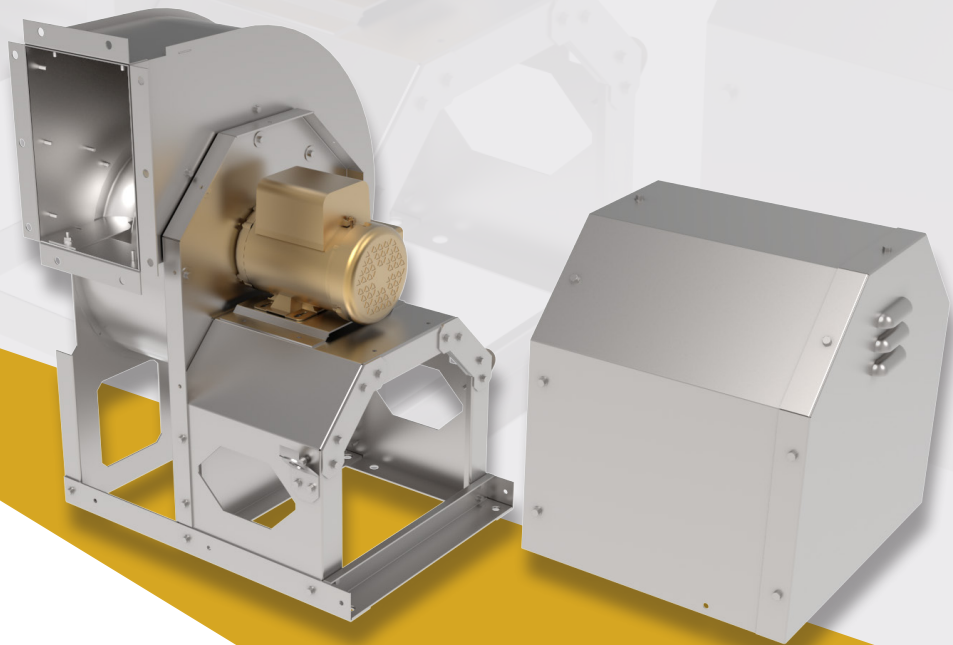


# UVS1

Utility Vent Set

## TECHNICAL SPECIFICATIONS



PENNBARRY™

BULLETIN UVS1 23

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# INTRODUCTION

PennBarry products are backed by extensive research and testing in AMCA Accredited facilities. These tests assure the customer that PennBarry products are of the highest quality in design, construction and performance. Before leaving the plant, each fan is carefully subjected to a test at the field operating rpm. Dynamic balancing is performed by experienced personnel using electronic equipment to ensure smooth and trouble-free operation.

## Commercial/Light Industrial

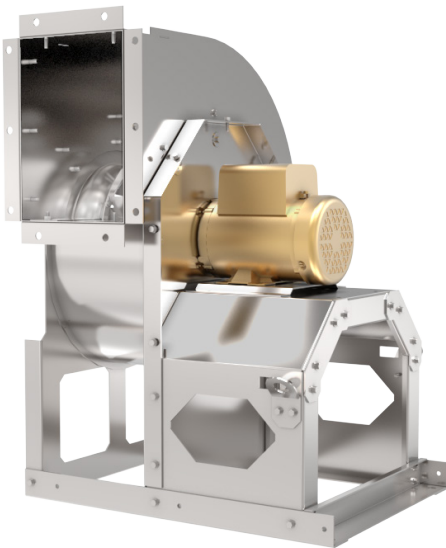
The wide range of volume capacities of the UVS Series 1 fans make them excellent for use in hotels, office buildings, manufacturing plants, and hospitals. ECM, Permanent Magnet, and Premium Efficient Induction motors used with Speed Control Devices make it easy to adjust the airflow for the greatest comfort and efficiency.

### Direct Drive

**Model: UVS1 - Fabricated Aluminum**

**Propeller** - Static pressure up to 3.5" w.g.

Direct Drive - Flow capacity up to 13,800 CFM



### Belt Drive

**Model: UVS1 - With Fabricated Aluminum**

**Propeller** - Static pressure up to 3.5" w.g.

Belt Drive - Flow capacity up to 41,300 CFM



# CERTIFICATIONS & LISTINGS



## UVS1 Fans

PennBarry certifies that the UVS1 Fans shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



