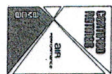




MODEL 232

INDUSTRIAL EXHAUSTER FANS



Performance shown is for Model 232 Industrial Exhauster Fans with inlet and outlet ducts. BHP shown does not include drive losses.

SIZE 016

WHEEL DIA. = 15.625 in. OUTLET SIZE (ID) = 7.31W x 8.75L
INLET DIA. (ID) = 9 in. INLET AND OUTLET AREA = .44 sq. ft.

MAX. BHP = .38 (RPM)³
TIP SPEED, FPM = 4.09 x RPM

DATA ABOVE SOLID HEAVY LINE IS STANDARD DUTY AREA OF PERFORMANCE
DATA BELOW SOLID HEAVY LINE IS HEAVY DUTY AREA OF PERFORMANCE

VOLUME	U.V.	VP	SP 1.00	SP 2.00	SP 3.00	SP 4.00	SP 5.00	SP 6.00	SP 7.00	SP 8.00	SP 9.00	SP10.00	SP12.00	SP14.00	SP16.00	SP18.00	SP20.00	SP24.00
CFM	FPM	HC	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1200	0.09	946	0.17	1203	0.36	1552	0.58	1782	0.82	2169	1.36	2338	1.65	2496	1.97	2645	2.31
508	704	0.16	1006	0.25	1325	0.46	1582	0.71	1806	0.98	2006	1.27	2277	1.50	2515	2.28	2683	2.59
880	2000	0.25	1081	0.34	1379	0.59	1628	0.87	1842	1.16	2036	1.59	2215	1.83	2381	2.15	2518	2.50
1056	2400	0.36	1170	0.47	1444	0.75	1682	1.06	1892	1.39	2077	1.73	2251	2.02	2412	2.49	2555	2.89
1232	2800	0.49	1273	0.63	1523	0.95	1743	1.29	1946	1.66	2131	2.06	2292	2.42	2435	2.82	2562	3.26
1408	3200	0.64	1382	0.85	1609	1.19	1820	1.57	2008	1.97	2185	2.38	2352	2.81	2506	3.25	2649	3.69
1584	3600	0.81	1494	1.11	1705	1.48	1901	1.89	2082	2.32	2248	2.77	2409	3.26	2560	3.71	2703	4.20
1760	4000	1.00	1611	1.31	1811	1.86	1990	2.27	2162	2.73	2323	3.22	2472	3.71	2619	4.23	2758	4.75
1936	4400	1.21	1735	1.50	1920	2.26	2086	2.71	2246	3.21	2403	3.72	2549	4.25	2685	4.80	2820	5.36
2112	4800	1.44	1856	1.75	2031	2.76	2191	3.24	2341	3.75	2485	4.30	2628	4.86	2762	5.44	2889	6.03
2288	5200	1.69	1981	2.00	2164	3.26	2299	3.84	2440	4.37	2578	4.95	2711	5.54	2842	6.16	2966	6.78
2464	5600	1.96	2109	2.25	2262	3.94	2409	4.52	2546	5.10	2681	5.67	2801	6.31	2926	6.95	3047	7.61
2640	6000	2.25	2237	2.50	2382	4.66	2521	5.28	2654	5.90	2777	6.52	2896	7.15	3019	7.83	3129	8.52
2816	6400	2.55	2367	2.80	2505	5.47	2636	6.13	2764	6.80	2884	7.46	2996	8.11	3109	8.81	3218	9.53
2992	6800	2.88	2497	3.10	2628	6.38	2733	7.08	2835	7.79	2932	8.50	3102	9.19	3207	9.88	3313	10.6

SIZE 019

WHEEL DIA. = 19.125 in. OUTLET SIZE (ID) = 9.18W x 10.75L
INLET DIA. (ID) = 11 in. INLET AND OUTLET AREA = .66 sq. ft.

MAX. BHP = 1.05 (RPM)³
TIP SPEED, FPM = 5.01 x RPM

DATA ABOVE SOLID HEAVY LINE IS STANDARD DUTY AREA OF PERFORMANCE
DATA BELOW SOLID HEAVY LINE IS HEAVY DUTY AREA OF PERFORMANCE

