



**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](http://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.

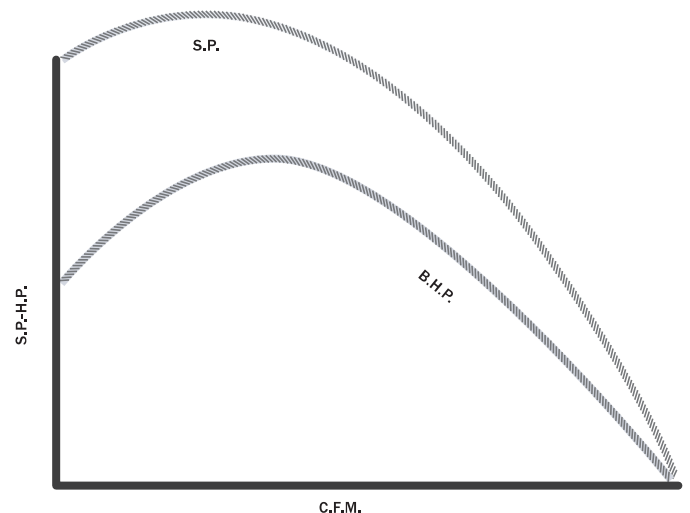
# Engineering Features

- 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

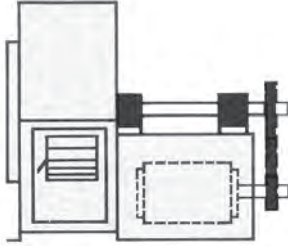
- For forced draft and non-abrasive induced draft applications
- Non-overloading horsepower characteristic
- Increased efficiency
- Stable operation





# Arrangement Versatility

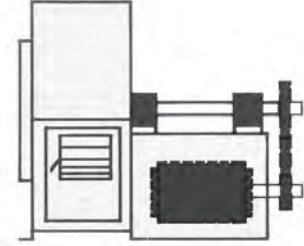
## Standard for sizes 1500 through 2550



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

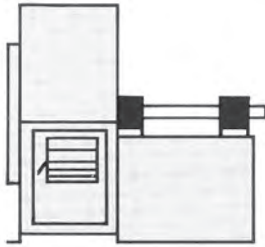
Size 1500 through 2550 are offered in Arrangement 10 as standard, while Arrangement 9 is standard in sizes 3000 through 7300. Other arrangements are available if required. Fans are available in clockwise or counterclockwise rotation and all 8 standard discharge positions.

## Standard for sizes 3000 through 7300

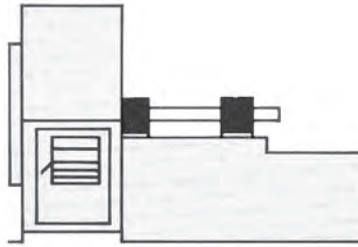


ARR. 9 SWSI - For belt drive. Wheel over-hung, two bearings, with prime mover outside base.

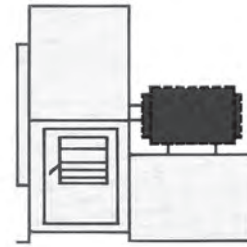
### Optional arrangements available for special requirements.



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



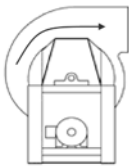
ARR. 8 SWSI - For belt drive or direct connection. Arrangement 1 plus extended base for prime mover.



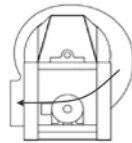
ARR. 4 SWSI - For direct drive. Wheel overhung on prime mover shaft. No bearings on fan. Prime mover base mounted or directly connected.

## Rotation and Discharge Options

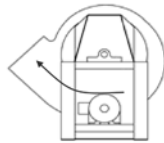
Direction of rotation is determined from drive side of fan. On single inlet fans, drive side is always considered as the side opposite fan inlet. Direction of discharge is determined in accordance with diagrams (below). Angle of discharge is referred to the horizontal axis of fan and designated in degrees 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.



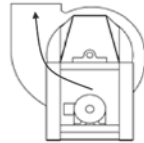
Rotation: Clockwise  
Orientation: Top Horizontal



Rotation: Clockwise  
Orientation: Bottom Horizontal



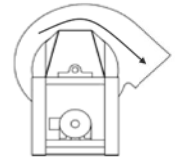
Rotation: Clockwise  
Orientation: Bottom Angular Up



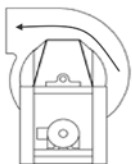
Rotation: Clockwise  
Orientation: Up Blast



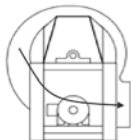
Rotation: Clockwise  
Orientation: Top Angular Up



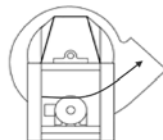
Rotation: Clockwise  
Orientation: Top Angular Down



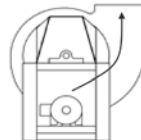
Rotation: Counterclockwise  
Orientation: Top Horizontal



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	0.964	0.930	0.896	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 Catalog Table

**CLUB-1500**

(BACKWARD CURVED IMPELLER)

Impeller Dia. 15.00" O.D.  
Tip Speed (fpm) 3.93 \* RPM

Inlet Dia. 14" I.D.  
Inlet Area 1.07 sq. ft.

Outlet Size 15-3/4" x 11-3/4"  
Outlet Area 1.29 ft<sup>2</sup>

VOL CFM	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
850	661	1087	0.20	1490	0.47	1801	0.76	2062	1.06	2291	1.37	2498	1.69															
1000	778	1128	0.24	1507	0.51	1820	0.84	2082	1.19	2314	1.54	2518	1.90															
1150	895	1180	0.28	1528	0.56	1837	0.91	2101	1.29	2333	1.69	2541	2.10	2710	2.26	2887	2.64											
1300	1012	1250	0.34	1561	0.62	1856	0.98	2117	1.39	2351	1.82	2562	2.27	2752	2.72	2930	3.18	3097	3.64	3253	4.10	3402	4.57	3547	5.03	3684	5.53	
1450	1128	1321	0.39	1606	0.70	1879	1.05	2136	1.48	2367	1.93	2578	2.41	2772	2.91	2950	3.42	3117	3.93	3276	4.44	3426	4.95	3567	5.46	3703	5.98	3836
1600	1245	1394	0.46	1657	0.78	1914	1.14	2157	1.56	2386	2.05	2594	2.55	2789	3.07	2968	3.62	3138	4.19	3295	4.74	3445	5.30	3590	5.86	3729	6.42	3859
1750	1362	1470	0.52	1725	0.89	1959	1.26	2185	1.67	2407	2.16	2613	2.69	2805	3.24	2986	3.81	3154	4.39	3315	5.00	3467	5.62	3610	6.23	3747	6.84	3880
1900	1478	1546	0.60	1796	1.00	2005	1.38	2225	1.81	2431	2.27	2635	2.82	2824	3.40	3002	4.00	3171	4.61	3332	5.23	3483	5.88	3629	6.54	3769	7.21	3900
2050	1595	1626	0.69	1867	1.11	2069	1.53	2271	1.97	2467	2.43	2657	2.96	2846	3.55	3021	4.17	3188	4.82	3347	5.47	3501	6.13	3646	6.82	3785	7.52	3920
2200	1712	1708	0.79	1941	1.23	2141	1.69	2318	2.14	2512	2.63	2690	3.14	2867	3.71	3044	4.35	3208	5.01	3366	5.70	3516	6.40	3662	7.10	3803	7.82	3936
2350	1829	1792	0.89	2015	1.36	2211	1.85	2381	2.33	2557	2.83	2733	3.36	2899	3.91	3064	4.53	3230	5.21	3386	5.91	3535	6.64	3679	7.39	3818	8.13	3953
2500	1945	1877	1.02	2091	1.50	2282	2.03	2452	2.54	2608	3.05	2778	3.60	2940	4.16	3096	4.76	3252	5.41	3407	6.13	3556	6.88	3699	7.64	3837	8.43	3969
2650	2062	1962	1.15	2168	1.66	2355	2.21	2523	2.76	2673	3.29	2824	3.84	2986	4.44	3136	5.04	3284	5.67	3430	6.37	3577	7.12	3721	7.91	3856	8.71	3988
2800	2179	2049	1.29	2246	1.83	2429	2.40	2594	2.99	2744	3.56	2882	4.12	3031	4.72	3182	5.36	3323	5.99	3463	6.66	3602	7.39	3741	8.17	3879	9.00	4009
2950	2295	2135	1.45	2327	2.01	2504	2.60	2665	3.22	2815	3.83	2949	4.43	3082	5.03	3227	5.68	3369	6.35	3503	7.01	3635	7.72	3767	8.47	3899	9.28	4031
3100	2412	2224	1.63	2410	2.21	2580	2.82	2739	3.47	2885	4.12	3022	4.75	3146	5.37	3274	6.01	3414	6.70	3549	7.41	3676	8.10	3802	8.84	3927	9.63	4052
3250	2529	2313	1.81	2493	2.42	2657	3.05	2813	3.72	2957	4.41	3092	5.08	3216	5.73	3335	6.39	3460	7.07	3594	7.80	3721	8.54	3843	9.27	3963	10.04	4083
3400	2646	2403	2.01	2577	2.65	2736	3.31	2888	3.99	3030	4.71	3163	5.42	3288	6.12	3403	6.80	3517	7.49	3639	8.21	3766	8.97	3889	9.75	4004	10.51	4120
3550	2762	2493	2.23	2662	2.89	2816	3.57	2965	4.28	3104	5.02	3234	5.77	3358	6.50	3475	7.23	3583	7.93	3694	8.66	3812	9.43	3934	10.22	4051	11.03	4162
3700	2879	2584	2.47	2748	3.16	2898	3.86	3041	4.59	3178	5.35	3307	6.13	3429	6.90	3546	7.66	3654	8.41	3758	9.15	3864	9.91	3979	10.71	4096	11.54	4208
3850	2996	2675	2.72	2834	3.44	2981	4.17	3119	4.92	3254	5.69	3381	6.51	3501	7.32	3616	8.11	3726	8.90	3827	9.67	3928	10.44	4030	11.24	4141	12.08	4253
4000	3112	2766	2.99	2920	3.74	3064	4.49	3198	5.26	3330	6.06	3455	6.89	3574	7.74	3687	8.57	3796	9.40	3901	10.22	3996	11.01	4093	11.81	4192	12.64	4299
4150	3229	2858	3.28	3007	4.06	3148	4.83	3279	5.63	3407	6.45	3531	7.29	3647	8.17	3759	9.05	3867	9.91	3970	10.76	4069	11.60	4161	12.42	4255	13.26	4350
4300	3346	2950	3.60	3095	4.40	3233	5.20	3361	6.02	3484	6.86	3606	7.73	3722	8.62	3832	9.53	3938	10.43	4041	11.32	4140	12.20	4233	13.07	4322	13.92	4412
4450	3463	3043	3.92	3184	4.76	3319	5.58	3444	6.43	3564	7.29	3683	8.18	3797	9.09	3906	10.03	4010	10.97	4112	11.90	4210	12.81	4305	13.72	4393	14.61	4479
4600	3579	3137	4.26	3273	5.14	3404	5.99	3528	6.86	3645	7.74	3760	8.65	3873	9.58	3980	10.54	4084	11.52	4183	12.49	4281	13.44	4375	14.38	4466	15.33	4550
4750	3696	3231	4.62	3363	5.53	3491	6.42	3612	7.31	3727	8.22	3838	9.15	3949	10.10	4056	11.07	4158	12.09	4256	13.09	4352	14.08	4445	15.06	4536	16.04	
4900	3813	3325	5.01	3453	5.96	3577	6.87	3696	7.79	3809	8.72	3918	9.67	4026	10.65	4131	11.64	4232	12.66	4330	13.71	4424	14.74	4516	15.76			
5050	3929	3419	5.41	3544	6.40	3664	7.35	3782	8.29	3892	9.24	3999	10.22	4103	11.21	4208	12.23	4308	13.26	4404	14.34	4497	15.41					
5200	4046	3513	5.84	3634	6.87	3751	7.85	3867	8.81	3976	9.79	4080	10.79	4182	11.81	4284	12.84	4383	13.90	4479	14.98							

