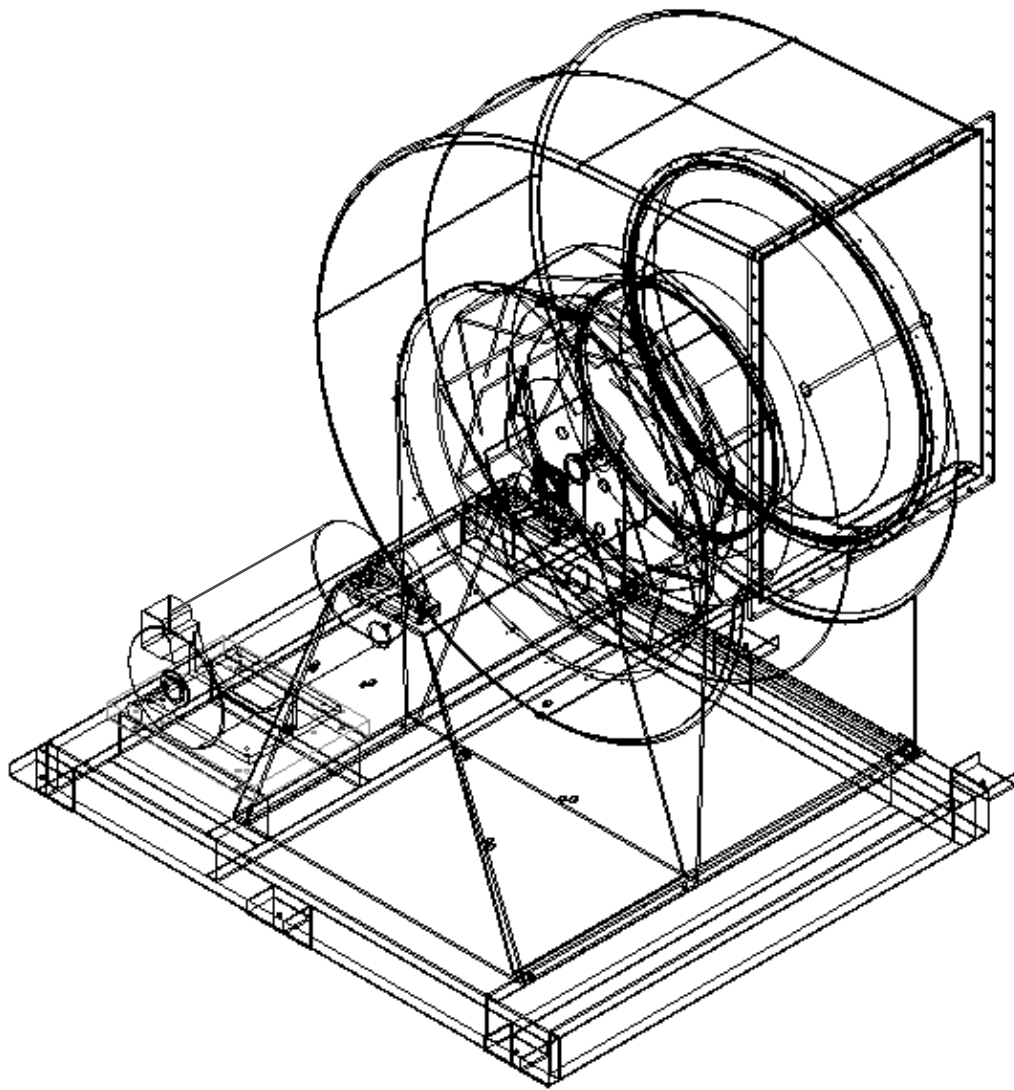
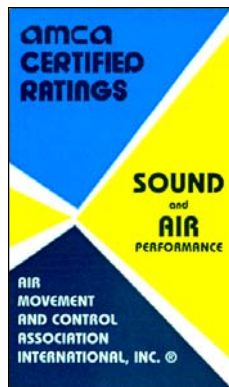




Universal Fan & Blower Ltd.

The Composite Fan Company

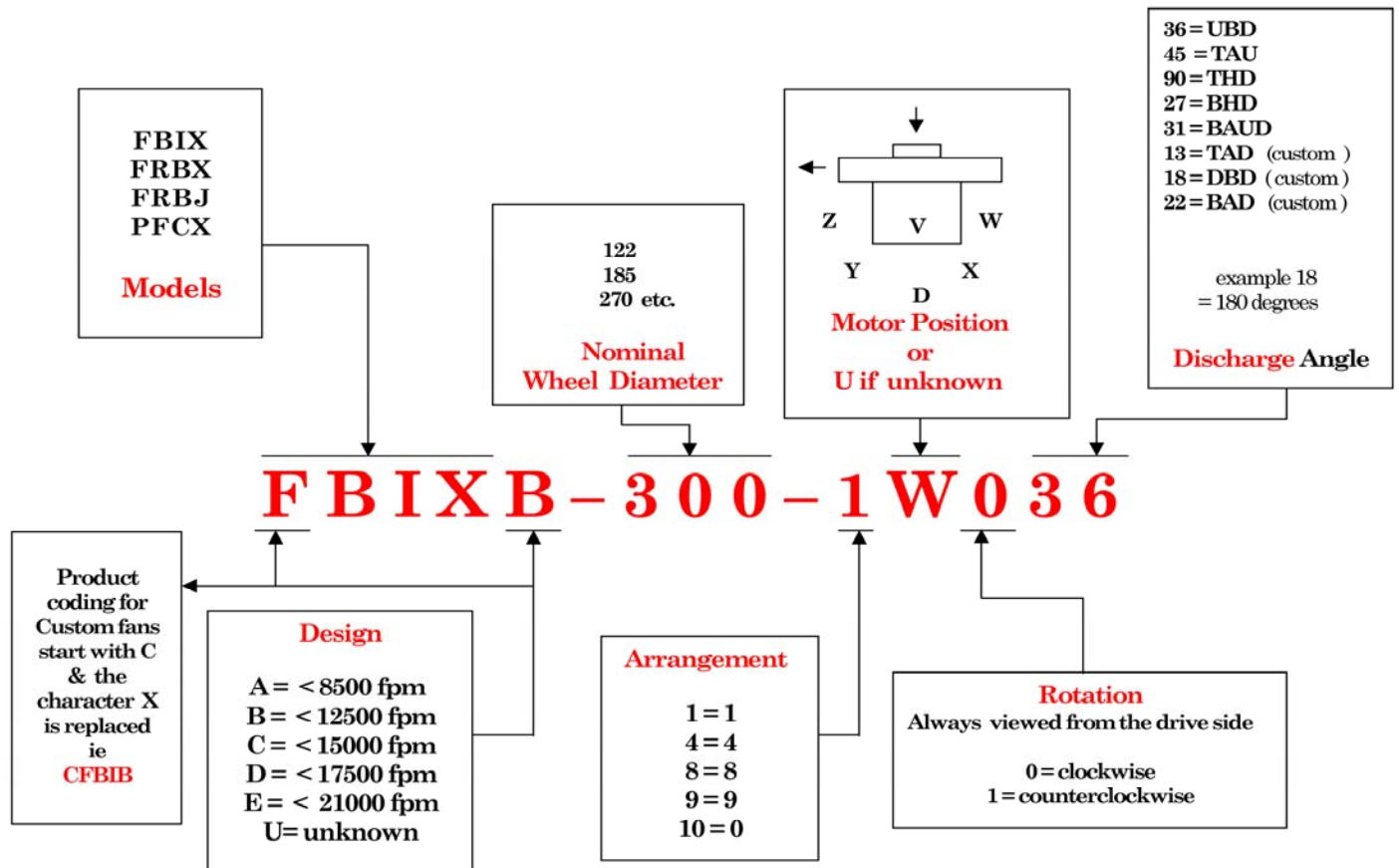


PRINT-003-MI
February 2012

Model FBIX
Composite FRP Fans
Air Tables



Product Coding ~ Centrifugal Fans



Universal Fan & Blower Ltd. certifies that the FBIX type fans shown herein are licensed to bear the AMCA seal.

The ratings are based upon tests and procedures performed in accordance with AMCA publications 211 and 311 and comply with the requirements of the AMCA certified ratings program.

