FAN MODEL	PAGE
MODEL JJ-11	2
MODEL JJ-13	3
MODEL JJ-15	4
MODEL JJ-17	5
MODEL JJ-19	6
MODEL JJ-21	7
MODEL JJ-23	8
MODEL JJ-26	9
MODEL JJ-29	10
MODEL JJ-33	11
MODEL JJ-37	12

BRUNING & FEDERLE MFG. CO.

AIR PERFORMANCE TABLE

WHEEL DIA. 19.47 IN.

INLET AREA 0.66 FT²

FLOW	INLET VEL	FAN STATIC PRESSURE																	
		1.00 in w.g.		2.00 in w.g.		3.00 in w.g.		4.00 in w.g.		5.00 in w.g.		6.00 in w.g.		7.00 in w.g.		8.00 in w.g.		9.00 in w.g.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
792	1200	732	0.29	1022	0.55	1248	0.85												
924	1400	815	0.35	1052	0.64	1245	0.97												
1055	1600	899	0.43	1088	0.75	1269	1.10	1455	1.43	1656	1.85								
1187	1800	984	0.53	1129	0.87	1303	1.26	1468	1.69	1660	2.07	1857	2.52						
1319	2000	1077	0.64	1186	1.02	1339	1.41	1489	1.79	1667	2.26	1851	2.76	1998	3.25	2092	3.79		
1452	2200	1169	0.77	1268	1.17	1394	1.60	1516	1.98	1686	2.51	1788	3.01	1966	3.53	2057	4.06	2150	4.61
1584	2400	1268	0.91	1359	1.36	1467	1.81	1581	2.31	1668	2.78	1818	3.36	1929	3.93	2041	4.39	2152	4.97
1715	2600	1356	1.09	1458	1.55	1548	2.04	1648	2.48	1731	3.05	1851	3.60	1962	4.16	2067	4.71	2170	5.34
1848	2800	1465	1.26	1567	1.77	1673	2.29	1819	2.74	1765	3.37	1887	3.94	1997	4.52	2109	5.12	2198	5.74
1980	3000			1684	2.02	1808	2.57	1862	3.04	1759	3.71	1922	4.30	2030	4.91	2135	5.54	2232	6.16
2112	3200			1861	2.29	1944	2.86	1985	3.37	1832	4.07	1955	4.69	2065	5.33	2171	5.98	2267	6.64
2244	3400			1928	2.59	1983	3.21	1979	3.72	1905	4.47	1989	5.12	2102	5.78	2208	6.46	2303	7.14
2375	3600			1974	2.91	1923	3.67	1784	4.11	1958	4.86	2031	5.57	2138	6.28	2249	6.96	2338	7.68
2515	3800			1923	3.27	1965	3.96	1751	4.52	1903	5.35	2084	6.06	2189	6.78	2294	7.51	2382	8.25
2647	4000			1873	3.66	1709	4.36	1530	4.97	1908	5.84	2000	6.58	2201	7.33	2307	8.06	2406	8.86
2772	4200					1758	4.83	1673	5.45	2005	6.30	2123	7.13	2234	7.91	2339	8.70	2419	9.50
2904	4400					1852	5.32	1912	5.96	2044	6.80	2159	7.72	2268	8.53	2373	9.35	2471	10.16
3036	4600					1851	5.85	1965	6.51	2084	7.51	2196	8.35	2303	9.19	2405	10.04	2504	10.90
3168	4800					1901	6.42	2000	7.10	2129	8.15	2234	9.00	2339	9.91	2441	10.78	2538	11.66
3300	5000					1962	7.05	2047	7.75	2168	8.82	2274	9.72	2377	10.64	2478	11.55	2572	12.47
3432	5200							2095	8.40	2210	9.54	2315	10.48	2415	11.42	2512	12.36	2607	13.32
3564	5400							2144	9.11	2259	10.30	2359	11.27	2456	12.25	2550	13.22	2643	14.21
3696	5600							2194	9.86	2305	11.10	2401	12.11	2496	13.17	2589	14.18	2680	15.15
3828	5800							2245	10.67	2354	11.96	2447	13.00	2538	14.04	2629	15.08	2718	16.13
3960	6000									2403	12.86	2493	13.93	2582	15.01	2670	16.08	2757	17.17

FLOW	INLET VEL	FAN STATIC PRESSURE																	
		11.00 in w.g.		12.00 in w.g.		13.00 in w.g.		14.00 in w.g.		15.00 in w.g.		16.00 in w.g.		17.00 in w.g.		18.00 in w.g.		19.00 in w.g.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1452	2200																		
1584	2400	2378	6.16	2461	6.78														
1715	2600	2378	6.50	2480	7.23	2584	7.86	2686	8.52										
1848	2800	2560	7.13	2494	7.70	2590	8.36	2677	9.06	2770	9.76	2871	10.53						
1980	3000	2414	7.51	2563	8.20	2582	8.91	2681	9.62	2770	10.36	2861	11.11	2951	11.89	3041	12.62		
2112	3200	2446	8.52	2571	8.74	2614	9.46	2687	10.27	2780	10.96	2864	11.73	2940	12.51	3032	13.30	3117	14.13
2244	3400	2486	8.57	2563	9.31	2644	10.06	2705	10.67	2802	11.60	2880	12.39	2958	13.19	3036	14.03	3115	14.83
2375	3600	2516	9.15	2569	9.91	2678	10.68	2755	11.47	2830	12.27	2904	13.08	2978	13.90	3052	14.74	3126	15.53
2508	3800	2552	9.77	2624	10.55	2713	11.35	2789	12.16	2865	12.96	2936	13.81	3008	14.66	3078	15.52	3146	16.38
2640	4000	2597	10.43	2670	11.24	2749	12.06	2825	12.86	2896	13.73	2968	14.59	3039	15.46	3106	16.33	3173	17.21
2772	4200	2621	11.13	2704	11.96	2784	12.80	2860	13.66	2930	14.52	3004	15.40	3073	16.29	3139	17.19	3205	18.11
2904	4400	2664	11.86	2738	12.72	2819	13.58	2895	14.47	2969	15.36	3040	16.26	3108	17.18	3174	18.10	3239	19.04
3036	4600	2687	12.64	2772	13.53	2853	14.42	2931	15.31	3004	16.24	3075	17.17	3144	18.10	3210	19.05	3274	20.01
3168	4800	2720	13.45	2805	14.36	2888	15.30	2964	16.23	3038	17.17	3110	18.12	3178	19.08	3245	20.05	3310	21.03
3300	5000	2753	14.33	2837	15.27	2918	16.21	2997	17.17	3072	18.14	3144	19.12	3213	20.10	3280	21.10	3346	22.13
3432	5200	2786	16.23	2870	16.20	2952	17.18	3030	18.17	3105	19.16	3178	20.16	3247	21.18	3315	22.20	3380	23.23
3564	5400	2819	16.13	2903	17.19	2984	19.19	3062	19.21	3138	20.23	3211	21.25	3281	22.30	3349	23.34	3414	24.40
3696	5600	2852	17.14	2937	18.22	3017	19.25	3096	20.29	3171	21.33	3245	22.40	3314	23.47	3382	24.54	3448	25.62
3828	5800	2899	18.20	2971	19.30	3051	20.36	3129	21.44	3203	22.52	3276	23.60	3346	24.69	3414	25.79	3481	26.91
3960	6000	2935	19.34	3006	20.43	3085	21.52	3162	22.61	3236	23.73	3308	24.85	3378	25.97	3447	27.10	3514	28.23

FLOW	INLET VEL	FAN STATIC PRESSURE																	
		21.00 in w.g.		22.00 in w.g.		23.00 in w.g.		24.00 in w.g.		25.00 in w.g.		26.00 in w.g.		27.00 in w.g.		28.00 in w.g.		29.00 in w.g.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2112	3200	3286	15.73																
2244	3400	3274	16.81	3354	17.37	3433	18.23	3512	19.10										
2376	3600	3274	17.92	3349	18.50	3424	19.09	3499	19.94	3574	20.90	3649	21.81	3722	22.73				
2508	3800	3285	19.10	3356	19.67	3426	19.98	3498	22.01	3567	21.61	3636	22.78	3706	23.73	3781	24.60	3852	25.65
2640	4000	3308	13.05	3372	19.97	3438	20.91	3505	21.86	3571	22.81	3636	23.76	3703	24.75	3773	25.74	3840	26.73
2772	4200	3333	19.97	3397	20.82	3460	21.81	3523	22.85	3585	23.82	3649	24.81	3710	25.81	3775	26.82	3839	27.84
2904	4400	3365	20.84	3425	21.81	3487	22.82	3547	23.83	3607	24.84	3667	25.89	3725	26.91	3787	27.84	3846	28.88
3036	4600	3399	21.86	3456	22.85	3518	23.85	3577	24.96	3635	25.90	3693	27.01	3747	28.06	3808	29.11	3865	30.17
3168	4800	3434	23.03	3489	24.04	3542	25.06	3610	26.00	3665	27.11	3720	28.19	3775	29.25	3834	30.32	3889	31.40
3300	5000	3469	24.14	3523	25.10	3587	26.22	3644	27.23	3700	28.34	3755	29.41	3808	30.50	3864	31.59	3917	32.69
3432	5200	3505	25.24	3564	26.37	3623	27.44	3679	28.51	3735	29.60	3790	30.69	3842	31.80	3897	32.91	3949	34.04
3564	5400	3541	26.53	3599	27.61	3658	28.70	3715	29.80	3771	30.91	3825	32.03	3874	33.16	3931	34.29	3983	35.43
3696	5600	3579	27.81	3634	28.91	3693	30.03	3753	31.15	3808	32.28	3860	33.42	3909	34.57	3966	35.72	4017	36.89
3828	5800	3609	29.14	3668	30.27	3727	31.40	3785	32.55	3841	33.70	3895	34.87	3944	36.04	4001	37.22	4053	38.41
3960	6000	3641	30.52	3702	31.67	3761	32.84	3818	34.01	3875	35.19	3930	36.37	3979	37.57	4037	38.77		

Performance shown is for installation type D: Ducted Inlet, Ducted Outlet.
Power (BHP) ratings do not include drive losses.

Performance ratings do not include the effects of appurtenances in the air stream

MODEL JJ-11

BRUNING & FEDERLE MFG. CO.

AIR PERFORMANCE TABLE

WHEEL DIA. 22.83 IN.

INLET AREA 0.92 FT²

FLOW	INLET VEL	FAN STATIC PRESSURE																	
		1.00 in w.c.		2.00 in w.c.		3.00 in w.c.		4.00 in w.c.		5.00 in w.c.		6.00 in w.c.		7.00 in w.c.		8.00 in w.c.		9.00 in w.c.		10.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1104	1200	673	0.40	876	0.77	1073	1.18														
1288	1400	701	0.50	906	0.90	1085	1.34	1251	1.78												
1472	1600	730	0.61	937	1.05	1091	1.53	1245	1.98	1375	2.61										
1656	1800	762	0.75	966	1.22	1122	1.74	1249	2.22	1374	2.88	1502	3.60	1645	4.15						
1840	2000	797	0.90	994	1.42	1153	1.98	1274	2.48	1397	3.18	1507	3.83	1620	4.51	1742	5.22	1878	5.86		
2024	2200	838	1.08	1033	1.65	1182	2.24	1305	2.77	1428	3.51	1531	4.20	1631	4.91	1732	5.65	1838	6.41	1954	7.20
2208	2400	878	1.29	1064	1.91	1210	2.54	1330	3.09	1460	3.88	1563	4.66	1657	5.34	1746	6.11	1840	6.90	1934	7.72
2392	2600	919	1.53	1096	2.19	1230	2.86	1364	3.45	1469	4.26	1594	5.03	1686	5.81	1775	6.61	1851	7.43	1944	8.28
2576	2800			1122	2.51	1268	3.23	1393	3.84	1519	4.72	1626	5.61	1720	6.32	1808	7.15	1890	8.00	1969	8.88
2760	3000			1159	2.86	1290	3.62	1421	4.27	1547	5.20	1654	5.02	1751	6.87	1836	7.73	1921	8.62	1998	9.53
2944	3200			1198	3.24	1333	4.06	1450	4.73	1576	5.72	1682	6.58	1783	7.45	1870	8.36	1953	9.25	2031	10.22
3128	3400			1239	3.67	1368	4.53	1481	5.24	1604	6.28	1710	7.18	1808	8.10	1889	9.03	1965	9.99	2062	10.97
3312	3600			1282	4.14	1405	5.04	1513	5.79	1634	6.89	1739	7.82	1837	8.78	1928	9.76	2013	10.75	2092	11.78
3496	3800			1326	4.65	1443	5.60	1546	6.38	1665	7.53	1769	8.52	1865	9.51	1956	10.53	2041	11.56	2122	12.60
3680	4000					1483	6.21	1581	7.01	1697	8.23	1798	9.25	1893	10.29	1984	11.35	2069	12.42	2150	13.50
3864	4200					1525	6.86	1618	7.70	1731	8.97	1829	10.04	1923	11.13	2012	12.22	2098	13.33	2178	14.45
4048	4400					1568	7.57	1657	8.44	1766	9.77	1861	10.89	1953	12.01	2041	13.15	2126	14.30	2206	15.48
4232	4600					1612	8.32	1696	9.23	1803	10.62	1895	11.78	1985	12.95	2071	14.13	2156	15.32	2235	16.52
4416	4800					1657	9.14	1738	10.07	1841	11.53	1931	12.74	2016	13.95	2102	15.17	2184	16.40	2263	17.65
4600	5000							1780	10.97	1881	12.50	1967	13.75	2052	15.01	2136	16.27	2215	17.55	2293	18.84
4784	5200							1823	11.94	1921	13.52	2005	14.82	2087	16.13	2168	17.44	2246	18.75	2323	20.09
4968	5400							1867	12.96	1963	14.62	2044	15.96	2124	17.31	2202	18.66	2279	20.03	2354	21.40
5152	5600							1912	14.05	2005	15.77	2084	17.16	2162	18.56	2238	19.96	2313	21.36	2386	22.78
5336	5800									2049	17.00	2126	18.43	2200	19.87	2275	21.32	2348	22.77	2419	24.23
5520	6000									2093	18.29	2167	19.78	2240	21.26	2312	22.75	2384	24.25	2454	25.79

