FAN SERVICES INCORPORATED™

FUME HOOD FANS

FOR LABORATORY HOODS AND OTHER CORROSIVE FUME EXHAUST
SERIES 2600

amca CERTIFIED RATINGS
AIR PERFORMANCE
® AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.

December 2000

FUME HOOD FANS

SPECIFICALLY DESIGNED FOR CORROSIVE FUME SYSTEMS

Fume Hood Fans are designed for exhausting fumes from laboratory hoods… both institutional and industrial. Exhausts from industrial hoods over acid or alkalie vats are also primary applications for this rugged long-life unit. For quick, low-cost installation, Fume Hood Fans are shipped as a complete packaged ready-to-run unit. All Fume Hood Fans are completely checked at the factory to assure trouble-free operation. The standard Fume Hood Fan is equipped with a low speed (LS) forward-curved impeller. Corrosion resistant Monel (nickel-400), stainless steel, aluminum or coated steel impeller designs are available options for various service conditions. Every rotating assembly on a Fume Hood Fan is balanced both statically and dynamically.

Size 1 LS
Fume Hood Fan Assembly

HOUSINGS

The basic feature of the Fume Hood Fan is the heavy cast iron housing. Cast iron is inherently resistant to corrosion and the thick wall will give many years of service even without protective coverings, which can often fail prematurely due to improper surface preparation, insufficient coverage or coating damage. Where conditions are especially severe, however, the cast iron housing can be coated with vinyl, phenolic or epoxy coatings for added service life. Air dried Heresite coating is standard.

LS – Forward Curved Wheel

COVERS

Outdoor covers offer ventilated protection for the drive, motor and bearings as well as serving as a safety guard. These covers are easily removable for convenient access to all moving parts.

DRIVES

Fume Hood Fans have adjustable v-belt drives to permit limited changes in fan RPM as may be required by varying conditions. The entire drive is completely contained within the unit framework. Increases in fan speed (by adjusting motor pulley) should not be done without first consulting the applicable capacity table to avoid overloading the motor. Each drive has cast iron sheaves to further improve quiet operation and service life.

DF Fan Services, Inc. certifies that the Fume Hood Fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

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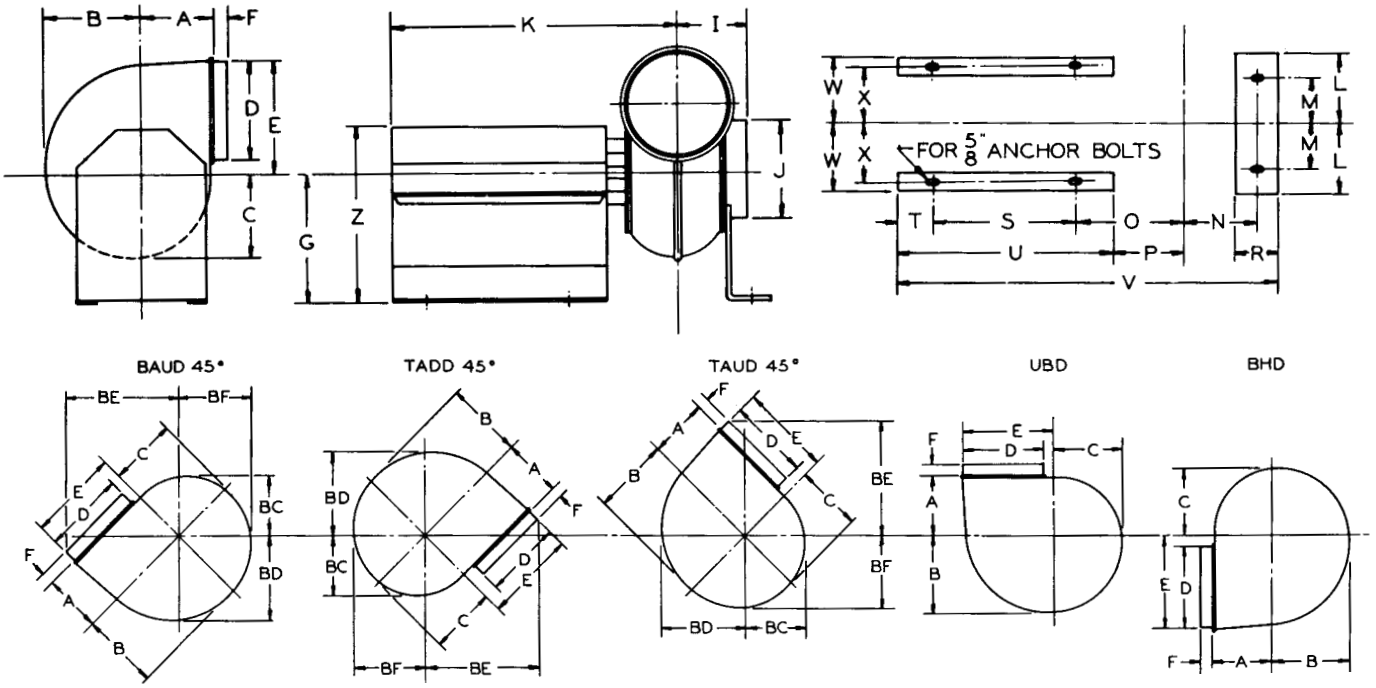
® AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC.

