	24.3	2250	26.9	2328	29.6	2403	32.1	
9750	2626	1362	5.1	1457	6.5	1548	8.3	1630	10.0	1708	11.9	1785	13.8	1863	15.8	1946	18.0	2024	20.3	2101	22.5	2179	24.7	2259	27.4	2337	30.1	2412	32.7	
10000	2693	1392	5.4	1485	6.9	1574	8.6	1656	10.4	1732	12.3	1808	14.3	1883	16.3	1963	18.5	2041	20.8	2115	23.1	2192	25.4	2268	27.8	2346	30.6	2421	33.4	
10250	2761	1423	5.7	1512	7.3	1601	9.0	1682	10.9	1756	12.7	1830	14.8	1904	16.8	1980	19.0	2058	21.3	2131	23.7	2205	26.0	2279	28.4	2355	31.0	2430	33.9	
10500	2828	1453	6.1	1540	7.7	1628	9.4	1708	11.3	1781	13.2	1854	15.3	1925	17.4	1998	19.5	2075	21.9	2148	24.3	2219	26.7	2292	29.0	2365	31.5	2439	34.4	
10750	2895	1483	6.5	1568	8.1	1654	9.8	1734	11.8	1807	13.7	1877	15.8	1948	18.0	2018	20.0	2092	22.4	2166	24.9	2235	27.4	2305	29.8	2376	32.2	2448	34.9	
11000	2963	1514	6.9	1596	8.5	1681	10.3	1760	12.2	1832	14.2	1901	16.2	1970	18.5	2039	20.6	2109	22.9	2183	25.4	2252	28.0	2320	30.5	2389	33.0	2459	35.5	
11250	3030	1544	7.3	1625	8.9	1709	10.7	1786	12.7	1858	14.7	1926	16.8	1993	19.1	2061	21.3	2128	23.5	2200	26.0	2270	28.6	2336	31.2	2403	33.8	2471	36.3	
11500	3097	1575	7.7	1654	9.4	1736	11.2	1813	13.2	1884	15.3	1951	17.3	2017	19.6	2083	22.0	2149	24.2	2217	26.6	2287	29.3	2353	31.9	2418	34.6	2484	37.2	
11750	3165	1606	8.1	1684	9.8	1763	11.7	1839	13.7	1910	15.8	1976	17.9	2041	20.2	2106	22.6	2170	24.9	2235	27.2	2304	29.9	2371	32.6	2434	35.3	2498	38.1	
12000	3232	1636	8.6	1713	10.3	1791	12.2	1866	14.2	1936	16.4	2002	18.5	2065	20.7	2129	23.2	2192	25.6	2255	27.9	2321	30.5	2388	33.3	2451	36.1			
12250	3299	1667	9.1	1743	10.8	1819	12.7	1893	14.8	1962	17.0	2028	19.2	2090	21.4	2152	23.8	2214	26.3	2275	28.7	2338	31.2	2405	34.0	2469	36.8			
12500	3367	1698	9.5	1772	11.4	1846	13.2	1920	15.3	1989	17.6	2054	19.8	2115	22.1	2176	24.5	2237	27.1	2297	29.5	2358	32.0	2422	34.7	2486	37.6			
12750	3434	1728	10.1	1802	11.9	1874	13.8	1947	15.9	2015	18.2	2080	20.5	2141	22.7	2200	25.1	2260	27.8	2319	30.3	2378	32.8	2439	35.4					
13000	3501	1759	10.6	1832	12.5	1902	14.4	1974	16.5	2042	18.8	2106	21.1	2166	23.5	2225	25.8	2283	28.5	2342	31.1	2400	33.6	2458	36.2					
13250	3569	1790	11.1	1862	13.1	1930	15.0	2001	17.1	2068	19.5	2132	21.8	2192	24.2	2250	26.6	2307	29.2	2364	31.9	2421	34.5	2478	37.1					
13500	3636	1821	11.7	1892	13.7	1958	15.7	2029	17.8	2095	20.1	2158	22.5	2218	25.0	2275	27.4	2331	29.9	2388	32.7	2444	35.5	2500	38.0					
13750	3703	1852	12.3	1922	14.3	1987	16.3	2056	18.4	2122	20.8	2185	23.3	2244	25.7	2301	28.2	2356	30.7	2411	33.5	2466	36.3							

☐ Class I Fans.

☒ Class II Fans.

☒ Class III Fans.

☐ Class IV Fans.

Performance shown is for CLUB fans with outlet duct.
BHP shown does not include belt drive losses.
For static pressure greater than 14" contact Verantis.

CLUB-3000

(BACKWARD CURVED IMPELLER)

Wheel Dia.30" O.D. Inlet Dia.30" I.D. Outlet Size30-1/2" x 22-3/4"

Tip Speed (fpm) =7.85 x RPM Inlet Area4.91 sq. ft. Outlet Area =4.85 sq. ft.