VOLUME	U.V.	VP	SP 1.00	SP 2.00	SP 3.00	SP 4.00	SP 5.00	SP 6.00	SP 7.00	SP 8.00	SP 9.00	SP10.00	SP12.00	SP14.00	SP16.00	SP18.00	SP20.00	SP24.00
CFM	FPM	HC	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1200	0.09	773	0.26	1048	0.54	1268	0.87	1456	1.22	1622	1.61	1772	2.03	1911	2.48	2039	2.95
1056	1600	0.16	820	0.37	1082	0.69	1295	1.06	1476	1.39	1639	1.90	1788	2.36	1922	2.85	2054	3.41
1320	2000	0.25	884	0.50	1127	0.89	1330	1.30	1505	1.74	1664	2.23	1810	2.74	1945	3.27	2072	3.82
1584	2400	0.36	957	0.70	1180	1.13	1376	1.60	1546	2.09	1697	2.59	1839	3.15	1971	3.73	2096	4.38
1848	2800	0.49	1041	0.96	1245	1.43	1425	1.95	1591	2.49	1741	3.06	1878	3.64	1996	4.22	2121	4.84
2112	3200	0.64	1130	1.28	1315	1.79	1487	2.35	1641	2.99	1788	3.57	1922	4.22	2048	4.87	2165	5.54
2376	3600	0.81	1222	1.67	1394	2.22	1554	2.84	1702	3.49	1836	4.16	1969	4.85	2092	5.57	2209	6.32
2640	4000	1.00	1318	2.14	1481	2.76	1641	3.41	1788	4.11	1899	4.83	2023	5.59	2146	6.36	2259	7.16
2904	4400	1.21	1417	2.71	1570	3.39	1705	4.07	1836	4.81	1964	5.59	2083	6.38	2196	7.20	2304	8.04
3168	4800	1.44	1517	3.38	1660	4.12	1792	4.86	1914	5.63	2032	6.45	2148	7.30	2258	8.16	2361	9.05
3432	5200	1.69	1620	4.15	1753	4.95	1880	5.77	1995	6.56	2107	7.52	2216	8.32	2326	9.26	2429	10.4
3696	5600	1.96	1725	5.05	1850	5.91	1970	6.79	2081	7.65	2185	8.52	2290	9.47	2390	10.4	2490	11.4
3960	6000	2.25	1830	6.08	1948	7.00	2061	7.93	2170	8.87	2270	9.79	2367	10.7	2464	11.8	2558	12.8
4224	6400	2.55	1936	7.25	2048	8.22	2154	9.21	2260	10.2	2358	11.2	2454	12.2	2551	13.2	2643	14.3
4488	6800	2.88	2043	8.56	2149	9.59	2251	10.6	2351	11.7	2446	12.8	2536	13.8	2622	14.8	2709	16.0

SIZE 023

WHEEL DIA. = 22.625 in. OUTLET SIZE (ID) = 10.31W x 12.75L
INLET DIA. (ID) = 13 in. INLET AND OUTLET AREA = .91 sq. ft.

MAX. BHP = 2.42 (RPM)³
TIP SPEED, FPM = 5.92 x RPM

DATA ABOVE SOLID HEAVY LINE IS STANDARD DUTY AREA OF PERFORMANCE
DATA BELOW SOLID HEAVY LINE IS HEAVY DUTY AREA OF PERFORMANCE

VOLUME	U.V.	VP	SP 1.00	SP 2.00	SP 3.00	SP 4.00	SP 5.00	SP 6.00	SP 7.00	SP 8.00	SP 9.00	SP10.00	SP12.00	SP14.00	SP16.00	SP18.00	SP20.00	SP24.00
CFM	FPM	HC	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1092	1200	0.09	652	0.36	885	0.75	1071	1.20	1230	1.70	1370	2.24	1497	2.83	1614	3.45	1724	4.11
9156	1600	0.16	691	0.51	913	0.93	1091	1.47	1246	2.04	1386	2.64	1511	3.28	1627	3.95	1746	4.66
1820	2000	0.25	743	0.70	950	1.22	1122	1.79	1270	2.41	1404	3.09	1531	3.79	1643	4.53	1750	5.30
2184	2400	0.36	803	0.96	993	1.55	1158	2.20	1303	2.87	1432	3.57	1552	4.35	1666	5.17	1770	6.01
2548	2800	0.49	872	1.30	1047	1.95	1204	2.67	1340	3.42	1468	4.21	1584	5.01	1691	5.83	1796	6.75
2912	3200	0.64	946	1.73	1104	2.44	1251	3.22	1382	4.05	1505	4.91	1620	5.80	1727	6.71	1826	7.63
3276	3600	0.81	1022	2.26	1169	3.02	1306	3.88	1432	4.77	1547	5.70	1658	6.67	1763	7.66	1862	8.68
3640	4000	1.00	1102	2.89	1241	3.75	1375	4.65	1486	5.61	1597	6.61	1701	7.64	1803	8.63	1899	9.60
4004	4400	1.21	1184	3.65	1314	4.60	1430	5.53	1535	6.56	1641	7.61	1732	8.74	1826	9.87	1914	11.0
4368	4800	1.44	1266	4.55	1390	5.58	1501	6.40	1606	7.67	1707	8.80	1806	9.97	1899	11.2	1986	12.4
4732	5200	1.69	1353	5.59	1467	6.59	1575	7.82	1672	9.12	1769	10.1	1862	11.4	1953	12.6	2039	13.9
5096	5600	1.96	1439	6.80	1546	7.98	1649	9.19	1744	10.4	1834	11.6	1922	12.9	2009	14.2	2093	15.6
5460	6000	2.25	1527	8.18	1628	9.41	1725	10.7	1817	12.0	1903	13.3	1987	14.6	2068	16.0	2149	17.5
5824	6400	2.55	1615	9.74	1711	11.1	1795	12.9	1882	14.4	1963	15.2	2043	16.6	2123	18.0	2209	19.5
6188	6800	2.88	1704	11.5	1795	12.9	1882	14.4	1968	15.8	2049	17.3	2125	18.7	2205	20.2	2273	21.8