Refer to bulletin:
PRINT-007-MI dated Feb 2012
for the FBIX Sound Ratings





Air Performance Data

Outlet Area = 0.860 sq.ft

Inlet Area = 0.922 sq.ft

Wheel Diameter = 12 1/4 inches

Tip Speed = 3.207 x RPM

FBIX-122

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
286	333	920	0.04																				
774	900	1150	0.1	1413	0.19	1650	0.28	1871	0.39	2261	0.64	2598	0.9										
860	1000	1219	0.12	1463	0.21	1685	0.31	1894	0.42	2275	0.68	2607	0.96	2904	1.26	3175	1.58	Unshaded Area = Design B					
1032	1200	1368	0.17	1579	0.27	1779	0.38	1965	0.49	2313	0.76	2634	1.07	2924	1.39	3190	1.74						
1204	1400	1507	0.23	1714	0.35	1891	0.46	2062	0.59	2378	0.87	2675	1.18	2955	1.54	3215	1.91	3457	2.29	3685	2.69	3901	3.1
1376	1600	1619	0.3	1862	0.44	2019	0.57	2174	0.7	2467	1	2739	1.32	3000	1.68	3250	2.08	3486	2.49	3710	2.92	3922	3.36
1548	1800	1748	0.38	2009	0.55	2162	0.69	2299	0.84	2571	1.15	2826	1.49	3066	1.86	3300	2.26	3526	2.69	3743	3.14	3951	3.61
1720	2000	1899	0.49	2143	0.68	2311	0.84	2439	1	2686	1.33	2927	1.69	3153	2.07	3370	2.47	3582	2.91	3788	3.38	3989	3.86
1892	2200	2058	0.61	2255	0.81	2457	1.01	2586	1.18	2813	1.53	3037	1.91	3253	2.31	3459	2.73	3657	3.17	3850	3.64	4040	4.14
2064	2400	2220	0.77	2373	0.95	2594	1.2	2735	1.4	2951	1.77	3158	2.16	3362	2.59	3559	3.03	3747	3.48	3930	3.96	4108	4.46
2236	2600	2385	0.94	2512	1.13	2711	1.39	2880	1.63	3098	2.04	3288	2.45	3479	2.89	3666	3.35	3848	3.83	4022	4.32	4192	4.83
2408	2800	2552	1.15	2663	1.34	2821	1.59	3013	1.88	3246	2.34	3429	2.77	3605	3.23	3782	3.71	3956	4.21	4124	4.72	4287	5.25
2580	3000	2720	1.38	2821	1.59	2946	1.83	3129	2.13	3394	2.67	3575	3.13	3740	3.6	3906	4.1	4070	4.62	4232	5.15	4390	5.7
2924	3400	3059	1.95	3145	2.17	3239	2.42	3360	2.7	3672	3.4	3872	3.96	4031	4.49	4178	5.02	4323	5.57	4469	6.14	4614	6.73
3096	3600	3229	2.29	3310	2.52	3396	2.77	3497	3.05	3791	3.78	4018	4.42	4180	4.99	4324	5.55	4461	6.11	4599	6.7	4736	7.3
3268	3800	3400	2.66	3476	2.91	3556	3.17	3644	3.45	3900	4.17	4158	4.91	4328	5.53	4472	6.12	4605	6.71	4735	7.31	4865	7.93

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1892	2200	4226	4.66	4407	5.2	4583	5.76	4754	6.34	4920	6.92	5081	7.51	5238	8.11	5390	8.71						
2064	2400	4284	4.98	4457	5.54	4627	6.11	4793	6.7	4955	7.31	5113	7.93	5268	8.56	5418	9.2						
2236	2600	4358	5.36	4522	5.91	4684	6.49	4843	7.09	5000	7.72	5153	8.35	5304	9.01	5452	9.67						
2408	2800	4446	5.79	4602	6.35	4755	6.93	4906	7.53	5056	8.16	5204	8.81	5350	9.48								
2580	3000	4544	6.26	4693	6.84	4840	7.43	4984	8.04	5126	8.67	5268	9.32	5407	9.99								
2924	3400	4758	7.33	4898	7.95	5036	8.58	5170	9.22	5302	9.87	5432	10.54					Shaded Area = Design D					
3096	3600	4873	7.93	5009	8.57	5143	9.22	5274	9.88	5402	10.55												
3268	3800	4996	8.57	5126	9.23	5255	9.9	5382	10.59														
3440	4000	5125	9.27	5249	9.94	5372	10.63																
3612	4200	5260	10.03	5378	10.71																		
3956	4600																						
4300	5000																						

"Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 1.053 sq.ft

Inlet Area = 1.088 sq.ft

Wheel Diameter = 13 1/2 inches

Tip Speed = 3.535 x RPM

FBIX-135

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
350	333	835	0.05																				
947	900	1047	0.13	1285	0.23	1499	0.34	1699	0.48	2053	0.78	2358	1.1										
1052	1000	1111	0.15	1332	0.26	1532	0.38	1721	0.52	2065	0.83	2366	1.17	2635	1.53	2881	1.92	Unshaded Area = Design B					
1263	1200	1247	0.21	1438	0.33	1619	0.46	1786	0.61	2101	0.93	2391	1.31	2654	1.7	2896	2.12						
1473	1400	1373	0.29	1562	0.43	1721	0.57	1876	0.72	2161	1.06	2430	1.45	2683	1.87	2919	2.33	3138	2.8	3345	3.28	3540	3.79
1684	1600	1475	0.37	1698	0.54	1839	0.7	1979	0.86	2244	1.22	2489	1.62	2725	2.05	2951	2.53	3165	3.04	3368	3.56	3560	4.09
1894	1800	1595	0.47	1832	0.68	1971	0.85	2095	1.03	2340	1.41	2570	1.83	2787	2.27	2998	2.76	3202	3.28	3399	3.83	3587	4.41
2104	2000	1734	0.6	1953	0.83	2107	1.04	2223	1.23	2446	1.63	2663	2.07	2868	2.53	3064	3.03	3254	3.56	3441	4.12	3622	4.72
2315	2200	1879	0.76	2054	0.99	2240	1.25	2358	1.46	2562	1.88	2765	2.35	2960	2.84	3145	3.35	3324	3.88	3499	4.45	3670	5.06
2525	2400	2028	0.95	2164	1.17	2364	1.47	2494	1.72	2690	2.18	2875	2.66	3060	3.17	3238	3.71	3408	4.27	3573	4.84	3734	5.45
2736	2600	2179	1.17	2293	1.4	2469	1.71	2625	2.01	2824	2.51	2996	3.01	3167	3.55	3337	4.11	3501	4.69	3659	5.29	3812	5.91
2946	2800	2332	1.42	2431	1.66	2571	1.96	2746	2.31	2960	2.88	3125	3.41	3284	3.96	3443	4.55	3600	5.16	3752	5.79	3900	6.43
3157	3000	2486	1.71	2576	1.96	2688	2.25	2850	2.63	3095	3.28	3259	3.86	3408	4.43	3557	5.04	3706	5.67	3852	6.32	3995	6.99
3578	3400	2795	2.42	2873	2.69	2957	2.99	3064	3.33	3346	4.18	3531	4.88	3675	5.52	3808	6.17	3938	6.84	4070	7.54	4201	8.26
3788	3600	2951	2.84	3024	3.12	3101	3.43	3191	3.77	3454	4.65	3663	5.45	3811	6.15	3941	6.83	4065	7.52	4189	8.23	4313	8.97
3999	3800	3108	3.3	3176	3.6	3247	3.92	3327	4.26	3553	5.13	3790	6.05	3947	6.81	4077	7.54	4198	8.26	4315	8.99	4432	9.75

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2315	2200	3838	5.69	4002	6.35	4162	7.03	4317	7.73	4467	8.44	4613	9.16	4755	9.89	4893	10.63						
2525	2400	3893	6.09	4049	6.76	4203	7.46	4353	8.18	4500	8.92	4643	9.68	4783	10.44	4919	11.22						
2736	2600	3962	6.56	4110	7.23	4255	7.93	4399	8.66	4541	9.42	4680	10.2	4817	10.99	4950	11.81						
2946	2800	4043	7.09	4184	7.77	4322	8.48	4459	9.21	4594	9.97	4728	10.76	4859	11.57								
3157	3000	4133	7.67	4268	8.38	4401	9.1	4531	9.84	4660	10.6	4787	11.39	4913	12.21			Shaded Area = Design D					
3578	3400	4330	8.99	4457	9.75	4582	10.52	4703	11.29	4822	12.09	4940	12.9										
3788	3600	4437	9.73	4559	10.51	4680	11.31	4798	12.11	4914	12.93												
3999	3800	4549	10.53	4667	11.33	4783	12.15	4898	12.98														
4209	4000	4668	11.39	4780	12.21	4891	13.05																
4419	4200	4793	12.33	4899	13.17																		
4840	4600																						
5261	5000																						

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 1.292 sq.ft

Inlet Area = 1.332 sq.ft

Wheel Diameter = 15.0 inches

Tip Speed = 3.928 x RPM

FBIX-150

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
430	333	751	0.06																				
1162	900	940	0.16	1154	0.28	1348	0.42	1529	0.59	1847	0.95	2121	1.35										
1291	1000	997	0.19	1196	0.32	1377	0.46	1547	0.63	1858	1.02	2129	1.44	2371	1.88	2593	2.36	Unshaded Area = Design B					
1549	1200	1118	0.26	1290	0.41	1454	0.57	1605	0.74	1890	1.15	2151	1.61	2388	2.09	2605	2.61						
1808	1400	1231	0.35	1401	0.52	1545	0.7	1685	0.89	1942	1.3	2185	1.78	2413	2.31	2626	2.86	2824	3.44	3010	4.04	3186	4.66
2066	1600	1323	0.45	1522	0.66	1650	0.85	1776	1.06	2016	1.5	2237	1.98	2450	2.52	2654	3.11	2847	3.74	3030	4.38	3203	5.04
2324	1800	1429	0.57	1642	0.83	1767	1.04	1879	1.26	2101	1.73	2309	2.24	2505	2.79	2695	3.39	2880	4.03	3057	4.71	3227	5.42
2582	2000	1552	0.73	1751	1.02	1889	1.27	1993	1.5	2195	2	2391	2.54	2576	3.11	2753	3.71	2926	4.37	3094	5.07	3258	5.8
2840	2200	1682	0.92	1843	1.21	2008	1.52	2114	1.78	2299	2.3	2482	2.87	2658	3.48	2826	4.1	2987	4.77	3145	5.47	3300	6.21
3099	2400	1815	1.15	1940	1.43	2120	1.8	2236	2.1	2412	2.66	2580	3.25	2747	3.88	2908	4.55	3061	5.23	3210	5.94	3356	6.69
3357	2600	1950	1.42	2054	1.7	2215	2.09	2354	2.45	2532	3.06	2687	3.68	2843	4.34	2996	5.03	3144	5.75	3286	6.49	3425	7.25
3615	2800	2087	1.73	2177	2.02	2305	2.39	2463	2.82	2653	3.51	2802	4.17	2946	4.85	3090	5.57	3232	6.32	3370	7.09	3503	7.88
3873	3000	2224	2.08	2306	2.39	2408	2.74	2557	3.21	2774	4.01	2922	4.71	3057	5.42	3192	6.16	3326	6.94	3458	7.74	3587	8.56
4390	3400	2501	2.93	2571	3.27	2648	3.64	2746	4.07	3001	5.1	3165	5.95	3295	6.74	3415	7.54	3533	8.36	3652	9.22	3770	10.11
4648	3600	2641	3.44	2706	3.79	2776	4.17	2858	4.59	3098	5.68	3284	6.65	3417	7.5	3534	8.34	3646	9.19	3758	10.06	3870	10.97
4906	3800	2780	4.01	2842	4.38	2907	4.77	2979	5.19	3187	6.26	3398	7.38	3538	8.31	3655	9.2	3764	10.08	3870	10.99	3976	11.92