VOL	VEL	1" W.G.		2" W.G.		3" W.G.		4" W.G.		5" W.G.	6" W.G.		7" W.G.		8" W.G.		9" W.G.		10" W.G.		11" W.G.		12" W.G.		13" W.G.		14" W.G.				
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
CFM	FPM																														
4000	845	535	0.8	715	1.6	866	2.6	995	3.6	1109	4.7	1214	5.8	1309	7.0																
4500	951	552	0.9	724	1.8	871	2.8	999	4.0	1112	5.1	1216	6.3	1311	7.6	1401	8.8	1485	10.1												
5000	1056	570	1.0	736	2.0	876	3.1	1004	4.3	1117	5.5	1219	6.8	1314	8.1	1403	9.5	1487	10.9	1566	12.3	1641	13.8								
5500	1162	592	1.2	751	2.2	886	3.3	1010	4.6	1122	5.9	1224	7.2	1318	8.6	1406	10.1	1489	11.6	1568	13.1	1644	14.6	1716	16.2	1875	17.8	1851	19.4		
6000	1267	615	1.3	767	2.4	898	3.6	1015	4.9	1127	6.3	1228	7.7	1322	9.2	1410	10.7	1492	12.3	1570	13.9	1645	15.5	1717	17.1	1787	18.8	1854	20.5	1947	21.6
6500	1373	641	1.5	785	2.6	913	3.8	1027	5.2	1132	6.6	1234	8.2	1327	9.7	1415	11.3	1497	13.0	1575	14.6	1649	16.4	1720	18.1	1789	19.9	1855	21.6		
7000	1479	668	1.7	803	2.8	929	4.2	1039	5.5	1142	7.0	1239	8.6	1333	10.3	1419	12.0	1501	13.7	1579	15.4	1653	17.2	1724	19.0	1792	20.9	1858	22.8	1947	23.9
7500	1584	695	1.9	825	3.1	945	4.5	1054	5.9	1154	7.5	1247	9.1	1338	10.8	1425	12.6	1506	14.4	1583	16.2	1658	18.1	1728	20.0	1796	21.9	1861	23.9	1947	24.9
8000	1690	722	2.1	848	3.4	963	4.8	1070	6.3	1166	7.9	1259	9.6	1345	11.3	1430	13.2	1512	15.0	1588	17.0	1662	18.9	1733	20.9	1801	22.9	1866	24.9		
8500	1796	749	2.3	871	3.7	981	5.1	1086	6.7	1182	8.4	1270	10.1	1356	11.9	1436	13.8	1517	15.7	1594	17.7	1667	19.8	1737	21.8	1805	23.9	1870	26.0	1947	27.1
9000	1901	777	2.6	896	4.1	1002	5.5	1104	7.2	1198	8.9	1285	10.6	1368	12.5	1448	14.4	1523	16.4	1599	18.5	1673	20.6	1743	22.7	1810	24.9	1875	27.1	1947	28.2
9500	2007	806	2.8	923	4.5	1025	6.0	1121	7.6	1214	9.4	1300	11.2	1380	13.1	1460	15.1	1534	17.1	1606	19.2	1678	21.4	1749	23.6	1815	25.9	1880	28.2		
10000	2112	836	3.1	950	4.9	1047	6.4	1140	8.1	1232	10.0	1316	11.9	1396	13.8	1471	15.8	1547	17.9	1617	20.1	1685	22.3	1753	24.5	1821	26.9	1886	29.2	1947	30.3
10500	2218	868	3.5	977	5.3	1071	6.9	1162	8.6	1249	10.5	1333	12.5	1412	14.5	1487	16.6	1558	18.7	1629	20.9	1696	23.2	1761	25.5	1825	27.8	1892	30.3	1947	31.3
11000	2324	900	3.8	1004	5.7	1097	7.5	1185	9.2	1268	11.1	1351	13.1	1428	15.2	1503	17.3	1572	19.5	1640	21.8	1709	24.1	1773	26.5	1834	28.9	1896			
11500	2429	932	4.2	1031	6.1	1124	8.1	1207	9.9	1288	11.7	1369	13.8	1446	16.0	1519	18.2	1588	20.4	1655	22.7	1720	25.0	1785	27.5	1846	29.9	1906	32.5		
12000	2535	964	4.6	1058	6.6	1150	8.7	1230	10.5	1311	12.5	1387	14.5	1463	16.7	1535	19.0	1604	21.3	1670	23.7	1733	26.0	1796	28.5	1859	31.0	1917	33.6		
12500	2640	996	5.0	1086	7.1	1177	9.3	1256	11.2	1334	13.2	1407	15.3	1481	17.5	1553	19.9	1620	22.3	1686	24.7	1749	27.1	1809	29.6	1869	32.2	1930	34.8		
13000	2746	1029	5.5	1114	7.6	1205	9.9	1283	12.0	1356	14.0	1429	16.1	1499	18.4	1570	20.8	1638	23.2	1702	25.7	1765	28.2	1825	30.8	1883	33.3	1941	36.0		
13500	2852	1062	6.0	1143	8.1	1232	10.5	1309	12.7	1380	14.8	1452	17.0	1519	19.2	1588	21.7	1656	24.2	1719	26.8	1781	29.3	1841	31.9	1899	34.6	1954	37.3	1947	38.6
14000	2957	1095	6.6	1174	8.7	1258	11.1	1336	13.5	1405	15.7	1475	17.9	1542	20.2	1607	22.6	1673	25.2	1737	27.8	1797	30.5	1857	33.2	1915	35.9	1970	38.6		
14500	3063	1129	7.1	1206	9.3	1285	11.8	1363	14.4	1432	16.7	1498	18.9	1565	21.3	1627	23.6	1691	26.2	1755	28.9	1815	31.7	1873	34.4	1931	37.2	1986	40.0		
15000	3169	1163	7.7	1238	10.0	1313	12.5	1390	15.2	1459	17.6	1522	19.9	1587	22.3	1650	24.8	1710	27.3	1772	30.1	1833	32.9	1891	35.7	1947	38.6				
15500	3274	1197	8.4	1269	10.7	1341	13.2	1417	16.0	1485	18.6	1548	21.0	1610	23.5	1673	26.0	1731	28.5	1791	31.2	1850	34.1	1909	37.0	1964	40.0				
16000	3380	1231	9.1	1301	11.5	1368	14.0	1444	16.9	1512	19.6	1575	22.2	1634	24.6	1695	27.2	1754	29.8	1810	32.5	1869	35.4	1926	38.4	1982	41.4				
16500	3485	1266	9.9	1333	12.3	1398	14.8	1471	17.7	1540	20.7	1601	23.3	1659	25.9	1718	28.5	1777	31.2	1832	33.9	1887	36.7	1944	39.7	1999	42.8				
17000	3591	1300	10.6	1365	13.1	1429	15.7	1498	18.7	1567	21.7	1628	24.5	1686	27.2	1741	29.8	1800	32.5	1855	35.3	1908	38.1	1962	41.1						
17500	3697	1335	11.5	1397	13.9	1460	16.6	1526	19.6	1594	22.8	1655	25.7	1713	28.5	1766	31.2	1822	34.0	1878	36.8	1930	39.7	1982	42.6						
18000	3802	1369	12.3	1430	14.9	1492	17.6	1554	20.6	1620	23.8	1682	27.0	1739	29.9	1793	32.7	1845	35.5	1901	38.4	1954	41.3								
18500	3908	1404	13.3	1463	15.8	1524	18.7	1582	21.6	1648	24.9	1710	28.2	1766	31.3	1820	34.2	1870	37.0	1923	40.0	1976	43.0								

☐ Class I Fans.

☒ Class II Fans.

☒ Class III Fans.

☐ Class IV Fans.

Performance shown is for CLUB fans with outlet duct.
BHP shown does not include belt drive losses.
For static pressure greater than 14" contact Verantis.

CLUB-3650

(BACKWARD CURVED IMPELLER)

Wheel Dia.36-1/2" O.D. Inlet Dia.36" I.D. Outlet Size37-1/8" x 27-5/8"

Tip Speed (fpm) =9.42 x RPM Inlet Area7.07 sq. ft. Outlet Area =7.12 sq. ft.