Class I Fans.
  Class II Fans.
  Class III Fans.
  Class IV Fans.

Power rating (watts, kW, or BHP) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

For static pressure greater than 14", contact Verantis.



CLUB-1825 Catalog Table

**CLUB-1825**

(BACKWARD CURVED IMPELLER)

Impeller Dia. 18.25" O.D.  
Tip Speed (fpm) 4.78 \* RPM

Inlet Dia. 18" I.D.  
Inlet Area 1.77 sq. ft.

Outlet Size 18-5/8" x 13-7/8"  
Outlet Area 1.80 ft<sup>2</sup>

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.	
	CFM	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
1400	780	914	0.33	1233	0.74	1491	1.21	1706	1.70	1894	2.19	2064	2.69															
1600	892	947	0.39	1248	0.80	1504	1.30	1721	1.85	1909	2.41	2081	2.97															
1800	1003	994	0.45	1266	0.86	1516	1.39	1733	1.97	1925	2.59	2095	3.22															
2000	1114	1047	0.53	1295	0.95	1532	1.48	1745	2.10	1937	2.75	2110	3.43															
2200	1226	1100	0.60	1329	1.06	1550	1.58	1760	2.21	1949	2.91	2123	3.62															
2400	1337	1155	0.69	1369	1.18	1578	1.71	1776	2.33	1963	3.05	2134	3.81															
2600	1449	1211	0.78	1421	1.32	1612	1.87	1797	2.48	1979	3.20	2148	3.99															
2800	1560	1267	0.88	1473	1.46	1646	2.03	1827	2.66	1996	3.36	2165	4.16															
3000	1672	1326	1.00	1526	1.62	1692	2.23	1861	2.88	2022	3.56	2180	4.34															
3200	1783	1387	1.13	1580	1.78	1744	2.44	1895	3.09	2054	3.81	2203	4.57															
3400	1895	1448	1.27	1634	1.95	1797	2.56	1938	3.34	2088	4.08	2233	4.85															
3600	2006	1511	1.42	1690	2.13	1849	2.88	1988	3.61	2122	4.36	2267	5.17															
3800	2117	1574	1.59	1747	2.33	1902	3.12	2042	3.91	2166	4.67	2300	5.49															
4000	2229	1637	1.77	1804	2.54	1957	3.37	2094	4.20	2217	5.01	2336	5.83															
4200	2340	1701	1.97	1863	2.77	2012	3.62	2146	4.51	2270	5.37	2382	6.21															
4400	2452	1766	2.19	1923	3.02	2068	3.90	2200	4.83	2322	5.74	2433	6.62															
4600	2563	1831	2.42	1984	3.28	2124	4.19	2254	5.15	2374	6.11	2487	7.06															
4800	2675	1897	2.67	2046	3.57	2181	4.50	2309	5.49	2427	6.51	2539	7.49															
5000	2786	1964	2.94	2108	3.87	2239	4.84	2365	5.85	2481	6.91	2591	7.95															
5200	2898	2031	3.22	2171	4.19	2298	5.19	2421	6.23	2536	7.32	2643	8.41															
5400	3009	2098	3.53	2234	4.54	2358	5.57	2478	6.63	2591	7.75	2697	8.89															
5600	3120	2165	3.86	2297	4.90	2419	5.96	2535	7.06	2647	8.20	2752	9.38															
5800	3232	2233	4.21	2361	5.29	2481	6.38	2593	7.51	2703	8.67	2806	9.89															
6000	3343	2300	4.58	2426	5.70	2543	6.82	2652	7.98	2760	9.17	2862	10.41															
6200	3455	2368	4.98	2490	6.14	2605	7.29	2713	8.48	2817	9.70	2918	10.96															
6400	3566	2436	5.40	2555	6.59	2668	7.78	2773	9.00	2874	10.25	2974	11.54															
6600	3678	2506	5.83	2621	7.07	2732	8.30	2835	9.55	2933	10.83	3031	12.14															
6800	3789	2575	6.29	2687	7.58	2795	8.84	2897	10.12	2993	11.43	3088	12.78															
7000	3901	2644	6.77	2754	8.11	2859	9.41	2959	10.72	3053	12.07	3145	13.44															
7200	4012	2714	7.28	2820	8.67	2923	10.01	3021	11.35	3114	12.73	3204	14.13															

Class I Fans. 
  Class II Fans. 
  Class III Fans. 
  Class IV Fans.

Power rating (watts, kW, or BHP) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

For static pressure greater than 14", contact Verantis.



CLUB-2225 Catalog Table

**CLUB-2225**

(BACKWARD CURVED IMPELLER)

Impeller Dia. 22.25" O.D.  
Tip Speed (fpm) 5.83 \* RPM

Inlet Dia. 20" I.D.  
Inlet Area 2.18 sq. ft.