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2840	2200	3452	7	3600	7.81	3743	8.65	3883	9.51	4019	10.38	4150	11.26	4278	12.16	4402	13.08						
3099	2400	3499	7.48	3641	8.31	3779	9.17	3915	10.06	4047	10.97	4176	11.9	4302	12.84	4425	13.8						
3357	2600	3560	8.05	3694	8.88	3826	9.74	3956	10.65	4084	11.58	4209	12.54	4332	13.52	4453	14.52						
3615	2800	3632	8.69	3759	9.53	3884	10.4	4008	11.31	4130	12.25	4251	13.22	4370	14.22			Shaded Area = Design D					
3873	3000	3712	9.41	3834	10.27	3954	11.15	4072	12.07	4188	13.01	4303	13.99	4417	14.99								
4390	3400	3887	11.01	4002	11.94	4114	12.88	4224	13.84	4332	14.82	4438	15.82										
4648	3600	3982	11.91	4093	12.87	4202	13.85	4309	14.84	4413	15.85												
4906	3800	4082	12.88	4188	13.87	4294	14.87	4397	15.9														
5164	4000	4188	13.93	4289	14.94	4390	15.97																
5423	4200	4299	15.06	4395	16.1																		
5939	4600																						
6455	5000																						

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 1.570 sq.ft

Inlet Area = 1.647 sq.ft

Wheel Diameter = 16 1/2 inches

Tip Speed = 4.320 x RPM

FBIX-165

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
523	333	683	0.07																				
1412	900	856	0.19	1051	0.34	1226	0.51	1390	0.72	1679	1.16	1929	1.64										
1569	1000	908	0.23	1089	0.39	1253	0.56	1407	0.77	1690	1.24	1936	1.74	2156	2.29								
1883	1200	1019	0.32	1175	0.5	1324	0.69	1461	0.9	1719	1.39	1956	1.95	2172	2.54	2369	3.16	Unshaded Area = Design B					
2197	1400	1122	0.43	1277	0.63	1407	0.85	1534	1.08	1768	1.58	1987	2.16	2195	2.8	2388	3.47						
2511	1600	1206	0.55	1388	0.81	1504	1.04	1618	1.29	1835	1.82	2036	2.41	2229	3.07	2414	3.78	2568	4.17	2737	4.9	2896	5.65
2825	1800	1304	0.7	1497	1.01	1611	1.27	1712	1.53	1913	2.11	2102	2.72	2280	3.39	2452	4.11	2619	4.9	2780	5.72	2934	6.58
3139	2000	1417	0.89	1596	1.24	1722	1.54	1817	1.83	2000	2.43	2178	3.09	2345	3.78	2506	4.51	2662	5.3	2815	6.15	2963	7.04
3453	2200	1535	1.13	1679	1.48	1831	1.86	1927	2.17	2095	2.81	2260	3.5	2420	4.23	2572	4.99	2719	5.79	2862	6.64	3002	7.54
3766	2400	1657	1.41	1769	1.75	1932	2.2	2038	2.56	2199	3.24	2351	3.96	2502	4.73	2647	5.53	2787	6.36	2922	7.23	3054	8.13
4080	2600	1780	1.74	1873	2.08	2019	2.54	2146	2.99	2308	3.74	2449	4.49	2590	5.29	2728	6.13	2863	7	2992	7.89	3118	8.82
4394	2800	1905	2.11	1987	2.47	2101	2.92	2244	3.45	2419	4.29	2554	5.08	2684	5.91	2815	6.78	2944	7.69	3068	8.62	3189	9.58
4708	3000	2031	2.55	2105	2.92	2196	3.35	2330	3.91	2530	4.89	2664	5.74	2786	6.6	2908	7.5	3030	8.45	3150	9.42	3266	10.42
5336	3400	2284	3.6	2347	4	2416	4.45	2504	4.96	2735	6.23	2886	7.27	3004	8.23	3113	9.19	3220	10.19	3327	11.23	3435	12.31
5650	3600	2411	4.22	2470	4.65	2533	5.1	2607	5.61	2823	6.93	2994	8.12	3115	9.15	3222	10.17	3323	11.2	3425	12.27	3526	13.37
5964	3800	2539	4.91	2594	5.36	2653	5.83	2718	6.34	2905	7.64	3098	9.01	3226	10.15	3332	11.22	3431	12.3	3527	13.39	3623	14.52

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3453	2200	3140	8.49	3274	9.48	3405	10.5	3531	11.54	3654	12.6	3774	13.67	3890	14.76	4003	15.87						
3766	2400	3184	9.09	3312	10.09	3438	11.13	3561	12.21	3681	13.31	3798	14.44	3913	15.59	4024	16.75						
4080	2600	3240	9.78	3361	10.79	3481	11.83	3599	12.93	3715	14.06	3829	15.22	3940	16.41	4050	17.62						
4394	2800	3307	10.57	3422	11.59	3535	12.64	3647	13.74	3758	14.88	3867	16.05	3975	17.26			Shaded Area = Design D					
4708	3000	3380	11.44	3491	12.49	3599	13.56	3706	14.67	3811	15.81	3915	16.99	4019	18.21								
5336	3400	3541	13.41	3645	14.53	3746	15.68	3846	16.84	3944	18.03	4040	19.23										
5650	3600	3627	14.5	3728	15.67	3827	16.85	3924	18.06	4018	19.28												
5964	3800	3719	15.69	3815	16.89	3911	18.11	4005	19.35														
6277	4000	3816	16.97	3908	18.2	3999	19.46																
6591	4200	3918	18.36	4005	19.62																		
7219	4600																						
7847	5000																						

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 1.930 sq.ft

Inlet Area = 1.969 sq.ft

Wheel Diameter = 18 1/4 inches

Tip Speed = 4.778 x RPM

FBIX-182

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
642	333	643	0.1																				
1736	900	729	0.23	964	0.47	1152	0.71	1321	0.99	1594	1.59	1807	2.21										
1929	1000	756	0.26	980	0.52	1165	0.78	1326	1.06	1610	1.71	1832	2.38	2019	3.07			Unshaded Area = Design B					
2314	1200	824	0.35	1014	0.61	1196	0.93	1352	1.25	1623	1.93	1863	2.7	2065	3.5	2239	4.31						
2700	1400	903	0.46	1065	0.73	1228	1.07	1384	1.45	1645	2.2	1875	2.99	2087	3.87	2275	4.8	2440	5.74	2588	6.69	2724	7.65
3086	1600	987	0.6	1131	0.89	1273	1.23	1416	1.63	1677	2.5	1897	3.35	2099	4.24	2290	5.23	2465	6.27	2625	7.34	2769	8.42
3472	1800	1075	0.76	1205	1.09	1331	1.44	1458	1.84	1707	2.77	1929	3.75	2122	4.71	2303	5.7	2477	6.78	2641	7.92	2794	9.1
3857	2000	1166	0.96	1285	1.32	1399	1.69	1512	2.1	1741	3.04	1960	4.13	2154	5.21	2329	6.27	2494	7.36	2653	8.51	2806	9.74
4243	2200	1261	1.2	1369	1.59	1474	2	1577	2.41	1785	3.37	1991	4.48	2186	5.69	2361	6.88	2522	8.04	2674	9.22	2821	10.45
4629	2400	1357	1.48	1455	1.9	1554	2.34	1649	2.78	1838	3.75	2029	4.87	2216	6.13	2393	7.46	2554	8.75	2704	10.02	2845	11.3
5015	2600	1454	1.81	1545	2.26	1636	2.73	1726	3.2	1900	4.2	2075	5.32	2251	6.6	2423	7.99	2586	9.42	2736	10.83	2877	12.21
5400	2800	1552	2.18	1636	2.66	1722	3.16	1806	3.67	1968	4.71	2130	5.85	2294	7.13	2457	8.53	2616	10.04	2767	11.59	2909	13.11
5786	3000	1652	2.61	1730	3.12	1809	3.65	1889	4.19	2042	5.3	2193	6.46	2345	7.73	2498	9.14	2649	10.67	2798	12.29	2940	13.95
6557	3400	1852	3.64	1921	4.21	1991	4.8	2061	5.41	2200	6.64	2334	7.89	2467	9.21	2601	10.63	2736	12.16	2870	13.8	3004	15.55
6943	3600	1953	4.25	2019	4.85	2084	5.47	2150	6.1	2282	7.41	2410	8.72	2536	10.08	2662	11.51	2789	13.05	2916	14.69	3043	16.44
7329	3800	2054	4.93	2117	5.56	2178	6.21	2241	6.87	2366	8.24	2489	9.62	2609	11.03	2728	12.48	2847	14.03	2968	15.68	3088	17.43

