

ROMLAIR

CATALOG CLS-94
March 1994

Louvered Roof Supply Fans

MODEL CLS



VALUE - DEPENDABILITY - PERFORMANCE

ROMLAIR

Model CLS Louvered Roof Supply Fans



The Romlair Model CLS louvered roof supply fan provides filtered make-up air in medium to high pressure-high volume applications. The attractive louvered design features maximum air flow, large filter area, low air intake velocities, and high filter efficiency.

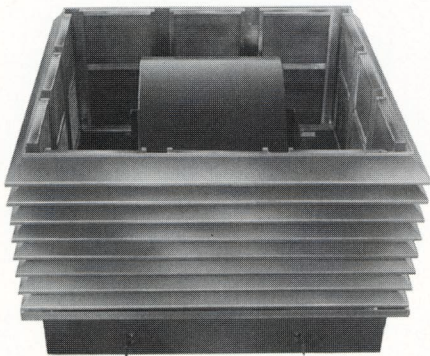
The louvered penthouse section is constructed of .080 extruded aluminum louvers with a .063 aluminum cover (removable in sections). The blower assembly, base section, and support sections are constructed of heavy gauge steel. Fan wheels are backward inclined, non-overloading, double width, double inlet type. They are constructed of heavy gauge steel with welded blades. Flat blades are used in fan sizes 12"-16" and airfoil blades in sizes 18"-36".

Optional Accessories

Motorized Intake Dampers - Type VC-1 intake damper designed for horizontal mounting inside ductwork.

Model CF Roof Curbs (Heavy Duty) - Available in either galvanized or aluminum construction.

Disconnect Switches - NEMA1 or NEMA 3R available.



- **Removable Insulated Cover Panel** - Allows quick access to motor and drives.
- **Drives** - Drives are sized for 165% of motor horsepower. Motor pulleys are adjustable for final system balancing.
- **Motor** - Heavy duty ball bearing motors.
- **Blower Housing** - Double width, double inlet fan housings are constructed of heavy gauge steel.
- **Adjustable Motor Base** - Motor bases are slide adjustable making it easy to maintain proper belt tension.
- **Vibration Isolation Base** - Steel isolation bases with vibration isolators reduce noise transmission into the building.
- **Filters** - 2" washable aluminum filters are standard.