Outlet Size 22-5/8" x 16-7/8"  
Outlet Area 2.65 ft<sup>2</sup>

VOL CFM	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
2200	830	0.53	1016	1.13	1227	1.85	1404	2.62	1560	3.39	1698	4.17	1827	4.96														
2500	943	0.61	1029	1.22	1237	1.99	1415	2.82	1571	3.70	1712	4.57	1840	5.46	1958	6.35	2071	7.24										
2800	1056	0.72	1047	1.33	1249	2.12	1426	3.01	1583	3.95	1724	4.93	1852	5.91	1974	6.89	2085	7.88	2190	8.88	2291	9.88						
3100	1169	0.83	1074	1.48	1262	2.26	1437	3.19	1593	4.18	1735	5.22	1866	6.31	1985	7.39	2098	8.48	2206	9.56	2305	10.66	2400	11.77	2493	12.88		
3400	1282	0.95	1102	1.65	1281	2.43	1450	3.37	1604	4.42	1745	5.50	1876	6.63	1997	7.82	2110	9.01	2216	10.20	2318	11.39	2416	12.58	2507	13.79	2595	14.99
3700	1396	1.08	1141	1.84	1307	2.65	1463	3.55	1616	4.63	1756	5.79	1886	6.97	2008	8.19	2121	9.46	2230	10.77	2330	12.06	2427	13.35	2520	14.64	2611	15.94
4000	1509	1.23	1185	2.06	1335	2.89	1485	3.80	1629	4.85	1768	6.04	1897	7.29	2017	8.57	2132	9.87	2239	11.23	2342	12.63	2440	14.04	2532	15.43	2621	16.83
4300	1622	1.39	1228	2.28	1367	3.15	1512	4.11	1647	5.12	1781	6.30	1909	7.59	2028	8.94	2142	10.30	2250	11.69	2353	13.13	2450	14.61	2545	16.13	2635	17.64
4600	1735	1.57	1272	2.52	1407	3.45	1539	4.43	1671	5.46	1796	6.60	1922	7.90	2041	9.28	2153	10.72	2260	12.17	2363	13.65	2461	15.17	2555	16.72	2645	18.32
4900	1848	1.77	1317	2.76	1452	3.78	1570	4.77	1699	5.86	1818	6.98	1936	8.23	2054	9.63	2165	11.10	2271	12.63	2373	14.17	2471	15.74	2566	17.33	2656	18.96
5200	1961	1.99	1363	3.02	1495	4.11	1609	5.16	1726	6.26	1845	7.43	1957	8.65	2068	10.00	2179	11.50	2284	13.05	2385	14.66	2482	16.30	2575	17.95	2666	19.63
5500	2074	2.23	1410	3.31	1538	4.46	1653	5.59	1758	6.70	1873	7.91	1982	9.15	2087	10.47	2192	11.91	2297	13.49	2398	15.13	2493	16.82	2587	18.56	2676	20.29
5800	2188	2.50	1457	3.62	1583	4.83	1696	6.03	1797	7.19	1901	8.41	2010	9.71	2112	11.02	2211	12.43	2311	13.95	2410	15.61	2507	17.35	2598	19.10	2688	20.92
6100	2301	2.78	1504	3.95	1628	5.20	1740	6.48	1841	7.72	1935	8.95	2038	10.27	2140	11.66	2235	13.04	2330	14.53	2425	16.13	2519	17.86	2612	19.68	2700	21.51
6400	2414	3.10	1554	4.31	1674	5.60	1783	6.95	1885	8.27	1975	9.55	2067	10.87	2167	12.29	2263	13.73	2354	15.20	2444	16.76	2534	18.44	2624	20.23	2714	22.15
6700	2527	3.43	1604	4.69	1721	6.02	1828	7.43	1928	8.82	2019	10.19	2105	11.53	2195	12.95	2291	14.45	2381	15.96	2467	17.50	2554	19.14	2640	20.88	2726	22.74
7000	2640	3.80	1655	5.11	1768	6.48	1874	7.93	1971	9.40	2063	10.84	2146	12.24	2229	13.67	2318	15.18	2409	16.76	2494	18.33	2577	19.95	2660	21.65	2742	23.46
7300	2753	4.18	1706	5.55	1815	6.96	1919	8.45	2015	10.00	2106	11.51	2191	13.00	2269	14.45	2349	15.96	2437	17.57	2522	19.22	2604	20.85	2684	22.53	2763	24.31
7600	2866	4.60	1758	6.02	1864	7.48	1966	9.01	2060	10.61	2149	12.20	2234	13.76	2311	15.29	2387	16.82	2465	18.40	2550	20.10	2632	21.82	2711	23.52	2787	25.27
7900	2980	5.05	1810	6.52	1913	8.03	2012	9.60	2106	11.24	2193	12.91	2277	14.55	2356	16.16	2428	17.73	2501	19.34	2578	21.01	2660	22.78	2739	24.57	2814	26.33
8200	3093	5.53	1863	7.05	1964	8.61	2060	10.22	2152	11.90	2238	13.64	2320	15.35	2399	17.04	2472	18.69	2542	20.33	2613	22.01	2688	23.77	2767	25.60	2842	27.46
8500	3206	6.04	1915	7.62	2014	9.23	2107	10.88	2198	12.60	2284	14.39	2364	16.18	2442	17.94	2516	19.68	2585	21.38	2652	23.08	2721	24.83	2795	26.67	2870	28.58
8800	3319	6.58	1969	8.22	2066	9.88	2156	11.58	2245	13.34	2329	15.16	2409	17.03	2485	18.86	2559	20.67	2630	22.47	2694	24.21	2759	25.99	2826	27.81	2898	29.73
9100	3432	7.17	2022	8.86	2117	10.56	2206	12.31	2292	14.11	2375	15.96	2454	17.89	2529	19.81	2602	21.69	2672	23.56	2738	25.40	2801	27.21	2864	29.05	2929	30.94
9400	3545	7.78	2075	9.54	2169	11.28	2256	13.08	2339	14.92	2422	16.82	2500	18.78	2574	20.78	2646	22.74	2715	24.68	2782	26.60	2844	28.48	2905	30.36	2966	32.27
9700	3658	8.43	2130	10.25	2221	12.04	2306	13.88	2388	15.77	2469	17.71	2546	19.70	2619	21.77	2690	23.81	2759	25.82	2825	27.81	2889	29.80	2948	31.72	3007	33.66
10000	3772	9.10	2184	10.99	2274	12.84	2357	14.73	2437	16.66	2516	18.65	2592	20.68	2665	22.78	2735	24.90	2802	27.00	2868	29.06	2932	31.11	2993	33.15	3050	35.12
10300	3885	9.81	2239	11.77	2327	13.68	2409	15.62	2487	17.60	2563	19.62	2639	21.70	2711	23.82	2780	26.02	2847	28.19	2912	30.33	2975	32.45	3036	34.56		
10600	3998	10.56	2295	12.59	2379	14.56	2461	16.55	2537	18.57	2611	20.64	2686	22.76	2757	24.92	2826	27.16	2892	29.41	2956	31.63	3018	33.82				
10900	4111	11.35	2350	13.46	2433	15.49	2513	17.52	2588	19.59	2661	21.71	2733	23.86	2804	26.07	2871	28.32	2937	30.65	3000	32.95	3062	35.23				

Class I Fans. 
  Class II Fans. 
  Class III Fans. 
  Class IV Fans.

Power rating (watts, kW, or BHP) does not include transmission losses.  
 Performance ratings do not include the effects of appurtenances (accessories).  
 For static pressure greater than 14", contact Verantis.

CLUB-2550 Catalog Table

**CLUB-2550**

(BACKWARD CURVED IMPELLER)

Impeller Dia. 25.50" O.D.  
Tip Speed (fpm) 6.68 \* RPM

Inlet Dia. 24" I.D.  
Inlet Area 3.14 sq. ft.

Outlet Size 26" x 19-5/8"  
Outlet Area 3.54 ft<sup>2</sup>

VOL CFM	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
2800	790	0.67	884	1.46	1069	2.39	1222	3.37	1358	4.35	1479	5.35	1592	6.37	1706	8.18	1806	9.33	1909	11.48	1998	12.77	2009	13.82	2092	15.25	2173	16.69
3200	903	0.78	896	1.58	1078	2.58	1233	3.66	1369	4.78	1492	5.90	1603	7.03	1706	8.92	1816	10.19	1909	11.48	1998	12.77	2009	13.82	2092	15.25	2173	16.69
3600	1016	0.91	910	1.71	1087	2.76	1242	3.90	1379	5.13	1502	6.39	1614	7.65	1720	9.59	1829	11.00	1909	11.48	1998	12.77	2009	13.82	2092	15.25	2173	16.69
4000	1129	1.06	933	1.91	1099	2.93	1252	4.16	1389	5.44	1512	6.79	1626	8.20	1730	9.59	1829	11.00	1909	11.48	1998	12.77	2009	13.82	2092	15.25	2173	16.69
4400	1242	1.22	958	2.13	1114	3.14	1263	4.39	1398	5.75	1521	7.16	1635	8.64	1742	10.19	1839	11.73	1932	13.26	2021	14.80	2106	16.35	2185	17.91	2262	19.48
4800	1355	1.39	990	2.38	1136	3.43	1275	4.62	1408	6.04	1530	7.54	1644	9.08	1750	10.68	1850	12.34	1944	14.03	2032	15.71	2116	17.38	2198	19.07	2276	20.75
5200	1468	1.58	1029	2.66	1161	3.75	1293	4.94	1420	6.33	1541	7.89	1653	9.52	1759	11.18	1859	12.89	1953	14.67	2043	16.50	2128	18.32	2208	20.13	2286	21.95
5600	1580	1.80	1067	2.96	1188	4.09	1316	5.34	1435	6.68	1553	8.24	1664	9.92	1769	11.68	1868	13.47	1963	15.28	2052	17.17	2137	19.11	2220	21.10	2298	23.04
6000	1693	2.04	1106	3.27	1224	4.49	1341	5.77	1455	7.13	1566	8.62	1676	10.34	1779	12.14	1878	14.03	1971	15.92	2061	17.86	2147	19.84	2228	21.88	2307	23.97
6400	1806	2.30	1146	3.60	1263	4.93	1367	6.22	1480	7.65	1585	9.12	1688	10.77	1791	12.62	1888	14.53	1981	16.53	2070	18.56	2155	20.60	2238	22.68	2316	24.83
6800	1919	2.59	1186	3.94	1301	5.37	1401	6.74	1505	8.19	1608	9.72	1706	11.32	1803	13.09	1900	15.07	1992	17.10	2080	19.21	2165	21.36	2246	23.52	2325	25.71
7200	2032	2.91	1227	4.32	1340	5.83	1440	7.30	1532	8.76	1633	10.36	1728	11.98	1820	13.71	1912	15.61	2004	17.69	2091	19.84	2175	22.05	2256	24.33	2334	26.60
7600	2145	3.26	1269	4.73	1379	6.32	1479	7.89	1567	9.41	1658	11.01	1753	12.73	1841	14.44	1929	16.29	2016	18.30	2103	20.48	2187	22.75	2267	25.06	2345	27.44
8000	2258	3.64	1311	5.17	1420	6.82	1517	8.49	1605	10.12	1687	11.73	1777	13.47	1866	15.28	1950	17.10	2033	19.05	2115	21.16	2198	23.44	2279	25.83	2356	28.23
8400	2371	4.06	1355	5.65	1460	7.34	1556	9.12	1644	10.85	1723	12.53	1803	14.26	1891	16.13	1974	18.02	2053	19.95	2132	22.00	2211	24.21	2290	26.56	2368	29.08
8800	2483	4.51	1400	6.17	1501	7.91	1595	9.76	1682	11.59	1762	13.38	1836	15.14	1915	17.01	1999	18.98	2077	20.96	2153	22.99	2228	25.14	2303	27.43	2378	29.87
9200	2596	4.99	1445	6.72	1543	8.52	1635	10.43	1721	12.36	1801	14.25	1873	16.09	1945	17.97	2023	19.96	2102	22.03	2177	24.10	2249	26.21	2321	28.46	2393	30.83
9600	2709	5.51	1490	7.30	1585	9.17	1676	11.12	1760	13.16	1839	15.15	1913	17.10	1980	19.02	2050	21.00	2127	23.11	2202	25.28	2273	27.43	2342	29.63	2411	31.96
10000	2822	6.07	1536	7.93	1628	9.86	1717	11.87	1800	13.98	1877	16.07	1951	18.12	2018	20.13	2084	22.14	2152	24.23	2226	26.45	2298	28.72	2366	30.95	2433	33.25
10400	2935	6.67	1582	8.60	1672	10.59	1758	12.66	1840	14.82	1916	17.02	1989	19.17	2058	21.30	2121	23.36	2185	25.48	2251	27.67	2322	29.99	2391	32.35	2457	34.68
10800	3048	7.31	1629	9.32	1717	11.37	1800	13.49	1881	15.69	1956	17.99	2027	20.24	2096	22.47	2160	24.65	2220	26.80	2282	29.01	2347	31.32	2416	33.73	2482	36.18
11200	3161	7.99	1676	10.08	1762	12.19	1842	14.37	1922	16.63	1996	18.99	2066	21.35	2134	23.67	2199	25.96	2259	28.20	2317	30.45	2377	32.75	2441	35.16	2507	37.67
11600	3274	8.73	1723	10.89	1807	13.06	1886	15.30	1963	17.62	2037	20.02	2106	22.48	2173	24.90	2237	27.29	2298	29.67	2355	31.96	2411	34.30	2469	36.70	2531	39.21
12000	3387	9.51	1770	11.74	1853	13.98	1930	16.28	2005	18.66	2077	21.10	2146	23.64	2212	26.17	2275	28.66	2336	31.12	2394	33.55	2448	35.93	2503	38.36	2559	40.85
12400	3499	10.34	1817	12.65	1899	14.95	1974	17.32	2047	19.74	2119	22.25	2187	24.83	2251	27.47	2314	30.06	2374	32.61	2433	35.15	2487	37.64	2540	40.11	2593	42.63
12800	3612	11.20	1865	13.60	1945	15.97	2019	18.40	2090	20.89	2160	23.45	2227	26.06	2291	28.79	2353	31.49	2413	34.14	2471	36.78	2526	39.40	2578	41.94	2629	44.50
13200	3725	12.10	1914	14.60	1992	17.04	2064	19.54	2134	22.09	2202	24.70	2268	27.38	2332	30.15	2393	32.95	2451	35.72	2509	38.44	2564	41.15	2618	43.85	2667	46.46
13600	3838	13.06	1963	15.65	2038	18.17	2110	20.73	2178	23.34	2244	26.01	2310	28.75	2373	31.54	2433	34.44	2491	37.31	2547	40.14	2603	42.94	2656	45.73		
14000	3951	14.07	2012	16.76	2085	19.36	2156	21.98	2223	24.66	2287	27.38	2351	30.17	2414	33.02	2473	35.97	2531	38.94	2586	41.88	2641	44.78				
14400	4064	15.13	2061	17.92	2132	20.61	2202	23.29	2268	26.03	2331	28.81	2393	31.66	2455	34.57	2514	37.53	2571	40.61	2626	43.65	2680	46.66				