FLOW	INLET VEL	FAN STATIC PRESSURE																	
		11.00 in w.c.		12.00 in w.c.		13.00 in w.c.		14.00 in w.c.		15.00 in w.c.		16.00 in w.c.		17.00 in w.c.		18.00 in w.c.		19.00 in w.c.		20.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2024	2200																				
2208	2400	2034	8.56	2141	9.43																
2392	2600	2030	9.15	2118	10.04	2212	10.96	2310	11.80	2416	12.85										
2576	2800	2040	9.78	2125	10.71	2204	11.65	2287	12.61	2374	13.60	2465	14.60	2561	15.62						
2760	3000	2073	10.46	2146	11.41	2218	12.38	2292	13.38	2366	14.39	2444	15.43	2524	16.48	2608	17.54				
2944	3200	2104	11.16	2175	12.17	2244	13.17	2311	14.20	2379	15.24	2448	16.30	2518	17.38	2590	18.48	2665	19.59	2742	20.72
3128	3400	2135	11.90	2206	12.96	2274	14.01	2339	15.06	2403	16.13	2467	17.23	2531	18.33	2596	19.46	2661	20.60	2729	21.76
3312	3600	2167	12.75	2236	13.81	2303	14.90	2370	15.98	2433	17.09	2494	18.21	2554	19.34	2614	20.50	2675	21.67	2736	22.86
3496	3800	2197	13.67	2269	14.75	2337	15.85	2402	16.96	2464	18.10	2524	19.25	2583	20.41	2641	21.60	2698	22.80	2755	24.02
3680	4000	2227	14.60	2299	15.72	2367	16.85	2433	18.00	2495	19.18	2556	20.34	2614	21.54	2671	22.76	2726	23.99	2781	25.23
3864	4200	2255	15.58	2328	16.74	2397	17.91	2463	19.09	2527	20.29	2587	21.50	2646	22.73	2702	23.98	2757	25.24	2811	26.52
4048	4400	2283	16.63	2356	17.82	2426	19.03	2493	20.26	2557	21.49	2618	22.72	2677	23.99	2734	25.28	2789	26.58	2842	27.90
4232	4600	2311	17.74	2384	18.96	2455	20.20	2522	21.46	2586	22.73	2648	24.01	2707	25.30	2765	26.61	2820	27.94	2874	29.28
4416	4800	2339	18.90	2412	20.17	2483	21.45	2550	22.74	2616	24.04	2677	25.35	2737	26.60	2796	28.03	2851	29.39	2905	30.76
4600	5000	2369	20.13	2440	21.42	2511	22.75	2578	24.08	2643	25.42	2706	26.77	2768	28.14	2824	29.62	2881	30.91	2935	32.31
4784	5200	2397	21.42	2469	22.78	2538	24.12	2606	25.40	2671	26.87	2734	28.26	2794	29.66	2853	31.07	2910	32.50	2965	33.94
4968	5400	2427	22.77	2496	24.16	2567	25.56	2634	26.97	2699	28.38	2762	29.81	2822	31.25	2881	32.70	2938	34.16	2994	35.64
5152	5600	2458	24.20	2528	25.62	2596	27.07	2663	28.51	2727	29.97	2790	31.44	2850	32.91	2909	34.40	2967	35.90	3022	37.41
5336	5800	2490	25.69	2559	27.16	2626	28.64	2692	30.13	2755	31.63	2816	33.13	2876	34.65	2937	36.17	2994	37.71	3050	39.26
5520	6000	2523	27.28	2590	28.77	2656	30.29	2721	31.82	2784	33.36	2845	34.91	2905	36.46	2965	38.02	3022	39.60	3078	41.18

FLOW	INLET VEL	FAN STATIC PRESSURE																	
		21.00 in w.c.		22.00 in w.c.		23.00 in w.c.		24.00 in w.c.		25.00 in w.c.		26.00 in w.c.		27.00 in w.c.		28.00 in w.c.		29.00 in w.c.		30.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2944	3200	2823	21.87	2887	23.03																
3128	3400	2788	22.94	2859	24.13	2044	25.34	3020	26.56	3100	27.80										
3312	3600	2797	24.06	2860	25.26	2005	26.52	2991	27.77	3060	29.04	3130	30.32	3202	31.61	3279	32.92	3357	34.24		
3496	3800	2812	25.25	2869	26.50	2927	27.78	2987	29.04	3047	30.34	3109	31.65	3171	32.97	3237	34.30	3305	35.65	3374	37.02
3680	4000	2835	26.50	2888	27.77	2943	29.07	2998	30.37	3053	31.70	3109	33.03	3163	34.36	3223	35.75	3282	37.13	3342	38.52
3864	4200	2864	27.81	2916	29.11	2967	30.44	3019	31.77	3070	33.12	3122	34.49	3172	35.87	3226	37.28	3278	38.67	3334	40.09
4048	4400	2894	28.16	2945	29.52	2996	31.87	3045	33.24	3096	34.62	3146	36.01	3199	37.42	3247	38.84	3291	40.27	3341	41.72
4232	4600	2926	29.62	2977	31.00	3026	32.38	3075	34.77	3123	36.15	3171	37.60	3215	39.04	3255	40.48	3311	41.95	3358	43.43
4416	4800	2957	32.15	3006	33.54	3056	34.95	3108	36.36	3154	37.82	3201	39.27	3244	40.73	3292	42.21	3337	43.70	3382	45.21
4600	5000	2989	33.73	3039	35.16	3089	36.60	3138	38.06	3185	39.53	3232	41.01	3274	42.50	3322	44.01	3366	45.53	3410	47.06
4784	5200	3018	35.39	3070	36.85	3120	38.33	3169	39.81	3216	41.31	3263	42.83	3305	44.35	3353	45.89	3397	47.44	3440	49.00
4968	5400	3047	37.12	3100	38.62	3150	40.13	3199	41.66	3247	43.19	3294	44.72	3336	46.28	3385	47.84	3428	49.42	3471	51.01
5152	5600	3075	38.90	3129	40.46	3180	42.03	3229	43.66	3278	45.12	3325	46.69	3367	48.28	3416	49.88	3460	51.49	3503	53.11
5336	5800	3104	40.81	3157	42.38	3208	43.95	3258	45.54	3307	47.14	3356	48.75	3397	50.37	3446	52.00	3490	53.64		
5520	6000	3132	42.77	3185	44.37	3237	45.99	3287	47.61	3336	49.24	3384	50.89	3426	52.54	3476	54.23				

Performance shown is for installation type D: Ducted Inlet, Ducted Outlet.
Power (BHP) ratings do not include drive losses

Performance ratings do not include the effects of appurtenances in the air stream

MODEL JJ-13

BRUNING & FEDERLE MFG. CO.

AIR PERFORMANCE TABLE

WHEEL DIA. 25.60 IN. INLET AREA 1.23 FT^2

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		1.00 in w.c.		2.00 in w.c.		3.00 in w.c.		4.00 in w.c.		5.00 in w.c.		6.00 in w.c.		7.00 in w.c.		8.00 in w.c.		9.00 in w.c.		10.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1476	1200	581	0.54	761	1.03	940	1.54														
1722	1400	604	0.66	784	1.25	927	1.81	1099	2.29												
1968	1600	627	0.80	809	1.41	945	2.07	1068	2.65	1204	3.43										
2214	1800	653	0.97	833	1.63	971	2.35	1079	2.98	1185	3.66	1312	4.63	1444	5.38						
2460	2000	681	1.17	856	1.88	995	2.68	1103	3.35	1212	4.30	1310	5.15	1413	6.00	1526	6.84				
2706	2200	713	1.39	879	2.17	1019	2.99	1128	3.73	1236	4.75	1328	5.67	1418	6.61	1500	7.64	1607	8.47	1712	9.38
2952	2400	746	1.66	904	2.48	1042	3.36	1153	4.15	1262	5.23	1353	6.27	1437	7.22	1519	8.23	1601	9.25	1668	10.27
3198	2600	781	1.96	931	2.84	1066	3.77	1177	4.60	1287	5.75	1378	6.79	1462	7.85	1540	8.84	1616	10.03	1691	11.14
3444	2800			959	3.24	1089	4.22	1200	5.09	1311	6.30	1403	7.40	1487	8.52	1565	9.68	1636	10.83	1708	12.03
3690	3000			989	3.60	1115	4.71	1223	5.62	1333	6.90	1427	8.05	1512	9.22	1590	10.43	1662	11.55	1732	12.89
3936	3200			1022	4.15	1141	5.28	1246	6.20	1356	7.55	1450	8.75	1536	9.98	1615	11.22	1690	12.51	1757	13.82
4182	3400			1055	4.70	1170	5.85	1271	6.84	1379	8.25	1473	9.50	1560	10.78	1639	12.09	1713	13.42	1783	14.73
4428	3600			1090	5.29	1200	6.50	1297	7.52	1403	9.00	1496	10.31	1582	11.64	1663	13.00	1737	14.36	1807	15.79
4674	3800			1127	5.93	1231	7.20	1324	8.26	1428	9.82	1519	11.17	1605	12.55	1685	13.98	1761	15.40	1831	16.86
4920	4000					1264	7.95	1352	9.06	1454	10.66	1544	12.10	1628	13.53	1708	14.99	1784	16.48	1855	17.98
5166	4200					1299	8.73	1382	9.92	1482	11.62	1569	13.08	1652	14.57	1731	16.08	1806	17.62	1877	19.19
5412	4400					1333	9.66	1414	10.84	1510	12.62	1595	14.14	1677	15.66	1756	17.24	1829	18.84	1900	20.45
5658	4600					1369	10.61	1446	11.83	1540	13.68	1622	15.25	1702	16.85	1779	18.47	1852	20.12	1923	21.78
5904	4800					1407	11.64	1480	12.88	1571	14.83	1651	16.45	1729	18.10	1804	19.78	1876	21.47	1946	23.19
6150	5000							1514	14.03	1603	16.04	1681	17.72	1756	19.43	1830	21.15	1901	22.88	1970	24.67
6396	5200							1550	15.23	1637	17.33	1711	19.07	1785	20.83	1857	22.61	1925	24.41	1994	26.23
6642	5400							1588	16.52	1671	18.70	1743	20.50	1815	22.31	1884	24.15	1953	26.00	2019	27.86
6888	5600							1628	17.89	1706	20.15	1776	22.01	1846	23.88	1913	25.77	1980	27.66	2045	29.61
7134	5800									1741	21.60	1810	23.60	1877	25.53	1943	27.46	2008	29.44	2072	31.42
7380	6000									1778	23.31	1844	25.28	1908	27.27	1974	29.27	2037	31.29	2100	33.30

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		11.00 in w.c.		12.00 in w.c.		13.00 in w.c.		14.00 in w.c.		15.00 in w.c.		16.00 in w.c.		17.00 in w.c.		18.00 in w.c.		19.00 in w.c.		20.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2706	2200																				
2952	2400	1729	11.26	1827	12.28																
3198	2600	1756	12.24	1849	13.34	1934	14.40	2025	15.51												
3444	2800	1776	13.19	1849	14.37	1921	15.58	1997	16.74	2076	17.81	2160	19.07	2248	20.22						
3690	3000	1798	14.15	1863	15.41	1929	16.68	1995	17.95	2058	19.21	2133	20.48	2207	21.73	2284	22.95				
3936	3200	1822	15.13	1885	16.48	1947	17.81	2005	19.15	2068	20.50	2131	21.86	2195	23.20	2261	24.55	2328	25.86	2400	27.21
4182	3400	1848	16.16	1910	17.55	1970	18.98	2028	20.36	2086	21.80	2148	23.23	2201	24.66	2259	26.10	2319	27.52	2381	28.95
4428	3600	1873	17.23	1936	18.66	1996	20.15	2053	21.63	2108	23.12	2163	24.62	2217	26.10	2271	27.64	2326	29.16	2381	30.67
4674	3800	1898	18.35	1961	19.88	2021	21.38	2078	22.92	2133	24.48	2187	26.04	2239	27.60	2291	29.21	2342	30.80	2393	32.36
4920	4000	1922	19.50	1985	21.09	2046	22.67	2103	24.27	2159	25.88	2212	27.51	2264	29.15	2314	30.80	2364	32.45	2413	34.12
5166	4200	1945	20.70	2009	22.39	2070	24.02	2128	25.67	2184	27.34	2238	29.02	2289	30.72	2339	32.43	2388	34.15	2436	35.88
5412	4400	1968	22.08	2032	23.75	2094	25.40	2153	27.10	2209	28.86	2263	30.59	2315	32.35	2365	34.12	2413	35.90	2461	37.68
5658	4600	1991	23.47	2055	25.15	2117	26.92	2176	28.67	2233	30.44	2287	32.23	2339	34.04	2390	35.86	2439	37.70	2486	39.55
5904	4800	2013	24.93	2078	26.69	2140	28.47	2199	30.28	2256	32.10	2311	33.94	2364	35.80	2415	37.68	2464	39.57	2511	41.47
6150	5000	2036	26.48	2100	28.27	2162	30.11	2222	31.96	2279	33.83	2334	35.73	2387	37.64	2438	39.56	2488	41.51	2536	43.46
6396	5200	2060	28.06	2124	29.94	2185	31.82	2244	33.73	2302	35.65	2357	37.59	2410	39.56	2462	41.53	2512	43.52	2560	45.53
6642	5400	2084	29.77	2147	31.69	2208	33.62	2267	35.57	2324	37.55	2380	39.54	2433	41.56	2485	43.57	2535	45.62	2584	47.68
6888	5600	2109	31.55	2171	33.50	2231	35.50	2290	37.51	2347	39.53	2402	41.57	2456	43.63	2508	45.71	2558	47.80	2607	49.91
7134	5800	2135	33.42	2196	35.44	2255	37.48	2313	39.53	2370	41.60	2425	43.69	2478	45.80	2530	47.93	2581	50.07	2630	52.23
7380	6000	2161	35.38	2221	37.46	2280	39.54	2337	41.65	2393	43.77	2448	45.91	2501	48.07	2553	50.24	2603	52.44	2653	54.65