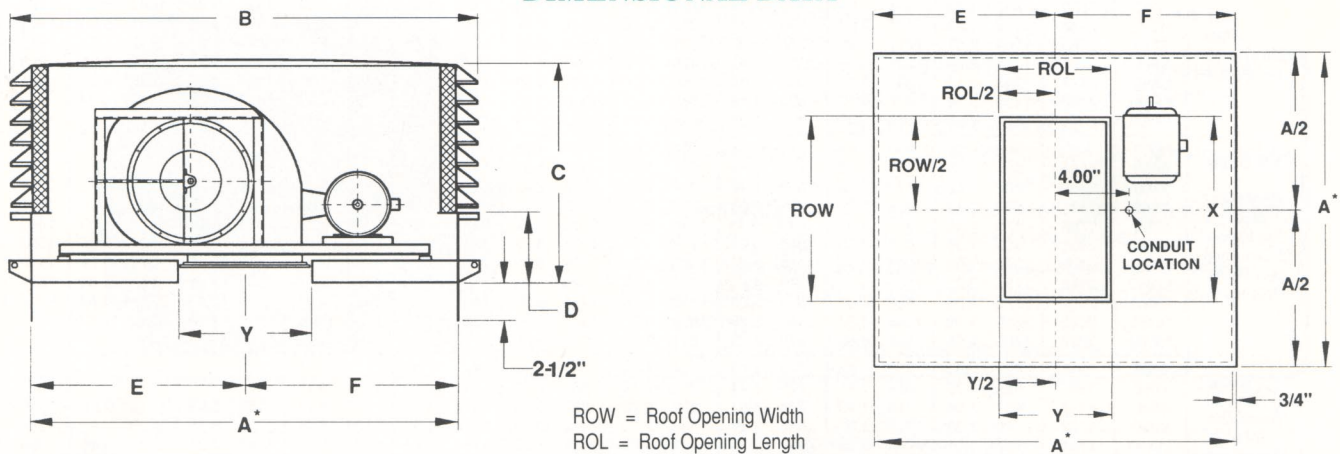
PERFORMANCE DATA

MODEL	CFM	OUT. VEL. FPM	CUBIC FEET PER MINUTE AND HORSEPOWER AT STATIC PRESSURE																			
			1/8" SP		1/2" SP		3/4" SP		1" SP		1.5" SP		2" SP		2.5" SP		3" SP		3.5" SP		4" SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CLS-12 Wheel Dia. 12.25" Tip Speed 3.21 x Rpm Max Hp-5 Min Hp-1/3	1400	903	964	.12	1145	.20	1290	.28	1419	.36	1667	.55	1897	.77	2136	1.13	2323	1.41				
	1700	1096	1084	.18	1257	.27	1396	.36	1519	.46	1733	.65	1940	.88	2189	1.28	2361	1.57	2526	2.07	2724	2.40
	2000	1290	1207	.24	1372	.35	1508	.46	1626	.57	1832	.80	2012	1.03	2270	1.48	2424	1.77	2576	2.07	2724	2.40
	2300	1483	1338	.33	1491	.45	1622	.58	1738	.71	1937	.96	2112	1.22	2371	1.73	2512	2.02	2649	2.33	2785	2.66
	2600	1677	1477	.44	1612	.57	1739	.72	1852	.86	2047	1.15	2217	1.44	2371	1.73	2512	2.02	2649	2.33	2785	2.66
	2900	1870	1621	.58	1737	.72	1860	.88	1968	1.04	2160	1.36	2326	1.68	2476	2.00	2615	2.32	2744	2.65	2868	2.99
	3200	2064	1765	.75	1869	.89	1981	1.07	2087	1.25	2274	1.60	2438	1.96	2585	2.30	2721	2.66	2849	3.02	2968	3.37
	3500	2258	1913	.95	2006	1.10	2106	1.28	2208	1.48	2390	1.87	2551	2.25	2696	2.64	2829	3.02	2954	3.41	3073	3.80
	3800	2451	2062	1.19	2147	1.35	2236	1.53	2330	1.73	2509	2.16	2666	2.58	2809	3.00	2941	3.42	3063	3.83	3179	4.25
	4100	2645	2211	1.46	2290	1.64	2371	1.82	2456	2.03	2630	2.48	2783	2.95	2923	3.40	3175	4.30				
4400	2833	2362	1.78	2436	1.97	2510	2.16	2587	2.37	2750	2.85	2902	3.35	3039	3.83	3168	4.32					
CLS-13 Wheel Dia. 13.5" Tip Speed 3.53 x Rpm Max Hp-5 Min Hp-1/3	1800	952	904	.16	1066	.26	1197	.36	1310	.47	1526	.70	1729	.97	1920	1.27	2115	1.76				
	2170	1148	1015	.23	1170	.35	1296	.47	1406	.59	1597	.84	1776	1.11	1950	1.42	2157	1.97	2304	2.34	2445	2.73
	2540	1343	1131	.32	1277	.46	1400	.60	1506	.74	1691	1.02	1852	1.31	2006	1.63	2157	1.97	2356	2.61	2488	3.01
	2910	1539	1254	.44	1388	.60	1506	.76	1610	.92	1789	1.24	1947	1.56	2088	1.89	2222	2.23	2356	2.61	2488	3.01