VOL	1" W.G.		2" W.G.		3" W.G.		4" W.G.		5" W.G.	6" W.G.		7" W.G.		8" W.G.	9" W.G.		10" W.G.	11" W.G.		12" W.G.		13" W.G.		14" W.G.	
	VEL	FPM	RPM	BHP	RPM	BHP	RPM	BHP		RPM	BHP	RPM	BHP		RPM	BHP		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CFM																									
6250	892	445	1.2	590	2.5	714	4.0	819	5.6	913	7.2	998	8.9	1077	10.7	1150	12.5	1221	15.5	1286	17.6				
7000	999	460	1.4	600	2.8	718	4.4	823	6.1	916	7.8	1000	9.7	1079	11.5	1152	13.5	1221	15.5	1286	17.6				
7750	1106	477	1.6	611	3.1	723	4.7	827	6.5	920	8.4	1004	10.4	1081	12.4	1154	14.5	1223	16.6	1288	18.7	1350	21.0	1409	23.2
8500	1213	496	1.8	624	3.4	733	5.1	832	7.0	924	9.0	1008	11.1	1085	13.2	1157	15.4	1225	17.6	1290	19.9	1352	22.3	1411	24.7
9250	1320	516	2.1	638	3.7	744	5.5	839	7.4	929	9.5	1012	11.7	1089	14.0	1161	16.3	1228	18.7	1292	21.1	1354	23.6	1413	26.1
10000	1427	538	2.4	653	4.0	757	5.9	849	7.9	934	10.1	1017	12.4	1093	14.8	1164	17.3	1232	19.7	1296	22.3	1357	24.9	1415	27.5
10750	1534	561	2.7	669	4.4	770	6.4	860	8.5	944	10.7	1021	13.1	1098	15.6	1169	18.2	1236	20.8	1300	23.4	1361	26.1	1419	28.9
11500	1641	583	3.0	688	4.8	785	6.9	873	9.1	953	11.4	1030	13.8	1102	16.4	1174	19.1	1240	21.8	1304	24.6	1364	27.4	1422	30.3
12250	1748	606	3.3	707	5.3	800	7.4	886	9.7	965	12.1	1040	14.6	1110	17.2	1177	20.0	1245	22.8	1308	25.7	1368	28.7	1426	31.7
13000	1855	629	3.7	727	5.8	816	7.9	901	10.3	979	12.8	1050	15.4	1120	18.1	1186	20.9	1259	23.8	1313	26.9	1373	29.9	1430	33.1
13750	1962	652	4.0	750	6.4	834	8.6	915	11.0	992	13.6	1063	16.3	1130	19.0	1196	21.9	1257	24.9	1317	28.0	1378	31.2	1435	34.4
14500	2069	677	4.5	772	7.0	853	9.3	931	11.7	1006	14.4	1077	17.2	1142	20.0	1205	23.0	1267	26.0	1325	29.2	1381	32.4	1440	35.8
15250	2176	703	4.9	794	7.6	872	10.0	947	12.5	1021	15.2	1090	18.1	1156	21.0	1217	24.1	1277	27.2	1335	30.4	1390	33.7	1444	37.1
16000	2283	730	5.5	817	8.2	893	10.8	967	13.3	1036	16.1	1105	19.1	1169	22.1	1230	25.2	1287	28.4	1345	31.7	1401	35.1	1453	38.6
16750	2390	756	6.0	839	8.8	915	11.6	985	14.2	1052	17.0	1119	20.1	1183	23.2	1243	26.4	1301	29.7	1355	33.1	1410	36.5	1463	40.1
17500	2497	783	6.6	862	9.5	937	12.5	1004	15.2	1071	18.0	1134	21.1	1198	24.2	1257	27.7	1314	31.1	1368	34.5	1420	38.0	1473	41.6
18250	2604	810	7.2	885	10.2	960	13.4	1025	16.2	1090	19.2	1150	22.2	1212	25.5	1271	29.0	1327	32.5	1382	36.0	1433	39.6	1483	43.2
19000	2711	837	7.9	908	10.9	983	14.3	1047	17.3	1109	20.3	1168	23.4	1227	26.8	1286	30.3	1341	33.9	1395	37.5	1447	41.2	1496	44.9
19750	2818	864	8.7	932	11.7	1005	15.3	1069	18.5	1128	21.6	1188	24.8	1243	28.0	1301	31.7	1356	35.4	1408	39.1	1460	42.9	1509	46.7
20500	2925	892	9.4	957	12.6	1028	16.2	1091	19.7	1148	22.9	1207	26.1	1261	29.5	1316	33.1	1371	36.9	1423	40.7	1473	44.6	1523	48.5
21250	3032	920	10.3	983	13.5	1050	17.2	1114	20.9	1170	24.2	1226	27.6	1281	31.0	1332	34.5	1386	38.4	1438	42.4	1488	46.4	1536	50.4
22000	3139	948	11.2	1010	14.5	1073	18.2	1137	22.1	1193	25.7	1245	29.1	1300	32.6	1351	36.2	1401	40.0	1453	44.0	1503	48.2	1550	52.4
22750	3246	977	12.2	1036	15.6	1096	19.3	1159	23.4	1215	27.2	1266	30.7	1319	34.3	1370	38.0	1418	41.7	1468	45.8	1517	50.0	1565	54.3
23500	3353	1005	13.3	1063	16.7	1119	20.4	1181	24.7	1237	28.7	1289	32.4	1338	36.0	1389	39.8	1437	43.6	1484	47.6	1532	51.9	1580	56.3
24250	3461	1034	14.3	1089	17.9	1143	21.6	1204	26.0	1260	30.2	1311	34.1	1359	37.8	1408	41.7	1456	45.7	1501	49.6	1548	53.8		
25000	3568	1062	15.5	1116	19.1	1169	22.9	1227	27.3	1283	31.8	1333	35.9	1381	39.8	1427	43.7	1475	47.7	1520	51.8	1564	55.9		
25750	3675	1091	16.7	1143	20.4	1195	24.3	1249	28.7	1305	33.4	1356	37.7	1403	41.8	1447	45.7	1494	49.8	1540	54.0	1583	58.2		
26500	3782	1120	18.0	1170	21.7	1221	25.8	1272	30.2	1328	34.9	1378	39.6	1425	43.8	1469	47.9	1513	52.1	1558	56.3				
27250	3889	1149	19.4	1197	23.1	1248	27.3	1296	31.7	1350	36.6	1401	41.4	1447	45.9	1492	50.2	1533	54.4	1577	58.7				
28000	3996	1178	20.8	1225	24.6	1274	28.9	1320	33.3	1373	38.3	1424	43.3	1470	48.1	1514	52.5	1555	56.8						

☐ Class I Fans.

☒ Class II Fans.

☒ Class III Fans.

☐ Class IV Fans.

Performance shown is for CLUB fans with outlet duct.
BHP shown does not include belt drive losses.
For static pressure greater than 14" contact Verantis.

CLUB-4450

(BACKWARD CURVED IMPELLER)

Wheel Dia.44-1/2" O.D. Inlet Dia.42" I.D. Outlet Size45-1/2" x 33-3/4"

Tip Speed (fpm) =11.0 x RPM Inlet Area9.62 sq. ft. Outlet Area =10.61 sq. ft.