DIMENSIONAL DATA

DIMENSIONS – IN INCHES



FUME HOOD DIMENSIONAL DATA

FAN SIZE	A	B	BC	BD	BE	BF	C	D*	E	F	G	I	J	K
5/8	6	7 7/16	6 1/4	7 7/8	11 1/16	7 1/16	6 5/8	7 1/2	8 3/8	1 1/4	14 7/8	5 1/4	8 1/8	22 13/16
3/4	7 1/16	8 7/8	7 7/8	9 3/8	12 7/8	8 3/8	7 7/8	9	10	1 1/4	14 7/8	5 1/2	9 3/4	22 9/16
1	9 1/4	11 9/16	9 3/4	12 5/16	16 5/8	11 1/8	10 5/16	12	13 1/16	1 1/2	14 7/8	7 3/16	13	24 3/4
1 1/4	11 9/16	14 11/16	12 3/16	13 1/2	20 3/16	14	13	15	16 5/8	1 1/2	17 1/2	9 1/8	16 1/2	28 1/4

FAN SIZE	L	M	N	O	P	R	S	T	U	V	W	X	Y	Z	SHAFT DIA.	KEYWAY IN DRIVE HUB	
																WIDTH	DEPTH
5/8				7 5/8	4 7/16		12	3 3/16	18 3/8		8 13/16	8 1/8	19 5/8	22	1	1/4	1/8
3/4	5 1/4	3 1/2	6	8 3/8	5 3/16	3	12	3 3/16	18 3/8	31	8 13/16	8 1/8	20 3/8	22	1	1/4	1/8
1	7	5	7 5/16	9 9/16	6 3/8	3	12	3 3/16	18 3/8	33 7/16	8 13/16	8 1/8	21 9/16	22	1	1/4	1/8
1 1/4	9	6 1/2	10 3/8	11 1/16	7 7/8	4	14	3 3/16	20 3/8	40 1/8	8 13/16	8 1/8	25 1/16	25	1 3/16	1/4	1/8

OUTLET DIMENSIONS–OUTSIDE – *

FUME HOOD SHIPPING WEIGHTS

FAN SIZE	1/6	1/4	1/3	1/2	3/4	1	1 1/2	2	3	5	7 1/2
5/8	147	147	147	157	157	157	159	163	183	201	241
3/4	165	165	165	175	175	175	177	181	201	219	259
1	250	250	250	260	260	260	262	266	286	304	344
1 1/4	385	385	385	395	395	395	397	401	421	435	475

SIZE 5/8— LS FUME HOOD FANS
PERFORMANCE TABLE

WHEEL DIAMETER — 8.125” **OUTLET — 7 1/2” DIA. OUTSIDE** **TIP SPEED — RPM x 2.13** **INLET — 8 1/8” DIA. OUTSIDE** **OUTLET AREA — .267 SQ. FT. INSIDE**