SIZE 10 CLARAGE TYPE CI EXHAUSTER TYPE C WHEEL

TIP SPEED = RPM x 4.58

MAX. RPM FOR ARR. 1, 4, 8, AND 9 = 3600

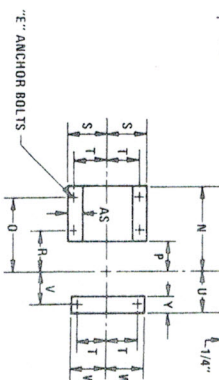
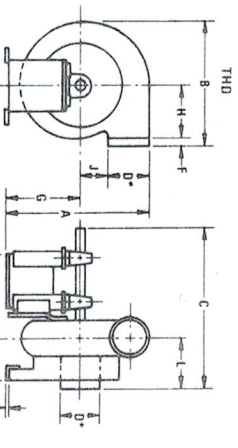
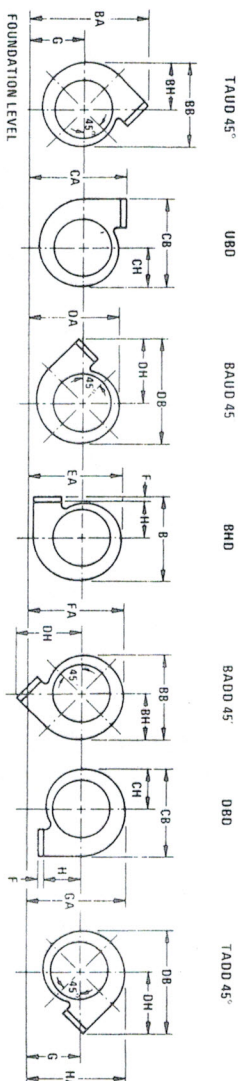
WHEEL DIAMETER = 17 1/2"