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		21.00 in w.c.		22.00 in w.c.		23.00 in w.c.		24.00 in w.c.		25.00 in w.c.		26.00 in w.c.		27.00 in w.c.		28.00 in w.c.		29.00 in w.c.		30.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3936	3200	2474	28.53	2551	29.84																
4182	3400	2464	30.38	2529	31.79	2577	33.19	2648	34.59	2721	35.97										
4428	3600	2457	32.16	2485	33.68	2553	35.20	2614	36.69	2677	38.15	2742	39.66	2807	41.14	2878	42.60				
4674	3800	2445	33.90	2507	35.58	2550	37.17	2600	38.70	2659	40.36	2715	41.93	2772	43.51	2833	45.07	2894	46.63	2955	48.18
4920	4000	2461	35.79	2510	37.47	2559	39.14	2608	40.82	2658	42.49	2708	44.17	2758	45.83	2813	47.50	2867	49.16	2922	50.81
5166	4200	2483	37.62	2530	39.37	2576	41.12	2622	42.87	2668	44.63	2715	46.39	2760	48.14	2810	49.90	2858	51.65	2906	53.39
5412	4400	2507	38.48	2553	41.30	2597	43.12	2642	44.95	2686	46.78	2730	48.61	2772	50.45	2818	52.28	2863	54.12	2908	55.95
5658	4600	2532	41.41	2577	43.29	2622	45.17	2665	47.05	2708	48.96	2750	50.86	2790	52.77	2836	54.68	2877	56.59	2919	58.51
5904	4800	2556	43.39	2600	45.32	2647	47.26	2690	49.22	2732	51.16	2774	53.15	2812	55.12	2855	57.10	2895	59.09	2936	61.08
6150	5000	2580	45.44	2626	47.42	2672	49.42	2715	51.43	2757	53.45	2798	55.48	2836	57.52	2879	59.57	2918	61.62	2957	63.67
6396	5200	2607	47.56	2653	49.60	2697	51.65	2740	53.71	2782	55.76	2824	57.88	2861	59.97	2904	62.08	2943	64.20	2981	66.32
6642	5400	2631	49.76	2677	51.85	2722	53.96	2765	56.07	2808	58.20	2849	60.34	2886	62.50	2929	64.65	2968	66.83	3006	69.01
6888	5600	2655	52.04	2700	54.18	2746	56.33	2790	58.50	2832	60.68	2874	62.88	2911	65.09	2954	67.31	2993	69.54		
7134	5800	2678	54.41	2724	56.60	2769	58.80	2813	61.02	2856	63.26	2898	65.51	2935	67.77	2979	70.04	3018	72.32		
7380	6000	2700	56.87	2747	59.11	2792	61.37	2837	63.63	2880	65.92	2922	68.22	2959	70.53	3003	72.85				

Performance shown is for installation type D: Ducted Inlet, Ducted Outlet.
Power (BHP) ratings do not include drive losses

Performance ratings do not include the effects of appurtenances in the air stream

MODEL JJ-15

BRUNING & FEDERLE MFG. CO.

AIR PERFORMANCE TABLE

WHEEL DIA. 29.50 IN.

INLET AREA 1.60 FT²

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		1.00 in w.c.		2.00 in w.c.		3.00 in w.c.		4.00 in w.c.		5.00 in w.c.		6.00 in w.c.		7.00 in w.c.		8.00 in w.c.		9.00 in w.c.		10.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1920	1200	519	0.54	684	1.20	835	1.78														
2240	1400	541	0.79	702	1.42	834	2.09	965	2.66												
2560	1600	563	0.96	724	1.67	848	2.42	961	3.06	1075	3.86	1182	4.78								
2880	1800	585	1.17	745	1.94	868	2.77	970	3.46	1070	4.47	1177	5.64	1275	6.93						
3200	2000	612	1.41	767	2.25	880	3.14	980	3.93	1080	5.01	1178	6.37	1270	8.03	1360	7.91	1446	8.90		
3520	2200	641	1.69	788	2.60	912	3.56	1008	4.41	1107	5.55	1192	6.91	1275	7.66	1358	8.72	1440	9.78	1521	10.86
3840	2400	669	2.00	812	2.99	934	4.02	1031	4.92	1128	6.16	1211	7.29	1288	8.42	1366	9.56	1441	10.71	1517	11.86
4160	2600	700	2.37	838	3.42	955	4.52	1053	5.48	1150	6.82	1232	8.09	1308	9.21	1381	10.43	1452	11.66	1521	12.90
4480	2800			861	3.91	978	5.07	1074	6.06	1172	7.50	1254	8.78	1330	10.04	1400	11.34	1466	12.65	1534	13.97
4800	3000			888	4.44	1001	5.68	1098	6.74	1194	8.24	1278	9.57	1352	10.92	1422	12.30	1490	13.69	1551	15.09
5120	3200			917	5.09	1025	6.34	1118	7.45	1215	9.04	1298	10.44	1374	11.86	1444	13.30	1506	14.76	1572	16.24
5440	3400			948	5.68	1050	7.06	1141	8.22	1237	9.90	1319	11.38	1395	12.85	1465	14.36	1531	15.89	1593	17.44
5760	3600			977	6.40	1077	7.84	1164	9.06	1259	10.82	1341	12.35	1417	13.91	1487	15.49	1552	17.09	1615	18.71
6080	3800					1105	8.70	1189	9.96	1282	11.81	1363	13.41	1438	15.03	1509	16.68	1575	18.35	1637	20.03
6400	4000					1134	9.62	1214	10.93	1306	12.87	1385	14.64	1460	16.29	1530	17.94	1598	19.68	1659	21.40
6720	4200					1164	10.62	1241	11.96	1331	14.01	1408	15.74	1482	17.50	1552	19.26	1618	21.05	1680	22.90
7040	4400					1196	11.60	1269	13.10	1356	15.22	1432	17.03	1505	18.85	1574	20.70	1638	22.57	1705	24.46
7360	4600							1297	14.30	1383	16.53	1457	18.40	1528	20.29	1596	22.20	1661	24.13	1723	26.09
7680	4800							1327	15.59	1410	17.91	1482	19.85	1552	21.81	1619	23.79	1683	25.79	1745	27.81
8000	5000							1358	16.97	1439	19.38	1509	21.38	1577	23.42	1643	25.47	1706	27.54	1767	29.62
8320	5200							1389	18.44	1468	20.90	1536	23.03	1602	25.12	1667	27.24	1729	29.37	1789	31.53
8640	5400									1498	22.61	1564	24.79	1629	26.93	1692	29.11	1753	31.31	1812	33.53
8960	5600									1529	24.38	1593	26.60	1656	28.83	1718	31.08	1778	33.35	1836	35.64
9280	5800									1559	26.24	1623	28.53	1684	30.84	1744	33.16	1803	35.48	1860	37.83
9600	6000											1653	30.58	1713	32.95	1772	35.34	1829	37.75	1885	40.17

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		11.00 in w.c.		12.00 in w.c.		13.00 in w.c.		14.00 in w.c.		15.00 in w.c.		16.00 in w.c.		17.00 in w.c.		18.00 in w.c.		19.00 in w.c.		20.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3520	2200	1508	11.55																		
3840	2400	1532	13.02	1675	14.20	1736	15.39	1801	16.60												
4160	2600	1561	14.14	1661	15.39	1730	16.65	1797	17.92	1862	19.21	1926	20.51								
4480	2800	1590	15.32	1664	16.63	1728	17.97	1793	19.32	1857	20.67	1920	22.03	1981	23.41	2040	24.80				
4800	3000	1613	16.48	1674	17.90	1735	19.33	1795	20.75	1856	22.18	1915	23.63	1973	25.07	2034	26.52				
5120	3200	1632	17.72	1690	19.22	1746	20.72	1805	22.23	1861	23.75	1918	25.27	1974	26.75	2030	28.32	2086	29.86	2142	31.40
5440	3400	1653	19.00	1710	20.50	1765	22.16	1820	23.75	1875	25.35	1927	26.96	1980	28.56	2033	30.17	2086	31.78	2139	33.40
5760	3600	1674	20.34	1731	21.99	1785	23.65	1838	25.32	1890	26.99	1941	28.68	1992	30.36	2042	32.06	2092	33.76	2142	35.46
5080	3800	1696	21.74	1753	23.46	1806	25.16	1858	26.84	1909	28.60	1960	30.45	2009	32.23	2056	33.96	2104	35.77	2151	37.56
6400	4000	1718	23.20	1774	24.98	1828	26.80	1880	28.61	1930	30.48	1978	32.28	2025	34.13	2073	35.98	2119	37.84	2165	39.72
6720	4200	1739	24.74	1796	26.60	1850	28.48	1902	30.36	1952	32.26	2000	34.17	2047	36.09	2093	38.02	2139	39.96	2182	41.90
7040	4400	1761	26.36	1817	28.29	1872	30.23	1923	32.19	1973	34.16	2022	36.14	2068	38.13	2114	40.13	2158	42.14	2202	44.16
7360	4600	1782	28.06	1839	30.05	1893	32.06	1945	34.09	1995	36.12	2043	38.19	2090	40.24	2135	42.31	2179	44.40	2223	46.49
7680	4800	1804	29.85	1860	31.81	1915	33.86	1967	35.97	2017	38.16	2065	40.30	2112	42.43	2157	44.57	2201	46.73	2244	48.96
8000	5000	1825	31.73	1882	33.85	1936	35.99	1988	38.15	2038	40.32	2087	42.61	2134	44.70	2179	46.92	2223	49.14	2265	51.38
8320	5200	1847	33.70	1903	35.88	1957	38.09	2008	40.32	2060	42.58	2106	44.81	2155	47.07	2200	49.35	2245	51.64	2287	53.96
8640	5400	1870	35.77	1925	38.02	1978	40.29	2031	42.58	2081	44.88	2129	47.20	2176	49.53	2222	51.88	2266	54.24	2309	56.61
8960	5600	1893	37.94	1948	40.29	2001	42.60	2052	44.95	2102	47.32	2151	49.70	2198	52.10	2243	54.51	2287	56.93	2330	59.37
9280	5800	1916	40.22	1970	42.63	2023	45.03	2074	47.42	2124	49.86	2172	52.30	2219	54.75	2265	57.24	2309	59.73	2352	62.23
9600	6000	1940	42.60	1993	45.05	2046	47.52	2096	50.00	2146	52.50	2194	55.01	2240	57.54	2286	60.08	2330	62.63	2373	65.20

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		21.00 in w.c.		22.00 in w.c.		23.00 in w.c.		24.00 in w.c.		25.00 in w.c.		26.00 in w.c.		27.00 in w.c.		28.00 in w.c.		29.00 in w.c.		30.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6720	4200	2197	32.66	2250	34.52	2302	36.10	2352	37.99												
6940	4400	2202	35.03	2244	36.66	2296	38.30	2347	39.98	2397	41.61	2446	43.29	2492	44.98	2538	46.68				
7360	4600	2152	37.16	2242	38.87	2292	40.59	2341	42.31	2391	44.03	2440	45.77	2486	47.51	2535	49.27	2581	51.03	2625	52.81
7680	4800	2189	39.34	2240	41.14	2290	42.93	2341	44.73	2389	46.53	2435	48.34	2480	50.18	2520	51.97	2574	53.80	2620	55.63
8000	5000	2210	41.57	2256	43.44	2301	45.32	2348	47.20	2390	49.09	2435	50.97	2478	52.86	2525	54.76	2570	56.65	2614	58.56
8320	5200	2226	43.85	2270	45.80	2313	47.76	2356	49.72	2399	51.69	2441	53.65	2482	55.69	2527	57.60	2569	59.55	2612	61.56
8640	5400	2245	46.19	2287	48.22	2329	50.26	2370	52.30	2411	54.34	2452	56.39	2491	58.44	2534	60.50	2575	62.56	2615	64.62
8960	5600	2265	48.69	2306	50.70	2347	52.81	2387	54.93	2427	57.05	2467	59.13	2504	61.32	2545	63.46	2584	65.56	2623	67.73
9280	5800	2286	51.07	2327	53.26	2367	55.44	2407	57.63	2446	59.83	2484	62.04	2520	64.26	2560	66.46	2598	68.68	2636	70.90
9600	6000	2307	53.62	2348	55.87	2388	58.13	2427	60.40	2466	62.65	2503	64.96	2539	67.26	2578	69.54	2615	71.83	2651	74.13
9920	6200	2329	56.25	2370	58.58	2409	60.91	2448	63.25	2486	65.63	2524	67.98	2558	70.32	2597	72.69	2633	75.06	2669	77.45
9640	6400	2351	58.99	2391	61.38	2431	63.78	2470	66.19	2508	68.61	2545	71.04	2579	73.47	2618	75.91	2653	78.36	2686	80.81
9960	6600	2372	61.82	2413	64.27	2453	66.74	2491	69.22	2529	71.71	2567	74.21	2600	76.71	2639	79.22	2674	81.74	2705	84.26
9280	6800	2394	64.74	2434	67.27	2474	69.80	2513	72.35	2551	74.91	2588	77.47	2621	80.04	2660	82.62	2695	85.21		
9600	6000	2415	67.78	2456	70.37	2496	72.97	2535	75.59	2572	78.23	2610	80.84	2643	83.48	2682	86.12	2717	88.78		

Performance shown is for installation type D: Ducted Inlet, Ducted Outlet.
Power (BHP) ratings do not include drive losses

Performance ratings do not include the effects of appurtenances in the air stream

MODEL JJ-17

BRUNING & FEDERLE MFG. CO.