## UL and cUL Certification

Standard UVS1 fans carry the UL Label, UL705 (ZACT/ZACT7), file E28413

# 060 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 2680	Max BHP: (RPM/3767) <sup>3</sup>	Outlet Area: 0.49 Sq.Ft.	Wheel Diameter: 10"	Tip Speed: 2.62 X RPM	Max Motor Frame Size: 56
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
30	61	868	0.01	1052	0.02	1207	0.03	1348	0.04	1475	0.05	1700	0.07	1899	0.10	2079	0.13	2397	0.20	2679	0.27
47	96	895	0.01	1079	0.02	1235	0.03	1372	0.04	1495	0.05	1715	0.08	1908	0.11	2088	0.14	2407	0.21		
64	131	940	0.01	1113	0.02	1261	0.03	1398	0.04	1522	0.06	1742	0.08	1936	0.11	2111	0.15	2421	0.22		
81	165	990	0.02	1159	0.03	1304	0.04	1432	0.05	1549	0.06	1769	0.09	1963	0.12	2138	0.15	2449	0.23		
98	200	1045	0.02	1209	0.03	1350	0.04	1478	0.06	1594	0.07	1800	0.10	1989	0.13	2165	0.16	2476	0.24		
115	235	1111	0.03	1261	0.04	1401	0.05	1526	0.06	1640	0.08	1845	0.11	2027	0.14	2191	0.17	2502	0.25		
132	269	1181	0.03	1326	0.04	1453	0.06	1577	0.07	1689	0.09	1891	0.12	2072	0.15	2236	0.19	2529	0.26		
149	304	1261	0.04	1393	0.05	1517	0.07	1629	0.08	1741	0.10	1941	0.13	2119	0.16	2282	0.20	2573	0.28		
166	339	1343	0.05	1467	0.06	1584	0.07	1694	0.09	1795	0.11	1992	0.14	2168	0.18	2328	0.22	2619	0.30		
183	373	1427	0.05	1547	0.07	1653	0.08	1761	0.10	1860	0.12	2044	0.16	2219	0.20	2378	0.24	2665	0.33		
200	408	1513	0.07	1628	0.08	1732	0.10	1829	0.11	1927	0.13	2105	0.17	2271	0.21	2429	0.26				
217	443	1601	0.08	1712	0.09	1813	0.11	1906	0.13	1995	0.15	2170	0.19	2328	0.23	2481	0.28				
234	478	1690	0.09	1797	0.11	1895	0.13	1986	0.15	2071	0.17	2237	0.21	2393	0.25	2536	0.30				
251	512	1780	0.11	1884	0.13	1979	0.15	2067	0.17	2150	0.19	2305	0.23	2459	0.28	2601	0.33				
268	547	1872	0.12	1972	0.14	2064	0.16	2150	0.19	2231	0.21	2381	0.25	2526	0.30	2667	0.35				
285	582	1965	0.14	2061	0.16	2150	0.19	2234	0.21	2313	0.23	2460	0.28	2595	0.33						
302	616	2058	0.16	2152	0.19	2238	0.21	2320	0.23	2397	0.26	2541	0.31	2673	0.36						
319	651	2151	0.18	2243	0.21	2327	0.23	2406	0.26	2481	0.29	2622	0.34								
336	686	2244	0.21	2335	0.24	2417	0.26	2494	0.29	2567	0.32										
353	720	2339	0.24	2428	0.27	2507	0.29	2582	0.32	2654	0.35										
370	755	2433	0.27	2521	0.30	2599	0.33	2672	0.35												
387	790	2529	0.30	2614	0.33																
404	824	2624	0.33																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 070 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 2680	Max BHP: (RPM/3556) <sup>3</sup>	Outlet Area: 0.49 Sq.Ft.	Wheel Diameter: 10"	Tip Speed: 2.62 X RPM	Max Motor Frame Size: 56
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 5/16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
100	204	878	0.01	1057	0.02																
130	265	918	0.02	1083	0.03	1230	0.04	1364	0.05												
160	327	974	0.02	1126	0.03	1261	0.04	1390	0.06	1508	0.07	1726	0.10								
190	388	1039	0.03	1182	0.04	1309	0.05	1423	0.06	1538	0.08	1746	0.11	1930	0.14	2114	0.18				
220	449	1106	0.03	1244	0.04	1365	0.06	1478	0.07	1581	0.09	1777	0.12	1960	0.16	2126	0.20	2441	0.28		
250	510	1179	0.04	1310	0.05	1428	0.06	1534	0.08	1636	0.10	1818	0.13	1991	0.17	2156	0.21	2451	0.30	2624	0.36
280	571	1257	0.04	1379	0.06	1494	0.07	1597	0.09	1693	0.11	1873	0.15	2033	0.19	2187	0.23	2481	0.32	2646	0.38
310	633	1337	0.05	1454	0.07	1561	0.08	1663	0.10	1757	0.12	1929	0.16	2088	0.20	2233	0.25	2512	0.34	2677	0.40
340	694	1418	0.06	1532	0.07	1633	0.09	1731	0.11	1823	0.13	1990	0.18	2144	0.22	2288	0.27	2546	0.37		
370	755	1502	0.07	1611	0.09	1710	0.10	1800	0.13	1890	0.15	2055	0.19	2203	0.24	2344	0.29	2601	0.39		