	Outlet	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		1 3/4" SP		2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP	
CFM	Velocity 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
200	749	689	0.02																										
250	936	709	0.03	844	0.04																								
300	1124	755	0.03	864	0.04	976	0.06																						
350	1311	808	0.04	907	0.06	1000	0.07	1193	0.10																				
400	1498	868	0.06	958	0.07	1044	0.09	1207	0.12																				
450	1685	925	0.07	1015	0.09	1094	0.10	1242	0.14	1389	0.17																		
500	1873	981	0.09	1075	0.11	1149	0.13	1288	0.16	1418	0.20	1551	0.24																
550	2060	1039	0.11	1131	0.13	1209	0.15	1338	0.19	1461	0.23	1579	0.27	1700	0.31	1824	0.36												
600	2247	1099	0.14	1188	0.16	1267	0.18	1393	0.22	1510	0.27	1620	0.31	1728	0.35	1839	0.40	1952	0.45										
650	2434	1160	0.16	1245	0.19	1323	0.21	1452	0.26	1561	0.31	1667	0.35	1768	0.40	1868	0.44	1970	0.50	2180	0.61								
700	2622	1225	0.20	1304	0.22	1380	0.25	1511	0.30	1617	0.35	1718	0.40	1815	0.45	1908	0.50	2000	0.55	2191	0.66	2387	0.79						
750	2809	1281	0.24	1364	0.26	1437	0.29	1569	0.34	1676	0.40	1770	0.45	1864	0.51	1954	0.56	2041	0.61	2215	0.72	2395	0.85	2578	0.99				
800	2996	1355	0.28	1427	0.31	1495	0.33	1625	0.39	1736	0.45	1828	0.51	1916	0.57	2003	0.62	2087	0.68	2249	0.80	2414	0.92	2584	1.05	2756	1.20		
850	3184			1491	0.35	1556	0.38	1681	0.45	1794	0.51	1888	0.57	1971	0.63	2054	0.69	2136	0.75	2292	0.87	2445	0.99	2601	1.13	2761	1.27	**2923**	**1.44**
900	3371			1555	0.41	1618	0.44	1739	0.51	1850	0.58	1947	0.64	2030	0.70	2109	0.77	2187	0.83	2339	0.96	2484	1.09	2629	1.22	2777	1.36	**2928**	**1.51**
950	3558			1621	0.47	1681	0.51	1796	0.57	1906	0.64	2005	0.71	2090	0.78	2167	0.85	2241	0.92	2388	1.05	2528	1.19	2664	1.32	2803	1.47	**2943**	**1.61**
1000	3745			1687	0.54	1745	0.58	1856	0.64	1962	0.72	2060	0.79	2149	0.87	2227	0.94	2298	1.01	2439	1.14	2576	1.29	2707	1.43	2836	1.57	**2967**	**1.74**
1050	3933			1753	0.61	1809	0.65	1916	0.72	2020	0.80	2118	0.87	2207	0.96	2286	1.03	2358	1.10	2492	1.25	2625	1.40	2753	1.55	**2877**	**1.70**	**3000**	**1.86**
1100	4120					1875	0.73	1978	0.81	2077	0.88	2174	0.97	2263	1.05	2345	1.13	2418	1.21	2548	1.36	2677	1.52	2802	1.68	**2921**	**1.83**	**3039**	**2.00**
1150	4307					1941	0.82	2041	0.90	2137	0.98	2231	1.07	2319	1.15	2402	1.23	2476	1.32	2607	1.48	2729	1.64	**2852**	**1.81**	**2970**	**1.97**	**3083**	**2.13**
1200	4494					2008	0.92	2105	1.00	2197	1.08	2288	1.17	2375	1.26	2457	1.35	2534	1.43	2667	1.61	2786	1.78	**2903**	**1.95**	**3019**	**2.12**	**3130**	**2.30**
1250	4682					2075	1.03	2170	1.11	2259	1.19	2347	1.28	2432	1.37	2514	1.47	2590	1.57	2727	1.75	2844	1.92	**2957**	**2.10**	**3070**	**2.28**	**3180**	**2.45**
1300	4869					2143	1.14	2234	1.22	2322	1.31	2406	1.40	2490	1.50	2570	1.60	2646	1.69	2785	1.88	**2904**	**2.07**	**3013**	**2.26**	**3122**	**2.44**	**3230**	**2.62**