VOL	VEL	1" W.G.		2" W.G.		3" W.G.		4" W.G.		5" W.G.	6" W.G.		7" W.G.	8" W.G.		9" W.G.		10" W.G.		11" W.G.	12" W.G.		13" W.G.		14" W.G.				
		FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM		BHP	RPM		BHP	RPM	BHP	RPM	BHP	RPM		BHP	RPM	BHP	RPM	BHP	RPM	BHP		
CFM																													
8000	768	353	1.6	479	3.4	582	5.4	669	7.5	747	9.7	817	12.1																
9000	864	362	1.8	482	3.7	585	5.8	671	8.1	748	10.5	818	13.0	883	15.6														
10000	960	373	2.0	489	4.0	588	6.3	674	8.8	750	11.3	820	14.0	884	16.7	945	19.5	1001	22.5										
11000	1056	384	2.2	496	4.3	591	6.8	677	9.4	753	12.1	822	14.9	886	17.8	946	20.8	1002	23.9	1056	27.0	1107	30.3						
12000	1152	398	2.5	506	4.7	597	7.2	680	10.0	756	12.9	825	15.8	888	18.9	947	22.1	1003	25.3	1057	28.6	1108	32.0	1157	35.4	1203	39.0	1248	42.5
13000	1248	412	2.8	515	5.2	604	7.7	683	10.6	759	13.6	827	16.8	891	20.0	950	23.3	1006	26.7	1058	30.2	1109	33.7	1158	37.3	1205	41.0	1249	44.7
14000	1344	427	3.2	526	5.6	612	8.3	690	11.2	762	14.4	831	17.7	894	21.1	953	24.6	1008	28.1	1061	31.8	1111	35.5	1159	39.3	1205	43.1	1250	47.0
15000	1440	444	3.6	537	6.0	622	8.9	697	11.9	767	15.1	834	18.6	897	22.2	955	25.8	1011	29.5	1063	33.3	1113	37.2	1161	41.1	1207	45.1	1252	49.2
16000	1536	460	4.0	549	6.5	632	9.5	705	12.6	774	16.0	837	19.5	901	23.2	959	27.0	1014	30.9	1066	34.9	1116	38.9	1164	43.0	1209	47.2	1254	51.4
17000	1632	477	4.4	563	7.1	643	10.1	715	13.4	781	16.8	844	20.5	903	24.3	962	28.2	1017	32.3	1069	36.4	1119	40.6	1167	44.9	1212	49.2	1256	53.6
18000	1728	493	4.8	577	7.7	654	10.8	725	14.2	790	17.7	852	21.5	909	25.4	965	29.4	1021	33.6	1072	37.9	1122	42.3	1169	46.8	1215	51.2	1259	55.7
19000	1824	510	5.3	591	8.4	665	11.5	735	15.1	800	18.7	859	22.5	917	26.5	970	30.7	1023	35.0	1076	39.4	1125	44.0	1172	48.6	1218	53.3	1262	57.9
20000	1920	527	5.8	608	9.1	678	12.3	746	16.0	809	19.7	868	23.7	924	27.7	977	32.0	1028	36.4	1079	40.9	1129	45.6	1176	50.4	1221	55.2	1264	60.1
21000	2016	545	6.3	624	9.9	692	13.2	757	16.9	819	20.8	878	24.8	932	29.0	985	33.4	1035	37.9	1083	42.5	1131	47.3	1179	52.2	1224	57.2	1268	62.2
22000	2112	564	6.9	640	10.7	706	14.2	769	17.8	830	21.9	887	26.1	941	30.4	992	34.8	1043	39.4	1090	44.1	1136	49.0	1182	54.0	1228	59.1	1271	64.3
23000	2208	583	7.6	657	11.5	720	15.2	782	18.9	841	23.0	898	27.4	951	31.8	1001	36.3	1049	40.9	1098	45.8	1143	50.8	1186	55.8	1230	61.0	1275	66.4
24000	2304	603	8.3	674	12.4	736	16.2	796	20.1	852	24.2	909	28.7	961	33.2	1011	37.8	1058	42.6	1105	47.5	1150	52.6	1193	57.8	1235	63.1	1277	68.5
25000	2400	622	9.0	690	13.2	753	17.4	810	21.3	864	25.4	919	30.0	971	34.7	1021	39.5	1068	44.4	1112	49.3	1157	54.5	1201	59.8	1242	65.2	1283	70.7
26000	2496	642	9.8	707	14.1	769	18.5	824	22.6	878	26.8	930	31.4	982	36.2	1031	41.2	1078	46.1	1122	51.3	1165	56.4	1208	61.9	1250	67.4	1290	73.0
27000	2592	662	10.7	724	15.0	785	19.7	838	23.9	892	28.3	942	32.8	993	37.8	1041	42.9	1087	48.0	1132	53.2	1174	58.6	1215	64.0	1257	69.6	1297	75.4
28000	2688	682	11.6	741	16.0	802	21.0	855	25.4	906	29.8	955	34.4	1004	39.4	1052	44.6	1098	49.9	1142	55.3	1184	60.7	1225	66.3	1264	71.9	1304	77.8
29000	2784	702	12.5	758	17.0	819	22.2	871	26.9	920	31.4	969	36.2	1015	41.0	1063	46.4	1108	51.9	1152	57.4	1194	62.9	1234	68.6	1273	74.3	1311	80.2
30000	2880	722	13.5	776	18.1	835	23.5	887	28.5	935	33.1	983	38.0	1028	42.9	1074	48.2	1119	53.8	1162	59.5	1204	65.2	1244	71.0	1283	76.9	1320	82.8
31000	2976	743	14.6	795	19.4	851	24.8	904	30.1	950	34.9	997	39.9	1042	44.9	1086	50.1	1130	55.9	1173	61.7	1214	67.6	1254	73.5	1293	79.5	1330	85.5
32000	3072	763	15.8	815	20.6	868	26.1	920	31.7	967	36.8	1011	41.8	1056	47.0	1098	52.2	1141	57.9	1184	63.9	1225	69.9	1264	76.0	1303	82.1	1340	88.3
33000	3168	784	17.0	834	22.0	885	27.5	937	33.4	983	38.8	1026	43.8	1070	49.2	1112	54.5	1153	60.1	1195	66.2	1236	72.3	1275	78.6	1312	84.9	1350	91.2
34000	3264	805	18.3	854	23.4	902	29.0	954	35.1	999	40.8	1042	46.0	1084	51.4	1126	56.9	1166	62.5	1206	68.5	1246	74.8	1286	81.2	1323	87.6	1359	94.1
35000	3360	826	19.7	873	24.9	919	30.5	970	36.8	1016	42.8	1058	48.3	1098	53.7	1140	59.4	1179	65.1	1218	70.9	1257	77.3	1296	83.8	1334	90.5		
36000	3456	847	21.2	893	26.5	937	32.0	987	38.5	1033	44.8	1075	50.6	1114	56.1	1154	61.9	1194	67.8	1231	73.6	1269	79.9	1307	86.6	1345	93.3		
37000	3552	868	22.8	912	28.1	955	33.8	1003	40.3	1050	46.9	1091	53.0	1130	58.7	1168	64.5	1208	70.5	1245	76.5	1281	82.7	1318	89.3	1355	96.2		

☐ Class I Fans.

☒ Class II Fans.

☒ Class III Fans.

☐ Class IV Fans.

Performance shown is for CLUB fans with outlet duct.
BHP shown does not include belt drive losses.
For static pressure greater than 14" contact Verantis.

CLUB-4850

(BACKWARD CURVED IMPELLER)

Wheel Dia.48-1/2" O.D. Inlet Dia.48" I.D. Outlet Size49-3/8" x 36-3/4"

Tip Speed (fpm) =12.57 x RPM Inlet Area12.57 sq. ft. Outlet Area =12.60 sq. ft.