AIR PERFORMANCE TABLE

WHEEL DIA 33.00 IN

INLET AREA 1.97 FT^2

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		1.00 in w.c.		2.00 in w.c.		3.00 in w.c.		4.00 in w.c.		5.00 in w.c.		6.00 in w.c.		7.00 in w.c.		8.00 in w.c.		9.00 in w.c.		10.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2364	1200	463	0.76	511	1.48	747	2.20														
2758	1400	482	0.96	526	1.75	746	2.55	964	3.26												
3152	1600	502	1.18	545	2.05	756	2.96	968	3.77	1183	4.88	1397	5.87								
3546	1800	522	1.45	564	2.39	774	3.40	968	4.20	1162	5.61	1358	6.80	1141	7.68						
3940	2000	545	1.72	584	2.77	784	3.87	981	4.84	1171	5.77	1354	7.35	1136	8.54	1217	9.75	1294	10.98		
4334	2200	569	2.06	703	3.19	813	4.37	900	5.42	987	6.66	1054	8.14	1139	9.44	1214	10.74	1289	12.05	1361	13.38
4728	2400	595	2.44	723	3.66	832	4.93	918	6.05	1006	7.60	1080	8.87	1153	10.37	1220	11.77	1289	13.19	1357	14.61
5122	2600	622	2.86	744	4.19	851	5.54	938	6.73	1025	8.38	1096	9.85	1167	11.34	1232	12.85	1296	14.36	1360	15.89
5516	2800			767	4.77	871	6.21	958	7.46	1045	9.22	1118	10.78	1186	12.36	1246	13.86	1310	15.38	1369	17.21
5910	3000			790	5.42	892	6.95	977	8.26	1064	10.12	1138	11.76	1205	13.44	1266	15.13	1327	16.64	1384	18.57
6304	3200			816	6.14	913	7.75	996	9.13	1083	11.09	1157	12.82	1224	14.57	1287	16.36	1346	18.16	1402	19.98
6698	3400			841	6.83	935	8.63	1016	10.07	1103	12.14	1176	13.94	1244	15.79	1308	17.65	1366	19.55	1421	21.48
7092	3600			868	7.79	958	9.58	1037	11.05	1122	13.28	1196	15.15	1263	17.07	1326	19.03	1384	21.00	1440	23.00
7486	3800					983	10.61	1059	12.15	1142	14.46	1215	16.43	1282	18.44	1345	20.48	1404	22.64	1459	24.82
7880	4000					1008	11.73	1081	13.35	1163	15.75	1234	17.81	1300	19.90	1364	22.01	1423	24.18	1479	26.33
8274	4200					1035	12.94	1104	14.63	1186	17.13	1256	19.27	1321	21.44	1383	23.64	1442	25.87	1498	28.12
8668	4400					1062	14.24	1129	15.99	1207	18.61	1276	20.83	1341	23.09	1402	25.37	1461	27.68	1517	30.01
9062	4600					1093	15.65	1154	17.45	1231	20.18	1297	22.49	1361	24.83	1422	27.19	1480	29.58	1536	32.00
9456	4800							1180	19.01	1255	21.86	1320	24.26	1382	26.66	1442	29.12	1500	31.66	1556	34.09
9850	5000							1207	20.68	1280	23.65	1343	26.13	1404	28.53	1463	31.16	1520	33.72	1576	36.30
10244	5200							1234	22.48	1306	25.56	1367	28.11	1427	30.70	1486	33.31	1542	35.85	1596	38.61
10638	5400							1262	24.35	1332	27.55	1391	30.21	1450	32.99	1507	35.58	1561	38.30	1615	41.05
11032	5600									1359	29.70	1417	32.44	1474	35.20	1528	37.80	1582	40.70	1635	43.60
11426	5800									1385	31.96	1443	34.79	1498	37.53	1552	40.49	1606	43.38	1657	46.29
11820	6000											1469	37.26	1523	40.19	1576	43.14	1628	46.11	1678	49.10

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		11.00 in w.c.		12.00 in w.c.		13.00 in w.c.		14.00 in w.c.		15.00 in w.c.		16.00 in w.c.		17.00 in w.c.		18.00 in w.c.		19.00 in w.c.		20.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4334	2200	1429	14.74																		
4728	2400	1425	16.08	1491	17.51	1553	18.98														
5122	2600	1423	17.43	1486	18.97	1546	20.53	1603	22.10	1657	23.68										
5516	2800	1428	18.84	1487	20.49	1546	22.14	1601	23.80	1652	25.48	1714	27.28	1773	29.07	1825	30.80				
5910	3000	1440	20.31	1496	22.05	1550	23.81	1605	25.57	1659	27.34	1714	29.11	1768	30.90	1821	32.70				
6304	3200	1456	21.82	1508	23.67	1560	25.52	1612	27.38	1663	29.25	1714	31.13	1765	33.01	1817	34.90	1867	36.80	1917	38.71
6698	3400	1474	23.39	1526	25.33	1575	27.26	1624	29.25	1672	31.22	1721	33.20	1769	35.18	1817	37.17	1865	39.16	1913	41.16
7092	3600	1493	25.02	1540	27.06	1592	29.11	1639	31.17	1685	33.24	1732	35.32	1778	37.40	1824	39.49	1868	41.58	1915	43.68
7486	3800	1512	26.75	1562	28.96	1610	31.08	1657	33.25	1703	35.32	1747	37.49	1791	39.68	1835	41.87	1879	44.09	1921	46.26
7880	4000	1531	28.57	1580	30.93	1628	32.96	1675	35.27	1721	37.47	1766	39.74	1807	42.01	1850	44.30	1891	46.60	1933	48.90
8274	4200	1551	30.48	1601	32.70	1648	35.01	1695	37.34	1740	39.69	1783	42.00	1825	44.42	1867	46.91	1907	49.20	1947	51.60
8668	4400	1570	32.37	1620	34.75	1668	37.15	1715	39.57	1759	42.00	1802	44.45	1844	46.82	1885	49.28	1925	51.87	1964	54.37
9062	4600	1589	34.44	1638	36.90	1688	39.38	1734	41.88	1779	44.41	1822	46.94	1863	49.48	1904	52.06	1943	54.53	1982	57.22
9456	4800	1608	36.61	1658	38.98	1707	41.52	1755	44.21	1798	46.91	1841	49.53	1883	52.17	1923	54.82	1962	57.48	2001	60.16
9850	5000	1627	38.90	1677	41.52	1725	44.17	1772	46.84	1817	49.52	1860	52.22	1902	54.94	1942	57.68	1982	60.42	2020	63.19
10244	5200	1646	41.30	1696	44.00	1745	46.73	1791	49.48	1836	52.24	1879	55.03	1921	57.83	1962	60.65	2001	63.48	2039	66.33
10638	5400	1666	43.61	1716	46.50	1764	49.41	1810	52.25	1856	55.05	1898	57.95	1940	60.83	1981	63.73	2020	66.65	2059	69.58
11032	5600	1686	46.45	1736	49.32	1783	52.21	1828	55.11	1874	58.04	1917	60.99	1959	63.95	2000	66.93	2039	69.93	2077	72.94
11426	5800	1707	49.21	1756	52.18	1803	55.13	1849	58.12	1893	61.13	1936	64.15	1978	67.20	2019	70.26	2058	73.34	2095	76.43
11820	6000	1728	52.11	1776	55.14	1823	58.19	1868	61.25	1912	64.36	1955	67.48	1997	70.58	2038	73.72	2077	76.87	2115	80.05

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		21.00 in w.c.		22.00 in w.c.		23.00 in w.c.		24.00 in w.c.		25.00 in w.c.		26.00 in w.c.		27.00 in w.c.		28.00 in w.c.		29.00 in w.c.		30.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6304	3200	1956	40.63	2014	42.57	2069	44.53	2104	46.51												
6698	3400	1951	42.17	2009	45.19	2055	47.22	2101	49.26	2146	51.32	2186	53.40	2220	55.50						
7092	3800	1960	45.79	2008	47.90	2051	50.02	2096	52.14	2140	54.26	2184	56.43	2220	58.59	2259	60.76	2309	62.96	2345	65.17
7486	3800	1965	48.47	2008	50.68	2051	52.89	2099	55.11	2136	57.34	2179	59.57	2220	61.81	2263	64.06	2305	66.32	2345	68.60
7880	4000	1974	51.20	2015	53.52	2056	55.85	2096	58.15	2137	60.47	2176	62.80	2217	65.14	2259	67.48	2300	69.82	2340	72.17
8274	4200	1987	54.00	2025	56.41	2065	58.83	2104	61.25	2143	63.67	2182	66.10	2219	68.53	2259	70.97	2298	73.42	2337	75.88
8668	4400	2002	56.97	2040	59.38	2078	61.89	2115	64.41	2153	66.93	2190	69.46	2226	71.99	2264	74.53	2301	77.07	2338	79.61
9062	4600	2020	60.01	2057	62.42	2094	65.03	2130	67.64	2166	70.26	2202	72.89	2236	75.52	2273	78.16	2308	80.79	2344	83.44
9456	4800	2038	62.84	2075	65.54	2111	68.24	2146	70.95	2182	73.67	2216	76.39	2249	79.12	2285	81.85	2319	84.59	2353	87.33
9850	5000	2057	65.96	2093	68.75	2129	71.54	2164	74.34	2198	77.15	2232	79.97	2264	82.80	2296	85.62	2329	88.48	2359	91.30
10244	5200	2076	69.19	2113	72.05	2148	74.84	2183	77.63	2217	80.43	2251	83.24	2282	86.06	2316	88.48	2349	92.47	2381	95.34
10638	5400	2095	72.52	2132	75.40	2167	78.44	2202	81.42	2236	84.41	2269	87.41	2300	90.42	2334	93.43	2366	96.45	2398	99.46
11032	5600	2115	75.97	2151	79.01	2186	82.06	2221	85.12	2255	88.20	2288	91.29	2318	94.38	2368	97.48	2384	100.59	2416	103.71
11426	5800	2134	79.54	2170	82.65	2206	85.79	2240	88.94	2274	92.10	2307	95.27	2337	98.45	2372	101.64	2403	104.84		
11820	6000	2153	83.24	2189	86.44	2225	89.67	2259	92.86	2293	96.13	2326	99.38	2356	102.64	2391	105.92	2422	109.22		

Performance shown is for installation type D: Ducted Inlet, Ducted Outlet.
Power (BHP) ratings do not include drive losses.

Performance ratings do not include the effects of appurtenances in the air stream

MODEL JJ-19

BRUNING & FEDERLE MFG. CO.

AIR PERFORMANCE TABLE

WHEEL DIA. 36.00 IN.

INLET AREA 2.41 FT²

FLOW	INLET VEL.	FAN STATIC PRESSURE																			
		1.00 in w.c.		2.00 in w.c.		3.00 in w.c.		4.00 in w.c.		5.00 in w.c.		6.00 in w.c.		7.00 in w.c.		8.00 in w.c.		9.00 in w.c.		10.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2832	1200	419	0.96	552	1.81	675	2.93														
3374	1400	436	1.18	586	2.14	674	3.15	761	4.01												
3956	1600	454	1.44	593	2.51	684	3.64	777	4.61	870	5.87	956	7.15								
4338	1800	472	1.75	601	2.92	700	4.16	783	5.24	870	6.74	952	8.05	1031	9.40						
4820	2000	492	2.10	618	3.38	717	4.73	795	5.92	878	7.65	953	8.80	1027	10.44	1103	11.92	1170	13.42		
5302	2200	514	2.51	635	3.90	735	5.36	813	6.63	892	8.39	962	9.90	1030	11.54	1098	13.14	1165	14.74	1231	16.37
5784	2400	537	2.99	654	4.47	752	6.09	831	7.46	899	9.29	966	10.98	1040	12.68	1103	14.46	1165	16.13	1227	17.87
6266	2600	562	3.52	676	5.12	770	6.77	846	8.29	907	10.25	965	12.04	1035	13.87	1114	15.71	1172	17.57	1228	19.45
6748	2800			699	5.83	787	7.59	856	9.13	916	11.27	1011	13.18	1072	15.11	1129	17.07	1184	19.05	1238	21.04
7230	3000			714	6.63	806	8.48	865	10.10	962	12.38	1028	14.39	1089	16.43	1146	18.50	1199	20.60	1251	22.71
7712	3200			737	7.50	825	9.47	900	11.38	979	13.56	1046	15.67	1107	17.82	1163	20.00	1216	22.21	1267	24.44
8194	3400			760	8.47	849	10.64	919	12.21	997	14.84	1063	17.05	1124	19.28	1181	21.58	1234	23.90	1284	26.24
8678	3600			785	9.53	888	11.71	937	13.65	1014	16.21	1080	18.52	1141	20.87	1198	23.26	1251	25.68	1302	28.13
9158	3800					888	12.97	957	14.89	1032	17.66	1098	20.09	1159	22.55	1216	25.04	1269	27.56	1319	30.11
9640	4000					911	14.34	977	16.33	1051	19.25	1116	21.77	1176	24.33	1233	26.92	1286	29.54	1337	32.19
10122	4200					935	15.82	998	17.88	1071	20.94	1134	23.56	1194	26.22	1250	28.91	1303	31.63	1354	34.38
10604	4400					960	17.41	1020	19.54	1091	22.74	1153	25.47	1212	28.22	1268	31.01	1321	33.84	1371	36.69
11086	4600					985	19.12	1043	21.33	1112	24.67	1173	27.48	1230	30.35	1286	33.24	1338	36.17	1388	39.12
11568	4800							1066	23.23	1134	26.72	1193	29.65	1249	32.61	1304	35.60	1356	38.63	1406	41.68
12050	5000							1090	25.27	1156	28.90	1214	31.94	1269	35.00	1322	38.09	1374	41.22	1423	44.37
12532	5200							1116	27.44	1180	31.22	1235	34.36	1289	37.53	1342	40.72	1392	43.95	1441	47.20
13014	5400									1202	33.69	1257	36.93	1310	40.20	1362	43.50	1411	46.82	1459	50.19
13496	5600									1228	36.29	1280	39.64	1332	43.02	1382	46.42	1431	49.85	1478	53.33
13978	5800									1263	39.06	1306	42.51	1354	45.99	1403	49.50	1451	53.03	1497	56.58
14460	6000											1335	45.54	1377	49.12	1425	52.73	1471	56.35	1517	60.02