1350	5056							2300	1.35	2385	1.43	2467	1.53	2548	1.63	2627	1.73	2703	1.83	2843	2.04	**2964**	**2.23**	**3072**	**2.42**	**3176**	**2.62**	**3281**	**2.80**
1400	5243							2366	1.48	2449	1.58	2529	1.67	2607	1.77	2684	1.88	2759	1.98	**2899**	**2.19**	**3023**	**2.40**	**3132**	**2.59**	**3233**	**2.79**	**3334**	**2.99**
1450	5431							2433	1.63	2514	1.72	2591	1.82	2667	1.93	2742	2.02	2816	2.14	**2955**	**2.35**	**3081**	**2.57**	**3192**	**2.78**	**3292**	**2.99**	**3389**	**3.18**
1500	5618							2500	1.78	2579	1.87	2655	1.98	2728	2.09	2802	2.19	**2874**	**2.30**	**3012**	**2.53**	**3138**	**2.75**	**3251**	**2.96**	**3352**	**3.18**	**3447**	**3.40**
1550	5805							2567	1.94	2645	2.05	2719	2.15	2791	2.26	**2862**	**2.36**	**2931**	**2.48**	**3067**	**2.71**	**3194**	**2.94**	**3309**	**3.16**	**3412**	**3.40**	**3506**	**3.61**
1600	5993									2711	2.23	2783	2.33	**2853**	**2.44**	**2922**	**2.55**	**2991**	**2.67**	**3124**	**2.90**	**3250**	**3.15**	**3367**	**3.39**	**3471**	**3.61**	**3566**	**3.83**
1650	6180									2777	2.41	2848	2.53	**2917**	**2.64**	**2984**	**2.75**	**3051**	**2.86**	**3182**	**3.11**	**3307**	**3.36**	**3423**	**3.60**	**3530**	**3.83**		
1700	6367									2843	2.61	**2913**	**2.73**	**2981**	**2.84**	**3047**	**2.95**	**3111**	**3.06**	**3239**	**3.32**	**3363**	**3.58**	**3479**	**3.83**	**3587**	**4.08**		
1750	6554									**2911**	**2.83**	**2979**	**2.94**	**3045**	**3.06**	**3109**	**3.18**	**3173**	**3.30**	**3297**	**3.53**	**3419**	**3.80**	**3535**	**4.06**				
1800	6742									**2979**	**3.04**	**3045**	**3.17**	**3110**	**3.29**	**3173**	**3.42**	**3235**	**3.53**	**3357**	**3.78**	**3477**	**4.05**	**3591**	**4.30**				
1850	6929											**3111**	**3.40**	**3175**	**3.52**	**3238**	**3.67**	**3298**	**3.78**	**3417**	**4.02**	**3534**	**4.30**						
1900	7116											**3178**	**3.64**	**3241**	**3.78**	**3302**	**3.90**	**3361**	**4.03**	**3478**	**4.29**	**3592**	**4.55**						
1950	7303											**3240**	**3.90**	**3307**	**4.05**	**3367**	**4.18**	**3426**	**4.31**	**3539**	**4.56**								
2000	7491											**3313**	**4.18**	**3373**	**4.30**	**3432**	**4.46**	**3490**	**4.60**	**3601**	**4.86**								
2050	7678											**3381**	**4.45**	**3440**	**4.61**	**3498**	**4.75**	**3554**	**4.88**										
2100	7865													**3507**	**4.90**	**3564**	**5.06**												
2150	8052													**3574**	**5.24**														

Notes: **Bold** selections will require high speed Balancing
Performance shown is for installation type B: Free inlet, Ducted Outlet.
Standard air density 0.075 lb/cu.ft.
Power ratings (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

SIZE 3/4— LS FUME HOOD FANS
PERFORMANCE TABLE

WHEEL DIAMETER — 9.75” **OUTLET — 9” DIA. OUTSIDE** **TIP SPEED — RPM x 2.55** **INLET — 9 3/4” DIA. OUTSIDE** **OUTLET AREA — .406 SQ. FT. INSIDE**