Class I Fans. 
  Class II Fans. 
  Class III Fans. 
  Class IV Fans.

Power rating (watts, kW, or BHP) does not include transmission losses.  
 Performance ratings do not include the effects of appurtenances (accessories).  
 For static pressure greater than 14", contact Verantis.

CLUB-3000 Catalog Table

**CLUB-3000**  
(BACKWARD CURVED IMPELLER)

Impeller Dia. 30.38" O.D. 30" I.D. Outlet Size 30-1/2" x 22-3/4"  
 Tip Speed (fpm) 7.95 \* RPM 4.91 sq. ft. Inlet Dia. 8" Inlet Area 4.82 ft<sup>2</sup>

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.		
	CFM	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
4000	830	557	0.79	737	1.65	889	2.62	1020	3.61																				
4500	934	577	0.90	748	1.80	896	2.86	1025	3.95	1141	5.07																		
5000	1038	599	1.03	762	1.97	905	3.08	1031	4.28	1146	5.49	1251	6.74																
5500	1141	622	1.18	781	2.16	916	3.30	1040	4.58	1152	5.91	1256	7.24	1352	8.60														
6000	1245	646	1.33	802	2.38	929	3.55	1049	4.87	1159	6.29	1261	7.74	1357	9.19	1447	10.67												
6500	1349	674	1.50	822	2.62	947	3.83	1061	5.18	1169	6.66	1269	8.21	1362	9.77	1451	11.35	1537	12.93	1615	14.57								
7000	1453	703	1.68	844	2.88	967	4.15	1075	5.51	1180	7.03	1278	8.65	1370	10.32	1457	12.01	1540	13.70	1621	15.40	1768	18.91						
7500	1556	732	1.88	867	3.16	988	4.48	1093	5.89	1193	7.43	1289	9.09	1380	10.85	1465	12.63	1547	14.44	1625	16.25	1774	19.90	1843	21.78				
8000	1660	762	2.10	890	3.46	1009	4.84	1113	6.31	1208	7.87	1301	9.55	1390	11.35	1475	13.23	1555	15.13	1632	17.06	1706	18.99	1778	20.92	1848	22.86	1915	24.84
8500	1764	794	2.34	915	3.77	1031	5.23	1134	6.76	1227	8.35	1315	10.05	1402	11.88	1484	13.80	1564	15.81	1640	17.82	1713	19.86	1784	21.92	1852	23.97	1919	26.03
9000	1868	827	2.60	942	4.10	1053	5.64	1155	7.22	1247	8.88	1332	10.61	1415	12.45	1496	14.41	1574	16.45	1650	18.57	1722	20.70	1791	22.86	1859	25.04	1924	27.21
9500	1972	860	2.88	971	4.45	1076	6.08	1176	7.72	1268	9.44	1351	11.21	1431	13.07	1509	15.04	1586	17.13	1659	19.28	1731	21.52	1800	23.77	1866	26.03	1931	28.33
10000	2075	894	3.18	1000	4.82	1099	6.54	1198	8.25	1289	10.02	1372	11.86	1449	13.75	1524	15.74	1598	17.84	1671	20.04	1741	22.30	1810	24.65	1876	27.02	1939	29.40
10500	2179	927	3.52	1028	5.22	1125	7.02	1221	8.81	1310	10.63	1393	12.53	1469	14.48	1542	16.50	1613	18.61	1684	20.83	1753	23.14	1820	25.51	1885	27.96	1949	30.45
11000	2283	961	3.87	1058	5.65	1153	7.51	1244	9.40	1332	11.28	1413	13.23	1490	15.26	1561	17.31	1630	19.45	1698	21.68	1765	24.00	1832	26.43	1896	28.90	1958	31.45
11500	2387	995	4.26	1090	6.11	1182	8.02	1267	10.01	1354	11.97	1435	13.97	1511	16.05	1583	18.18	1649	20.34	1715	22.59	1780	24.94	1844	27.37	1908	29.90	1969	32.48
12000	2490	1031	4.68	1122	6.59	1210	8.57	1293	10.65	1377	12.69	1457	14.75	1532	16.87	1603	19.07	1670	21.30	1734	23.58	1797	25.94	1859	28.39	1920	30.93	1982	33.56
12500	2594	1066	5.13	1155	7.10	1239	9.15	1320	11.30	1400	13.44	1479	15.57	1553	17.74	1624	19.99	1691	22.30	1754	24.62	1815	27.01	1875	29.48	1935	32.03	1994	34.67
13000	2698	1102	5.61	1188	7.64	1268	9.77	1348	11.97	1423	14.22	1502	16.43	1575	18.66	1644	20.95	1712	23.31	1775	25.72	1835	28.15	1894	30.64	1952	33.21	2009	35.87
13500	2802	1139	6.12	1221	8.21	1298	10.42	1377	12.67	1450	15.02	1525	17.31	1598	19.62	1666	21.96	1732	24.37	1796	26.84	1856	29.35	1914	31.87	1970	34.47	2026	37.14
14000	2905	1175	6.66	1254	8.82	1329	11.10	1405	13.42	1477	15.83	1548	18.24	1620	20.62	1688	23.02	1753	25.47	1816	27.99	1877	30.57	1935	33.18	1990	35.80	2044	38.50
14500	3009	1212	7.24	1288	9.47	1361	11.81	1434	14.20	1506	16.67	1573	19.19	1643	21.65	1711	24.12	1775	26.63	1837	29.19	1898	31.83	1955	34.50	2010	37.20	2064	39.93
15000	3113	1248	7.86	1322	10.15	1394	12.56	1463	15.02	1534	17.54	1600	20.15	1666	22.71	1734	25.27	1798	27.83	1859	30.45	1918	33.12	1976	35.86	2031	38.64	2084	41.43
15500	3217	1285	8.52	1355	10.87	1427	13.34	1493	15.88	1563	18.46	1627	21.13	1690	23.82	1757	26.44	1820	29.09	1881	31.76	1939	34.48	1997	37.26	2052	40.10	2105	42.98
16000	3320	1322	9.22	1390	11.64	1460	14.16	1524	16.78	1591	19.42	1656	22.14	1717	24.93	1780	27.66	1843	30.38	1903	33.12	1961	35.89	2017	38.72	2073	41.61	2126	44.55
16500	3424	1359	9.96	1424	12.44	1493	15.02	1556	17.72	1620	20.43	1685	23.20	1744	26.07	1803	28.92	1866	31.72	1926	34.54	1984	37.36	2039	40.24	2093	43.16	2147	46.16
17000	3528	1396	10.73	1460	13.28	1526	15.93	1588	18.69	1649	21.48	1713	24.31	1772	27.24	1830	30.19	1889	33.09	1949	35.98	2006	38.89	2061	41.81	2115	44.79	2167	47.82
17500	3632	1434	11.53	1495	14.17	1560	16.88	1621	19.70	1680	22.57	1742	25.47	1801	28.42	1857	31.49	1913	34.51	1972	37.47	2029	40.46	2084	43.45	2137	46.47	2189	49.55
18000	3736	1472	12.37	1531	15.10	1593	17.88	1654	20.76	1711	23.71	1770	26.67	1830	29.69	1885	32.81	1939	35.94	1995	39.01	2052	42.06	2106	45.14	2159	48.22	2210	51.35
18500	3839	1509	13.25	1567	16.08	1627	18.92	1687	21.85	1743	24.88	1799	27.92	1858	31.00	1914	34.16	1966	37.39	2019	40.59	2075	43.72	2129	46.87	2182	50.03	2233	53.21