FLOW	INLET VEL.	FAN STATIC PRESSURE																			
		11.00 in w.c.		12.00 in w.c.		13.00 in w.c.		14.00 in w.c.		15.00 in w.c.		16.00 in w.c.		17.00 in w.c.		18.00 in w.c.		19.00 in w.c.		20.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5302	2200	1292	18.03																		
5784	2400	1284	19.83	1348	21.41	1404	23.00														
6266	2600	1256	21.31	1343	23.20	1400	25.11	1455	27.03	1507	28.96										
6748	2800	1231	23.05	1344	25.06	1397	27.09	1450	29.11	1502	31.16	1554	33.23	1603	35.31	1650	37.45				
7230	3000	1207	24.84	1332	26.97	1401	29.12	1451	31.27	1500	33.44	1548	35.61	1595	37.80	1642	40.00				
7712	3200	1316	26.66	1383	28.94	1410	31.21	1457	33.49	1502	35.78	1550	38.07	1596	40.35	1642	42.69	1686	45.01	1733	47.35
8194	3400	1332	28.60	1378	30.98	1424	33.37	1468	35.77	1512	38.18	1558	40.60	1599	43.03	1643	45.48	1686	47.89	1730	50.35
8678	3600	1349	30.60	1395	33.08	1439	35.60	1482	38.12	1524	40.65	1566	43.19	1607	45.74	1648	48.30	1688	50.86	1731	53.43
9158	3800	1367	32.60	1417	35.29	1456	37.91	1498	40.54	1539	43.19	1580	45.85	1619	48.52	1660	51.20	1698	53.89	1737	56.58
9640	4000	1384	34.88	1430	37.58	1473	40.31	1515	43.05	1556	45.82	1595	48.59	1634	51.38	1672	54.18	1710	56.99	1747	59.80
10122	4200	1402	37.17	1447	39.98	1491	42.81	1532	45.67	1573	48.54	1612	51.43	1650	54.33	1687	57.24	1724	60.17	1761	63.10
10604	4400	1419	39.58	1464	42.49	1508	45.43	1550	48.39	1590	51.38	1629	54.38	1667	57.37	1704	60.40	1740	63.44	1775	66.49
11086	4600	1436	42.11	1482	45.12	1526	48.18	1567	51.22	1608	54.33	1647	57.40	1684	60.52	1721	63.66	1757	66.81	1791	69.97
11568	4800	1453	44.77	1499	47.89	1543	51.02	1585	54.18	1625	57.36	1664	60.57	1702	63.79	1738	67.03	1774	70.29	1809	73.56
12050	5000	1471	47.66	1516	50.77	1560	54.01	1602	57.27	1642	60.55	1681	63.85	1719	67.19	1756	70.53	1791	73.89	1825	77.27
12532	5200	1488	50.46	1533	53.60	1577	57.13	1619	60.49	1660	63.88	1699	67.29	1736	70.71	1773	74.16	1808	77.63	1843	81.11
13014	5400	1506	53.66	1551	56.97	1594	60.40	1635	63.86	1677	67.35	1716	70.85	1754	74.38	1790	77.93	1826	81.49	1861	85.08
13496	5600	1524	56.78	1569	60.29	1613	63.83	1653	67.33	1694	70.85	1733	74.37	1771	78.19	1808	81.84	1843	85.51	1879	89.19
13978	5800	1543	60.18	1587	63.77	1628	67.40	1671	71.05	1711	74.74	1750	78.44	1788	82.16	1825	85.91	1860	89.67	1895	93.46
14460	6000	1562	63.70	1605	67.41	1647	71.14	1689	74.89	1728	78.67	1767	82.47	1805	86.28	1842	90.13	1877	93.98	1912	97.86

FLOW	INLET VEL.	FAN STATIC PRESSURE																			
		21.00 in w.c.		22.00 in w.c.		23.00 in w.c.		24.00 in w.c.		25.00 in w.c.		26.00 in w.c.		27.00 in w.c.		28.00 in w.c.		29.00 in w.c.		30.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7712	3200	1778	49.70	1821	52.07	1862	54.47	1902	56.89												
8194	3400	1773	52.86	1816	55.27	1856	57.76	1899	60.25	1940	62.77	1978	65.32	2015	67.89						
8678	3600	1772	56.00	1813	58.59	1854	61.18	1894	63.78	1935	66.39	1974	69.02	2012	71.66	2051	74.32	2088	77.00	2123	79.7*
9158	3800	1776	59.20	1815	61.88	1854	64.60	1893	67.41	1931	70.13	1970	72.96	2007	75.81	2046	78.38	2083	81.12	2120	83.90
9640	4000	1784	62.62	1821	65.45	1858	68.28	1895	71.12	1932	73.97	1968	76.81	2004	79.67	2042	82.53	2079	85.40	2115	88.28
10122	4200	1796	66.05	1831	68.99	1867	71.95	1902	74.91	1937	77.88	1972	80.85	2006	83.82	2042	86.80	2077	89.79	2112	92.78
10604	4400	1810	69.55	1844	72.62	1879	75.69	1912	78.78	1946	81.85	1980	84.96	2012	88.05	2047	91.15	2080	94.26	2114	97.37
11086	4600	1826	73.15	1859	76.33	1893	79.52	1925	82.73	1958	85.93	1990	89.15	2021	92.38	2056	95.59	2087	98.82	2119	*02.05
11568	4800	1842	76.85	1875	80.15	1908	83.45	1940	86.77	1972	90.09	2004	93.43	2033	96.76	2068	100.11	2097	103.45	2127	*06.81
12050	5000	1859	80.67	1892	84.07	1925	87.48	1956	90.92	1988	94.36	2018	97.80	2047	101.26	2079	104.72	2109	108.19	2139	111.68
12532	5200	1877	84.61	1910	88.12	1942	91.64	1973	95.18	2004	98.72	2034	102.29	2062	105.86	2094	109.42	2129	113.02	2162	116.62
13014	5400	1894	88.88	1927	92.38	1959	95.93	1990	99.57	2021	103.23	2051	106.90	2079	110.57	2110	114.26	2139	117.95	2167	121.66
13496	5600	1912	92.89	1944	96.61	1976	100.35	2008	104.10	2038	107.86	2069	111.63	2096	115.42	2127	119.21	2155	123.02	2183	126.83
13978	5800	1929	97.26	1962	101.06	1994	104.91	2025	108.76	2056	112.63	2085	116.50	2113	120.39	2144	124.30	2172	128.21		
14460	6000	1946	101.78	1979	105.69	2011	109.63	2042	113.58	2073	117.55	2103	121.52	2130	125.52	2161	129.52	2189	133.54		

Performance shown is for installation type D: Ducted Inlet, Ducted Outlet.
Power (BHP) ratings do not include drive losses

Performance ratings do not include the effects of appurtenances in the air stream

MODEL JJ-21

BRUNING & FEDERLE MFG. CO.

AIR PERFORMANCE TABLE

WHEEL DIA. 40.00 IN.

INLET AREA 2.89 FT^2

FLOW	INLET VEL.	FAN STATIC PRESSURE																			
		1.00 in.w.c.		2.00 in.w.c.		3.00 in.w.c.		4.00 in.w.c.		5.00 in.w.c.		6.00 in.w.c.		7.00 in.w.c.		8.00 in.w.c.		9.00 in.w.c.		10.00 in.w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3468	1200	361	1.15	504	2.18	619	3.22														
4046	1400	397	1.41	518	2.57	615	3.77	712	4.60												
4624	1600	413	1.72	531	3.01	624	4.35	700	5.62	784	7.15	872	8.61								
5202	1800	430	2.09	547	3.49	638	4.98	714	6.28	795	8.18	866	9.65	941	11.26						
5780	2000	448	2.51	563	4.04	654	5.65	726	7.00	801	9.14	886	10.77	937	12.51	1004	14.28	1067	16.09		
6358	2200	468	3.00	579	4.66	670	6.40	741	7.94	814	10.05	877	11.90	936	13.83	1001	16.74	1068	17.67	1128	19.62
6936	2400	489	3.56	595	5.34	685	7.21	757	8.85	829	11.12	890	13.14	949	15.19	1008	17.25	1062	19.33	1119	21.42
7514	2600	511	4.20	613	6.11	701	8.10	773	9.84	845	12.25	905	14.42	962	16.61	1018	18.92	1069	21.04	1121	23.29
8092	2800			631	6.97	717	9.08	789	10.92	861	13.49	921	15.77	977	18.09	1029	20.46	1080	22.82	1129	25.21
8670	3000			650	7.91	734	10.15	804	12.08	877	14.80	937	17.21	993	19.66	1045	22.15	1094	24.66	1141	27.20
9248	3200			671	8.95	751	11.31	820	13.34	892	16.22	953	18.76	1009	21.33	1060	23.94	1108	26.59	1155	29.28
9826	3400			692	10.10	770	12.59	837	14.71	908	17.74	969	20.39	1025	23.09	1076	25.83	1125	28.61	1171	31.41
10404	3600			714	11.36	789	13.97	854	16.18	924	19.37	984	22.14	1040	24.97	1092	27.83	1141	30.73	1186	33.67
10982	3800					809	15.48	871	17.78	940	21.12	1000	24.02	1056	26.96	1108	29.96	1156	32.97	1202	36.03
11560	4000					829	17.10	890	19.46	957	23.00	1016	26.02	1072	29.05	1123	32.19	1172	35.33	1218	38.52
12138	4200					851	18.86	909	21.34	976	25.01	1033	28.15	1087	31.30	1139	34.56	1188	37.83	1234	41.13
12716	4400					873	20.75	929	23.32	994	27.15	1050	30.42	1104	33.72	1155	37.07	1203	40.46	1249	43.86
13294	4600					896	22.79	949	25.44	1013	29.45	1068	32.80	1121	36.26	1171	39.73	1219	43.24	1265	46.76
13872	4800							970	27.71	1032	31.89	1086	35.40	1138	38.95	1187	42.56	1235	46.17	1281	49.83
14450	5000							992	30.14	1050	34.45	1105	38.12	1156	41.80	1204	45.51	1251	49.25	1297	53.04
15028	5200							1015	32.72	1074	37.25	1128	41.01	1174	44.51	1222	48.64	1268	52.51	1313	56.41
15606	5400									1096	40.17	1145	44.06	1193	47.95	1240	51.94	1285	55.93	1329	59.95
16184	5600									1117	43.25	1165	47.30	1212	51.34	1259	55.40	1303	59.53	1346	63.67
16762	5800									1140	46.57	1187	50.71	1232	54.89	1277	59.08	1321	63.32	1364	67.58
17340	6000											1208	54.31	1253	58.61	1297	62.90	1340	67.29	1381	71.67

FLOW	INLET VEL.	FAN STATIC PRESSURE																			
		11.00 in.w.c.		12.00 in.w.c.		13.00 in.w.c.		14.00 in.w.c.		15.00 in.w.c.		16.00 in.w.c.		17.00 in.w.c.		18.00 in.w.c.		19.00 in.w.c.		20.00 in.w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6358	2200	1179	21.61																		
6936	2400	1175	23.50	1226	25.66	1281	27.83														
7514	2600	1173	25.53	1225	27.80	1277	30.08	1327	32.39	1375	34.73										
8092	2800	1178	27.61	1226	30.02	1275	32.45	1325	34.89	1371	37.34	1417	39.82	1452	42.32	1505	44.85				
8670	3000	1187	29.75	1230	32.31	1278	34.88	1323	37.47	1365	40.06	1413	42.67	1458	45.29	1502	47.93				
9248	3200	1200	31.95	1240	34.66	1286	37.39	1329	40.12	1371	42.86	1413	45.62	1456	48.36	1498	51.15	1540	53.93	1581	56.74
9826	3400	1214	34.25	1257	37.10	1298	39.96	1339	42.64	[illegible]	45.74	1419	48.54	1459	51.55	1501	54.46	1538	57.39	1578	60.33
10404	3600	1230	36.63	1272	39.62	1312	42.02	1351	45.65	1390	48.68	1428	51.73	1466	54.79	1504	57.86	1541	60.93	1579	64.01
10982	3800	1246	39.12	1287	42.24	1327	45.38	1366	48.54	1403	51.72	1440	54.91	1477	58.12	1513	61.33	1548	64.55	1584	67.75
11560	4000	1262	41.73	1300	44.98	1343	48.25	1381	51.54	1418	54.86	1454	58.19	1490	61.53	1525	64.89	1559	68.26	1593	71.63
12138	4200	1277	44.47	1318	47.64	1359	51.24	1397	54.66	1434	58.11	1470	61.57	1504	65.05	1539	68.55	1572	72.06	1605	75.57
12716	4400	1293	47.34	1335	50.64	1375	54.26	1413	57.91	1450	61.49	1486	65.07	1520	68.69	1553	72.32	1586	75.96	1619	79.62
13294	4600	1309	50.36	1350	53.97	1390	57.62	1429	61.29	1466	64.98	1501	68.71	1535	72.45	1569	76.21	1601	79.99	1633	83.75
13872	4800	1324	53.53	1366	57.26	1406	61.02	1444	64.82	1481	68.64	1517	72.48	1551	76.35	1585	80.24	1617	84.14	1649	88.07
14450	5000	1340	56.85	1381	60.71	1421	64.60	1460	68.50	1497	72.44	1533	76.41	1567	80.40	1600	84.41	1633	88.44	1664	92.50
15028	5200	1356	60.35	1397	64.32	1437	68.32	1475	72.35	1512	76.41	1548	80.49	1583	84.60	1616	88.74	1649	92.90	1680	97.07
15606	5400	1372	64.01	1413	68.10	1453	72.22	1491	76.36	1528	80.54	1564	84.75	1598	88.98	1632	93.23	1664	97.51	1696	101.81
16184	5600	1388	67.85	1428	72.06	1468	76.29	1506	80.56	1543	84.85	1578	89.18	1614	93.53	1647	97.90	1680	102.30	1712	106.72
16762	5800	1405	71.87	1445	76.20	1484	80.55	1522	84.94	1558	89.35	1595	93.79	1629	98.26	1663	102.75	1695	107.26	1727	111.80
17340	6000	1422	76.09	1462	80.53	1501	85.01	1538	89.51	1575	94.04	1610	98.60	1645	103.18	1679	107.79	1711	112.42	1743	117.08