VOL	VEL	1" W.G.			2" W.G.			3" W.G.			4" W.G.			5" W.G.	6" W.G.			7" W.G.	8" W.G.	9" W.G.			10" W.G.	11" W.G.			12" W.G.			13" W.G.			14" W.G.			
		CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		RPM	BHP	RPM			BHP	RPM	BHP		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
10000	808	327	2.0	441	4.2	535	6.6	615	9.2	686	12.0	750	14.8																							
11500	929	339	2.3	446	4.6	538	7.3	618	10.2	688	13.1	752	16.2	811	19.4	866	22.7	918	26.1																	
13000	1051	352	2.6	455	5.1	542	8.0	621	11.1	691	14.3	754	17.6	813	21.1	868	24.6	920	28.3	969	32.0	1015	35.8													
14500	1172	368	3.1	466	5.7	549	8.7	625	12.0	694	15.5	757	19.0	815	22.7	870	26.5	921	30.4	970	34.4	1017	38.4	1061	42.6	1104	46.8	1145	51.1							
16000	1293	384	3.5	477	6.4	557	9.5	630	12.9	698	16.6	761	20.4	819	24.4	873	28.4	924	32.5	972	36.8	1018	41.1	1063	45.4	1105	49.9	1147	54.4							
17500	1414	403	4.1	490	7.0	568	10.3	638	13.9	702	17.7	765	21.8	822	26.0	876	30.3	927	34.6	975	39.1	1021	43.6	1065	48.3	1107	53.0	1148	57.7							
19000	1536	422	4.7	504	7.8	580	11.3	647	15.0	710	19.0	768	23.1	826	27.6	880	32.1	930	36.8	978	41.4	1024	46.2	1068	51.0	1110	56.0	1150	61.1							
20500	1657	441	5.3	520	8.6	592	12.3	659	16.2	718	20.3	776	24.6	830	29.1	884	33.9	934	38.8	982	43.8	1027	48.8	1071	53.9	1113	59.0	1153	64.3							
22000	1778	461	6.0	536	9.6	605	13.3	670	17.4	729	21.7	785	26.1	838	30.8	887	35.7	938	40.8	986	46.0	1031	51.3	1074	56.7	1116	62.1	1156	67.6							
23500	1899	480	6.7	554	10.7	619	14.4	683	18.7	741	23.2	794	27.8	846	32.6	895	37.7	942	42.8	989	48.2	1035	53.8	1078	59.4	1119	65.1	1160	70.9							
25000	2021	501	7.5	573	11.8	636	15.8	695	20.1	752	24.8	806	29.6	855	34.5	904	39.7	950	45.1	994	50.5	1038	56.2	1082	62.1	1123	68.0	1163	74.0							
26500	2142	523	8.4	592	13.0	652	17.2	709	21.5	765	26.4	817	31.4	866	36.6	913	41.8	959	47.4	1002	53.0	1044	58.8	1085	64.8	1128	70.9	1167	77.2							
28000	2263	546	9.4	612	14.3	669	18.7	725	23.2	778	28.1	829	33.4	878	38.7	924	44.2	967	49.7	1011	55.6	1053	61.6	1092	67.6	1131	73.9	1171	80.3							
29500	2384	568	10.5	631	15.5	688	20.4	741	25.1	791	29.9	842	35.3	890	40.9	935	46.6	978	52.3	1019	58.2	1061	64.4	1101	70.7	1139	77.0	1176	83.5							
31000	2505	591	11.7	650	16.9	707	22.2	757	27.0	807	32.0	855	37.4	902	43.2	947	49.1	990	55.0	1031	61.1	1069	67.3	1109	73.7	1148	80.3	1184	87.0							
32500	2627	614	13.0	669	18.3	726	24.0	775	29.1	823	34.3	868	39.6	915	45.6	959	51.7	1001	57.8	1042	64.1	1081	70.5	1118	76.9	1155	83.7	1193	90.6							
34000	2748	637	14.4	689	19.7	745	25.8	794	31.3	839	36.6	884	42.2	928	48.0	972	54.3	1013	60.7	1053	67.2	1092	73.7	1129	80.4	1165	87.2									
35500	2869	660	15.9	710	21.4	765	27.7	812	33.6	856	39.1	901	44.9	942	50.7	984	57.0	1026	63.7	1065	70.4	1103	77.2	1141	84.0	1176	91.0									
37000	2990	684	17.6	732	23.2	784	29.7	831	36.1	874	41.8	917	47.7	958	53.7	998	59.9	1038	66.7	1078	73.7	1115	80.7	1152	87.7	1187	94.8									
38500	3112	708	19.4	755	25.2	803	31.7	851	38.5	893	44.7	933	50.6	974	56.9	1013	63.1	1051	69.9	1090	77.0	1128	84.2	1164	91.6											
40000	3233	732	21.3	777	27.3	823	33.8	870	41.0	912	47.6	951	53.8	991	60.2	1029	66.7	1066	73.3	1103	80.5	1140	87.9	1176	95.4											
41500	3354	757	23.3	800	29.5	842	36.1	889	43.5	931	50.7	970	57.2	1007	63.6	1045	70.3	1081	77.1	1117	84.1	1153	91.7	1189	99.4											
43000	3475	781	25.6	823	31.8	863	38.5	908	46.2	951	53.7	989	60.7	1025	67.3	1061	74.1	1098	81.1	1132	88.1	1166	95.6													
44500	3597	805	27.9	845	34.3	885	41.1	928	48.9	970	56.9	1008	64.3	1044	71.2	1078	78.1	1114	85.3	1148	92.6	1181	99.8													
46000	3718	830	30.4	868	36.9	907	44.0	947	51.8	989	60.0	1027	67.9	1063	75.2	1096	82.3	1130	89.6	1164	97.1															
47500	3839	855	33.1	892	39.7	930	47.0	967	54.7	1008	63.2	1047	71.6	1081	79.4	1115	86.8	1147	94.1	1181	102															
49000	3960	879	35.9	915	42.6	952	50.1	987	57.8	1027	66.6	1066	75.4	1101	83.6	1134	91.4	1165	98.9																	
50500	4082	904	38.8	938	45.7	975	53.4	1009	61.2	1047	70.1	1085	79.2	1120	87.9	1153	96.1	1184	104																	

☐ Class I Fans.

☒ Class II Fans.

☒ Class III Fans.

☐ Class IV Fans.

Performance shown is for CLUB fans with outlet duct.
BHP shown does not include belt drive losses.
For static pressure greater than 14" contact Verantis.

CLUB-6000

(BACKWARD CURVED IMPELLER)

Wheel Dia.60" O.D.Inlet Dia.60" I.D.Outlet Size61" x 45-3/8"

Tip Speed (fpm) =15.71 x RPMInlet Area19.63 sq. ft.Outlet Area =19.22 sq. ft.