Class I Fans. 
  Class II Fans. 
  Class III Fans. 
  Class IV Fans.

Power rating (watts, kW, or BHP) does not include transmission losses.  
 Performance ratings do not include the effects of appurtenances (accessories).  
 For static pressure greater than 14", contact Verantis.



CLUB-3650 Catalog Table

**CLUB-3650**

(BACKWARD CURVED IMPELLER)

Impeller Dia. 37.00 " O.D.  
Tip Speed (fpm) 9.69 \* RPM

Inlet Dia. 36 " I.D.  
Inlet Area 7.07 sq. ft.

Outlet Size 37-1/8" x 27-5/8"  
Outlet Area 7.12 ft<sup>2</sup>

VOL CFM	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
6250	878	1.35	639	2.71	756	4.28	863	6.06	965	8.47	1057	11.20	1139	13.57	1219	16.78	1293	20.29										
7000	983	1.57	657	2.99	770	4.64	870	6.46	972	8.98	1064	11.81	1143	14.23	1219	16.78	1293	20.29										
7750	1088	1.80	676	3.30	785	5.03	882	6.92	972	8.98	1057	11.20	1139	13.57	1219	16.78	1293	20.29										
8500	1193	2.05	697	3.65	803	5.45	897	7.43	983	9.55	1064	11.81	1143	14.23	1219	16.78	1293	20.29										
9250	1299	2.33	721	4.05	822	5.91	913	7.96	998	10.16	1076	12.49	1151	14.95	1223	17.57	1293	20.29										
10000	1404	2.64	747	4.49	842	6.41	931	8.54	1013	10.81	1090	13.22	1162	16.62	1231	18.40	1299	21.19	1365	24.09	1429	27.11						
10750	1509	2.99	773	4.95	864	6.96	951	9.16	1031	11.51	1106	14.00	1177	17.60	1244	19.32	1308	22.14	1372	25.10	1434	28.18	1494	31.35	1553	34.63		
11500	1615	3.37	798	5.45	889	7.58	971	9.83	1050	12.26	1123	14.82	1192	17.50	1258	20.30	1321	23.19	1381	26.19	1441	29.31	1500	32.54	1557	35.88	1613	39.31
12250	1720	3.78	825	5.97	915	8.24	993	10.55	1069	13.05	1141	15.69	1209	18.45	1273	21.32	1336	24.30	1395	27.37	1452	30.53	1508	33.81	1564	37.19	1619	40.69
13000	1825	4.23	851	6.53	940	8.94	1017	11.35	1090	13.90	1160	16.62	1227	19.45	1290	22.40	1351	25.45	1410	28.61	1466	31.84	1520	35.17	1573	38.60	1626	42.13
13750	1931	4.73	879	7.13	966	9.67	1043	12.22	1112	14.82	1180	17.60	1245	20.51	1308	23.54	1367	26.66	1425	29.89	1481	33.22	1534	36.62	1586	40.11	1637	43.68
14500	2036	5.28	906	7.79	992	10.44	1068	13.12	1136	15.82	1201	18.65	1265	21.63	1326	24.74	1385	27.94	1441	31.24	1496	34.64	1550	38.13	1601	41.70	1650	45.34
15250	2141	5.87	937	8.49	1019	11.23	1094	14.07	1162	16.89	1224	19.77	1286	22.82	1346	25.99	1404	29.28	1459	32.66	1513	36.13	1565	39.69	1616	43.35	1665	47.07
16000	2247	6.52	969	9.25	1046	12.08	1120	15.06	1187	18.01	1248	20.99	1307	24.07	1366	27.32	1423	30.68	1478	34.14	1530	37.69	1582	41.32	1631	45.05		
16750	2352	7.22	1002	10.05	1073	12.99	1146	16.08	1213	19.18	1274	22.28	1331	25.43	1387	28.72	1443	32.15	1497	35.69	1549	39.32	1599	43.03	1648	46.83		
17500	2457	7.97	1036	10.90	1100	13.96	1173	17.14	1239	20.40	1300	23.63	1356	26.88	1410	30.21	1464	33.70	1517	37.31	1568	41.02	1618	44.81	1666	48.69		
18250	2562	8.77	1070	11.80	1130	14.99	1199	18.25	1265	21.65	1325	25.02	1382	28.41	1434	31.81	1485	35.33	1538	39.01	1588	42.79	1637	46.66	1685	50.62		
19000	2668	9.64	1103	12.77	1162	16.08	1226	19.44	1291	22.94	1351	26.47	1407	29.99	1459	33.51	1509	37.09	1559	40.79	1609	44.65	1657	48.60	1704	52.63		
19750	2773	10.58	1137	13.81	1194	17.23	1254	20.69	1317	24.28	1377	27.97	1433	31.61	1485	35.29	1534	38.94	1582	42.70	1630	46.59	1678	50.62				
20500	2878	11.58	1171	14.92	1227	18.44	1281	22.01	1344	25.69	1403	29.50	1459	33.31	1511	37.09	1560	40.90	1606	44.72	1652	48.65	1699	52.72				
21250	2984	12.65	1205	16.09	1260	19.70	1312	23.41	1371	27.18	1430	31.09	1485	35.05	1536	38.97	1586	42.91	1632	46.85	1677	50.84	1721	54.94				
22000	3089	13.79	1239	17.34	1294	21.03	1344	24.88	1399	28.74	1456	32.72	1511	36.83	1562	40.92	1611	44.98	1658	49.07	1702	53.14						
22750	3194	15.02	1274	18.66	1328	22.44	1376	26.41	1426	30.38	1483	34.46	1537	38.67	1588	42.91	1637	47.11	1683	51.32	1727	55.55						
23500	3300	16.32	1308	20.05	1362	23.94	1409	28.01	1456	32.10	1510	36.28	1563	40.56	1614	44.95	1663	49.32	1709	53.65	1753	58.01						
24250	3405	17.67	1343	21.52	1395	25.51	1442	29.68	1488	33.91	1538	38.17	1590	42.54	1641	47.04	1689	51.57	1735	56.05								
25000	3510	19.07	1378	23.06	1429	27.16	1476	31.41	1520	35.79	1565	40.15	1617	44.62	1667	49.19	1715	53.87	1761	58.52								
25750	3616	20.55	1413	24.69	1463	28.90	1510	33.22	1552	37.74	1596	42.22	1645	46.78	1694	51.44	1741	56.23										
26500	3721	22.11	1448	26.40	1498	30.73	1544	35.15	1585	39.76	1627	44.38	1672	49.03	1721	53.79	1768	58.65										
27250	3826	23.74	1483	28.20	1532	32.64	1577	37.16	1619	41.87	1659	46.63	1701	51.37	1748	56.23	1794	61.16										
28000	3931	25.46	1518	30.09	1566	34.65	1611	39.27	1653	44.04	1692	48.95	1731	53.82	1776	58.76												

Class I Fans. 
  Class II Fans. 
  Class III Fans. 
  Class IV Fans.

Power rating (watts, kW, or BHP) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

For static pressure greater than 14", contact Verantis.

CLUB-4450 Catalog Table

**CLUB-4450**

(BACKWARD CURVED IMPELLER)

Impeller Dia. 45.00 " O.D.  
Tip Speed (fpm) 11.78 \* RPM

Inlet Dia. 42 " I.D.  
Inlet Area 9.62 sq. ft.