	3280	1735	1384	.59	1500	.75	1615	.94	1715	1.12	1892	1.48	2044	1.84	2184	2.21	2310	2.57	2431	2.61	2550	3.36
	3650	1931	1516	.77	1618	.94	1726	1.15	1824	1.35	1996	1.75	2146	2.15	2281	2.55	2407	2.96	2523	3.37	2633	3.78
	4020	2126	1651	.99	1741	1.17	1838	1.38	1934	1.61	2102	2.06	2250	2.50	2382	2.94	2505	3.39	2620	3.83	2728	4.28
	4390	2322	1787	1.26	1869	1.45	1955	1.66	2046	1.91	2210	2.40	2355	2.89	2486	3.37	2606	3.85	2718	4.33	2825	4.82
	4760	2518	1925	1.57	2000	1.77	2077	1.99	2160	2.25	2320	2.78	2461	3.31	2590	3.83	2708	4.36	2820	4.88	2924	5.40
	5130	2714	2063	1.93	2133	2.15	2204	2.38	2277	2.63	2431	3.20	2569	3.77	2696	4.34	2814	4.91	2923	5.48		
5300	2804	2.27	2.12	2194	2.33	2263	2.83	2333	2.83	2482	3.41	2620	4.00	2745	4.59	2862	5.18					
CLS-15 Wheel Dia. 15" Tip Speed 3.93 x Rpm Max Hp-7.5 Min Hp-1/2	2500	1072	875	.25	1016	.39	1131	.53	1231	.67	1408	.96	1579	1.30	1784	1.91	1925	2.33	2061	2.78	2191	3.26
	2970	1274	979	.35	1114	.52	1226	.69	1322	.85	1490	1.18	1639	1.52	1852	2.21	1978	2.64	2103	3.10	2224	3.60
	3440	1476	1091	.49	1216	.68	1323	.87	1417	1.06	1580	1.44	1723	1.82	1938	2.60	2054	3.04	2165	3.51	2276	4.01
	3910	1678	1209	.66	1319	.87	1423	1.08	1515	1.30	1674	1.73	1813	2.16	1938	2.60	2054	3.04	2165	3.51	2276	4.01
	4380	1879	1331	.88	1426	1.09	1526	1.34	1614	1.58	1770	2.07	1906	2.55	2028	3.03	2142	3.52	2247	4.01	2348	4.52
	4850	2081	1456	1.15	1539	1.37	1629	1.63	1716	1.91	1868	2.44	2002	2.98	2121	3.51	2232	4.04	2337	4.59	2434	5.13
	5320	2283	1582	1.48	1657	1.71	1736	1.97	1819	2.27	1967	2.86	2098	3.46	2217	4.04	2325	4.62	2427	5.21	2524	5.80
	5790	2484	1709	1.86	1778	2.11	1848	2.38	1924	2.69	2069	3.34	2197	3.98	2313	4.62	2421	5.26	2520	5.89	2615	6.53
	6260	2686	1837	2.31	1900	2.57	1965	2.85	2032	3.16	2172	3.87	2297	4.56	2411	5.26	2517	5.95	2616	6.64	2708	7.32
	6730	2888	1966	2.83	2024	3.10	2084	3.40	2145	3.72	2275	4.45	2399	5.21	2510	5.95	2615	6.70				
7200	3090	2095	3.42	2150	3.71	2205	4.02	2262	4.35	2381	5.09	2502	5.91	2611	6.71							