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4243	2200	2963	11.75	3102	13.12	3235	14.53	3361	15.97	3481	17.43	3595	18.9	3703	20.38	3806	21.86						
4629	2400	2982	12.61	3115	13.97	3246	15.41	3373	16.9	3495	18.43	3613	19.99	3726	21.57	3834	23.17						
5015	2600	3010	13.58	3138	14.98	3263	16.41	3386	17.9	3506	19.46	3624	21.06	3738	22.71	3849	24.39						
5400	2800	3042	14.6	3168	16.08	3290	17.56	3408	19.07	3524	20.63	3638	22.24	3750	23.9			Shaded Area = Design D					
5786	3000	3074	15.59	3201	17.2	3321	18.78	3437	20.37	3550	21.96	3660	23.59										
6557	3400	3135	17.38	3263	19.25	3385	21.13	3502	22.98	3613	24.8	3721	26.6										
6943	3600	3169	18.28	3294	20.21	3415	22.19	3532	24.18	3645	26.16												
7329	3800	3209	19.28	3328	21.22	3447	23.25	3563	25.32														
7715	4000	3254	20.39	3368	22.33	3482	24.36																
8100	4200	3305	21.6	3414	23.55																		
8872	4600																						
9643	5000																						

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 2.313 sq.ft

Inlet Area = 2.522 sq.ft

Wheel Diameter = 20.0 inches

Tip Speed = 5.237 x RPM

FBIX-200

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
770	333	586	0.12																				
2080	900	665	0.27	880	0.56	1051	0.85	1205	1.19	1454	1.91	1649	2.65										
2311	1000	689	0.31	894	0.62	1062	0.94	1210	1.28	1468	2.05	1672	2.86	1842	3.68	1993	4.53	Unshaded Area = Design B					
2773	1200	751	0.42	925	0.73	1091	1.12	1233	1.5	1481	2.31	1700	3.23	1884	4.2	2042	5.17						
3236	1400	823	0.55	971	0.88	1120	1.28	1262	1.74	1501	2.63	1711	3.58	1904	4.64	2075	5.76	Unshaded Area = Design B					
3698	1600	899	0.71	1031	1.07	1161	1.47	1291	1.95	1530	3	1730	4.01	1915	5.09	2089	6.28						
4160	1800	979	0.91	1098	1.3	1213	1.72	1330	2.2	1558	3.32	1759	4.5	1936	5.64	2101	6.83	2226	6.88	2361	8.02	2485	9.17
4622	2000	1063	1.15	1171	1.58	1275	2.03	1379	2.51	1588	3.65	1788	4.95	1965	6.25	2125	7.51	2275	8.82	2420	10.21	2561	11.68
5085	2200	1148	1.44	1247	1.91	1344	2.39	1437	2.89	1627	4.03	1816	5.38	1994	6.83	2154	8.25	2301	9.64	2439	11.05	2573	12.53
5547	2400	1236	1.77	1326	2.28	1416	2.8	1503	3.33	1676	4.49	1850	5.84	2022	7.35	2183	8.94	2330	10.49	2466	12.01	2596	13.54
6009	2600	1324	2.16	1407	2.7	1491	3.26	1573	3.83	1732	5.02	1893	6.38	2053	7.9	2210	9.58	2359	11.3	2496	12.98	2624	14.63
6471	2800	1414	2.61	1491	3.18	1569	3.78	1646	4.39	1794	5.64	1942	7.01	2092	8.54	2241	10.22	2386	12.04	2524	13.89	2654	15.72
6934	3000	1504	3.12	1576	3.73	1648	4.37	1721	5.02	1861	6.34	1999	7.73	2138	9.26	2278	10.95	2416	12.79	2552	14.73	2682	16.72
7858	3400	1686	4.35	1750	5.03	1813	5.74	1878	6.46	2005	7.94	2127	9.45	2249	11.02	2371	12.73	2494	14.56	2618	16.54	2740	18.63
8320	3600	1778	5.07	1838	5.79	1898	6.54	1959	7.3	2079	8.86	2197	10.44	2312	12.06	2426	13.78	2543	15.62	2659	17.6	2775	19.7
8783	3800	1871	5.88	1928	6.64	1984	7.42	2041	8.21	2156	9.85	2268	11.51	2378	13.19	2487	14.94	2596	16.8	2706	18.78	2816	20.88

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5085	2200	2704	14.1	2830	15.73	2951	17.43	3067	19.15	3176	20.9	3280	22.66	3379	24.43	3472	26.21						
5547	2400	2720	15.11	2842	16.75	2961	18.48	3077	20.26	3189	22.1	3296	23.98	3399	25.87	3498	27.79						
6009	2600	2746	16.28	2863	17.95	2977	19.68	3089	21.46	3199	23.33	3307	25.26	3411	27.24	3512	29.25						
6471	2800	2775	17.5	2890	19.27	3001	21.05	3109	22.86	3215	24.73	3319	26.66	3421	28.65			Shaded Area = Design D					
6934	3000	2804	18.69	2920	20.61	3030	22.51	3136	24.41	3238	26.32	3339	28.27	3437	30.27								
7858	3400	2860	20.83	2976	23.08	3088	25.32	3194	27.55	3296	29.73	3394	31.88										
8320	3600	2891	21.92	3004	24.23	3115	26.6	3222	28.98	3325	31.35												
8783	3800	2926	23.1	3036	25.43	3144	27.86	3250	30.35														
9245	4000	2967	24.42	3072	26.75	3176	29.19																
9707	4200	3013	25.88	3113	28.21																		
10632	4600																						
11556	5000																						

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

Performance ratings do not include the effects of appurtenances (accessories)." Bulletin: PRINT-003-MI



Air Performance Data

Outlet Area = 2.848 sq.ft

Inlet Area = 3.012 sq.ft

Wheel Diameter = 22 1/4 inches

Tip Speed = 5.826 x RPM

FBIX-222

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
948	333	527	0.15																				
2562	900	597	0.34	790	0.69	944	1.05	1083	1.46	1307	2.35	1481	3.26										
2846	1000	619	0.39	803	0.76	954	1.16	1088	1.57	1320	2.53	1502	3.52	1654	4.54	1790	5.58	Unshaded Area = Design B					
3416	1200	674	0.51	831	0.9	980	1.38	1108	1.85	1331	2.85	1527	3.99	1693	5.18	1834	6.38						
3985	1400	737	0.67	871	1.08	1006	1.57	1134	2.14	1348	3.24	1537	4.42	1711	5.73	1865	7.1	2000	8.49	2121	9.89	2232	11.31
4554	1600	805	0.87	924	1.31	1042	1.81	1159	2.4	1374	3.69	1555	4.94	1721	6.28	1878	7.74	2021	9.28	2151	10.86	2270	12.45
5123	1800	877	1.12	984	1.6	1088	2.12	1193	2.71	1399	4.1	1580	5.54	1739	6.95	1888	8.42	2031	10.02	2166	11.72	2291	13.47
5693	2000	951	1.41	1049	1.94	1143	2.49	1237	3.09	1426	4.5	1606	6.1	1765	7.7	1909	9.26	2044	10.87	2175	12.59	2301	14.41
6262	2200	1028	1.76	1117	2.34	1204	2.93	1289	3.55	1461	4.96	1631	6.62	1791	8.41	1935	10.16	2067	11.87	2192	13.62	2312	15.45
6831	2400	1106	2.17	1188	2.79	1269	3.43	1347	4.09	1503	5.52	1661	7.19	1816	9.06	1961	11.02	2093	12.92	2215	14.79	2332	16.68
7400	2600	1185	2.64	1260	3.31	1336	4	1409	4.7	1553	6.17	1698	7.85	1844	9.74	1985	11.8	2119	13.92	2242	15.99	2357	18.02
7970	2800	1265	3.19	1335	3.9	1405	4.64	1475	5.39	1609	6.93	1743	8.61	1878	10.51	2012	12.6	2143	14.83	2267	17.12	2384	19.36
8539	3000	1346	3.81	1411	4.56	1476	5.35	1542	6.15	1668	7.77	1793	9.49	1919	11.39	2045	13.49	2170	15.75	2292	18.16	2409	20.6
9677	3400	1509	5.31	1566	6.15	1624	7.02	1682	7.92	1796	9.74	1907	11.59	2017	13.54	2127	15.65	2239	17.92	2350	20.36	2460	22.96
10247	3600	1591	6.2	1645	7.08	1699	8	1754	8.93	1863	10.86	1969	12.8	2073	14.8	2176	16.93	2281	19.21	2387	21.66	2492	24.26
10816	3800	1674	7.18	1725	8.11	1776	9.07	1828	10.05	1931	12.07	2033	14.12	2132	16.19	2230	18.35	2329	20.65	2428	23.1	2528	25.7