FLOW	INLET VEL.	FAN STATIC PRESSURE																			
		21.00 in.w.c.		22.00 in.w.c.		23.00 in.w.c.		24.00 in.w.c.		25.00 in.w.c.		26.00 in.w.c.		27.00 in.w.c.		28.00 in.w.c.		29.00 in.w.c.		30.00 in.w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9248	3200	1622	59.56	1661	62.41	1699	65.28	1735	68.19												
9826	3400	1617	63.27	1656	66.24	1690	69.31	1733	72.31	1769	75.23	1805	78.29	1839	81.37						
10404	3600	1616	67.10	1654	70.20	1691	73.35	1726	76.43	1765	79.58	1801	82.71	1836	85.88	1871	89.07	1905	92.29	1937	95.54
10982	3800	1620	71.02	1656	74.26	1691	77.51	1726	80.77	1762	84.03	1797	87.31	1831	90.60	1866	93.90	1901	97.22	1934	100.56
11560	4000	1627	75.02	1661	78.41	1695	81.80	1728	85.21	1762	88.62	1796	92.03	1828	95.46	1863	98.89	1898	102.33	1929	105.79
12138	4200	1638	79.10	1670	82.64	1702	86.18	1735	89.74	1767	93.29	1799	96.86	1830	100.42	1863	104.00	1895	107.58	1927	111.17
12716	4400	1650	83.28	1682	86.97	1713	90.66	1744	94.36	1775	98.06	1806	101.77	1835	105.48	1867	109.20	1897	112.93	1928	116.66
13294	4600	1665	87.50	1696	91.41	1726	95.24	1756	99.08	1786	102.92	1815	106.78	1843	110.64	1874	114.50	1903	118.37	1932	122.25
13872	4800	1680	92.01	1710	95.96	1740	99.93	1769	103.91	1798	107.89	1827	111.89	1854	115.88	1884	119.90	1912	123.92	1940	127.64
14450	5000	1695	96.57	1725	100.66	1755	104.75	1784	108.86	1812	112.98	1840	117.12	1867	121.26	1896	125.42	1923	129.57	1950	133.74
15028	5200	1711	101.27	1741	105.48	1770	109.71	1799	113.95	1827	118.21	1855	122.48	1880	126.76	1909	131.05	1936	135.34	1963	139.65
15606	5400	1727	106.13	1757	110.47	1786	114.82	1814	119.19	1842	123.58	1870	127.98	1895	132.39	1924	136.81	1950	141.25	1976	145.69
16184	5600	1742	111.19	1772	115.62	1802	120.10	1830	124.59	1858	129.11	1886	133.63	1910	138.17	1939	142.73	1965	147.29	1991	151.87
16762	5800	1758	116.36	1788	120.94	1817	125.54	1846	130.16	1874	134.80	1901	139.45	1925	144.12	1954	148.80	1980	153.49		
17340	6000	1773	121.75	1804	126.45	1833	131.17	1862	135.91	1890	140.57	1917	145.44	1941	150.23	1970	155.04	1996	159.65		

Performance shown is for installation type D: Ducted Inlet, Ducted Outlet.
Power (BHP) ratings do not include drive losses

Performance ratings do not include the effects of appurtenances in the air stream

MODEL JJ-23

BRUNING & FEDERLE MFG. CO.

AIR PERFORMANCE TABLE

WHEEL DIA. 45.13 IN.

INLET AREA 3.69 FT^2

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		1.00 in w.c.		2.00 in w.c.		3.00 in w.c.		4.00 in w.c.		5.00 in w.c.		6.00 in w.c.		7.00 in w.c.		8.00 in w.c.		9.00 in w.c.		10.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4428	1200	339	1.46	447	2.77	545	4.12														
5166	1400	353	1.90	458	3.29	545	4.82	631	6.13												
5904	1600	367	2.20	472	3.84	553	5.57	629	7.05	704	9.14	773	10.89								
6642	1800	382	2.67	486	4.47	566	6.37	633	8.03	701	10.32	770	12.33	834	14.39						
7380	2000	398	3.22	500	5.17	580	7.24	644	9.06	710	11.55	771	13.75	831	15.99	890	18.24	946	20.55		
8118	2200	416	3.85	514	5.95	594	8.18	658	10.15	722	12.65	778	15.24	833	17.66	886	20.10	942	22.67	995	25.06
8856	2400	435y	4.57	529	6.85	608	9.23	672	11.32	736	14.22	790	16.80	841	19.41	892	22.04	942	24.69	992	27.36
9594	2600	455	5.39	544	7.89	622	10.37	686	12.59	750	15.68	803	18.43	853	21.22	901	24.04	948	26.89	994	29.74
10332	2800			560	8.93	637	11.62	700	13.97	764	17.25	818	20.17	867	23.13	913	26.13	958	29.18	1001	32.21
11070	3000			576	10.14	652	13.00	714	15.48	778	18.94	832	22.02	881	25.14	927	28.32	970	31.52	1012	34.76
11808	3200			596	11.49	667	14.50	728	17.08	792	20.78	846	23.99	895	27.28	941	30.61	984	33.99	1025	37.40
12546	3400			615	12.96	684	16.14	743	18.84	806	22.71	860	26.09	909	29.54	955	33.04	998	36.58	1039	40.16
13284	3600			635	14.58	701	17.92	758	20.74	820	24.80	874	28.36	923	31.95	969	35.60	1012	39.31	1053	43.06
14022	3800					718	19.85	774	22.78	835	27.05	888	30.75	937	34.51	983	38.32	1026	42.18	1067	46.08
14760	4000					737	21.95	790	24.99	850	29.47	902	33.32	951	37.23	997	41.19	1040	45.21	1081	49.27
15498	4200					756	24.21	807	27.36	866	32.05	917	36.06	965	40.12	1011	44.24	1054	48.41	1095	52.63
16236	4400					776	26.64	825	29.91	883	34.81	932	38.98	980	43.20	1025	47.47	1068	51.79	1109	56.16
16974	4600							843	32.64	900	37.75	948	42.08	996	46.48	1040	50.88	1082	55.38	1123	59.88
17712	4800							862	35.58	917	40.90	965	45.38	1010	49.91	1054	54.49	1098	59.12	1137	63.80
18450	5000							882	38.88	935	44.24	982	48.88	1026	53.57	1070	58.30	1111	63.09	1151	67.91
19188	5200							902	42.00	954	47.79	999	52.58	1043	57.44	1085	62.33	1128	67.27	1165	72.25
19926	5400									973	51.55	1017	56.52	1060	61.53	1101	66.58	1141	71.67	1180	76.80
20664	5600									993	55.55	1036	60.68	1077	65.84	1118	71.05	1157	76.29	1196	81.58
21402	5800									1013	58.76	1055	65.07	1095	70.39	1135	75.76	1173	81.16	1211	86.60
22140	6000											1074	69.70	1113	75.19	1152	80.71	1190	86.27	1227	91.87

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		11.00 in w.c.		12.00 in w.c.		13.00 in w.c.		14.00 in w.c.		15.00 in w.c.		16.00 in w.c.		17.00 in w.c.		18.00 in w.c.		19.00 in w.c.		20.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8118	2200	1045	27.60																		
8856	2400	1041	30.05	1080	32.77	1135	35.54														
9594	2600	1040	32.62	1086	35.51	1132	38.42	1176	41.37	1219	44.36	1258	47.38								
10332	2800	1044	35.27	1087	38.36	1130	41.45	1173	44.56	1215	47.68	1258	50.86	1296	54.04	1334	57.25				
11070	3000	1053	38.01	1093	41.28	1133	44.57	1173	47.87	1213	51.18	1253	54.50	1292	57.85	1331	61.21				
11808	3200	1064	40.84	1103	44.30	1141	47.77	1178	51.26	1216	54.76	1253	58.27	1291	61.80	1328	65.34	1365	68.89	1402	72.46
12546	3400	1077	43.77	1115	47.41	1151	51.07	1187	54.75	1223	58.44	1259	62.14	1293	65.85	1329	69.58	1364	73.31	1399	77.06
13284	3600	1091	46.83	1126	50.64	1164	54.48	1199	58.34	1233	62.21	1267	66.10	1300	70.01	1333	73.92	1367	77.84	1400	81.78
14022	3800	1106	50.03	1142	54.01	1178	58.01	1212	62.05	1245	66.10	1278	70.18	1310	74.26	1342	78.36	1373	82.48	1405	86.60
14760	4000	1120	53.38	1156	57.52	1192	61.68	1226	65.89	1258	70.12	1290	74.37	1322	78.64	1353	82.92	1383	87.22	1413	91.53
15498	4200	1134	56.83	1171	61.19	1206	65.52	1240	69.86	1272	74.29	1304	78.71	1335	83.15	1365	87.61	1396	92.09	1424	96.58
16236	4400	1148	60.57	1185	65.03	1220	69.52	1254	74.05	1286	78.61	1316	83.20	1348	87.81	1378	92.44	1407	97.09	1438	101.76
16974	4600	1162	64.45	1198	69.06	1234	73.70	1268	78.36	1300	83.11	1332	87.85	1362	92.63	1392	97.40	1421	102.25	1449	107.09
17712	4800	1175	68.51	1212	73.28	1248	78.08	1282	82.92	1315	87.79	1346	92.70	1377	97.63	1406	102.58	1435	107.58	1463	112.56
18450	5000	1189	72.79	1226	77.70	1262	82.65	1296	87.65	1328	92.67	1360	97.73	1391	102.82	1420	107.94	1448	113.09	1477	118.26
19188	5200	1204	77.27	1240	82.34	1275	87.44	1309	92.58	1342	97.76	1374	102.98	1405	108.22	1434	113.50	1463	118.80	1491	124.13
19926	5400	1218	81.95	1254	87.19	1289	92.45	1323	97.74	1356	103.07	1388	108.44	1418	113.84	1448	119.25	1477	124.72	1505	130.21
20664	5600	1233	86.91	1269	92.28	1304	97.68	1337	103.13	1370	108.61	1402	114.13	1432	119.67	1462	125.25	1491	130.86	1519	136.50
21402	5800	1248	92.08	1283	97.60	1318	103.16	1351	108.75	1384	114.38	1415	120.05	1446	125.75	1476	131.49	1505	137.24	1533	143.03
22140	6000	1263	97.50	1298	103.17	1332	108.88	1366	114.62	1398	120.40	1429	126.22	1460	132.07	1490	137.95	1519	143.86	1547	149.80

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		21.00 in w.c.		22.00 in w.c.		23.00 in w.c.		24.00 in w.c.		25.00 in w.c.		26.00 in w.c.		27.00 in w.c.		28.00 in w.c.		29.00 in w.c.		30.00 in w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11808	3200	1437	78.08	1472	79.89	1508	83.36	1538	87.07												
12546	3400	1434	80.82	1468	84.80	1502	88.40	1536	92.22	1569	96.07	1600	99.96	1629	103.89						
13284	3600	1433	85.72	1468	89.67	1499	93.64	1532	97.62	1564	101.61	1596	105.63	1627	109.67	1659	113.75	1688	117.85	1717	121.99
14022	3800	1436	90.73	1468	94.87	1499	99.02	1530	103.17	1562	107.34	1593	111.52	1623	115.72	1654	119.93	1685	124.16	1714	128.42
14760	4000	1443	95.85	1473	100.18	1503	104.51	1533	108.86	1562	113.21	1592	117.57	1621	121.94	1652	126.32	1681	130.71	1710	135.11
15498	4200	1453	101.08	1481	105.50	1510	110.12	1538	114.85	1567	119.19	1595	123.74	1622	128.29	1652	132.86	1680	137.42	1708	142.00
16236	4400	1464	106.44	1482	111.14	1519	115.85	1547	120.57	1574	125.29	1601	130.02	1627	134.77	1655	139.51	1682	144.27	1709	149.03
16974	4600	1477	111.95	1504	116.82	1531	121.71	1557	126.61	1584	131.52	1610	136.44	1635	141.36	1662	146.30	1688	151.24	1714	156.19
17712	4800	1490	117.61	1517	122.58	1544	127.72	1570	132.80	1595	137.89	1621	142.99	1645	148.09	1671	153.21	1696	158.34	1721	163.47
18450	5000	1504	123.45	1531	128.67	1557	133.90	1583	139.15	1608	144.41	1633	149.68	1656	154.97	1682	160.27	1706	165.58	1730	170.89
19188	5200	1518	129.49	1545	134.92	1571	140.26	1596	145.67	1621	151.10	1646	156.55	1668	162.01	1694	167.48	1718	172.97	1741	178.46
19926	5400	1532	135.72	1558	141.25	1585	146.81	1610	152.39	1635	157.99	1659	163.60	1682	169.23	1707	174.87	1730	180.53	1753	186.20
20664	5600	1546	142.17	1573	147.86	1599	153.58	1624	159.31	1649	165.07	1673	170.84	1695	176.64	1720	182.45	1744	188.27	1766	194.11
21402	5800	1559	148.85	1587	154.69	1613	160.56	1638	166.45	1663	172.37	1687	178.30	1709	184.26	1734	190.23	1757	196.22	1780	202.22
22140	6000	1574	155.77	1601	161.76	1627	167.78	1652	173.83	1677	179.90	1701	185.98	1723	192.10	1748	198.23	1771	204.38		

Performance shown is for installation type D: Ducted Inlet, Ducted Outlet.
Power (BHP) ratings do not include drive losses

Performance ratings do not include the effects of appurtenances in the air stream

MODEL JJ-26

BRUNING & FEDERLE MFG. CO.

AIR PERFORMANCE TABLE

WHEEL DIA. 50.39 IN.