VOL	1" W.G.		2" W.G.		3" W.G.		4" W.G.		5" W.G.		6" W.G.		7" W.G.		8" W.G.		9" W.G.		10" W.G.		11" W.G.		12" W.G.		13" W.G.		14" W.G.	
	VEL	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CFM																												
15000	792	263	3.0	356	6.3	432	10.0	496	13.9	554	18.1	606	22.4															
17000	898	271	3.4	359	6.9	434	10.9	499	15.2	555	19.6	607	24.3	655	29.1	700	34.0											
19000	1003	280	3.8	365	7.6	437	11.8	501	16.4	557	21.2	609	26.2	656	31.3	701	36.6	743	42.0	782	47.6							
21000	1109	290	4.3	372	8.3	440	12.7	503	17.6	560	22.8	611	28.0	658	33.5	702	39.1	744	44.9	784	50.7	821	56.7	857	62.9	892	69.1	
23000	1215	302	4.9	380	9.1	446	13.7	506	18.8	562	24.3	613	29.9	660	35.7	704	41.6	745	47.7	785	53.9	822	60.2	858	66.7	893	73.3	926
25000	1320	314	5.6	388	9.9	452	14.8	510	20.1	565	25.8	615	31.7	662	37.9	706	44.1	747	50.5	786	57.1	823	63.7	859	70.5	894	77.4	927
27000	1426	327	6.4	397	10.8	460	16.0	517	21.5	568	27.3	618	33.5	665	40.0	708	46.6	750	53.3	788	60.1	825	67.1	861	74.3	895	81.5	928
29000	1531	341	7.2	407	11.8	468	17.2	523	22.9	574	29.0	621	35.3	668	42.1	711	49.0	752	56.1	791	63.3	828	70.6	863	78.0	897	85.6	930
31000	1637	354	8.0	418	13.0	477	18.5	531	24.4	580	30.7	626	37.3	670	44.2	714	51.4	754	58.8	793	66.4	830	74.0	865	81.7	899	89.6	932
33000	1743	368	8.9	430	14.2	486	19.9	539	26.1	587	32.5	633	39.3	675	46.4	716	53.8	757	61.5	796	69.4	832	77.4	867	85.5	901	93.7	934
35000	1848	381	9.8	442	15.6	495	21.3	547	27.8	595	34.5	638	41.4	681	48.8	721	56.4	759	64.2	799	72.4	835	80.7	870	89.1	904	97.7	936
37000	1954	395	10.8	455	17.1	507	23.0	556	29.6	603	36.6	646	43.8	687	51.2	727	59.1	764	67.1	801	95.4	838	84.0	873	92.7	906	102	939
39000	2060	410	11.9	468	18.7	518	24.8	565	31.4	611	38.7	654	46.2	694	53.8	733	61.8	770	70.1	806	78.6	840	87.3	876	96.3	909	106	941
41000	2165	426	13.2	482	20.3	529	26.7	575	33.4	620	40.9	662	48.7	702	56.6	739	64.7	776	73.2	812	81.9	845	90.8	878	99.9	912	109	944
43000	2271	442	14.6	495	22.0	542	28.8	587	35.7	629	43.2	671	51.3	710	59.4	747	67.8	782	76.4	818	85.3	851	94.5	883	104	914	113	946
45000	2376	458	16.0	509	23.6	555	31.0	598	38.2	639	45.6	680	53.9	718	62.4	755	71.0	790	79.8	823	88.8	857	98.3	889	108	920	118	950
47000	2482	474	17.6	522	25.4	568	33.4	609	40.7	650	48.3	689	56.6	727	65.4	763	74.4	798	83.4	831	92.7	863	102	895	112	926	122	956
49000	2588	490	19.3	536	27.3	582	35.8	621	43.4	661	51.3	698	59.5	736	68.5	772	77.8	806	87.1	839	96.6	871	106	901	116	932	126	962
51000	2693	506	21.1	550	29.2	595	38.3	634	46.3	672	54.4	709	62.7	745	71.8	781	81.3	814	91.0	847	101	879	111	909	121	938	131	968
53000	2799	523	23.0	564	31.2	609	40.8	648	49.4	684	57.6	720	66.3	754	75.1	790	84.9	823	94.8	855	105	887	115	917	125	945	136	973
55000	2905	539	25.1	579	33.5	622	43.3	661	52.6	696	61.1	732	69.9	765	78.9	799	88.6	832	98.8	864	109	895	120	925	130	953	141	981
57000	3010	556	27.3	595	36.0	636	45.9	675	55.8	709	64.7	743	73.7	777	83.0	808	92.4	841	103	873	114	903	124	933	135	961	146	989
59000	3116	573	29.7	611	38.7	650	48.6	688	59.1	723	68.5	755	77.6	788	87.2	819	96.8	850	107	882	118	912	129	941	140	969	152	997
61000	3221	590	32.3	627	41.4	663	51.5	702	62.4	736	72.5	767	81.9	799	91.6	831	102	860	112	891	123	921	134	950	145	978	157	1005
63000	3327	607	35.0	643	44.4	677	54.4	715	65.8	749	76.5	781	86.3	811	96.1	842	106	871	117	900	127	930	139	959	151	986	163	1013
65000	3433	624	37.9	658	47.4	691	57.5	729	69.2	763	80.6	794	91.0	823	101	853	111	883	122	910	133	939	144	967	156	995	168	1022
67000	3538	642	41.0	674	50.7	707	60.9	742	72.8	777	84.7	807	95.7	836	106	865	117	894	127	922	138	949	150	977	162	1004	174	1031
69000	3644	659	44.2	691	54.0	722	64.6	756	76.5	790	88.9	821	101	850	111	877	122	905	133	933	144	959	156	986	167	1013	180	1040
71000	3749	676	47.6	707	57.6	738	68.5	770	80.4	804	93.1	834	105	863	117	890	128	917	139	945	150	971	162	996	174	1022	186	1049
73000	3855	693	51.2	723	61.3	754	72.6	784	84.3	817	97.4	848	110	876	122	903	134	929	145	956	157	982	169	1007	180	1032	193	1058

☐ Class I Fans.

☒ Class II Fans.

☒ Class III Fans.

☐ Class IV Fans.

Performance shown is for CLUB fans with outlet duct.
BHP shown does not include belt drive losses.
For static pressure greater than 14" contact Verantis.

CLUB-7300

(BACKWARD CURVED IMPELLER)

Wheel Dia.73" O.D.Outlet Size74-2/4" x 55-2/4"

Tip Speed (fpm) =19.1 x RPMInlet Area28.2 sq. ft.Outlet Area =28-1/2 sq. ft.