Outlet Size 45-1/4" x 33-3/4"  
Outlet Area 10.61 ft<sup>2</sup>

VOL CFM	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			
8400	792	1.65	495	3.52	599	5.55																									
9600	905	1.92	503	3.87	603	6.14	692	8.47																							
10800	1018	2.22	513	4.26	610	6.69	695	9.28	774	11.89	844	14.62																			
12000	1131	2.56	526	4.72	618	7.22	701	10.02	777	12.90	848	15.81	912	18.80																	
13200	1245	2.93	541	5.25	628	7.81	709	10.71	783	13.83	851	17.02	916	20.21	977	23.45															
14400	1358	3.33	557	5.81	641	8.49	717	11.45	790	14.71	857	18.13	920	21.60	980	25.08	1038	28.58	1091	32.19											
15600	1471	3.77	573	6.44	656	9.26	728	12.27	798	15.61	864	19.19	926	22.90	985	26.66	1040	30.42	1094	34.20	1146	38.03	1194	41.97							
16800	1584	4.27	590	7.13	671	10.08	742	13.21	808	16.58	872	20.25	933	24.14	991	28.12	1046	32.16	1098	36.22	1149	40.28	1198	44.36	1245	48.53	1290	52.78			
18000	1697	4.81	607	7.87	687	10.96	757	14.24	820	17.68	882	21.39	941	25.37	998	29.53	1052	33.80	1103	38.11	1153	42.47	1201	46.81	1248	51.17	1294	55.54			
19200	1810	5.40	627	8.64	703	11.92	772	15.33	835	18.89	893	22.65	950	26.68	1006	30.94	1059	35.38	1110	39.93	1159	44.51	1206	49.15	1252	53.78	1297	58.42			
20400	1924	6.05	648	9.44	720	12.94	788	16.48	850	20.21	907	24.05	961	28.11	1015	32.43	1067	36.97	1117	41.66	1166	46.50	1212	51.34	1258	56.24	1302	61.19			
21600	2037	6.77	669	10.31	737	14.03	804	17.72	865	21.57	922	25.57	974	29.70	1025	34.05	1076	38.64	1125	43.44	1173	48.39	1220	53.51	1264	58.62	1307	63.78			
22800	2150	7.55	690	11.26	755	15.17	821	19.06	881	23.02	937	27.17	989	31.42	1038	35.83	1086	40.45	1134	45.31	1182	50.37	1227	55.56	1271	60.91	1314	66.32			
24000	2263	8.40	712	12.28	776	16.34	838	20.45	897	24.57	952	28.84	1004	33.26	1052	37.76	1099	42.44	1145	47.32	1191	52.43	1235	57.74	1279	63.16	1321	68.74			
25200	2376	9.32	735	13.36	797	17.56	855	21.93	914	26.22	968	30.60	1019	35.16	1068	39.83	1113	44.58	1157	49.51	1201	54.65	1245	60.00	1288	65.55	1329	71.20			
26400	2489	10.32	759	14.52	818	18.88	874	23.45	930	27.94	984	32.47	1035	37.14	1083	41.97	1128	46.87	1171	51.87	1213	57.06	1255	62.44	1297	68.01	1338	73.79			
27600	2602	11.40	783	15.75	839	20.29	894	25.01	947	29.75	1001	34.46	1051	39.24	1098	44.18	1144	49.27	1186	54.40	1227	59.65	1268	65.08	1308	70.68	1347	76.48			
28800	2716	12.57	807	17.06	860	21.78	915	26.63	965	31.63	1018	36.52	1067	41.46	1114	46.51	1159	51.72	1202	57.05	1242	62.41	1281	67.90	1320	73.56					
30000	2829	13.82	832	18.46	883	23.36	936	28.35	985	33.55	1035	38.67	1084	43.80	1130	48.97	1174	54.28	1217	59.75	1258	65.32	1296	70.90	1334	76.62					
31200	2942	15.16	856	19.96	907	25.02	957	30.18	1005	35.53	1052	40.93	1100	46.21	1146	51.55	1190	56.98	1232	62.56	1273	68.27	1312	74.07	1349	79.88					
32400	3055	16.60	881	21.56	930	26.78	978	32.10	1027	37.56	1071	43.21	1117	48.73	1163	54.26	1206	59.82	1248	65.50	1288	71.33	1327	77.28							
33600	3168	18.14	906	23.25	954	28.62	1000	34.12	1047	39.73	1091	45.55	1135	51.35	1180	57.04	1223	62.78	1264	68.59	1304	74.52	1342	80.60							
34800	3281	19.79	931	25.05	979	30.55	1023	36.25	1069	42.01	1112	47.95	1154	54.01	1197	59.93	1240	65.86	1280	71.82	1320	77.87									
36000	3394	21.54	957	26.95	1003	32.59	1046	38.48	1090	44.40	1133	50.45	1174	56.73	1214	62.94	1257	69.03	1297	75.19	1336	81.36									
37200	3508	23.37	983	28.96	1028	34.76	1070	40.80	1111	46.90	1154	53.11	1194	59.51	1233	65.98	1274	72.32	1314	78.64											
38400	3621	25.28	1009	31.09	1053	37.04	1094	43.23	1134	49.52	1175	55.88	1216	62.36	1253	69.09	1291	75.72	1331	82.21											
39600	3734	27.30	1036	33.33	1078	39.43	1118	45.76	1157	52.25	1197	58.77	1237	65.41	1274	72.26	1310	79.14	1348	85.91											
40800	3847	29.44	1062	35.69	1103	41.95	1143	48.40	1181	55.09	1218	61.78	1258	68.57	1295	75.51	1330	82.64													
42000	3960	31.69	1089	38.17	1128	44.59	1167	51.20	1204	58.04	1241	64.92	1279	71.87	1316	78.93															
43200	4073	34.06	1116	40.79	1153	47.37	1192	54.12	1229	61.11	1264	68.18	1300	75.29	1337	82.50															

Class I Fans.
  Class II Fans.
  Class III Fans.
  Class IV Fans.

Power rating (watts, kW, or BHP) does not include transmission losses.  
 Performance ratings do not include the effects of appurtenances (accessories).  
 For static pressure greater than 14", contact Verantis.



CLUB-4850 Catalog Table

**CLUB-4850**

(BACKWARD CURVED IMPELLER)

Impeller Dia. 49.00 " O.D.  
Tip Speed (fpm) 12.83 \* RPM

Inlet Dia.  
Inlet Area

48 " I.D.  
12.57 sq. ft.

Outlet Size 49-3/8" x 36-3/4"  
Outlet Area 12.60 ft<sup>2</sup>

VOL CFM	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	
10000	794	341	1.97	4.18	550	6.60																							
11500	913	356	2.30	4.62	554	7.34	635	10.12																					
13000	1032	371	2.68	5.12	561	8.01	639	11.13	711	14.27	775	17.52																	
14500	1151	388	3.11	5.71	569	8.68	645	12.04	715	15.52	779	19.02	839	22.60															
16000	1270	406	3.59	6.38	579	9.44	653	12.91	720	16.67	783	20.51	842	24.38	898	28.27													
17500	1389	426	4.10	7.11	592	10.33	662	13.85	727	17.75	789	21.88	847	26.08	901	30.31	953	34.55	1003	38.87									
19000	1508	446	4.67	7.92	607	11.31	673	14.93	736	18.90	796	23.19	853	27.68	906	32.22	957	36.82	1006	41.41	1054	46.02	1098	50.76					
20500	1627	468	5.31	8.80	622	12.36	687	16.15	746	20.17	805	24.56	860	29.20	913	34.05	962	38.93	1010	43.89	1057	48.83	1101	53.80	1145	58.78			
22000	1746	491	6.02	9.75	638	13.51	702	17.47	759	21.61	814	26.03	868	30.79	919	35.77	969	40.97	1016	46.19	1061	51.49	1105	56.80	1148	62.12	1189	67.45	
23500	1865	514	6.80	10.73	654	14.75	717	18.86	774	23.20	826	27.69	877	32.49	928	37.60	976	42.90	1023	48.43	1068	54.00	1111	59.62	1153	65.31	1193	70.98	
25000	1984	538	7.65	11.77	670	16.07	732	20.37	789	24.87	840	29.53	889	34.38	937	39.52	985	44.96	1030	50.59	1074	56.42	1117	62.35	1158	68.30	1198	74.31	
26500	2103	562	8.59	12.92	687	17.48	748	21.99	803	26.64	855	31.50	903	36.47	949	41.67	994	47.14	1039	52.89	1082	58.82	1124	64.94	1165	71.24			
28000	2222	586	9.62	14.16	706	18.93	764	23.71	819	28.53	870	33.55	918	38.74	962	44.02	1005	49.54	1048	55.32	1091	61.37	1132	67.61	1172	74.01			
29500	2341	610	10.75	15.49	727	20.43	781	25.52	835	30.55	885	35.71	932	41.08	977	46.56	1019	52.16	1060	58.00	1100	64.07	1141	70.41	1180	76.95			
31000	2460	635	11.98	16.92	747	22.05	798	27.42	851	32.69	901	38.02	947	43.53	992	49.22	1033	54.98	1073	60.90	1112	67.03	1151	73.40	1189	80.00			
32500	2579	661	13.31	18.44	768	23.79	818	29.36	868	34.93	917	40.47	962	46.12	1006	51.97	1048	57.96	1087	64.02	1125	70.23	1162	76.65	1199	83.29			
34000	2698	686	14.75	20.06	788	25.64	838	31.37	884	37.28	933	43.05	978	48.87	1021	54.85	1063	61.02	1102	67.32	1139	73.65	1175	80.15					
35500	2817	712	16.31	21.81	810	27.60	859	33.51	903	39.67	949	45.73	994	51.79	1037	57.91	1077	64.21	1117	70.69	1154	77.28	1190	83.89					
37000	2936	738	17.99	23.68	833	29.68	879	35.79	923	42.13	966	48.54	1011	54.81	1053	61.14	1093	67.58	1132	74.19	1169	80.97							
38500	3055	765	19.79	25.67	856	31.87	900	38.20	944	44.67	985	51.39	1027	57.95	1069	64.52	1109	71.12	1147	77.88	1184	84.80							
40000	3174	791	21.72	27.80	879	34.18	921	40.74	964	47.41	1004	54.33	1044	61.24	1085	68.01	1125	74.85	1162	81.75	1199	88.80							
41500	3293	817	23.80	30.07	903	36.61	943	43.42	985	50.28	1025	57.34	1062	64.57	1102	71.65	1141	78.71	1178	85.81									
43000	3412	844	26.02	32.47	926	39.20	966	46.22	1005	53.29	1045	60.51	1082	67.99	1119	75.42	1157	82.70	1195	90.05									
44500	3531	870	28.32	35.02	950	41.94	989	49.16	1026	56.46	1065	63.86	1102	71.49	1138	79.24	1174	86.85											
46000	3651	897	30.75	37.72	974	44.84	1012	52.23	1048	59.77	1086	67.37	1123	75.12	1157	83.15	1191	91.11											
47500	3770	924	33.33	40.58	998	47.89	1036	55.44	1071	63.23	1107	71.04	1143	78.98	1177	87.15													
49000	3889	951	36.06	43.59	1023	51.10	1059	58.82	1094	66.84	1128	74.87	1164	83.00	1198	91.27													
50500	4008	978	38.94	46.77	1047	54.47	1083	62.39	1117	70.59	1150	78.87	1184	87.19															
52000	4127	1005	41.98	50.12	1071	58.03	1107	66.13	1141	74.50	1173	83.02																	
53500	4246	1032	45.18	53.65	1097	61.75	1131	70.05	1164	78.56	1196	87.34																	