PERFORMANCE DATA

MODEL	CFM	OUT. VEL. FPM	CUBIC FEET PER MINUTE AND HORSEPOWER AT STATIC PRESSURE																			
			1/8" SP		1/2" SP		3/4" SP		1" SP		1.5" SP		2" SP		2.5" SP		3" SP		3.5" SP		4" SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CLS-33 Wheel Dia. 33" Tip Speed 8.65 x Rpm Max Hp-30 Min Hp-2	10000	887	346	.67	407	1.08	1465	1.54	519	2.04	618	3.20										
	11800	1047	385	.91	441	1.39	1491	1.88	540	2.42	631	3.62	715	5.00								
	13600	1203	427	1.23	477	1.76	1523	2.31	567	2.89	650	4.16	729	5.58	802	7.14						
	15400	1366	471	1.62	516	2.22	1558	2.83	599	3.47	675	4.80	747	6.27	817	7.90	882	9.61				
	17200	1526	515	2.08	557	2.76	1596	3.44	633	4.12	704	5.57	771	7.11	835	8.75	898	10.56	957	12.43	1014	14.43
	19000	1685	560	2.64	599	3.39	1635	4.13	670	4.89	736	6.44	798	8.05	858	9.76	917	11.62	974	13.58	1029	15.64
	20800	1845	606	3.30	642	4.12	1676	4.94	708	5.75	770	7.41	829	9.15	885	10.93	940	12.84	994	14.87	1046	16.96
	22600	2005	653	4.09	686	4.97	1718	5.86	748	6.73	807	8.55	862	10.36	915	12.25	967	14.24	1017	16.28	1067	18.48
	24400	2165	699	4.97	730	5.92	1760	6.88	789	7.84	845	9.79	897	11.72	947	13.70	996	15.77	1044	17.92	1091	20.15
	26200	2324	746	6.00	775	7.01	1804	8.06	831	9.08	884	11.16	934	13.25	981	15.31	1028	17.50	1074	19.76	1118	22.02
	28000	2484	794	7.18	821	8.26	1848	9.37	874	10.47	924	12.68	971	14.86	1017	17.10	1062	19.40	1105	21.71	1148	24.13
	29800	2644	841	8.49	867	9.65	1892	10.81	917	11.99	965	14.35	1010	16.67	1054	19.04	1097	21.44	1138	23.84	1179	26.35
	31600	2803	889	9.98	914	11.22	1937	13.42	961	13.69	1006	16.14	1050	18.64	1092	21.13	1133	23.65	1173	26.20		
33400	2963	937	11.63	960	12.92	1983	14.23	1005	15.53	1049	18.17	1091	20.80	1131	23.40	1171	26.09					
CLS-36 Wheel Dia. 36.5" Tip Speed 9.56 x Rpm Max Hp-40 Min Hp-3	12000	870	1304	.75	364	1.26	418	1.81	470	2.44												
	13850	1004	1332	.97	387	1.54	436	2.13	483	2.79	571	4.30										
	15700	1138	1362	1.23	412	1.87	457	2.51	500	3.21	582	4.75	658	6.54								
	17550	1272	1393	1.55	439	2.26	481	2.93	521	3.70	596	5.30	668	7.10	735	9.11						
	19400	1406	1426	1.95	467	2.69	507	3.48	544	4.27	614	5.95	681	7.80	746	9.85	806	12.05				
	21250	1540	1459	2.40	496	3.19	534	4.07	569	4.92	635	6.69	697	8.59	758	10.68	817	12.94				
	23100	1675	1492	2.92	527	3.79	562	4.71	595	5.63	658	7.53	717	9.53	774	11.68	829	13.93	883	16.37	935	18.99
	24950	1809	1527	3.55	558	4.44	591	5.43	623	6.45	682	8.44	739	10.58	792	12.75	844	15.08	896	17.59	946	20.20
	26800	1943	1561	4.25	591	5.22	621	6.24	651	7.32	708	9.48	762	11.70	813	13.99	862	16.37	911	18.99	959	21.61
	28650	2077	1596	5.05	623	6.05	651	7.12	680	8.28	734	10.57	786	12.92	835	15.31	882	17.79	928	20.38	973	23.07
	30500	2211	1631	5.96	657	7.03	683	8.14	709	9.31	762	11.80	811	14.24	858	16.73	904	19.36	948	22.02	991	24.79
	32350	2345	1666	6.96	691	8.11	715	9.26	740	10.50	790	13.09	837	15.68	883	18.33	927	21.03	969	23.77	1010	26.59
	34200	2480	1702	8.11	725	9.29	748	10.51	771	11.77	818	14.46	864	17.23	908	19.99	950	22.76	992	25.71	1032	28.66
36000	2610	1736	9.31	758	10.54	780	11.82	802	13.14	847	15.95	891	18.84	934	21.78	975	24.70	1014	27.61	1053	30.69	

DIMENSIONAL DATA



Unit Size	A*	B	C	D	E	F	Duct/Damper		Min. Roof Open		NOMINAL FILTERS	TIERS	WT.
							X	Y	ROW	ROL			
12	46	54	36½	12	21	25	18	14	22	18	(4)16x20 (4)20x20	5	425
13	52	60	36½	12	22	30	20	16	24	20	(8) 20X20	5	475
15	58	66	36½	12	24	34	22	16	26	20	(8) 20X25	5	650
16	58	66	36½	12	26	32	24	18	28	22	(8) 20X25	5	715
18	64	72	41	12	29	35	26	20	30	24	(8)20X25 (4)16X25	6	905
20	70	78	46	17	31	39	30	22	34	26	(8)20X25 (4)16X25	6	1000
22	70	78	46	17	34	36	32	24	36	28	(8)20X25 (4)16X25	6	1100
24	76	84	51	13	36	40	36	26	40	30	(12)16X20 (12)20X20	8	1650
27	82	90	55	17	40	42	40	30	44	34	(12)16X25 (12)20X25	8	1900
30	88	96	59½	17	44	44	44	32	48	36	(24) 20X25	9	2300
33	88 x 96	96 x 104	65	18	48	48	48	36	52	40	(16)20X20 (16)20X25	10	2600
36	88 x 106	96 x 114	69½	18	51	55	52	40	56	44	(16)20x20 (16)20x25 (4)16x25	11	3200

*Dimension "A" is the inside dimension of the curb cap. The O.D. roof curb should be 1-1/2" less than the curb cap to allow for roofing.

ROMLA VENTILATOR CO.
1664 W. 139TH STREET
GARDENA, CALIFORNIA 90249

(310) 538-9188

FAX (310) 538-5157

DISTRIBUTED BY