VOL	VEL FPM	1" W.G.		2" W.G.		3" W.G.		4" W.G.		5" W.G.		6" W.G.		7" W.G.		8" W.G.		9" W.G.		10" W.G.		12" W.G.		14" W.G.	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	702	218	3.9	299	8.7	363	14.0	417	19.6	465	25.8	508	32.2	548	39.1	586	46.3	620	53.7	653	61.5	716	78.1	776	95.8
22000	772	223	4.3	301	9.2	364	14.9	418	20.8	466	27.2	510	33.9	549	41.0	586	48.4	621	56.2	655	64.2	715	81.0	773	99.0
24000	842	228	4.7	303	9.8	365	15.7	419	22.0	467	28.6	510	35.6	550	43.0	587	50.7	622	58.6	655	66.9	717	84.2	773	102.5
26000	913	234	5.1	305	10.4	367	16.5	421	23.2	468	30.2	511	37.4	551	45.0	588	52.9	623	61.1	656	69.6	717	87.4	775	106.2
28000	983	240	5.6	308	11.0	369	17.4	422	24.3	470	31.7	513	39.2	552	47.0	589	55.2	624	63.7	657	72.5	718	90.7	775	110.0
30000	1053	247	6.2	312	11.6	372	18.2	424	25.4	471	33.1	514	41.0	554	49.2	591	57.5	625	66.2	658	75.3	720	94.1	775	113.9
32000	1123	253	6.8	317	12.4	374	19.1	426	26.6	473	34.5	515	42.8	555	51.3	592	60.0	627	68.2	659	78.1	721	97.5	777	117.8
34000	1193	261	7.4	323	13.3	377	20.0	428	27.7	475	35.9	517	44.5	557	53.4	593	62.4	628	71.6	661	81.1	721	100.9	778	121.7
36000	1264	268	8.0	329	14.2	381	21.0	431	28.9	477	37.3	519	46.1	558	55.3	595	64.8	629	74.4	662	84.2	723	104.4	779	125.7
38000	1334	276	8.7	335	15.2	386	22.1	434	30.1	479	38.7	521	47.8	559	57.3	596	67.0	631	77.1	663	87.2	724	108	780	129.7
40000	1404	283	9.3	341	16.2	391	23.3	437	31.2	481	40.2	523	49.5	561	59.2	597	69.3	632	79.6	665	90.2	725	111.7	782	133.8
42000	1474	291	10.0	347	17.2	397	24.6	441	32.6	484	41.7	525	51.2	563	61.1	599	71.5	633	82.1	666	93.0	727	115.3	783	138.1
44000	1544	299	10.7	354	18.4	403	26.0	446	34.0	487	43.1	528	53.0	566	63.1	601	73.7	635	84.6	667	95.8	728	118.9	784	142.4
46000	1615	307	11.6	361	19.6	409	27.4	451	35.7	491	44.7	531	54.8	568	65.2	604	76.0	637	87.1	669	98.6	729	122.2	785	146.7
48000	1685	315	12.5	368	20.9	415	29.0	457	37.4	495	46.5	533	56.5	571	67.3	606	78.3	639	89.6	671	101.3	731	125.6	787	150.7
50000	1755	324	13.4	376	22.2	421	30.5	462	39.2	500	48.4	537	58.4	573	69.4	608	80.6	642	92.2	673	104.1	733	129.0	788	154.7
52000	1825	333	14.5	383	23.4	427	32.1	468	41.1	506	50.4	541	60.4	576	71.3	611	83.1	644	94.8	675	107.0	734	132.3	790	158.6
54000	1895	342	15.6	391	24.7	434	33.9	475	43.2	511	52.7	546	62.7	580	73.5	614	85.3	646	97.5	678	109.9	736	135.6	791	162.5
56000	1966	351	16.8	398	26.0	441	35.7	481	45.2	517	54.9	551	65.1	584	75.9	617	87.7	649	100.3	680	112.9	739	139.0	793	166.3
58000	2036	361	18.0	406	27.3	448	37.6	187	47.3	523	57.3	557	67.7	589	78.5	621	90.2	652	102.7	683	115.9	741	142.4	795	170.2
60000	2106	370	19.3	414	28.8	456	39.5	493	49.4	529	59.8	563	70.4	594	81.3	625	93.0	655	105.4	686	118.7	743	145.9	797	174.1
62000	2176	380	20.7	422	30.2	463	41.4	500	51.7	536	62.4	569	73.1	600	84.3	630	96.0	659	108.4	689	121.6	746	149.5	800	178.1
64000	2246	389	22.1	430	31.8	471	43.3	507	54.1	542	65.0	575	76.0	606	87.4	635	99.1	664	111.5	692	124.7	749	153.6	802	182.2
66000	2317	399	23.6	438	33.5	478	45.2	514	56.6	548	67.6	581	79.1	611	90.6	640	102.5	669	114.9	696	128.0	751	156.5	804	186.4
68000	2387	409	25.2	447	35.3	486	47.1	521	59.2	554	70.4	587	82.1	617	93.9	646	106.0	674	118.5	701	131.6	755	160.0	807	190.6
70000	2457	419	26.9	455	37.3	493	49.2	529	61.8	561	73.3	593	85.2	623	97.3	652	109.6	679	122.3	706	135.4	758	163.7	810	194.9
72000	2527	429	28.7	464	39.3	501	51.3	536	64.3	568	76.3	599	88.4	630	100.9	658	113.4	685	126.3	711	139.5	762	167.7	813	198.6
74000	2597	439	30.5	473	41.5	509	53.4	544	66.8	575	79.4	605	91.7	636	104.5	664	117.3	691	130.3	717	143.7	767	171.9	816	202.8
76000	2668	449	32.5	482	43.7	517	55.6	551	69.3	583	82.7	612	95.1	642	108.1	670	121.3	697	134.5	722	148.1	771	176.4	820	207.2
78000	2738	459	34.5	491	46.0	525	57.9	559	71.9	590	85.9	619	98.7	648	111.9	676	125.4	703	138.9	728	152.6	777	181.2	824	211.9

- ☐ Class I Fans.
- ☒ Class II Fans.
- ☒ Class III Fans.
- ☐ Class IV Fans.

Performance certified is for installation type B: free inlet, ducted outlet.
Power rating (BHP) does not include transmission losses.
Performance ratings do not include the effects of upturnances (accessories).
For static pressure greater than 14" contact Verantis.

How to Specify FRP Fans

The following construction details can be used as a guide when writing specifications which demand the highest quality equipment. These specifications are in compliance with accepted design standards.

Fan performance to be certified by the manufacturer that it meets AMCA Standards Handbook 99, Test Code for Air Moving Devices 210 and Certified Ratings Program for Air Moving Devices 211.

Design Criteria Sizing

Axial and centrifugal fans shall be sized so an increase in speed of 10% will not exceed the maximum RPM of that class of fan.

Performance and Sound Data Provided.

- Design RPM
- Max RPM
- Static Efficiency
- Overall Sound
- Sound Power
- Fan Performance Curve
- Static Efficiency Curve
- Horse Power Curve

Rating.

The size and the capacity rating for each fan quoted shall be furnished.

Laminate.

Fan housings shall be constructed of a FRP laminate consisting of an appropriate fire-retardant resin and the proper fiberglass or synthetic reinforcement capable of resisting continuous fume temperatures of 180°F for standard resins. Other options available up to 230°F.

The fire-retardant qualities which equal or exceed the ASTME-84 Tunnel Test Rating of less than 25. For optimum structural integrity, the impeller shall be constructed of vinyl ester resin.

All interior surfaces exposed to the corrosive air stream shall be resin rich and contain not more than 20% of the appropriate surface veil, such as "C" grade fiberglass veil for most service conditions and Nexus surface veil when fluorides are present.

All surfaces exposed to the atmosphere shall be resin rich of a paraffinated resin stabilized against ultraviolet degradation and include a reinforcement not to exceed more than 20% of "C" grade fiberglass, to serve as protection against weathering, fumes, spillage and ultraviolet attack.

Immediately beneath the surfacing veil of the interior and exterior surfaces, the laminate shall be layers of chopped strand mat of Type E glass.

When conductivity is required, the interior of the fan housing and the impeller shall have a carbon gel coat that has a surface conductivity range of 0-30,000 ohms resistance. A grounding lug shall be provided to facilitate the discharging of static electricity to an external ground.

Metal Parts.

No metal parts shall be exposed to the corrosive air stream.