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6262	2200	2430	17.38	2544	19.41	2652	21.5	2756	23.63	2854	25.79	2947	27.96	3035	30.14	3120	32.33						
6831	2400	2444	18.62	2554	20.65	2661	22.79	2766	24.99	2866	27.27	2962	29.58	3055	31.92	3143	34.28						
7400	2600	2466	20.05	2572	22.11	2675	24.25	2776	26.46	2875	28.77	2972	31.16	3066	33.6	3156	36.09						
7970	2800	2492	21.55	2596	23.73	2696	25.93	2793	28.17	2888	30.48	2982	32.86	3075	35.34			Shaded Area = Design D					
8539	3000	2519	23.02	2622	25.39	2721	27.72	2817	30.06	2909	32.42	3000	34.84	3089	37.31								
9677	3400	2568	25.67	2673	28.44	2773	31.21	2869	33.94	2961	36.61	3049	39.26										
10247	3600	2596	27	2698	29.86	2798	32.78	2894	35.72	2987	38.63												
10816	3800	2627	28.45	2726	31.33	2823	34.34	2919	37.41														
11385	4000	2663	30.05	2758	32.94	2852	35.96																
11954	4200	2704	31.83	2794	34.72																		
13093	4600																						
14232	5000																						

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 3.451 sq.ft

Inlet Area = 3.687 sq.ft

Wheel Diameter = 24 1/2 inches

Tip Speed = 6.415 x RPM

FBIX-245

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1148	333	478	0.18																				
3103	900	542	0.41	717	0.84	857	1.28	983	1.78	1186	2.85	1345	3.95										
3448	1000	562	0.47	729	0.92	867	1.4	988	1.91	1198	3.06	1364	4.27	1502	5.5								
4138	1200	611	0.62	754	1.09	890	1.67	1006	2.24	1208	3.45	1387	4.84	1537	6.27	1666	7.73	Unshaded Area = Design B					
4827	1400	669	0.82	791	1.3	914	1.91	1029	2.59	1224	3.93	1396	5.35	1554	6.94	1693	8.61						
5517	1600	731	1.06	839	1.59	946	2.2	1053	2.91	1248	4.47	1412	5.99	1563	7.6	1705	9.38	1816	10.29	1926	11.98	2027	13.7
6207	1800	796	1.35	894	1.94	988	2.56	1083	3.28	1270	4.97	1435	6.71	1579	8.42	1715	10.21	1836	11.25	1954	13.16	2061	15.08
6896	2000	863	1.71	952	2.35	1038	3.01	1123	3.74	1295	5.45	1458	7.4	1603	9.32	1733	11.21	1845	12.15	1967	14.2	2081	16.32
7586	2200	933	2.13	1014	2.83	1093	3.55	1170	4.3	1326	6.01	1481	8.03	1626	10.19	1757	12.31	1856	13.17	1975	15.25	2090	17.46
8276	2400	1004	2.62	1078	3.37	1152	4.16	1223	4.95	1365	6.68	1508	8.71	1649	10.98	1780	13.35	1877	14.38	1990	16.5	2100	18.72
8965	2600	1076	3.19	1144	4	1212	4.84	1279	5.69	1410	7.48	1542	9.51	1674	11.79	1803	14.3	1900	15.66	2012	17.92	2118	20.21
9655	2800	1148	3.86	1211	4.72	1275	5.61	1338	6.52	1460	8.39	1582	10.43	1705	12.73	1827	15.26	1924	16.86	2036	19.38	2140	21.83
10345	3000	1221	4.61	1280	5.52	1340	6.47	1399	7.44	1515	9.41	1628	11.5	1742	13.8	1857	16.34	1946	17.97	2059	20.74	2164	23.46
11724	3400	1369	6.42	1421	7.44	1474	8.5	1526	9.58	1630	11.79	1731	14.04	1831	16.4	1931	18.95	1970	19.09	2081	22	2187	24.96
12414	3600	1444	7.5	1493	8.57	1542	9.68	1592	10.81	1691	13.14	1787	15.5	1881	17.92	1976	20.5	2033	21.71	2134	24.67	2234	27.81
13103	3800	1519	8.69	1566	9.82	1612	10.98	1659	12.17	1753	14.61	1845	17.09	1935	19.6	2024	22.22	2071	23.27	2167	26.23	2262	29.38
																		2114	25.01	2204	27.98	2295	31.13

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7586	2200	2207	21.07	2310	23.52	2409	26.06	2503	28.63	2592	31.25	2676	33.88	2756	36.52	2833	39.17						
8276	2400	2220	22.56	2319	25.02	2417	27.61	2512	30.29	2603	33.04	2690	35.85	2774	38.68	2854	41.54						
8965	2600	2240	24.29	2336	26.79	2429	29.38	2521	32.06	2611	34.87	2699	37.76	2784	40.72	2866	43.73						
9655	2800	2263	26.11	2357	28.75	2448	31.41	2537	34.13	2623	36.93	2708	39.81	2792	42.82								
10345	3000	2287	27.89	2381	30.76	2471	33.58	2558	36.42	2642	39.28	2724	42.21	2805	45.2			Shaded Area = Design D					
11724	3400	2332	31.1	2427	34.46	2518	37.81	2605	41.11	2688	44.36	2768	47.57										
12414	3600	2357	32.71	2450	36.18	2541	39.72	2628	43.28	2712	46.8												
13103	3800	2385	34.46	2475	37.96	2564	41.6	2650	45.33														
13793	4000	2418	36.4	2504	39.91	2589	43.57																
14482	4200	2455	38.55	2537	42.05																		
15862	4600																						
17241	5000																						

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 4.193 sq.ft

Inlet Area = 4.277 sq.ft

Wheel Diameter = 27.0 inches

Tip Speed = 7.070 x RPM

FBIX-270

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3352	800	457	0.38																				
3771	900	477	0.45																				
4190	1000	499	0.51	626	0.95																		
5028	1200	547	0.68	659	1.17	764	1.72																
5867	1400	603	0.89	703	1.44	794	2.02	884	2.67														
6705	1600	664	1.17	749	1.74	835	2.4	913	3.08														
7543	1800	727	1.52	801	2.12	880	2.82	954	3.57	1092	5.14												
8381	2000	792	1.93	858	2.58	927	3.3	998	4.12	1126	5.8	1252	7.61										
9219	2200	858	2.42	919	3.13	980	3.87	1044	4.72	1168	6.55	1280	8.42	1396	10.48								
10057	2400	926	3	981	3.76	1037	4.55	1094	5.41	1211	7.36	1319	9.36	1421	11.44	1529	13.72						
10895	2600	993	3.67	1046	4.49	1097	5.33	1148	6.22	1256	8.22	1361	10.4	1458	12.58	1553	14.86	1652	17.34				
11733	2800	1062	4.44	1111	5.33	1158	6.22	1206	7.15	1304	9.19	1405	11.49	1499	13.83	1587	16.19	1676	18.67	1768	21.33		
12571	3000	1131	5.32	1177	6.27	1221	7.23	1265	8.2	1356	10.28	1450	12.65	1542	15.16	1628	17.66	1710	20.21	1792	22.86	1878	25.69
14247	3400	1270	7.44	1311	8.51	1351	9.59	1390	10.68	1468	12.91	1548	15.34	1632	18.03	1715	20.86	1792	23.7	1866	26.55	1939	29.44
15085	3600	1340	8.7	1379	9.83	1417	10.97	1454	12.12	1527	14.45	1602	16.92	1680	19.64	1759	22.57	1836	25.59	1909	28.59	1978	31.61
15924	3800	1410	10.09	1447	11.28	1483	12.49	1519	13.7	1588	16.15	1659	18.69	1731	21.42	1806	24.4	1880	27.54	1952	30.73	2021	33.9

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9219	2200																						
10057	2400																						
10895	2600																						
11733	2800																						
12571	3000	1967	28.72																				
14247	3400	2011	32.43	2085	35.56																		
15085	3600	2047	34.67	2115	37.82	2185	41.1	2256	44.53	2330	48.14												
15924	3800	2086	37.08	2151	40.31	2216	43.62	2281	47.03	2348	50.59	2417	54.31										
16762	4000	2129	39.63	2191	42.98	2253	46.37	2314	49.83	2376	53.39	2439	57.06										
17600	4200	2172	42.29	2234	45.79	2293	49.31	2352	52.86	2410	56.46	2469	60.16										
19276	4600	2260	47.87	2321	51.72	2379	55.58	2436	59.42														
20952	5000	2354	54.04	2411	58.1	2467	62.25																