	Outlet Velocity	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		1 3/4" SP		2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP	
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
300	739	574	0.03																										
350	862	587	0.03																										
400	985	611	0.04	709	0.06																								
450	1108	639	0.05	728	0.07	816	0.08																						
500	1232	671	0.06	754	0.08	831	0.10																						
550	1355	705	0.07	783	0.09	856	0.11	1000	0.15																				
600	1478	739	0.09	813	0.11	883	0.13	1014	0.17	1149	0.22																		
650	1601	772	0.10	848	0.13	912	0.15	1036	0.19	1157	0.25																		
700	1724	805	0.12	882	0.15	944	0.17	1062	0.22	1174	0.27	1289	0.33																
750	1847	838	0.14	916	0.17	978	0.19	1090	0.25	1196	0.30	1301	0.36	1409	0.42														
800	1970	871	0.16	948	0.19	1013	0.22	1120	0.28	1222	0.36	1319	0.39	1419	0.46	1521	0.53												
850	2094	906	0.19	981	0.22	1046	0.25	1152	0.31	1250	0.37	1343	0.43	1435	0.50	1529	0.56	1625	0.64										
900	2217	942	0.21	1013	0.25	1079	0.28	1185	0.34	1279	0.41	1369	0.47	1456	0.54	1543	0.61	1633	0.68										
950	2340	978	0.25	1046	0.28	1112	0.31	1220	0.38	1309	0.45	1397	0.52	1480	0.58	1562	0.65	1646	0.73	1817	0.89								
1000	2463	1015	0.28	1081	0.31	1145	0.35	1254	0.42	1342	0.49	1427	0.57	1508	0.64	1586	0.71	1663	0.78	1824	0.94	1989	1.12						
1050	2586	1052	0.32	1116	0.35	1177	0.39	1288	0.47	1376	0.54	1456	0.62	1536	0.70	1611	0.77	1686	0.84	1836	1.00	1992	1.18						
1100	2709	1089	0.35	1152	0.39	1211	0.43	1320	0.51	1441	0.59	1488	0.67	1565	0.75	1640	0.83	1711	0.91	1853	1.07	1999	1.25	2149	1.44				
1150	2833	1128	0.40	1187	0.44	1245	0.48	1353	0.56	1445	0.65	1522	0.73	1595	0.81	1668	0.89	1738	0.97	1873	1.14	2011	1.31	2153	1.51				
1200	2956	1166	0.45	1224	0.49	1279	0.53	1386	0.61	1479	0.71	1557	0.79	1627	0.88	1698	0.96	1767	1.06	1898	1.22	2028	1.40	2162	1.59	2298	1.79		
1250	3079	1205	0.50	1261	0.54	1315	0.58	1418	0.67	1512	0.76	1591	0.86	1660	0.95	1728	1.03	1795	1.12	1924	1.30	2048	1.48	2175	1.68	2305	1.87	**2436**	**2.10**
1300	3202	1244	0.55	1299	0.60	1351	0.64	1451	0.73	1544	0.83	1625	0.93	1696	1.02	1760	1.11	1825	1.20	1951	1.39	2072	1.57	2192	1.77	2315	1.97	**2440**	**2.19**
1350	3325	1283	0.61	1336	0.66	1387	0.70	1485	0.80	1576	0.90	1659	1.00	1729	1.10	1793	1.19	1856	1.29	1980	1.48	2097	1.67	2212	1.86	2329	2.08	**2449**	**2.29**
1400	3448			1375	0.72	1424	0.77	1519	0.86	1609	0.97	1692	1.07	1764	1.18	1828	1.27	1888	1.38	2009	1.57	2124	1.77	2236	1.97	2347	2.18	**2461**	**2.40**
1450	3571			1413	0.79	1461	0.84	1553	0.93	1450	1.05	1724	1.16	1798	1.26	1863	1.36	1922	1.47	2039	1.67	2452	1.89	2261	2.08	2368	2.29	**2477**	**2.53**
1500	3695			1452	0.86	1499	0.91	1588	1.01	1675	1.12	1757	1.24	1831	1.35	1897	1.46	1956	1.56	2069	1.78	2181	1.99	2288	2.20	2392	2.42	**2495**	**2.63**
1550	3818			1491	0.94	1537	1.00	1624	1.10	1708	1.21	1789	1.33	1864	1.45	1931	1.56	1991	1.67	2101	1.89	2211	2.11	2316	2.33	**2417**	**2.54**	**2517**	**2.77**
1600	3941			1530	1.03	1575	1.08	1660	1.18	1742	1.30	1821	1.42	1896	1.54	1964	1.66	2026	1.78	2135	2.00	2240	2.23	2344	2.46	**2443**	**2.69**	**2541**	**2.90**
1650	4064			1569	1.11	1613	1.17	1697	1.28	1777	1.40	1854	1.52	1929	1.64	1998	1.76	2059	1.89	2168	2.12	2271	2.35	2373	2.60	**2471**	**2.83**	**2567**	**3.06**
1700	4187					1652	1.27	1733	1.38	1811	1.50	1888	1.63	1961	1.75	2030	1.87	2093	2.01	2203	2.24	2303	2.48	**2403**	**2.73**	**2500**	**2.97**	**2593**	**3.21**
1750	4310					1690	1.36	1771	1.49	1846	1.60	1921	1.73	1994	1.86	2062	1.99	2126	2.12	2238	2.38	2336	2.62	**2433**	**2.87**	**2529**	**3.13**	**2621**	**3.37**