INLET AND OUTLET AREA = .546 SQ. FT

Volume of Air CFM	Outlet Velocity ft./min.	1" SP	2" SP	3" SP	4" SP	5" SP	6" SP	7" SP	8" SP	9" SP	10" SP	11" SP	12" SP	13" SP	14" SP	15" SP	16" SP	18" SP	
RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
817	1500	752	23	1016	41	1231	60	1416	79	1580	100	1730	122	1866	145	1986	168	2110	192
953	1750	779	29	1031	49	1240	71	1422	93	1594	116	1870	139	1870	164	1997	189	2117	216
1090	2000	812	36	1051	59	1254	82	1437	107	1613	133	1757	153	1873	185	2000	212	2120	240
1226	2250	849	45	1075	70	1271	96	1444	123	1601	151	1745	179	1879	208	2005	237	2124	267
1362	2500	889	55	1105	82	1292	111	1460	141	1614	171	1755	202	1887	233	2011	265	2129	297
1498	2750	931	66	1138	97	1317	128	1480	160	1629	193	1768	225	1898	260	2021	294	2137	329
1635	3000	976	79	1174	114	1345	146	1502	181	1648	216	1784	252	1912	288	2033	325	2147	362
1771	3250	1022	94	1212	132	1378	167	1528	204	1670	241	1803	290	1928	318	2046	338	2154	396
1907	3500	1071	110	1252	152	1412	191	1578	229	1694	263	1844	309	1946	351	2062	363	2164	430
2043	3750	1121	128	1293	175	1449	216	1590	257	1722	292	1888	342	1967	386	2081	400	2190	475
2180	4000	1172	148	1337	199	1487	245	1615	288	1752	332	1933	372	1990	423	2102	430	2209	512
2316	4250	1226	170	1382	225	1527	273	1661	322	1786	368	1903	415	2016	463	2125	450	2230	562
2452	4500	1280	195	1428	253	1568	308	1699	358	1821	407	1995	457	2065	507	2151	508	2253	610
2588	4750	1336	223	1475	284	1611	343	1738	397	1854	450	1993	500	2076	554	2173	529	2276	662
2725	5000	1393	254	1524	319	1655	381	1778	439	1894	493	2004	549	2109	604	2209	569	2301	712
2861	5250	1450	287	1574	354	1700	421	1820	484	1933	543	2041	601	2143	658	2242	615	2336	773
3000	5500	1507	323	1625	393	1744	463	1863	531	1973	595	2079	636	2179	716	2276	679	2373	836
3133	5750	1563	362	1677	439	1794	509	1907	581	2014	649	2117	714	2216	777	2311	740	2402	890
3270	6000	1619	404	1731	480	1842	558	1952	634	2057	706	2157	775	2254	842	2348	807	2437	953
3406	6250	1676	448	1785	529	1891	610	1998	630	2100	767	2198	840	2293	910	2385	879	2473	1017
3542	6500	1732	496	1841	581	1942	665	2045	665	2145	830	2241	908	2333	982	2423	950	2510	1082
3678	6750	1787	546	1897	638	1993	724	2093	812	2190	897	2284	979	2375	1058	2463	1034	2548	1147
3815	7000	1843	599	1953	699	2045	787	2141	879	2236	967	2328	1034	2417	1138	2503	1216	2587	1212

All capacities based on Standard Air (density 0.075/ft. cu. ft.—70°F.—29.52" Hg. Bar.) and tests in accordance with AMCA Standard Test Code Bulletin 110 for Exhausters.
Arr. 2 fans are furnished for ratings shown above the color line only. Max. RPM = 2180.

Bold type indicates most efficient point of operation for each pressure.



NOTES:

1. * Inside diameter of pipe to fit over outlet and outside diameter of inlet collar.
2. ** Drain is 1/2" NPT tapped hole in low point of housing and furnished with plug.
3. All dimensions in inches.
4. Refer to Service Manual for installation, operation and maintenance instructions.
5. Fan is equipped with Accessory Item as checked in Accessory Item Chart. See drawing noted for any dimensional changes.

FAN SIZE	A	B	C	D	E	F	G	H	J	L	N	O	P	R	S	T	U	V	W	Y	AS	BA	BB	BH	CA	CB	CH	DA	DB	DH	EA	FA	GA	HA	SHAFT EXTENSION DIA. LEHT.	KEYWAY IN DRIVE HUB	APPROX. FAN WGT. LBS.†
5	17½	15¾	25¾	5	¾	1½	9	6¾	3¾	6½	14¾	13¾	4¾	5¾	4¾	4¾	4	5½	2	1	20¾	14¾	7½	17½	15½	6½	15½	18½	11¾	15¾	16½	16½	1¾	4¼	77		
6	20½	18¾	26¾	6	¾	1¾	10¾	8¾	3¾	6¾	14½	13¾	4½	5½	5	4½	5¾	4½	5½	2	1	24½	17¾	9½	20½	18	8½	18½	22½	13¾	19	19½	19½	20½	1¾	4¼	104
7	24	21¼	29¾	7	¾	1¾	12¾	9½	4¾	7½	17¾	15¾	5½	6½	5½	5¼	6½	5¼	6½	2	1	28½	20¼	11½	23¾	21	9½	21½	26½	15½	22¼	22½	23¾	23½	1¾	4¼	149
8	27½	24½	30¾	8	¾	1¾	14¾	10¾	4½	8¾	17¾	15¾	5½	6½	6½	6½	7½	5¾	7½	2½	1½	32½	22½	12½	26¾	23¾	10½	24½	29½	17½	25¾	25¾	26¾	26¾	1¾	4¼	205
9	30½	27½	35	9	½	1¾	16	12	5½	9½	20½	18½	6½	7½	7½	6½	7½	6½	7½	2½	1½	36½	25¾	13¾	29½	26¾	12½	27½	32½	20½	28¼	28¾	29¾	29¾	1¾	4¼	255
10	33½	30¾	35½	10	¾	1¾	17¾	13¾	6	9½	20¾	18¾	6¾	7¾	8¾	7¾	8¾	7¾	8¾	2½	1½	40½	28¾	15½	33¾	29¾	13¾	30¾	36½	22¾	31½	32¾	32¾	33½	1¾	4¼	285