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 5.175 sq.ft

Inlet Area = 5.413 sq.ft

Wheel Diameter = 30.0 inches

Tip Speed = 7.855 x RPM

FBIX-300

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4137	800	413	0.48																				
4654	900	432	0.55																				
5171	1000	452	0.64	566	1.17																		
6205	1200	495	0.84	597	1.45	691	2.12																
7240	1400	546	1.11	636	1.78	718	2.5	799	3.29														
8274	1600	602	1.46	678	2.15	756	2.97	826	3.8														
9308	1800	659	1.88	726	2.62	796	3.49	864	4.42	988	6.34												
10342	2000	719	2.4	778	3.2	840	4.09	904	5.09	1019	7.16	1131	9.39										
11376	2200	779	3.01	833	3.88	888	4.8	945	5.84	1057	8.1	1158	10.4	1262	12.92								
12411	2400	840	3.73	890	4.68	940	5.65	991	6.7	1097	9.1	1193	11.58	1285	14.13	1381	16.92						
13445	2600	902	4.57	949	5.59	994	6.62	1040	7.71	1138	10.17	1232	12.86	1319	15.55	1404	18.35	1493	21.38				
14479	2800	964	5.53	1008	6.63	1050	7.73	1093	8.87	1181	11.38	1272	14.21	1357	17.1	1436	20.01	1515	23.05	1597	26.31		
15513	3000	1027	6.63	1068	7.8	1108	8.98	1147	10.18	1228	12.74	1313	15.65	1396	18.74	1473	21.83	1547	24.97	1621	28.23	1697	31.69
17582	3400	1153	9.28	1190	10.6	1226	11.93	1261	13.27	1331	16.03	1403	19	1478	22.31	1552	25.79	1622	29.31	1689	32.81	1754	36.38
18616	3600	1216	10.84	1251	12.24	1285	13.65	1319	15.07	1385	17.94	1452	20.98	1522	24.32	1593	27.92	1662	31.64	1728	35.35	1790	39.07
19650	3800	1280	12.58	1313	14.06	1346	15.54	1378	17.04	1440	20.05	1503	23.18	1568	26.54	1635	30.2	1702	34.07	1767	38	1829	41.92

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11376	2200																						
12411	2400																						
13445	2600																						
14479	2800																						
15513	3000	1777	35.41																				
17582	3400	1819	40.05	1885	43.89	1954	47.94																
18616	3600	1851	42.84	1913	46.71	1975	50.73	2039	54.93	2105	59.35												
19650	3800	1888	45.84	1946	49.81	2004	53.87	2063	58.07	2123	62.43	2184	66.98										
20684	4000	1927	49	1983	53.13	2038	57.3	2093	61.56	2149	65.92	2205	70.44										
21719	4200	1966	52.29	2021	56.62	2075	60.95	2128	65.32	2180	69.76												
23787	4600	2046	59.21	2101	63.96	2153	68.73	2204	73.46														
25856	5000	2131	66.89	2183	71.88																		

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 6.263 sq.ft

Inlet Area = 6.587 sq.ft

Wheel Diameter = 33.0 inches

Tip Speed = 8.640 x RPM

FBIX-330

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5007	800	376	0.58																				
5632	900	393	0.67																				
6258	1000	411	0.77																				
7510	1200	450	1.01	542	1.75	628	2.56																
8762	1400	497	1.34	578	2.15	653	3.03	726	3.98														
10013	1600	547	1.76	617	2.61	687	3.6	751	4.6														
11265	1800	600	2.28	660	3.17	724	4.22	785	5.35	898	7.67												
12517	2000	653	2.9	708	3.87	764	4.95	821	6.16	926	8.67	1029	11.36										
13768	2200	708	3.65	758	4.7	807	5.81	859	7.06	961	9.8	1053	12.59	1147	15.64								
15020	2400	764	4.52	809	5.66	855	6.84	901	8.11	997	11.01	1085	14.01	1169	17.1	1256	20.48						
16271	2600	820	5.53	862	6.76	904	8.02	946	9.33	1034	12.31	1120	15.56	1199	18.81	1276	22.21	1357	25.88				
17523	2800	876	6.69	916	8.02	955	9.36	994	10.74	1074	13.77	1156	17.19	1233	20.69	1306	24.22	1378	27.9	1452	31.84	1530	36.12
18775	3000	933	8.03	971	9.44	1007	10.87	1043	12.32	1117	15.42	1194	18.94	1269	22.68	1339	26.42	1406	30.22	1474	34.16	1543	38.35
21278	3400	1048	11.23	1082	12.83	1114	14.45	1146	16.07	1210	19.4	1275	23	1344	27	1411	31.22	1475	35.47	1535	39.71	1594	44.03
22530	3600	1106	13.13	1138	14.82	1169	16.53	1199	18.24	1259	21.72	1320	25.4	1383	29.44	1448	33.79	1511	38.29	1571	42.79	1627	47.28
23781	3800	1164	15.24	1194	17.02	1224	18.82	1253	20.63	1310	24.27	1367	28.06	1426	32.13	1487	36.56	1548	41.23	1607	45.99	1663	50.73

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13768	2200																						
15020	2400																						
16271	2600																						
17523	2800																						
18775	3000	1615	42.86																				
21278	3400	1654	48.47	1714	53.12	1776	58.02																
22530	3600	1683	51.85	1739	56.53	1796	61.39	1854	66.48	1914	71.83												
23781	3800	1716	55.48	1769	60.28	1822	65.2	1875	70.28	1930	75.55	1986	81.06										
25033	4000	1752	59.31	1803	64.3	1853	69.35	1903	74.5	1953	79.78	2005	85.25										
26285	4200	1787	63.29	1838	68.53	1887	73.77	1935	79.06	1982	84.43												
28788	4600	1860	71.66	1910	77.41	1958	83.18	2004	88.91														
31291	5000	1938	80.96	1984	87																		

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 7.653 sq.ft

Inlet Area = 8.805 sq.ft

Wheel Diameter = 36 1/2 inches

Tip Speed = 9.557 x RPM

FBIX-365

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6118	800	336	0.7																				
6883	900	352	0.82																				
7648	1000	370	0.95	460	1.74															Unshaded Area = Design B			
9177	1200	406	1.27	486	2.14	561	3.14																
10707	1400	446	1.67	521	2.65	584	3.7	649	4.89														
12237	1600	489	2.19	556	3.25	617	4.41	672	5.62	787	8.48												
13766	1800	535	2.83	594	3.96	653	5.24	704	6.55	803	9.4	907	12.82										
15296	2000	581	3.6	635	4.83	689	6.17	740	7.61	829	10.59	919	13.95	1013	17.84								
16825	2200	629	4.5	678	5.85	727	7.25	776	8.79	862	11.99	942	15.39	1025	19.21	1110	23.52						
18355	2400	678	5.57	723	7.03	767	8.52	812	10.12	897	13.57	972	17.11	1045	20.93	1122	25.16	1200	29.84				
19884	2600	727	6.8	769	8.39	810	9.99	851	11.64	933	15.29	1006	19.07	1073	22.98	1141	27.19	1212	31.79	1285	36.8	1357	42.26
21414	2800	776	8.22	816	9.94	854	11.65	892	13.39	969	17.17	1041	21.21	1106	25.3	1168	29.58	1232	34.16	1298	39.1	1365	44.42
22943	3000	826	9.84	863	11.68	899	13.51	935	15.35	1006	19.25	1077	23.52	1141	27.86	1200	32.29	1258	36.92	1318	41.83	1379	47.08
26003	3400	927	13.73	960	15.82	992	17.9	1024	19.97	1086	24.19	1150	28.72	1212	33.56	1270	38.48	1323	43.43	1375	48.51	1426	53.79
27532	3600	977	16.03	1009	18.24	1039	20.45	1069	22.65	1129	27.06	1188	31.71	1248	36.7	1306	41.89	1359	47.1	1409	52.36	1457	57.76
29062	3800	1028	18.59	1058	20.92	1087	23.25	1116	25.58	1172	30.22	1228	35	1285	40.11	1341	45.5	1395	51	1444	56.5	1491	62.07

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16825	2200																						
18355	2400																						
19884	2600																						
21414	2800																						
22943	3000	1441	52.69															Shaded Area = Design D					
26003	3400	1479	59.32	1532	65.14	1587	71.27	1642	77.73	1698	84.51												
27532	3600	1506	63.34	1555	69.15	1605	75.24	1657	81.61	1709	88.29	1761	95.28	1813	102.56	1865	110.18	1917	118.09				
29062	3800	1537	67.77	1583	73.63	1629	79.73	1677	86.07	1725	92.68	1774	99.58	1824	106.76	1873	114.23	1923	121.99				
30591	4000	1571	72.56	1614	78.55	1658	84.71	1702	91.06	1747	97.65	1792	104.5	1839	111.59	1885	118.98						
32121	4200	1606	77.68	1648	83.84	1690	90.12	1731	96.56	1773	103.17	1815	110	1859	117.07	1902	124.37						
35180	4600	1677	88.75	1719	95.4	1759	102.08	1798	108.83														
38239	5000	1749	100.87	1790	108.07	1830	115.31																

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 9.302 sq.ft

Inlet Area = 9.853 sq.ft

Wheel Diameter = 40 1/4 inches

Tip Speed = 10.54 x RPM

FBIX-402

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7513	800	305	0.86																				
8452	900	320	1.01																				
9391	1000	336	1.17	417	2.14																		
11269	1200	369	1.56	441	2.63	509	3.86																
13147	1400	406	2.07	473	3.27	530	4.55	589	6														
15025	1600	446	2.72	506	4.01	561	5.43	610	6.91	714	10.4												
16904	1800	487	3.51	541	4.9	594	6.45	640	8.06	728	11.55	822	15.71										
18782	2000	530	4.46	578	5.97	626	7.61	673	9.38	753	13.03	834	17.12	918	21.86								
20660	2200	574	5.59	618	7.24	661	8.96	705	10.84	783	14.77	855	18.92	930	23.57	1006	28.81						
22538	2400	618	6.91	658	8.71	698	10.54	739	12.49	816	16.72	883	21.06	949	25.72	1018	30.87	1088	36.56				
24416	2600	663	8.45	700	10.41	737	12.36	774	14.39	848	18.85	914	23.48	975	28.27	1036	33.4	1100	39	1165	45.11	1230	51.73
26295	2800	708	10.21	743	12.33	778	14.42	812	16.55	881	21.18	947	26.14	1005	31.16	1061	36.38	1118	41.96	1177	47.97	1237	54.45
28173	3000	753	12.23	787	14.49	819	16.74	851	19	915	23.77	979	28.99	1037	34.32	1090	39.75	1143	45.4	1196	51.39	1251	57.79
31929	3400	845	17.07	875	19.64	904	22.2	932	24.74	989	29.91	1046	35.44	1102	41.37	1155	47.41	1203	53.49	1249	59.7	1295	66.15
33807	3600	892	19.94	920	22.65	947	25.37	974	28.07	1028	33.49	1081	39.16	1135	45.27	1187	51.63	1235	58.03	1280	64.48	1324	71.08
35685	3800	938	23.13	965	25.99	991	28.86	1017	31.71	1067	37.41	1118	43.27	1169	49.5	1220	56.11	1268	62.85	1313	69.61	1355	76.43