1800	4433					1729	1.47	1808	1.60	1882	1.71	1956	1.85	2027	1.98	2095	2.12	2159	2.25	2272	2.51	2370	2.76	**2464**	**3.02**	**2559**	**3.29**	**2650**	**3.54**
1850	4557					1768	1.58	1846	1.71	1919	1.84	1990	1.97	2061	2.10	2127	2.24	2191	2.38	2306	2.65	**2405**	**2.90**	**2496**	**3.18**	**2588**	**3.45**	**2678**	**3.73**
1900	4680					1808	1.70	1883	1.83	1955	1.96	2024	2.09	2094	2.23	2160	2.38	2223	2.51	2340	2.80	**2440**	**3.07**	**2530**	**3.34**	**2619**	**3.60**	**2708**	**3.88**
1950	4803					1847	1.83	1922	1.96	1992	2.10	2060	2.22	2127	2.36	2193	2.51	2256	2.66	2373	2.95	**2475**	**3.23**	**2564**	**3.51**	**2651**	**3.78**	**2738**	**4.06**
2000	4926							1960	2.10	2030	2.24	2096	2.36	2162	2.51	2226	2.66	2289	2.80	**2405**	**3.10**	**2508**	**3.39**	**2599**	**3.67**	**2684**	**3.97**	**2768**	**4.26**
2050	5049							1998	2.23	2067	2.38	2132	2.51	2196	2.65	2260	2.80	2321	2.96	**2438**	**3.27**	**2542**	**3.57**	**2633**	**3.85**	**2717**	**4.16**	**2799**	**4.44**
2100	5172							2036	2.37	2104	2.53	2168	2.66	2231	2.81	2293	2.95	2355	3.12	**2470**	**3.44**	**2576**	**3.74**	**2668**	**4.04**	**2752**	**4.34**	**2832**	**4.65**
2150	5296							2076	2.53	2142	2.68	2205	2.82	2267	2.97	2328	3.12	2388	3.29	**2503**	**3.61**	**2609**	**3.93**	**2702**	**4.24**	**2786**	**4.54**	**2866**	**4.85**
2200	5419									2179	2.85	2242	3.00	2303	3.14	2362	3.30	**2421**	**3.45**	**2535**	**3.78**	**2641**	**4.12**	**2736**	**4.44**	**2820**	**4.75**	**2900**	**5.06**
2250	5542									2218	3.01	2280	3.18	2339	3.32	2397	3.49	**2455**	**3.63**	**2568**	**3.97**	**2673**	**4.34**	**2770**	**4.64**	**2856**	**4.96**	**2934**	**5.27**
2300	5665									2256	3.20	2316	3.35	2375	3.50	**2432**	**3.65**	**2489**	**3.82**	**2601**	**4.17**	**2705**	**4.51**	**2803**	**4.85**	**2890**	**5.18**	**2969**	**5.51**
2350	5788									2294	3.37	2354	3.54	**2411**	**3.69**	**2468**	**3.85**	**2524**	**4.02**	**2634**	**4.37**	**2739**	**4.70**	**2836**	**5.06**	**2923**	**5.41**	**3004**	**5.76**
2400	5911											2391	3.73	**2448**	**3.90**	**2504**	**4.06**	**2558**	**4.22**	**2668**	**4.59**	**2771**	**4.93**	**2868**	**5.29**	**2957**	**5.64**	**3040**	**6.00**
2450	6034											**2429**	**3.95**	**2486**	**4.10**	**2540**	**4.25**	**2594**	**4.43**	**2701**	**4.78**	**2803**	**5.16**	**2900**	**5.52**	**2991**	**5.88**	**3072**	**6.24**
2500	6158											**2467**	**4.15**	**2523**	**4.32**	**2576**	**4.48**	**2630**	**4.66**	**2734**	**4.99**	**2836**	**5.40**	**2932**	**5.77**	**3024**	**6.13**	**3106**	**6.50**
2550	6281											**2506**	**4.38**	**2560**	**4.54**	**2613**	**4.70**	**2666**	**4.88**	**2768**	**5.24**	**2869**	**5.62**	**2966**	**6.02**	**3056**	**6.39**	**3140**	**6.76**
2600	6404													**2597**	**4.77**	**2650**	**4.94**	**2702**	**5.11**	**2803**	**5.49**	**2903**	**5.87**	**2998**	**6.25**	**3088**	**6.65**	**3174**	**7.04**
2650	6527													**2635**	**5.01**	**2688**	**5.20**	**2737**	**5.35**	**2838**	**5.75**	**2936**	**6.13**	**3030**	**6.54**	**3120**	**6.91**	**3206**	**7.30**
2700	6650													**2673**	**5.26**	**2725**	**5.44**	**2775**	**5.61**	**2873**	**5.99**	**2969**	**6.38**	**3063**	**6.79**	**3153**	**7.18**		
2750	6773													**2712**	**5.51**	**2762**	**5.69**	**2811**	**5.89**	**2908**	**6.25**	**3003**	**6.64**	**3097**	**7.06**				
2800	6897															**2800**	**5.96**	**2849**	**6.16**	**2943**	**6.50**	**3037**	**6.92**	**3129**	**7.34**				
2850	7020															**2837**	**6.24**	**2885**	**6.45**	**2980**	**6.81**	**3070**	**7.21**						
2900	7143															**2875**	**6.54**	**2923**	**6.73**	**3016**	**7.12**								
2950	7266															**2913**	**6.72**	**2961**	**7.00**	**3052**	**7.39**								
3000	7389																	**2998**	**7.32**										