INLET AREA 4.69 FT²

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		1.00 in.w.c.		2.00 in.w.c.		3.00 in.w.c.		4.00 in.w.c.		5.00 in.w.c.		6.00 in.w.c.		7.00 in.w.c.		8.00 in.w.c.		9.00 in.w.c.		10.00 in.w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5508	1200	303	1.62	400	3.44	499	6.12														
6426	1400	316	2.24	410	4.08	498	6.99	596	7.63												
7344	1600	328	2.74	422	4.78	495	6.92	593	8.77	690	11.36	802	13.87								
8262	1800	342	3.32	436	5.55	507	7.92	597	9.98	690	12.83	800	15.33	747	17.89						
9180	2000	356	3.99	447	6.43	519	8.99	577	11.25	636	14.36	800	17.11	744	19.88	797	22.68	847	25.55		
10098	2200	372	4.77	460	7.40	532	10.17	589	12.61	646	15.97	697	18.95	746	21.96	795	25.00	844	28.06	891	31.17
11016	2400	389	5.67	473	8.50	545	11.46	602	14.07	659	17.67	707	20.88	753	24.13	799	27.40	844	30.70	889	34.02
11934	2600	407	6.69	487	9.72	557	12.87	614	15.64	671	19.49	719	22.91	764	26.30	807	29.66	849	33.43	890	36.98
12852	2800			501	11.08	570	14.43	627	17.35	684	21.44	732	25.06	776	28.75	818	32.48	858	36.25	897	40.04
13770	3000			517	12.58	583	16.13	639	19.20	696	23.53	745	27.35	789	31.24	830	35.15	869	39.18	906	43.20
14688	3200			533	14.24	597	17.99	652	21.21	709	25.78	757	29.80	801	33.88	842	38.04	881	42.24	919	46.49
15606	3400			550	16.07	611	20.02	665	23.38	721	28.19	770	32.41	814	36.70	856	41.05	893	45.48	930	49.91
16524	3600			568	18.07	627	22.23	678	25.73	734	30.79	782	35.20	826	39.60	868	44.23	905	48.84	942	53.50
17442	3800					643	24.62	692	28.27	747	33.58	795	38.18	838	42.85	880	47.58	919	52.40	955	57.26
18360	4000					659	27.21	707	31.00	761	36.57	807	41.36	851	46.23	892	51.15	931	56.15	968	61.21
19278	4200					676	30.01	722	33.94	775	39.77	821	44.75	864	49.81	905	54.94	944	60.12	980	65.37
20196	4400					694	33.02	738	37.09	789	43.19	834	48.37	877	53.62	917	58.93	956	64.31	992	69.75
21114	4600							754	40.47	805	46.83	848	52.21	890	57.65	930	63.16	968	68.73	1005	74.36
22032	4800							771	44.09	820	50.72	863	56.30	904	61.93	943	67.63	981	73.39	1017	79.21
22950	5000							789	47.95	837	54.86	878	60.69	918	66.48	957	72.38	994	78.31	1030	84.31
23868	5200							807	52.06	853	59.25	894	65.29	933	71.28	971	77.34	1008	83.45	1043	89.68
24786	5400									870	63.92	910	70.09	948	76.32	985	82.60	1021	88.93	1056	95.32
25704	5600									888	68.86	926	75.24	963	81.85	1000	88.14	1035	94.67	1070	101.25
26622	5800									906	74.09	943	80.67	979	87.50	1015	93.97	1050	100.69	1083	107.46
27540	6000											960	86.41	998	93.23	1031	100.10	1065	107.02	1098	113.98

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		11.00 in.w.c.		12.00 in.w.c.		13.00 in.w.c.		14.00 in.w.c.		15.00 in.w.c.		16.00 in.w.c.		17.00 in.w.c.		18.00 in.w.c.		19.00 in.w.c.		20.00 in.w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10080	2200	936	34.33																		
11016	2400	933	37.37	976	40.75	1017	44.20														
11934	2600	932	40.56	973	44.16	1014	47.78	1054	51.45	1092	55.16										
12852	2800	935	43.86	974	47.69	1012	51.54	1050	55.41	1088	59.31	1125	63.24	1161	67.21	1195	71.24				
13770	3000	943	47.25	979	51.32	1015	55.41	1051	59.52	1086	63.64	1122	67.77	1158	71.94	1192	76.13				
14688	3200	953	50.76	987	55.07	1021	59.39	1055	63.73	1089	68.09	1122	72.46	1156	76.84	1189	81.24	1223	85.67	1256	90.12
15606	3400	965	54.41	998	58.93	1031	63.49	1063	68.06	1096	72.65	1127	77.26	1158	81.88	1190	86.51	1221	91.16	1253	95.82
16524	3600	977	58.20	1010	62.94	1042	67.72	1073	72.52	1104	77.34	1134	82.18	1164	87.04	1194	91.90	1224	96.79	1254	101.68
17442	3800	990	62.17	1023	67.12	1054	72.10	1085	77.12	1115	82.17	1144	87.24	1173	92.32	1201	97.42	1230	102.54	1258	107.67
18360	4000	1002	66.32	1035	71.47	1067	76.66	1097	81.89	1127	87.15	1155	92.44	1183	97.75	1211	103.08	1238	108.43	1265	113.79
19278	4200	1016	70.67	1048	76.02	1079	81.42	1110	86.85	1139	92.32	1167	97.82	1195	103.35	1222	108.90	1249	114.47	1275	120.06
20196	4400	1027	75.24	1060	80.79	1092	86.38	1122	92.01	1152	97.68	1180	103.39	1207	109.13	1234	114.89	1260	120.68	1286	126.49
21114	4600	1040	80.04	1073	85.78	1104	91.56	1135	97.39	1164	103.26	1192	109.17	1220	115.11	1246	121.08	1272	127.08	1297	133.11
22032	4800	1052	85.08	1085	91.01	1117	96.98	1147	103.01	1177	109.07	1206	115.17	1232	121.31	1259	127.49	1284	133.69	1310	139.92
22950	5000	1064	90.38	1097	95.49	1129	102.96	1160	108.87	1189	115.12	1217	121.42	1245	127.76	1271	134.13	1297	140.53	1322	146.97
23868	5200	1077	95.93	1110	102.24	1142	108.59	1172	114.99	1201	121.43	1230	127.92	1257	134.45	1284	141.01	1310	147.61	1335	154.26
24786	5400	1090	101.75	1122	108.25	1154	114.79	1184	121.38	1214	128.01	1242	134.69	1270	141.41	1296	148.16	1322	154.95	1347	161.78
25704	5600	1103	107.87	1135	114.55	1167	121.28	1197	128.06	1226	134.88	1254	141.74	1282	148.64	1309	155.59	1334	162.57	1360	169.59
26622	5800	1116	114.28	1148	121.15	1179	128.06	1209	135.03	1239	142.03	1267	149.08	1294	156.17	1321	163.30	1347	170.47	1372	177.68
27540	6000	1130	120.86	1162	128.05	1192	135.15	1222	142.30	1251	149.49	1278	156.73	1307	164.00	1333	171.32	1358	178.67	1384	186.07

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		21.00 in.w.c.		22.00 in.w.c.		23.00 in.w.c.		24.00 in.w.c.		25.00 in.w.c.		26.00 in.w.c.		27.00 in.w.c.		28.00 in.w.c.		29.00 in.w.c.		30.00 in.w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14688	3200	1288	94.59	1319	99.11	1349	103.66	1378	108.30												
15606	3400	1284	100.50	1315	105.20	1346	109.93	1376	114.68	1405	119.49	1433	124.33	1459	129.23						
16524	3600	1283	106.58	1313	111.50	1343	116.44	1372	121.39	1401	126.37	1430	131.37	1458	136.40	1486	141.47	1512	146.58	1538	151.74
17442	3800	1286	112.81	1314	117.96	1343	123.12	1371	128.29	1399	133.48	1427	138.68	1454	143.90	1482	149.14	1509	154.41	1536	159.71
18360	4000	1292	119.16	1319	124.55	1346	129.94	1373	135.35	1399	140.76	1426	146.19	1452	151.63	1479	157.08	1506	162.54	1532	168.02
19278	4200	1301	125.66	1326	131.28	1352	136.91	1378	142.55	1403	148.19	1428	153.85	1453	159.52	1478	165.19	1505	170.88	1530	176.57
20196	4400	1311	132.32	1336	138.16	1360	144.02	1385	149.89	1409	155.77	1434	161.66	1457	167.56	1482	173.46	1507	179.36	1531	185.30
21114	4600	1322	139.15	1347	145.22	1371	151.30	1394	157.39	1418	163.50	1442	169.62	1464	175.75	1488	181.89	1511	188.04	1535	194.19
22032	4800	1334	146.16	1358	152.48	1382	158.76	1405	165.07	1428	171.40	1451	177.75	1472	184.11	1496	190.47	1518	196.85	1541	203.24
22950	5000	1348	153.43	1370	159.91	1394	166.42	1417	172.95	1439	179.50	1462	186.06	1483	192.64	1505	199.24	1527	205.84	1549	212.45
23868	5200	1359	160.91	1383	167.60	1406	174.31	1429	181.05	1451	187.81	1473	194.59	1494	201.38	1517	208.19	1538	215.01	1559	221.85
24786	5400	1372	168.64	1395	175.53	1419	182.44	1441	189.36	1464	196.35	1485	203.33	1505	210.34	1528	217.36	1549	224.40	1570	231.45
25704	5600	1384	176.64	1408	183.72	1431	190.83	1454	197.97	1476	205.13	1498	212.32	1517	219.53	1540	226.76	1561	234.01	1581	241.27
26622	5800	1398	184.90	1420	192.19	1444	199.49	1466	206.83	1488	214.19	1510	221.57	1530	228.98	1552	236.41	1573	243.86	1593	251.33
27540	6000	1409	193.46	1433	200.96	1456	208.45	1479	215.97	1501	223.52	1523	231.10	1542	238.71	1565	246.34	1585	253.99		

Performance shown is for installation type D: Ducted Inlet, Ducted Outlet.
Power (BHP) ratings do not include drive losses

Performance ratings do not include the effects of appurtenances in the air stream

MODEL JJ-29

BRUNING & FEDERLE MFG. CO.

AIR PERFORMANCE TABLE

WHEEL DIA. 57.25 IN.

INLET AREA 5.94 FT²

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		1.00 in.w.c.		2.00 in.w.c.		3.00 in.w.c.		4.00 in.w.c.		5.00 in.w.c.		6.00 in.w.c.		7.00 in.w.c.		8.00 in.w.c.		9.00 in.w.c.		10.00 in.w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7128	1200	260	2.35	352	4.44	430	6.62														
8316	1400	277	2.89	360	5.26	429	7.74	497	9.86												
9504	1600	288	3.52	371	6.16	435	8.94	495	11.92	554	14.65	609	17.66								
10692	1800	300	4.27	382	7.16	445	10.21	498	12.88	554	16.50	606	19.81	657	23.11						
11880	2000	312	5.13	393	8.27	456	11.58	507	14.52	559	18.53	607	22.06	654	26.67	701	29.39	745	33.01		
13068	2200	326	6.13	404	9.53	467	13.10	516	16.26	569	20.60	612	24.46	656	28.35	699	32.26	742	36.24	784	40.26
14256	2400	341	7.27	415	10.83	478	14.76	528	18.13	579	22.79	622	26.94	662	31.14	702	35.37	742	39.64	781	43.83
15444	2600	356	8.57	427	12.48	489	16.57	539	20.15	590	25.12	632	29.55	672	34.04	709	38.58	746	43.15	782	47.75
16632	2800			440	14.23	500	18.56	550	22.34	601	27.62	643	32.31	682	37.08	719	41.90	754	46.78	788	51.69
17820	3000			453	16.16	512	20.75	561	24.72	612	30.31	654	35.25	690	40.28	728	45.39	764	50.55	797	55.75
19008	3200			467	18.20	524	23.13	572	27.29	622	33.19	665	38.38	704	43.60	740	48.05	774	54.45	806	59.87
20196	3400			482	20.62	536	25.73	583	30.08	633	36.29	676	41.74	715	47.28	751	52.91	785	58.61	817	64.37
21384	3600			497	23.18	549	28.55	595	33.09	644	39.60	686	45.32	726	51.11	762	58.99	796	62.95	828	68.87
22572	3800					563	31.61	607	36.34	656	43.19	697	49.14	738	55.18	773	61.31	807	67.52	839	73.80
23760	4000					578	34.93	620	39.83	667	47.02	709	53.22	747	59.51	784	65.98	818	72.34	850	78.88
24948	4200					593	38.50	633	43.60	680	51.12	720	57.56	758	64.10	794	70.72	828	77.43	861	84.21
26136	4400					608	42.38	647	47.63	692	55.40	732	62.18	769	68.98	805	75.85	839	82.80	871	89.83
27324	4600							661	51.95	705	60.16	744	67.12	781	74.15	816	81.27	850	88.47	882	95.74
28512	4800							676	56.57	719	65.14	757	72.34	793	79.63	828	87.00	861	94.65	893	101.97
29700	5000							691	61.51	733	70.43	770	77.88	805	85.43	839	93.05	872	100.74	904	108.51
30888	5200							707	66.77	748	75.05	783	83.77	818	91.57	852	99.44	884	107.38	915	115.39
32076	5400									763	82.02	797	90.00	831	98.05	864	106.17	896	114.38	927	122.62
33264	5600									778	88.34	812	96.58	845	104.89	877	113.26	908	121.70	938	130.21
34452	5800									794	95.09	827	103.53	859	112.10	890	120.73	921	129.41	950	138.17
35640	6000											842	110.87	873	119.69	904	128.67	933	137.51	963	146.52

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		11.00 in.w.c.		12.00 in.w.c.		13.00 in.w.c.		14.00 in.w.c.		15.00 in.w.c.		16.00 in.w.c.		17.00 in.w.c.		18.00 in.w.c.		19.00 in.w.c.		20.00 in.w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13068	2200	823	44.34																		
14256	2400	820	48.27	858	52.65	894	57.10														
15444	2600	819	52.38	855	57.00	891	61.72	926	66.46	960	71.28	991	76.14								
16632	2800	822	56.62	856	61.56	890	66.56	923	71.57	957	76.61	989	81.69	1021	86.83	1051	92.03				
17820	3000	829	60.98	860	66.26	892	71.54	924	76.86	956	82.19	986	87.53	1017	92.92	1048	98.34				
19008	3200	838	65.56	868	71.07	898	76.66	928	82.28	957	87.91	987	93.56	1018	99.24	1045	104.93	1075	110.65	1103	116.40
20196	3400	848	70.19	877	76.04	906	81.93	935	87.84	963	93.78	990	99.74	1018	105.72	1046	111.71	1074	117.72	1101	123.76
21384	3600	859	75.06	888	81.15	916	87.36	943	93.57	970	99.81	997	106.07	1023	112.35	1050	118.65	1076	124.97	1102	131.30
22572	3800	870	80.15	899	86.55	927	93.00	954	99.49	980	106.02	1006	112.57	1031	119.15	1056	125.75	1081	132.37	1105	139.01
23760	4000	881	85.48	910	92.14	937	98.86	964	105.62	989	112.42	1015	119.25	1040	126.13	1064	133.03	1088	139.94	1112	146.88
24948	4200	891	91.07	921	97.98	948	104.96	975	111.89	1001	119.06	1026	126.17	1050	133.32	1074	140.50	1097	147.71	1121	154.94
26136	4400	902	96.93	931	104.10	959	111.33	986	118.81	1012	125.95	1037	133.33	1061	140.75	1084	148.20	1107	155.69	1130	163.21
27324	4600	913	103.09	942	110.51	970	117.98	997	125.52	1023	133.11	1048	140.75	1072	148.43	1095	156.16	1118	163.92	1140	171.71
28512	4800	924	109.56	953	117.22	981	124.94	1008	132.73	1034	140.57	1059	148.46	1083	156.40	1106	164.36	1129	172.41	1151	180.47
29700	5000	934	116.34	964	124.26	992	132.22	1019	140.25	1044	148.34	1069	156.46	1094	164.67	1117	172.91	1140	181.19	1162	189.51
30888	5200	945	123.47	974	131.62	1002	139.83	1029	148.10	1055	156.43	1080	164.92	1104	173.36	1128	181.75	1151	190.28	1173	198.86
32076	5400	956	130.94	985	139.33	1013	147.79	1040	156.30	1066	164.86	1091	173.51	1115	182.19	1139	190.93	1161	199.71	1184	208.54
33264	5600	968	138.77	998	147.41	1024	156.11	1051	164.96	1077	173.66	1102	182.55	1126	191.48	1149	200.46	1172	209.49	1194	218.56
34452	5800	979	146.98	1008	155.86	1035	164.80	1062	173.80	1087	182.86	1112	191.97	1136	201.14	1160	210.36	1183	219.63	1205	228.94
35640	6000	991	155.58	1019	164.70	1046	173.68	1073	183.12	1098	192.42	1123	201.78	1147	211.18	1171	220.64	1194	230.15	1216	239.71