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20660	2200																						
22538	2400																						
24416	2600																						
26295	2800																						
28173	3000	1307	64.6																				
31929	3400	1342	72.89	1390	79.98	1439	87.45	1489	95.3	1539	103.54												
33807	3600	1368	77.89	1412	84.98	1457	92.4	1503	100.17	1550	108.29	1597	116.77	1644	125.66								
35685	3800	1397	83.4	1438	90.57	1479	98	1522	105.73	1565	113.78	1609	122.18	1654	130.89								
37564	4000	1428	89.35	1467	96.68	1506	104.2	1545	111.94	1586	119.99	1626	128.31										
39442	4200	1460	95.69	1498	103.24	1536	110.93	1573	118.78	1610	126.86	1648	135.18										
43198	4600	1525	109.38	1563	117.56	1599	125.75	1634	134.02														
46955	5000	1590	124.4	1628	133.23																		

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 11.388 sq.ft

Inlet Area = 11.795 sq.ft

Wheel Diameter = 44 1/2 inches

Tip Speed = 11.65 x RPM

FBIX-445

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9104	800	275	1.05																				
10242	900	288	1.22																				
11380	1000	303	1.41	377	2.59																		
13656	1200	333	1.88	398	3.18	459	4.68																
15932	1400	365	2.49	426	3.94	478	5.5	532	7.27														
18208	1600	401	3.26	456	4.83	505	6.56	550	8.37	645	12.63												
20484	1800	438	4.21	486	5.89	535	7.79	577	9.74	658	13.99	743	19.08										
22760	2000	476	5.34	520	7.17	564	9.18	606	11.32	679	15.75	753	20.76	830	26.56								
25036	2200	515	6.69	555	8.69	595	10.78	635	13.08	706	17.84	771	22.9	840	28.59	910	35.01						
27312	2400	555	8.27	592	10.45	628	12.67	665	15.05	735	20.18	796	25.46	856	31.14	919	37.44	983	44.42				
29588	2600	595	10.1	629	12.47	663	14.84	697	17.31	764	22.74	824	28.36	879	34.19	935	40.46	993	47.31	1052	54.78	1112	62.9
31864	2800	635	12.21	668	14.77	699	17.31	730	19.9	793	25.53	853	31.54	906	37.64	957	44.01	1009	50.82	1063	58.18	1118	66.11
34140	3000	676	14.61	707	17.36	736	20.08	765	22.82	824	28.63	882	34.97	934	41.44	983	48.03	1030	54.92	1079	62.24	1130	70.06
38692	3400	758	20.39	786	23.5	812	26.6	838	29.68	889	35.96	941	42.7	993	49.9	1040	57.22	1084	64.6	1126	72.16	1168	80.02
40968	3600	800	23.81	826	27.09	851	30.38	875	33.65	924	40.23	973	47.14	1022	54.58	1069	62.29	1113	70.05	1154	77.89	1194	85.92
43244	3800	841	27.6	866	31.07	890	34.55	913	38.01	960	44.91	1006	52.03	1052	59.64	1098	67.66	1142	75.84	1182	84.03	1221	92.33

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
25036	2200																						
27312	2400																						
29588	2600																						
31864	2800																						
34140	3000	1181	78.43																				
38692	3400	1211	88.26	1255	96.93	1300	106.07	1345	115.69	1391	125.8												
40968	3600	1233	94.22	1274	102.89	1315	111.96	1357	121.45	1400	131.41	1443	141.82	1486	152.67								
43244	3800	1259	100.81	1296	109.54	1334	118.61	1374	128.07	1413	137.92	1453	148.19	1494	158.9								
45520	4000	1286	107.93	1322	116.85	1358	126.01	1394	135.48	1431	145.28	1468	155.5										
47796	4200	1315	115.53	1350	124.71	1384	134.06	1418	143.64	1452	153.48	1487	163.67										
52348	4600	1373	131.98	1408	141.88	1440	151.83	1472	161.87														
56900	5000	1432	149.99	1466	160.72	1499	171.48																

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 13.791 sq.ft

Inlet Area = 13.911 sq.ft

Wheel Diameter = 49.0 inches

Tip Speed = 12.83 x RPM

FBIX-490

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11025	800	250	1.27																				
12403	900	262	1.47																				
13781	1000	275	1.71		3.14																		
16538	1200	302	2.28		3.85	417	5.67																
19294	1400	331	3.01		4.77	434	6.66	483	8.81														
22050	1600	363	3.94		5.85	459	7.94	500	10.13	586	15.29												
24806	1800	397	5.09		7.13	485	9.42	524	11.78	597	16.95	675	23.12										
27563	2000	432	6.46		8.68	512	11.1	550	13.7	616	19.07	684	25.14	754	32.18								
30319	2200	467	8.09		10.51	540	13.05	576	15.83	641	21.59	700	27.73	762	34.63	826	42.42						
33075	2400	503	10		12.64	570	15.33	604	18.21	667	24.42	722	30.82	777	37.71	834	45.35	893	53.82				
35831	2600	540	12.21		15.08	602	17.95	632	20.94	693	27.52	747	34.32	798	41.39	849	48.99	902	57.3	956	66.36	1009	76.21
38588	2800	576	14.76		17.86	634	20.93	663	24.07	720	30.9	774	38.18	822	45.56	868	53.28	916	61.54	965	70.47	1015	80.09
41344	3000	613	17.66		20.98	668	24.28	694	27.6	748	34.64	800	42.33	848	50.16	892	58.14	935	66.49	980	75.37	1026	84.85
46856	3400	688	24.64		28.4	737	32.16	760	35.89	807	43.49	854	51.66	901	60.39	944	69.26	984	78.19	1022	87.36	1060	96.88
49613	3600	726	28.77		32.75	772	36.74	794	40.69	838	48.66	883	57.03	928	66.04	970	75.39	1010	84.78	1047	94.28	1083	104.01
52369	3800	763	33.36		37.56	807	41.76	829	45.95	871	54.32	912	62.94	955	72.16	997	81.89	1037	91.79	1073	101.71	1108	111.76

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
30319	2200																						
33075	2400																						
35831	2600																						
38588	2800																						
41344	3000	1072	95																				
46856	3400	1099	106.87	1140	117.38	1180	128.46	1222	140.13	1263	152.4												
49613	3600	1120	114.08	1156	124.58	1194	135.58	1232	147.09	1271	159.16	1310	171.8	1349	184.95								
52369	3800	1143	122.04	1177	132.63	1211	143.62	1247	155.09	1283	167.04	1320	179.48	1357	192.47								
55125	4000	1168	130.65	1200	141.45	1233	152.56	1265	164.04	1299	175.93	1333	188.31	1367	201.12								
57882	4200	1194	139.84	1225	150.96	1256	162.29	1287	173.9	1318	185.83	1350	198.18										
63394	4600	1247	159.73	1278	171.73	1307	183.77	1336	195.93														
68907	5000	1300	181.52	1331	194.51	1360	207.54																

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 16.928 sq.ft

Inlet Area = 17.723 sq.ft

Wheel Diameter = 54 1/4 inches

Tip Speed = 14.20 x RPM

FBIX-542

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13533	800	226	1.55																				
15224	900	237	1.81																				
16916	1000	249	2.1	309	3.86																		
20299	1200	273	2.8	326	4.73	377	6.96																
23682	1400	300	3.7	350	5.86	392	8.18	436	10.81														
27066	1600	329	4.85	374	7.19	415	9.75	451	12.44	529	18.77												
30449	1800	359	6.25	399	8.76	439	11.58	473	14.47	539	20.8	609	28.37										
33832	2000	390	7.95	426	10.67	463	13.64	497	16.83	557	23.42	618	30.86	681	39.48								
37215	2200	423	9.95	455	12.92	488	16.03	521	19.44	579	26.51	633	34.04	689	42.5	746	52.04						
40598	2400	455	12.3	485	15.54	515	18.84	546	22.38	603	30	653	37.84	702	46.3	754	55.66	807	66.03				
43982	2600	488	15.02	516	18.55	544	22.07	572	25.74	627	33.81	676	42.15	721	50.82	767	60.14	815	70.32	863	81.42	912	93.5
47365	2800	521	18.15	548	21.96	573	25.73	599	29.58	651	37.96	699	46.89	743	55.95	785	65.42	828	75.55	872	86.48	917	98.27
50748	3000	555	21.73	580	25.8	604	29.85	628	33.92	676	42.56	723	51.99	766	61.6	806	71.4	845	81.64	885	92.52	927	104.14
57514	3400	622	30.32	645	34.94	666	39.55	687	44.13	730	53.45	772	63.47	814	74.18	853	85.07	889	96.03	924	107.27	958	118.95
60898	3600	656	35.4	677	40.28	698	45.18	718	50.03	758	59.81	798	70.08	838	81.13	877	92.61	913	104.13	946	115.78	979	127.72
64281	3800	690	41.05	711	46.2	730	51.36	749	56.51	787	66.77	825	77.36	863	88.66	901	100.59	937	112.74	970	124.92	1002	137.25