Notes: **Bold** selections will require reinforcing rings and high speed Balancing
Performance shown is for installation type B: Free inlet, Ducted Outlet.
Standard air density 0.075 lb/cu.ft.
Power ratings (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

SIZE 1 — LS FUME HOOD FANS
PERFORMANCE TABLE

WHEEL DIAMETER — 13” **OUTLET — 12” DIA. OUTSIDE** **TIP SPEED — RPM x 3.41** **INLET — 13” DIA. OUTSIDE** **OUTLET AREA — .706 SQ. FT. INSIDE**

	Outlet	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		1 3/4" SP		2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP	
CFM	Velocity 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
600	850	437	0.06																										
700	992	456	0.07	531	0.10																								
800	1133	480	0.09	546	0.12	612	0.15																						
900	1275	506	0.11	568	0.14	626	0.18	746	0.25																				
1000	1416	535	0.14	592	0.17	647	0.21	752	0.29																				
1100	1558	564	0.17	620	0.21	670	0.25	766	0.32	864	0.41																		
1200	1700	591	0.20	649	0.24	696	0.29	787	0.37	873	0.46	964	0.56																
1300	1841	619	0.24	678	0.29	724	0.33	810	0.43	890	0.52	972	0.62	1055	0.72														
1400	1983	647	0.28	705	0.33	753	0.38	835	0.48	911	0.58	986	0.68	1062	0.80	1140	0.91												
1500	2125	676	0.33	732	0.38	782	0.44	861	0.54	935	0.65	1005	0.76	1075	0.87	1146	0.99	1219	1.10										
1600	2266	706	0.38	760	0.44	809	0.50	888	0.61	959	0.73	1027	0.84	1092	0.95	1157	1.08	1225	1.21										
1700	2408	737	0.44	788	0.50	837	0.56	918	0.69	985	0.81	1051	0.93	1113	1.05	1174	1.17	1236	1.31	1363	1.60								
1800	2550	768	0.51	817	0.57	864	0.64	947	0.77	1012	0.90	1075	1.03	1136	1.16	1194	1.28	1252	1.41	1370	1.70								
1900	2691	799	0.59	847	0.65	892	0.72	975	0.86	1042	0.99	1101	1.13	1160	1.27	1216	1.40	1271	1.54	1382	1.83	1495	2.14						
2000	2833	832	0.67	877	0.74	921	0.81	1002	0.96	1071	1.10	1129	1.24	1185	1.39	1240	1.53	1293	1.67	1397	1.96	1504	2.28	1613	2.63				
2100	2975	864	0.76	908	0.83	950	0.95	1030	1.06	1100	1.21	1158	1.37	1211	1.52	1265	1.66	1317	1.82	1417	2.12	1516	2.44	1619	2.78	1723	3.14		
2200	3116	897	0.86	939	0.94	979	1.01	1057	1.17	1128	1.33	1187	1.49	1239	1.65	1290	1.81	1341	1.96	1438	2.28	1532	2.59	1628	2.94	1727	3.32		
2300	3258	929	0.97	970	1.04	1010	1.12	1085	1.29	1155	1.46	1216	1.63	1268	1.78	1317	1.95	1366	2.12	1461	2.45	1552	2.79	1642	3.12	1735	3.48	**1830**	**3.88**
2400	3399	963	1.09	1002	1.16	1040	1.24	1113	1.42	1183	1.60	1244	1.77	1297	1.95	1345	2.12	1392	2.28	1485	2.63	1573	2.97	1659	3.30	1747	3.69	**1837**	**4.08**
2500	3541	996	1.21	1035	1.30	1072	1.38	1142	1.55	1210	1.74	1272	1.93	1326	2.11	1374	2.28	1419	2.47	1511	2.82	1596	3.18	1679	3.54	1762	3.90	**1847**	**4.30**
2600	3683	1030	1.34	1067	1.44	1103	1.52	1172	1.71	1238	1.89	1299	2.09	1355	2.28	1403	2.47	1448	2.65	1535	3.03	1620	3.40	1701	3.78	1780	4.13	**1861**	**4.55**
2700	3824	1063	1.49	1100	1.59	1135	1.68	1201	1.86	1266	2.06	1327	2.26	1383	2.46	1432	2.66	1477	2.85	1561	3.23	1644	3.63	1724	4.00	**1801**	**4.39**	**1877**	**4.78**
2800	3966	1097	1.65	1133	1.75	1167	1.85	1232	2.04	1294	2.23	1354	2.44	1410	2.65	1461	2.85	1506	3.06	1588	3.46	1669	3.85	1747	4.27	**1823**	**4.65**	**1897**	**5.02**
2900	4108	1131	1.81	1165	1.91	1199	2.02	1262	2.22	1323	2.42	1382	2.64	1437	2.85	1489	3.07	1535	3.28	1617	3.69	1694	4.11	1771	4.52	**1846**	**4.91**	**1918**	**5.34**
3000	4249	1166	1.99	1199	2.11	1231	2.21	1293	2.42	1352	2.62	1410	2.84	1465	3.06	1516	3.29	1564	3.51	1646	3.93	1721	4.37	1797	4.81	**1870**	**5.23**	**1940**	**5.66**
3100	4391	1200	2.18	1233	2.30	1264	2.40	1325	2.63	1382	2.83	1438	3.05	1492	3.29	1544	3.51	1592	3.75	1675	4.19	1749	4.64	**1822**	**5.09**	**1894**	**5.52**	**1963**	**5.95**
3200	4533	1234	2.38	1266	2.50	1297	2.63	1356	2.84	1412	3.05	1467	3.28	1520	3.52	1571	3.76	1619	4.00	1704	4.46	1778	4.93	**1848**	**5.37**	**1919**	**5.84**	**1987**	**6.29**
3300	4674	1269	2.60	1300	2.72	1330	2.84	1388	3.07	1442	3.29	1496	3.53	1549	3.77	1599	4.02	1646	4.26	1733	4.76	**1807**	**5.21**	**1875**	**5.69**	**1944**	**6.17**	**2012**	**6.64**
3400	4816	1304	2.82	1333	2.95	1363	3.08	1420	3.32	1473	3.55	1525	3.78	1576	4.02	1626	4.30	1674	4.54	1761	5.04	**1836**	**5.53**	**1904**	**6.01**	**1970**	**6.49**	**3037**	**6.99**
3500	4958	1338	3.06	1368	3.20	1397	3.34	1452	3.58	1505	3.82	1555	4.04	1605	4.29	1654	4.55	1701	4.81	1789	5.35	**1865**	**5.87**	**1933**	**6.35**	**1997**	**6.82**	**3062**	**7.35**
3600	5099			1402	3.46	1430	3.59	1484	3.85	1536	4.10	1586	4.34	1634	4.59	1682	4.85	1728	5.13	**1816**	**5.66**	**1894**	**6.20**	**1962**	**6.70**	**2025**	**7.20**		
3700	5241			1436	3.73	1464	3.87	1516	4.13	1568	4.39	1616	4.63	1664	4.90	1771	5.16	1757	5.44	**1843**	**5.99**	**1923**	**6.54**	**1991**	**7.07**				
3800	5382					1497	4.16	1549	4.43	1599	4.69	1647	4.94	1693	5.20	1739	5.48	1784	5.76	**1871**	**6.33**	**1950**	**6.90**	**2021**	**7.45**				
3900	5524					1531	4.45	1582	4.76	1631	5.02	1678	5.30	1724	5.55	1768	5.83	**1813**	**6.10**	**1899**	**6.69**	**1978**	**7.28**						
4000	5666							1615	5.08	1663	5.37	1709	5.65	1754	5.90	1798	6.18	**1841**	**6.46**	**1926**	**7.08**								
4100	5807							1648	5.43	1696	5.73	1741	6.00	1785	6.28	**1828**	**6.55**	**1870**	**6.84**	**1954**	**7.47**								
4200	5949									1728	6.08	1772	6.38	**1816**	**6.66**	**1858**	**6.94**	**1900**	**7.25**										
4300	6091									1760	6.47	**1804**	**6.77**	**1847**	**7.07**	**1888**	**7.35**												
4400	6232											**1836**	**7.20**	**1878**	**7.49**														