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		21.00 in.w.c.		22.00 in.w.c.		23.00 in.w.c.		24.00 in.w.c.		25.00 in.w.c.		26.00 in.w.c.		27.00 in.w.c.		28.00 in.w.c.		29.00 in.w.c.		30.00 in.w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
19008	3200	1132	122.20	1159	128.04	1186	133.93	1211	139.90												
20196	3400	1128	129.81	1156	135.69	1183	142.00	1209	148.16	1235	154.36	1260	160.62	1283	166.94						
21384	3600	1128	137.64	1154	144.01	1180	150.39	1206	156.80	1232	163.23	1257	169.70	1281	176.20	1306	182.75	1330	189.36	1352	196.02
22572	3800	1131	145.65	1155	152.32	1180	158.99	1205	165.68	1230	172.40	1254	179.13	1278	185.88	1303	192.66	1327	199.47	1350	206.31
23760	4000	1136	153.83	1159	160.80	1183	167.78	1207	174.77	1230	181.78	1253	188.79	1278	195.83	1300	202.88	1323	209.95	1347	217.04
24948	4200	1143	162.19	1166	169.45	1189	176.74	1211	184.03	1233	191.34	1256	198.69	1277	205.99	1300	213.33	1323	220.68	1345	228.05
26136	4400	1152	170.74	1174	178.30	1196	185.86	1218	193.48	1239	201.06	1260	208.70	1281	216.34	1303	223.98	1324	231.63	1346	239.29
27324	4600	1162	179.53	1184	187.37	1205	195.24	1226	203.12	1247	211.03	1267	218.94	1287	226.87	1308	234.82	1329	242.77	1349	250.73
28512	4800	1173	188.56	1194	196.68	1215	204.83	1236	213.00	1255	221.19	1276	229.40	1294	237.62	1315	245.86	1335	254.11	1354	262.37
29700	5000	1183	197.87	1204	206.29	1225	214.68	1245	223.12	1265	231.59	1285	240.08	1303	248.59	1324	257.12	1343	265.66	1362	274.22
30888	5200	1194	207.43	1215	216.13	1235	224.81	1256	233.53	1276	242.27	1295	251.03	1313	259.82	1333	268.63	1352	277.46	1370	286.30
32076	5400	1205	217.41	1226	226.31	1247	235.26	1267	244.23	1286	253.24	1306	262.27	1323	271.33	1343	280.40	1362	289.52	1380	298.64
33264	5600	1216	227.68	1237	236.83	1258	246.03	1278	255.25	1297	264.53	1316	273.82	1334	283.15	1354	292.50	1372	301.87	1390	311.27
34452	5800	1227	238.31	1248	247.71	1268	257.15	1288	266.64	1308	276.16	1327	285.71	1345	295.29	1364	304.90	1383	314.54		
35640	6000	1237	249.31	1259	258.96	1279	268.65	1299	278.38	1319	288.15	1338	297.96	1355	307.78	1375	317.65	1390	327.54		

Performance shown is for installation type D: Ducted Inlet, Ducted Outlet.
Power (BHP) ratings do not include drive losses

Performance ratings do not include the effects of appurtenances in the air stream

MODEL JJ-33

BRUNING & FEDERLE MFG. CO.

AIR PERFORMANCE TABLE

WHEEL DIA. 84.25 IN.

INLET AREA 7.47 FT^2

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		1.00 in.w.c.		2.00 in.w.c.		3.00 in.w.c.		4.00 in.w.c.		5.00 in.w.c.		6.00 in.w.c.		7.00 in.w.c.		8.00 in.w.c.		9.00 in.w.c.		10.00 in.w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8954	1200	237	2.95	313	5.58	383	8.32														
10456	1400	247	3.63	321	6.62	392	9.74	443	12.40												
11952	1600	257	4.43	331	7.75	398	11.24	441	14.25	484	18.45	542	22.22								
13446	1800	267	5.37	340	9.00	397	12.85	444	16.20	493	20.84	540	24.92	585	29.07						
14940	2000	278	6.45	350	10.41	407	14.58	452	18.27	498	23.32	541	27.78	583	32.30	624	36.87	664	41.53		
16434	2200	291	7.71	360	11.99	416	16.48	461	20.46	505	25.92	546	30.77	584	35.67	623	40.61	661	45.60	698	50.64
17928	2400	304	9.15	370	13.75	426	18.56	471	22.81	516	28.67	554	33.88	590	38.17	626	44.50	661	49.87	696	55.27
19422	2600	317	10.79	380	15.72	436	20.65	481	25.36	525	31.61	563	37.17	598	42.82	632	48.53	665	54.28	697	60.07
20916	2800			392	17.91	446	23.35	490	28.11	535	34.75	573	40.65	608	46.66	640	52.72	672	58.85	702	65.02
22410	3000			404	20.33	456	26.10	500	31.10	545	38.13	583	44.35	618	53.68	650	57.10	680	63.69	710	70.14
23904	3200			416	23.00	467	29.10	510	34.34	555	41.75	593	48.20	627	54.56	660	61.70	690	68.64	719	75.45
25398	3400			430	25.94	478	32.36	520	37.84	564	45.68	602	52.51	637	59.48	669	66.56	700	73.79	728	80.98
26892	3600			443	29.16	490	35.91	530	41.63	574	49.84	612	57.01	647	64.30	679	71.70	709	79.19	738	86.77
28386	3800					502	39.77	541	46.71	584	54.34	621	61.82	656	69.42	689	77.13	719	84.94	748	92.85
29880	4000					515	43.94	552	50.11	595	59.15	631	66.95	666	74.86	698	82.88	728	91.01	757	99.23
31374	4200					528	48.44	564	54.54	606	64.31	642	72.42	676	80.64	708	88.97	738	97.41	767	105.95
32868	4400					542	53.28	576	59.92	617	69.81	652	78.24	686	85.78	718	95.42	748	104.17	777	113.01
34362	4600							589	65.36	629	75.68	663	84.43	696	93.28	728	102.24	758	111.30	788	120.46
35856	4800							602	71.17	641	81.84	674	91.01	707	100.18	738	109.45	767	118.81	798	128.27
37350	5000							616	77.38	653	88.60	686	97.99	718	107.48	748	117.06	777	126.74	806	136.51
38844	5200							630	84.00	666	95.67	698	105.39	729	115.19	759	125.04	788	135.08	816	145.16
40338	5400									680	103.17	711	113.22	741	123.35	770	133.56	798	143.86	826	154.25
41832	5600									694	111.13	725	121.50	753	131.95	781	142.48	809	153.10	836	163.80
43326	5800									708	119.54	737	130.24	765	141.02	793	151.87	820	162.80	847	173.81
44820	6000											750	139.47	778	150.57	805	161.74	832	172.98	858	184.31

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		11.00 in.w.c.		12.00 in.w.c.		13.00 in.w.c.		14.00 in.w.c.		15.00 in.w.c.		16.00 in.w.c.		17.00 in.w.c.		18.00 in.w.c.		19.00 in.w.c.		20.00 in.w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16434	2200	733	56.79																		
17928	2400	731	60.72	765	68.23	797	71.83														
19422	2600	730	65.89	762	71.75	794	77.65	825	83.60	855	89.64	883	95.79								
20916	2800	733	71.23	763	77.47	793	83.73	823	90.03	852	96.37	882	102.77	910	109.23	936	115.76				
22410	3000	738	76.73	767	83.35	795	90.00	823	96.68	851	103.39	879	110.12	907	116.83	934	123.71				
23904	3200	746	82.41	773	89.41	800	96.44	827	103.50	853	110.59	879	117.70	906	124.84	932	132.00	958	139.20	984	146.44
25398	3400	755	88.29	782	95.66	807	103.07	833	110.51	858	117.95	883	125.48	907	133.00	932	140.54	957	148.10	981	155.68
26892	3600	765	94.43	791	102.14	816	109.91	841	117.72	865	125.57	888	133.44	912	141.34	935	149.27	959	157.21	982	165.17
28386	3800	775	100.53	801	108.88	826	117.00	850	125.16	873	133.37	895	141.62	919	149.90	941	158.20	963	166.53	985	174.87
29880	4000	785	107.54	811	116.92	835	124.37	859	132.88	882	141.44	905	150.04	927	158.66	948	167.35	970	176.05	991	184.78
31374	4200	794	114.57	820	123.27	845	132.09	869	140.89	892	149.79	914	158.73	936	167.73	957	176.78	978	185.83	998	194.92
32868	4400	804	121.96	830	130.96	855	140.06	879	149.22	902	158.46	924	167.74	945	177.07	966	186.45	987	195.87	1007	205.32
34362	4600	813	129.69	840	139.02	864	148.43	888	157.91	911	167.46	934	177.07	955	186.74	976	196.46	996	206.22	1016	216.02
35856	4800	823	137.83	849	147.46	874	157.18	898	166.96	921	176.84	943	186.77	965	196.76	986	206.81	1006	216.90	1026	227.04
37350	5000	833	146.36	859	156.31	884	166.34	908	176.44	931	186.61	953	196.99	974	207.17	995	217.53	1016	227.95	1035	238.42
38844	5200	842	155.33	868	165.58	893	175.91	917	186.32	940	196.80	962	207.35	984	217.97	1005	228.65	1025	239.39	1045	250.18
40338	5400	852	164.72	878	175.28	903	185.92	927	196.63	950	207.42	972	218.28	994	229.21	1015	240.20	1035	251.25	1055	262.35
41832	5600	862	174.58	888	185.44	912	196.38	936	207.40	959	218.46	982	229.66	1003	240.89	1024	252.19	1045	263.54	1064	274.96
43326	5800	873	184.90	898	196.07	922	207.32	946	218.64	969	230.04	991	241.50	1013	253.04	1034	264.64	1054	276.30	1074	288.02
44820	6000	883	195.72	908	207.19	932	219.75	956	230.37	979	242.07	1001	253.84	1022	265.87	1043	277.57	1064	289.54	1083	301.56

FLOW	INLET VEL	FAN STATIC PRESSURE																			
		21.00 in.w.c.		22.00 in.w.c.		23.00 in.w.c.		24.00 in.w.c.		25.00 in.w.c.		26.00 in.w.c.		27.00 in.w.c.		28.00 in.w.c.		29.00 in.w.c.		30.00 in.w.c.	
CFM	FPM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
23904	3200	1009	153.72	1033	161.07	1057	169.50	1079	176.01												
25398	3400	1006	163.30	1030	170.95	1054	178.64	1078	186.38	1101	194.19	1123	202.07	1144	210.03						
26892	3600	1005	173.16	1029	181.16	1052	189.19	1075	197.25	1098	205.34	1120	213.48	1142	221.67	1164	229.91	1185	238.22	1205	246.61
28386	3800	1008	183.23	1030	191.61	1052	200.01	1074	208.43	1096	216.87	1118	225.34	1139	233.83	1161	242.36	1182	250.99	1203	259.55
29880	4000	1012	193.52	1033	202.29	1054	211.06	1075	219.86	1096	228.67	1117	237.50	1137	246.35	1159	255.22	1180	264.11	1200	273.03
31374	4200	1019	204.04	1039	213.18	1059	222.34	1079	231.51	1099	240.70	1119	249.91	1138	259.13	1159	268.37	1179	277.62	1199	286.89
32868	4400	1027	214.80	1046	224.31	1066	233.85	1085	243.40	1104	252.97	1123	262.55	1141	272.15	1161	281.76	1180	291.39	1199	301.03
34362	4600	1035	225.85	1055	235.72	1074	245.62	1092	255.54	1111	265.48	1129	275.44	1147	285.41	1166	295.40	1184	305.41	1202	315.42
35856	4800	1045	237.22	1064	247.44	1082	257.68	1101	267.96	1119	278.26	1137	288.58	1153	298.93	1172	309.30	1189	319.67	1207	330.07
37350	5000	1054	248.93	1073	258.48	1092	270.08	1110	280.70	1127	291.36	1145	302.04	1161	312.74	1179	323.47	1196	334.21	1213	344.98
38844	5200	1064	261.02	1083	271.90	1101	282.83	1119	293.79	1137	304.79	1154	315.81	1170	326.87	1188	337.95	1204	349.06	1221	360.18
40338	5400	1074	273.51	1093	284.71	1111	295.97	1129	307.26	1146	318.59	1163	329.95	1179	341.35	1197	352.78	1213	364.23	1229	375.71
41832	5600	1083	286.40	1102	297.85	1120	309.52	1138	321.13	1156	332.79	1173	344.48	1188	356.21	1206	367.98	1222	379.77	1238	391.59
43326	5800	1093	299.80	1112	311.63	1130	323.51	1148	335.44	1165	347.40	1183	359.43	1196	371.49	1216	383.58	1232	395.70	1248	407.86
44820	6000	1103	313.65	1121	325.78	1140	337.98	1158	350.22	1175	362.50	1192	374.83	1206	387.21	1225	399.62	1241	412.07		

Performance shown is for installation type D: Ducted Inlet, Ducted Outlet.
Power (BHP) ratings do not include drive losses

Performance ratings do not include the effects of appurtenances in the air stream

MODEL JJ-37