Class I Fans.
  Class II Fans.
  Class III Fans.
  Class IV Fans.

Power rating (watts, kW, or BHP) does not include transmission losses.  
 Performance ratings do not include the effects of appurtenances (accessories).  
 For static pressure greater than 14", contact Verantis.

CLUB-5425 Catalog Table

**CLUB-5425**

(BACKWARD CURVED IMPELLER)

Impeller Dia. 55.00 " O.D.  
Tip Speed (fpm) 14.40 \* RPM

Inlet Dia. 54 " I.D.  
Inlet Area 15.90 sq. ft.

Outlet Size 55-1/4" x 41-1/8"  
Outlet Area 15.78 ft<sup>2</sup>

VOL CFM	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
13000	824	307	2.56	407	5.39	8.52	563	11.77	630	16.63	22.19																	
14750	935	319	2.96	413	5.90	9.37	566	12.93	633	18.08	691	22.19																
16500	1046	332	3.41	421	6.49	10.15	570	14.09	633	18.08	691	22.19																
18250	1157	345	3.92	433	7.19	10.93	575	15.16	637	19.54	694	23.95	747	28.45														
20000	1268	360	4.47	445	7.97	11.81	581	16.17	641	20.88	697	25.69	750	30.52	800	35.41	846	40.46										
21750	1378	377	5.06	457	8.81	12.83	588	17.26	647	22.15	702	27.30	754	32.54	802	37.79	849	43.06	893	48.48								
23500	1489	393	5.71	470	9.74	13.96	597	18.48	654	23.48	708	28.84	758	34.41	806	40.06	852	45.74	896	51.43	938	57.17	978	63.09				
25250	1600	411	6.44	484	10.74	15.16	608	19.86	662	24.91	714	30.40	764	36.21	811	42.20	856	48.25	899	54.36	940	60.46	981	66.58	1019	72.82	1056	79.19
27000	1711	429	7.24	498	11.82	16.45	620	21.38	672	26.52	722	32.06	770	38.01	817	44.24	861	50.65	903	57.10	944	63.63	983	70.15	1021	76.68	1059	83.24
28750	1822	448	8.11	513	12.95	17.86	633	22.96	683	28.30	731	33.92	778	39.93	823	46.30	867	52.93	909	59.76	948	66.60	987	73.54	1025	80.49	1061	87.43
30500	1933	468	9.05	530	14.12	19.36	645	24.64	696	30.22	742	35.96	786	42.03	830	48.48	873	55.26	914	62.28	954	69.51	992	76.75	1029	84.07	1065	91.46
32250	2044	487	10.10	547	15.39	20.95	658	26.46	708	32.21	754	38.18	797	44.34	839	50.84	880	57.70	921	64.87	960	72.26	998	79.91	1034	87.53	1069	95.23
34000	2155	507	11.23	564	16.77	22.61	671	28.40	720	34.31	766	40.51	808	46.85	849	53.43	889	60.34	928	67.59	966	75.14	1003	82.89	1040	90.88		
35750	2266	527	12.47	581	18.25	24.31	685	30.43	733	36.57	778	42.93	821	49.53	860	56.23	899	63.22	936	70.51	974	78.14	1010	86.06	1046	94.15		
37500	2377	547	13.81	600	19.83	26.08	698	32.57	746	38.96	791	45.49	833	52.29	873	59.25	910	66.32	946	73.69	982	81.36	1018	89.34	1053	97.63		
39250	2488	568	15.26	619	21.51	28.00	713	34.79	760	41.47	804	48.21	845	55.16	885	62.35	922	69.65	957	77.11	992	84.85	1026	92.88	1060	101.20		
41000	2598	589	16.82	638	23.29	30.03	729	37.06	773	44.09	817	51.08	858	58.20	897	65.57	934	73.13	969	80.77	1003	88.60	1036	96.69	1069	105.06		
42750	2709	610	18.50	657	25.17	32.19	746	39.41	787	46.83	830	54.08	871	61.41	909	68.94	946	76.70	981	84.62	1014	92.59	1047	100.77				
44500	2820	632	20.31	677	27.20	34.47	763	41.88	803	49.61	844	57.20	884	64.80	922	72.49	958	80.41	993	88.54	1027	96.82	1058	105.11				
46250	2931	653	22.24	697	29.36	36.87	780	44.52	819	52.48	858	60.45	898	68.30	935	76.22	971	84.30	1006	92.61	1039	101.09						
48000	3042	675	24.31	716	31.66	39.40	797	47.30	836	55.42	873	63.78	911	71.94	948	80.14	984	88.39	1018	96.85	1051	105.52						
49750	3153	697	26.52	736	34.09	42.06	814	50.21	853	58.53	889	67.17	925	75.72	962	84.17	997	92.67	1031	101.30	1063	110.12						
51500	3264	718	28.88	756	36.67	44.84	832	53.28	870	61.82	905	70.65	939	79.60	975	88.34	1010	97.13	1044	105.95								
53250	3375	740	31.39	777	39.40	47.76	850	56.48	887	65.26	922	74.23	955	83.54	989	92.68	1024	101.71	1057	110.81								
55000	3486	762	34.03	797	42.29	50.87	869	59.83	904	68.86	939	78.05	972	87.57	1004	97.11	1038	106.45										
56750	3597	784	36.77	818	45.34	54.14	888	63.32	921	72.62	956	82.04	989	91.69	1020	101.60	1051	111.36										
58500	3707	806	39.67	839	48.54	57.58	908	66.96	940	76.54	973	86.19	1006	96.02	1036	106.20	1066	116.34										
60250	3818	828	42.72	861	51.92	61.18	927	70.74	958	80.62	990	90.52	1022	100.57	1053	110.89												
62000	3929	851	45.93	882	55.47	64.96	947	74.73	977	84.86	1008	95.02	1039	105.30														
63750	4040	873	49.32	904	59.20	68.92	966	78.91	997	89.26	1026	99.70	1056	110.21														

Class I Fans. 
  Class II Fans. 
  Class III Fans. 
  Class IV Fans.

Power rating (watts, kW, or BHP) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

For static pressure greater than 14", contact Verantis.

CLUB-6000 Catalog Table

**CLUB-6000**

(BACKWARD CURVED IMPELLER)

Impeller Dia. 60.75" O.D.  
Tip Speed (fpm) 15.90 \* RPM

Inlet Dia. 60" I.D.  
Inlet Area 19.63 sq. ft.