Notes: **Bold** selections will require reinforcing and high speed balancing
Performance shown is for installation type B: Free inlet, Ducted Outlet.
Standard air density 0.075 lb/cu.ft.
Power ratings (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

SIZE 1 1/4— LS FUME HOOD FANS
PERFORMANCE TABLE

WHEEL DIAMETER — 16.25" **OUTLET — 15" DIA. OUTSIDE** **TIP SPEED — RPM x 4.21** **INLET — 16 1/2" DIA. OUTSIDE** **OUTLET AREA — 1.127 SQ. FT. INSIDE**

	Outlet Velocity	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		1 3/4" SP		2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/2" SP	
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
1000	887	355	0.10	422	0.14																								
1200	1065	378	0.13	432	0.18	488	0.22																						
1400	1242	404	0.17	454	0.23	500	0.28	597	0.39																				
1600	1420	434	0.23	479	0.28	522	0.34	604	0.46	689	0.60																		
1800	1597	462	0.29	508	0.35	547	0.42	621	0.54	694	0.68																		
2000	1775	491	0.36	537	0.43	575	0.50	644	0.65	709	0.79	776	0.95	844	1.12														
2200	1952	519	0.44	566	0.53	604	0.60	669	0.76	731	0.92	789	1.08	850	1.25	912	1.44												
2400	2130	550	0.54	594	0.63	634	0.72	696	0.89	755	1.06	810	1.23	864	1.41	920	1.60	976	1.80										
2600	2307	580	0.66	623	0.75	662	0.85	726	1.04	781	1.22	834	1.41	884	1.59	934	1.78	985	1.98	1090	2.43								
2800	2484	612	0.79	652	0.89	690	0.99	756	1.20	808	1.39	859	1.60	907	1.79	954	2.00	1000	2.20	1096	2.65								
3000	2662	645	0.94	682	1.04	718	1.15	784	1.37	838	1.59	885	1.80	932	2.02	977	2.23	1021	2.45	1107	2.90	1197	3.38						
3200	2839	678	1.11	713	1.22	748	1.33	812	1.57	868	1.80	914	2.04	958	2.26	1002	2.48	1043	2.72	1125	3.17	1207	3.67	1292	4.23				
3400	3017	711	1.30	745	1.42	778	1.50	841	1.79	897	2.04	944	2.28	986	2.53	1027	2.77	1068	3.01	1146	3.48	1222	3.99	1301	4.54	1379	4.96		
3600	3194	745	1.52	777	1.64	809	1.76	869	2.03	925	2.30	974	2.56	1015	2.80	1054	3.07	1094	3.31	1169	3.90	1242	4.35	1314	4.89	1389	5.48	1464	6.08
3800	3372	779	1.76	810	1.89	840	2.01	898	2.28	953	2.57	1003	2.85	1045	3.12	1083	3.39	1120	3.66	1194	4.21	1264	4.75	1332	5.29	1401	5.88	1472	6.49
4000	3549	813	2.02	843	2.16	872	2.29	928	2.57	981	2.87	1031	3.16	1075	3.46	1113	3.74	1149	4.03	1220	4.60	1288	5.17	1354	5.73	1418	6.31	1484	6.94
4200	3727	847	2.30	877	2.46	905	2.60	958	2.88	1010	3.19	1059	3.50	1103	3.82	1143	4.12	1178	4.40	1246	5.01	1313	5.63	1376	6.20	1439	6.80	1500	7.44
4400	3904	882	2.61	910	2.78	938	2.93	989	3.22	1039	3.54	1087	3.87	1132	4.20	1172	4.50	1209	4.84	1274	5.46	1338	6.09	1401	6.72	1461	7.35	1520	7.98
4600	4082	917	2.95	944	3.13	971	3.29	1021	3.60	1068	3.93	1115	4.27	1160	4.61	1201	4.94	1238	5.28	1303	5.93	1365	6.59	1426	7.25	1485	7.90	1542	8.57
4800	4259	952	3.32	979	3.51	1004	3.67	1053	4.04	1099	4.33	1144	4.67	1188	5.05	1229	5.41	1267	5.75	1333	6.43	1393	7.11	1452	7.82	1509	8.50	1565	9.18
5000	4437	988	3.72	1012	3.90	1038	4.10	1085	4.44	1130	4.78	1173	5.13	1216	4.49	1257	5.88	1295	6.25	1363	6.99	1422	7.68	1478	8.39	1535	9.12	1590	9.84
5200	4614	1023	4.16	1048	4.36	1072	4.54	1117	4.90	1161	5.25	1203	5.61	1245	6.00	1285	6.41	1323	6.78	1393	7.56	1452	8.28	1507	9.03	1561	9.77		
5400	4791	1059	4.62	1082	4.83	1106	5.04	1150	5.40	1193	5.78	1233	6.13	1274	6.52	1314	6.94	1352	7.35	1421	8.13	1482	8.91	1536	9.68				
5600	4969	1094	5.11	1117	5.32	1140	5.55	1183	5.95	1225	6.34	1265	6.70	1304	7.11	1342	7.51	1379	7.93	1449	8.77	1512	9.60						
5800	5146	1130	5.65	1152	5.87	1174	6.09	1216	6.51	1257	6.92	1296	7.28	1334	7.70	1371	8.11	1408	8.57	1477	9.41								
6000	5324	1166	6.21	1187	6.44	1209	6.69	1250	7.13	1289	7.53	1327	7.93	1364	8.35	1401	8.78	1437	9.22										
6200	5501	1202	6.83	1223	7.07	1243	7.31	1284	7.77	1322	8.21	1359	8.64	1396	9.06	1431	9.47	1466	9.93										
6400	5679	1238	7.49	1258	7.74	1278	7.79	1317	8.46	1355	8.91	1392	9.34	1427	9.77														
6600	5856	1274	8.18	1294	8.43	1313	8.67	1352	9.21	1388	9.64																		
6800	6034			1329	9.17	1348	9.43	1386	9.97																				
7000	6211			1365	9.95																								

Notes: Performance shown is for installation type B: Free inlet, Ducted Outlet.
Standard air density 0.075 lb/cu.ft.
Power ratings (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

V-BELT DRIVES

All V-Belt Drives are of the adjustable type. Unless otherwise specified, drives will be selected to provide a maximum speed of approximately 15% above the operating speed, unless this would overload the motor beyond the overload service factor. Low speed will be a variable dependent on drive selected. All drives will be designed for a minimum HP rating of 20% above the motor horsepower.

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UNI-COMBUSTION FANS

Complete fan assemblies and parts for supplying combustion air for oil, gas and coal firing. Built in 11 basic sizes with capacities from 200 to 24,000 CFM at static pressures to 10" W.G. with vortex inlet damper control for improved volume regulation and power saving.

Specify Bulletin 18001.

Arrangement 4E Assembly

UC Wheel - Internal Hub

UC Wheel - External Hub

Multiple Width Wheels

FUME HOOD FANS

Complete Fan Assemblies including fans, housings, drives and covers for exhausting fumes from industrial and institutional laboratory hoods or other corrosive fume exhaust systems. Completely packaged, ready-to-run in four basic sizes with capacities from 250 to 6300 CFM at static pressures to 5" W.G. Available with Forward Curved or Backward Inclined fan wheels.

Specify Bulletin 26001.

Fume Hood Fan Assembly

Fume Hood Wheels With Pressure Bars

UNITARY, SINGLE AND DUPLEX FANS

Complete fan assemblies, parts or kits designed for heavy duty applications, including ovens, dryers, air conditioning units, heaters, coolers, condensers and air curtains. Fully riveted or staked fan wheels with welded housings. Capacities from 150 to 88,000 CFM at static pressures to 8" W.G. and temperatures to 1000º F.

Specify Bulletin 6131.

DFB Duplex Fan Assembly

DF Wheel

Wheel Diameters 6-1/2" through 32-1/2"

Custom Fan Assemblies & Kits

Individual Wheels, Housings, and Component Parts Available

Aluminum, Stainless Steel, Monel, and Galvanized Steel Construction