Shaft.

The shaft shall be of such design and size so as to operate below its first critical speed.

Bearings.

Fan to be equipped with heavy-duty bearings, rated for a L-10 life of 100,000 hours, grease packed and sealed against dust and moisture.

Belt drives.

Fan to be equipped with belt drives using matched "deep V" type V-belts sized to handle 1.5 times the rated brake horsepower of the fan motor and incorporating industrial type companion sheaves.

Balancing.

Fan shall be statically and dynamically balanced at its rated operating speed and a certificate of compliance supplied at the time of delivery.

Guards & Canopies.

Provide OSHA approved FRP belt, shaft, and bearing guards, properly ventilated for drive belt and bearing cooling for Arrangement 9. Provide OSHA approved one piece FRP Canopy for Arrangement 10. FRP guards to be supplied with UV resistant top coat.

Impeller.

The fan impeller shall be constructed of premium-grade vinyl ester resin in accordance with ASTM D4167 and the laminate shall meet or exceed the requirements for defects per ASTM D2563 Level II. Customer inspections are available to ensure compliance. The fan impellers shall be made using a non-fire retardant vinyl ester resin chosen for strength characteristics. Resin for the fan impellers is to be DION 9800 or approved equal. Steel impeller hub shall be encapsulated in FRP to ensure corrosion resistant integrity and constructed so that the shaft remains outside of the airstream. Metal-constructed impellers coated with FRP, or impellers permanently bonded to shaft are not acceptable.

Hardware.

- All hardware to be Type 316 Stainless Steel.



Contact Verantis

For more information about incineration systems and thermal treatment technologies that can meet all your waste processing needs.

www.verantis.com
sales@verantis.com



FRP Fans:
CLUB Series 1500-7300
Sound Information

Verantis Environmental Solutions Group provides solutions for most common and complex situations including repair, rebuilding, field balancing, service and installation.



VERANTIS CORPORATION CERTIFIES THAT THE CLUB SERIES CENTRIFUGAL FANS SHOWN HEREIN ARE LICENSED TO BEAR THE AMCA SEAL. THE RATINGS SHOWN ARE BASED ON TESTS MADE IN ACCORDANCE WITH AMCA PUBLICATION 211 AND AMCA PUBLICATION 311 AND COMPLY WITH THE REQUIREMENTS OF THE AMCA CERTIFIED RATINGS PROGRAM.

OTHER VERANTIS FANS INCLUDE:

- **CMHB Centrifugal High Efficiency Low to Medium Pressure**
 - **CLM Centrifugal Low to Medium Pressure**
 - **CMH Centrifugal Medium to High Pressure**
 - **CH/CHP Centrifugal High Pressure**
 - **FL/FLR Tube Axial Low Pressure**



Model: Club 1500

Full Octave Sound Power									Speed	Static Pressure
1	2	3	4	5	6	7	8		N	P _s
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _{WA} (dB)	rpm	in wg
90	91	92	98	95	84	78	74	98	2685	0
87	88	88	94	89	78	74	72	94	2685	3
86	87	88	93	86	77	73	72	92	2685	4
86	88	88	91	82	74	73	72	90	2685	6

Model: Club 1825

Full Octave Sound Power									Speed	Static Pressure
1	2	3	4	5	6	7	8		N	P _s
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _{WA} (dB)	rpm	in wg
71	72	67	59	56	55	54	53	64	872	1
88	90	91	90	82	76	74	73	90	2111	5
98	99	100	104	99	91	86	85	104	3413	12

Model: Club 2250

Full Octave Sound Power									Speed	Static Pressure
1	2	3	4	5	6	7	8		N	P _s
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _{WA} (dB)	rpm	in wg
72	74	64	57	57	56	55	54	64	694	1
90	90	92	86	77	75	74	73	88	1614	5
98	100	100	103	93	86	85	84	101	2548	12

"The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. Values shown are for (inlet LWi or inlet LWiA) sound power levels for Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301."

Model: Club 2550

Full Octave Sound Power									Speed	Static Pressure
1	2	3	4	5	6	7	8		N	P _s
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _{WA} (dB)	rpm	in wg
95	96	99	98	90	83	81	80	98	1805	5
97	98	101	102	94	86	83	80	101	1863	3
100	102	103	105	98	90	87	86	105	2348	10

Model: Club 3000

Full Octave Sound Power									Speed	Static Pressure
1	2	3	4	5	6	7	8		N	P _s
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _{WA} (dB)	rpm	in wg
102	93	102	95	93	90	85	78	99	1735	0
102	92	100	94	92	89	84	74	97	1735	2
99	90	99	93	90	86	83	73	96	1735	5
95	90	97	92	88	85	83	74	94	1735	9

Model: Club 3650

Full Octave Sound Power									Speed	Static Pressure
1	2	3	4	5	6	7	8		N	P _s
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _{WA} (dB)	rpm	in wg
91	93	93	89	85	82	76	67	91	1187	5
100	96	102	97	93	90	87	78	99	1603	10
101	96	103	98	94	91	89	80	101	1700	12

"The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. Values shown are for (inlet LWi or inlet LWiA) sound power levels for Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301."

Model: Club 4450

Full Octave Sound Power									Speed	Static Pressure
1	2	3	4	5	6	7	8		N	P _s
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _{WA} (dB)	rpm	in wg
94	97	96	91	88	87	81	73	94	1123	10
97	98	102	95	91	90	85	77	98	1266	12
90	96	92	88	85	82	74	65	91	938	5

Model: Club 4850

Full Octave Sound Power									Speed	Static Pressure
1	2	3	4	5	6	7	8		N	P _s
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _{WA} (dB)	rpm	in wg
97	99	99	94	91	90	84	76	97	1137	12
93	99	95	92	88	85	77	67	95	972	5
100	101	104	98	94	92	86	79	101	1260	14

Model: Club 5425

Full Octave Sound Power									Speed	Static Pressure
1	2	3	4	5	6	7	8		N	P _s
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _{WA} (dB)	rpm	in wg
98	104	100	97	93	90	81	72	99	990	6
103	105	105	100	97	94	87	78	103	1164	10
98	104	100	97	94	90	80	70	99	947	3

"The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. Values shown are for (inlet LWi or inlet LWiA) sound power levels for Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301."

Model: Club 6000

Full Octave Sound Power									Speed	Static Pressure
1	2	3	4	5	6	7	8		N	P _s
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _{WA} (dB)	rpm	in wg
99	106	102	99	95	91	82	72	101	916	5
104	107	106	102	98	96	89	80	104	1107	12
96	102	98	94	91	88	80	71	97	838	8

Model: Club 7300

Full Octave Sound Power									Speed	Static Pressure
1	2	3	4	5	6	7	8		N	P _s
63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	L _{WA} (dB)	rpm	in wg
102	110	104	101	97	94	84	74	103	828	8
103	108	102	100	96	91	81	71	102	739	3
102	106	102	97	95	93	85	76	101	803	13

"The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. Values shown are for (inlet LWi or inlet LWiA) sound power levels for Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301."



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Contact Verantis

For more information about incineration systems and thermal treatment technologies that can meet all your waste processing needs.

www.verantis.com
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