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
37215	2200																						
40598	2400																						
43982	2600																						
47365	2800																						
50748	3000	969	116.57																				
57514	3400	993	131.19	1030	144.08	1066	157.66	1104	171.96	1141	186.99												
60898	3600	1012	140.07	1045	152.94	1079	166.42	1113	180.53	1148	195.32	1183	210.8	1219	226.92								
64281	3800	1033	149.85	1063	162.84	1095	176.32	1127	190.38	1159	205.02	1192	220.27	1225	236.19								
67664	4000	1055	160.44	1085	173.7	1114	187.32	1143	201.39	1174	215.96	1204	231.14	1235	246.84								
71047	4200	1079	171.74	1107	185.39	1135	199.29	1163	213.53	1191	228.15	1220	243.29										
77814	4600	1127	196.2	1155	210.92	1182	225.7	1208	240.62														
84580	5000	1175	222.98	1203	238.92	1230	254.93																

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Air Performance Data

Outlet Area = 20.692 sq.ft

Inlet Area = 21.65 sq.ft

Wheel Diameter = 60 inches

Tip Speed = 15.71 x RPM

FBIX-600

Static Pressure		0.500"		1.000"		1.500"		2.000"		3.000"		4.000"		5.000"		6.000"		7.000"		8.000"		9.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16542	800	204	1.9																				
18610	900	214	2.21																				
20677	1000	225	2.57		4.71															Unshaded Area = Design B			
24813	1200	247	3.42		5.78	341	8.5																
28948	1400	271	4.52		7.16	355	9.99	394	13.22														
33084	1600	297	5.92		8.78	375	11.91	408	15.2	478	22.94												
37219	1800	324	7.64		10.7	396	14.14	428	17.69	488	25.43	551	34.68										
41355	2000	353	9.7		13.03	418	16.67	449	20.56	503	28.62	558	37.72	616	48.27								
45490	2200	382	12.15		15.79	441	19.59	471	23.76	523	32.4	572	41.6	623	51.95	675	63.63						
49626	2400	411	15.02		18.98	466	23.01	493	27.34	545	36.66	590	46.25	635	56.59	682	68.04	729	80.73				
53761	2600	441	18.34		22.65	491	26.95	517	31.44	566	41.31	611	51.51	652	62.11	693	73.51	736	85.96	780	99.55	824	114.32
57897	2800	471	22.17		26.82	518	31.43	541	36.14	588	46.38	632	57.3	671	68.38	709	79.95	748	92.34	788	105.72	829	120.14
62032	3000	501	26.53		31.51	546	36.46	567	41.44	611	51.99	654	63.53	693	75.28	729	87.26	764	99.78	800	113.09	838	127.3
70303	3400	562	37.01		42.66	602	48.3	621	53.9	659	65.3	698	77.55	736	90.65	771	103.95	804	117.35	835	131.1	866	145.38
74439	3600	593	43.21		49.19	631	55.17	649	61.11	685	73.06	721	85.61	758	99.13	793	113.16	825	127.25	855	141.49	885	156.09
78574	3800	624	50.11		56.41	660	62.72	677	69.01	711	81.56	746	94.5	780	108.32	814	122.91	847	137.76	877	152.65	905	167.72

Static Pressure		10.000"		11.000"		12.000"		13.000"		14.000"		15.000"		16.000"		17.000"		18.000"		19.000"		20.000"	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
45490	2200																						
49626	2400																						
53761	2600																			Shaded Area = Design D			
57897	2800																						
62032	3000	876	142.51																				
70303	3400	898	160.35	931	176.12	964	192.73	998	210.23	1031	228.61												
74439	3600	915	171.19	944	186.93	975	203.42	1006	220.68	1038	238.78	1070	257.72	1102	277.44								
78574	3800	933	183.14	961	199.02	990	215.5	1019	232.7	1048	250.61	1078	269.27	1108	288.75								
82710	4000	954	196.07	980	212.28	1007	228.94	1034	246.15	1061	263.97	1089	282.54										
86845	4200	975	209.87	1001	226.55	1026	243.55	1051	260.96	1077	278.85	1103	297.37										
95116	4600	1018	239.75	1044	257.74	1068	275.81	1092	294.05														
103387	5000	1062	272.45	1087	291.94	1111	311.5																

*Performance certified are for Installation type D "Ducted Inlet,Ducted Outlet".

Power Rating (BHP) does not include transmission losses.

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



Universal Fan & Blower Ltd. FBIX Backward Inclined Centrifugal Fan

Engineered Product Specification

GENERAL

Fans shall be size _____ as manufactured by Universal Fan & Blower Ltd of Bloomfield, Ontario, Canada K0K1G0

All surfaces in contact with the contaminated airstream will be solid corrosion resistant FRP composite and all fasteners shall be 316ss, fully encapsulated in FRP.

Fans shall be AMCA arrangement ____ (Option 1, 8, 9, or 10) with rotation and discharge as shown on the drawings (Option is to state actual rotation and discharge)

PERFORMANCE

Fan performance ratings shall be based on tests made in accordance with AMCA standard 210 and the fan shall be licensed to bear the AMCA Certified Ratings Seal for Air Performance. Only AMCA certified fans will be accepted with no exceptions.

Fan shall be capable of delivering _____ CFM at _____ inches WG at _____ density and brake horse power shall not exceed _____ BHP (Option is to change units of measure)

SOUND

Fan sound ratings shall be based on tests made in accordance with AMCA standard 300 and 301 and the fan shall be licensed to bear the AMCA Certified Ratings Seal for Sound. Only AMCA certified fans will be accepted with no exceptions.

Sound power ratings shall be shown in eight octave bands and will be corrected for the specific installation, divergence, reflection, and distance by the specifying engineer. All sound power ratings shall be in decibels and reference 10^{-12} watts. Single figure dBA levels only are not acceptable.

CONSTRUCTION

All FRP composite components shall be fabricated in accordance with ASTM Standard Specification D4167-97 (Reapproved 2002) for Fiber Reinforced Plastic Fans & Blowers. All resins shall be clear to permit the detection of imperfections in the laminate structure. Use of any additives in the laminates which may render such imperfections difficult to detect shall not be permitted.

FAN HOUSING

The fan housing shall be of solid FRP composite one-piece construction (no center flange), fabricated by open molding using corrosion grade resins. A glass veil will be used on all airstream surfaces giving a resin rich liner for optimum chemical resistance. Fasteners shall be 316ss and where exposed to the fan air stream they will be fully encapsulated within the FRP laminate to achieve maximum torque capability with no deviation of the air stream surfaces to minimize resistance and prevent build up of contaminants. The housing shall be supplied with an undrilled outlet flange (Option is pre drilled) and a slip type inlet. The exterior of the fan housing shall have a UFBL grey gel coat finish containing U.V. inhibitor to prevent ultra violet light degradation.

FAN WHEEL

The fan wheel shall be backward inclined design of solid FRP construction with a wheel cone for a smooth transition from the inlet funnel. The wheel shall be positively locked onto a stepped shaft by means of a 316ss retaining plate, which is protected from the airstream by FRP encapsulation. (Taper lock bushings are not acceptable.). The wheel shall be balanced statically and dynamically as per ANSI/AMCA Standard 204-05 Balance Quality & Vibration Levels for Fans to grade G 6.3 which is in accordance with the Industrial Process and Power Generation Fan Application Category BV-3

SHAFT

Shafts will be 316ss accurately turned & gauged for accuracy and sized so that the first critical speed is a minimum of 1.35 times the maximum operating speed.

SHAFT SEAL

Shaft seal shall be Teflon which is precision cut for a close tolerance fit with the fan shaft. The seal will seat in a FRP composite seal box and fastened into the box by 316ss fasteners.

BEARINGS

Fan bearings shall be completely isolated from the contaminated air stream and designed for a minimum life of 40,000 hours based on AFMBA L₁₀ standard. Bearings shall be grease lubricated anti friction ball or spherical roller self aligning pillow block design.

SUPPORT STRUCTURE

Fan support structure shall be steel construction and protected with a minimum two coats of Amercoat 370 high build epoxy paint and will match the colour of the fan housing. Surfaces shall be prepared in accordance with paint manufacturer's recommendations and achieve a minimum dry film thickness of 6-8 mils. (Option is to specify surface preparation on steel or substitute alternate material such as stainless steel).

FACTORY TEST RUN

Prior to shipment all fans shall be mechanically test run and trim balanced to ensure vibration levels are in keeping with ANSI/AMCA Standard 204-05

WARRANTY

Fan manufacturer shall warrant that components shall be free from defects in workmanship and material under normal use and service for a period of one year from the date of original installation, or eighteen (18) months from the date of shipment, whichever occurs first.

Note: The addition of UFBL Features to the standard fan will amend the specification accordingly

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