Outlet Size 61" x 45-3/8"  
Outlet Area 19.22 ft<sup>2</sup>

VOL CFM	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.		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
15750	819	277	3.10	368	6.54	444	10.33																						
18000	936	289	3.61	374	7.21	448	11.43	513	15.78	571	20.29																		
20250	1054	301	4.19	382	7.96	453	12.43	516	17.27	573	22.16	626	27.19																
22500	1171	314	4.85	393	8.87	459	13.45	521	18.63	577	24.02	628	29.46	677	34.98														
24750	1288	328	5.57	405	9.88	468	14.60	527	19.94	582	25.74	632	31.67	679	37.65	725	43.66	766	49.87										
27000	1405	344	6.33	417	10.98	478	15.94	534	21.36	587	27.36	637	33.73	683	40.20	727	46.72	769	53.26	809	59.91	847	66.74						
29250	1522	360	7.20	429	12.20	490	17.42	543	22.98	594	29.09	642	35.68	688	42.59	731	49.59	772	56.66	811	63.73	850	70.82	886	78.10	920	85.53		
31500	1639	377	8.16	442	13.52	502	18.99	554	24.81	602	31.00	649	37.73	693	44.87	736	52.32	776	59.82	815	67.44	852	75.04	888	82.67	924	90.32	957	98.21
33750	1756	395	9.22	456	14.94	514	20.71	566	26.80	612	33.15	656	39.95	700	47.26	741	54.91	782	62.89	819	70.90	856	79.03	891	87.18	926	95.34	959	103.51
36000	1873	414	10.38	471	16.41	527	22.57	577	28.88	624	35.53	666	42.43	707	49.79	748	57.64	787	65.78	825	74.28	861	82.80	896	91.42	929	100.14	962	108.82
38250	1990	432	11.65	487	17.96	540	24.55	589	31.12	635	38.03	677	45.16	716	52.62	755	60.51	794	68.87	830	77.49	866	86.45	901	95.52	934	104.63	966	113.84
40500	2107	451	13.05	503	19.67	553	26.65	602	33.54	647	40.66	689	48.11	727	55.72	764	63.70	801	72.10	837	80.94	872	90.03	906	99.43	939	109.05		
42750	2224	470	14.59	520	21.52	568	28.81	615	36.11	659	43.48	700	51.16	739	59.09	775	67.19	810	75.67	844	84.54	879	93.84	912	103.40	944	113.22		
45000	2341	489	16.26	537	23.50	584	31.05	628	38.81	672	46.49	712	54.38	750	62.59	786	70.96	820	79.55	853	88.51	886	97.84	919	107.57	951	117.59		
47250	2458	509	18.08	555	25.61	600	33.45	641	41.64	684	49.67	724	57.81	762	66.24	798	74.93	831	83.74	863	92.80	895	102.22	927	111.99	958	122.14		
49500	2575	529	20.05	573	27.87	616	36.02	656	44.53	697	52.99	737	61.45	774	70.08	809	79.03	843	88.19	874	97.42	905	106.95	936	116.80	966	126.99		
51750	2692	549	22.17	592	30.26	632	38.76	672	47.53	710	56.49	750	65.28	786	74.17	821	83.30	855	92.73	886	102.35	916	112.01	946	121.97				
54000	2809	569	24.47	610	32.84	649	41.67	689	50.67	725	60.06	762	69.25	799	78.48	833	87.84	866	97.47	898	107.36	928	117.41	957	127.50				
56250	2926	590	26.93	629	35.60	667	44.74	705	54.05	740	63.73	775	73.42	812	82.97	846	92.61	878	102.45	910	112.57	940	122.90	969	133.37				
58500	3043	610	29.58	648	38.54	685	47.98	721	57.60	756	67.51	790	77.69	825	87.64	858	97.63	890	107.69	921	118.00	951	128.59						
60750	3161	631	32.42	667	41.67	703	51.39	737	61.36	772	71.51	805	82.06	838	92.50	871	102.81	903	113.20	934	123.73	963	134.49						
63000	3278	652	35.47	686	45.00	722	54.98	754	65.30	788	75.74	821	86.54	852	97.49	884	108.19	916	118.94	946	129.72								
65250	3395	673	38.72	705	48.53	740	58.77	772	69.44	805	80.19	837	91.17	867	102.56	897	113.79	929	124.84	959	136.00								
67500	3512	694	42.13	725	52.28	759	62.80	790	73.77	821	84.85	853	96.12	883	107.77	911	119.49	942	130.97										
69750	3629	715	45.69	745	56.24	778	67.04	809	78.30	838	89.73	869	101.29	899	113.10	927	125.30	955	137.33										
72000	3746	736	49.47	766	60.42	797	71.52	827	83.03	856	94.83	885	106.69	915	118.76	942	131.24												
74250	3863	757	53.46	786	64.83	816	76.22	846	87.96	874	100.14	902	112.32	931	124.68	959	137.31												
76500	3980	778	57.68	806	69.48	835	81.17	864	93.20	892	105.67	919	118.20	947	130.85														
78750	4097	799	62.12	827	74.38	854	86.37	883	98.68	910	111.41	936	124.31	963	137.27														
81000	4214	821	66.81	847	79.53	874	91.82	902	104.41	929	117.39	954	130.66																

Class I Fans.
  Class II Fans.
  Class III Fans.
  Class IV Fans.

Power rating (watts, kW, or BHP) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories).

For static pressure greater than 14", contact Verantis.

CLUB-7300 Catalog Table

**CLUB-7300**

(BACKWARD CURVED IMPELLER)

Impeller Dia. 74.00 " O.D.  
Tip Speed (fpm) 19.37 \* RPM

Inlet Dia. 72 " I.D.  
Inlet Area 28.27 sq. ft.

Outlet Size 74-1/4" x 55-1/4"  
Outlet Area 28.49 ft<sup>2</sup>

VOL CFM	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	
24000	842	229	4.74	303	9.89	365	15.65																						
27000	948	238	5.43	308	10.78	368	17.09	421	23.62	469	30.34	512	37.39																
30000	1053	247	6.21	314	11.80	372	18.42	424	25.59	471	32.84	514	40.30	553	48.05														
33000	1158	256	7.08	321	13.00	377	19.77	427	27.42	473	35.34	516	43.32	555	51.46	592	59.91												
36000	1264	267	8.03	330	14.32	382	21.27	431	29.15	476	37.64	518	46.31	557	55.01	594	63.82	629	72.94										
39000	1369	278	9.02	339	15.75	390	22.99	436	31.00	480	39.83	521	49.08	560	58.49	596	67.91	631	77.37	663	87.15								
42000	1474	290	10.13	348	17.32	398	24.92	442	33.06	485	42.08	525	51.74	563	61.72	599	71.85	633	81.99	665	92.16	697	102.52						
45000	1580	302	11.35	357	19.03	407	26.94	450	35.37	490	44.48	530	54.38	567	64.85	602	75.53	635	86.37	667	97.23	698	108.12	729	119.05	757	130.30	784	141.74
48000	1685	315	12.69	367	20.85	416	29.11	459	37.92	497	47.16	535	57.18	571	67.88	606	79.11	639	90.49	670	102.02	701	113.63	730	125.23	759	136.86	787	148.62
51000	1790	328	14.14	378	22.75	425	31.47	467	40.60	505	50.13	541	60.25	576	71.11	610	82.56	643	94.51	674	106.59	704	118.81	733	131.16	761	143.46	788	155.80
54000	1896	342	15.72	389	24.73	434	33.99	476	43.41	514	53.36	548	63.64	582	74.58	615	86.24	647	98.38	678	111.02	707	123.83	736	136.72	764	149.77	790	162.81
57000	2001	356	17.43	401	26.84	444	36.64	485	46.43	522	56.71	556	67.32	589	78.40	621	90.12	652	102.53	682	115.35	711	128.64	740	142.17	767	155.73	793	169.44
60000	2106	370	19.31	413	29.12	453	39.45	494	49.66	531	60.22	565	71.27	597	82.54	627	94.38	657	106.84	687	119.95	716	133.43	744	147.37	771	161.63		
63000	2211	384	21.34	425	31.56	464	42.32	503	53.07	540	63.95	574	75.32	605	87.01	635	99.00	664	111.56	692	124.72	721	138.51	748	152.63	775	167.18		
66000	2317	398	23.53	437	34.17	476	45.30	513	56.64	549	67.92	582	79.56	614	91.66	643	103.96	671	116.67	699	129.92	726	143.75	753	158.18	779	172.94		
69000	2422	412	25.90	451	36.94	488	48.41	523	60.38	558	72.12	591	84.05	622	96.46	652	109.23	679	122.14	706	135.53	732	149.45	758	163.93	784	178.97		
72000	2527	427	28.45	464	39.88	500	51.76	533	64.20	568	76.46	600	88.79	631	101.47	660	114.59	688	127.97	714	141.53	739	155.58	765	170.14	790	185.23		
75000	2633	442	31.18	478	42.98	512	55.31	545	68.13	577	81.01	610	93.80	640	106.76	669	120.17	696	133.96	722	147.90	747	162.12	772	176.81				
78000	2738	457	34.11	491	46.25	524	59.05	557	72.17	587	85.73	619	98.97	649	112.33	678	126.01	705	140.12	731	154.54	756	169.05	780	183.90				
81000	2843	472	37.24	505	49.77	537	63.00	569	76.48	598	90.53	629	104.35	659	118.18	687	132.15	714	146.52	740	161.29	764	176.33	788	191.41				
84000	2949	487	40.58	519	53.50	550	67.14	581	81.02	610	95.45	638	109.96	668	124.21	696	138.58	722	153.24	748	168.30	773	183.69						
87000	3054	502	44.14	533	57.45	563	71.49	592	85.79	622	100.50	649	115.66	678	130.46	705	145.32	732	160.27	757	175.59	782	191.30						
90000	3159	517	47.93	547	61.63	576	76.04	604	90.80	634	105.84	660	121.48	687	136.95	715	152.22	741	167.61	766	183.22	790	199.18						
93000	3265	533	51.96	561	66.04	590	80.79	617	96.04	645	111.47	672	127.44	697	143.59	724	159.37	750	175.25	775	191.18								
96000	3370	548	56.24	575	70.70	604	85.78	630	101.51	657	117.34	684	133.54	709	150.32	734	166.78	760	183.07	785	199.48								
99000	3475	563	60.74	590	75.61	618	91.07	644	107.21	669	123.47	696	140.04	720	157.21	744	174.36	769	191.15	794	208.03								
102000	3580	579	65.39	605	80.77	632	96.62	657	113.14	682	129.86	707	146.81	732	164.25	755	182.03	779	199.51										
105000	3686	595	70.29	619	86.20	646	102.43	671	119.31	695	136.51	719	153.86	744	171.54	767	189.86	789	208.04										
108000	3791	610	75.44	634	91.90	660	108.52	684	125.72	708	143.42	731	161.18	756	179.25	778	197.86												
111000	3896	626	80.85	649	97.87	674	114.89	698	132.41	721	150.59	744	168.80	767	187.24	790	206.01												

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# 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.





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## Contact Verantis

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

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[sales@verantis.com](mailto:sales@verantis.com)