400	816	1587	0.08	1692	0.10	1788	0.12	1876	0.14	1959	0.16	2121	0.21	2268	0.26	2402	0.31	2656	0.42		
430	878	1673	0.09	1775	0.11	1868	0.13	1954	0.16	2035	0.18	2189	0.23	2334	0.28	2467	0.33				
460	939	1760	0.11	1858	0.13	1949	0.15	2033	0.17	2112	0.20	2258	0.25	2400	0.30	2532	0.36				
490	1000	1848	0.13	1943	0.15	2031	0.17	2113	0.19	2190	0.22	2333	0.27	2468	0.32	2598	0.38				
520	1061	1938	0.14	2029	0.17	2115	0.19	2194	0.21	2270	0.24	2410	0.29	2538	0.35	2666	0.41				
550	1122	2028	0.17	2117	0.19	2199	0.21	2277	0.24	2350	0.26	2487	0.32	2614	0.38						
580	1184	2120	0.19	2204	0.21	2285	0.24	2360	0.26	2432	0.29	2566	0.35								
610	1245	2212	0.21	2293	0.24	2371	0.27	2445	0.29	2515	0.32	2646	0.38								
640	1306	2305	0.24	2383	0.27	2458	0.30	2530	0.32	2599	0.35										
670	1367	2398	0.27	2473	0.30	2546	0.33	2616	0.36												
700	1429	2492	0.30	2565	0.33	2635	0.36														
730	1490	2586	0.34	2657	0.37																
760	1551	2680	0.38																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 080 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 2680		Max BHP: (RPM/3477) <sup>3</sup>				Outlet Area: 0.49 Sq.Ft.				Wheel Diameter: 10"				Tip Speed: 2.62 X RPM				Max Motor Frame Size: 56			
CFM	OV	1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 7/16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
150	306	902	0.02	1072	0.03	1218	0.04	1355	0.05												
185	378	953	0.02	1106	0.03	1248	0.04	1376	0.06	1492	0.07										
220	449	1011	0.03	1158	0.04	1287	0.05	1407	0.06	1523	0.08	1729	0.11	1917	0.15						
255	520	1073	0.03	1213	0.04	1338	0.06	1452	0.07	1555	0.09	1759	0.12	1941	0.16	2105	0.20				
290	592	1142	0.04	1274	0.05	1393	0.07	1503	0.08	1606	0.10	1791	0.14	1971	0.17	2135	0.21	2426	0.30	2675	0.39
325	663	1214	0.04	1338	0.06	1454	0.07	1559	0.09	1658	0.11	1840	0.15	2003	0.19	2166	0.23	2457	0.32		
360	735	1287	0.05	1408	0.07	1516	0.08	1619	0.10	1714	0.12	1892	0.16	2052	0.20	2199	0.25	2488	0.35		
395	806	1359	0.06	1480	0.08	1584	0.09	1681	0.11	1775	0.13	1944	0.18	2104	0.22	2249	0.27	2519	0.37		
430	878	1431	0.07	1553	0.09	1655	0.11	1748	0.13	1837	0.15	2004	0.19	2156	0.24	2300	0.29	2559	0.39		
465	949	1504	0.08	1626	0.10	1727	0.12	1818	0.14	1903	0.16	2065	0.21	2213	0.26	2353	0.31	2610	0.42		
500	1020	1579	0.09	1697	0.12	1801	0.14	1890	0.16	1973	0.18	2128	0.23	2274	0.28	2409	0.33	2661	0.45		
535	1092	1658	0.11	1770	0.13	1874	0.15	1963	0.18	2044	0.20	2193	0.25	2336	0.30	2469	0.36				
570	1163	1746	0.13	1843	0.15	1945	0.17	2037	0.20	2117	0.22	2263	0.27	2398	0.32	2530	0.38				
605	1235	1834	0.15	1918	0.17	2017	0.19	2109	0.22	2190	0.25	2334	0.30	2466	0.35	2593	0.41				
640	1306	1923	0.17	1994	0.19	2090	0.22	2180	0.24	2264	0.27	2406	0.33	2536	0.38	2656	0.44				
675	1378	2013	0.19	2080	0.22	2164	0.24	2252	0.27	2335	0.30	2479	0.36	2607	0.41						
710	1449	2103	0.22	2168	0.24	2239	0.27	2325	0.30	2406	0.33	2553	0.39	2679	0.45						
745	1520	2194	0.25	2256	0.27	2316	0.30	2399	0.33	2479	0.36	2627	0.42								
780	1592	2285	0.28	2345	0.31	2403	0.33	2474	0.36	2552	0.40										
815	1663	2376	0.31	2435	0.34	2491	0.37	2549	0.40	2626	0.43										
850	1735	2468	0.35	2525	0.38	2580	0.41	2632	0.44												
885	1806	2560	0.39	2615	0.42	2668	0.45														
920	1878	2653	0.43																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.



# 100 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 2680	Max BHP: (RPM/3225) <sup>3</sup>	Outlet Area: 0.49 Sq.Ft.	Wheel Diameter: 10"	Tip Speed: 2.62 X RPM	Max Motor Frame Size: 56
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
250	510	896	0.02	1048	0.03	1199	0.04														
300	612	943	0.02	1092	0.04	1220	0.05	1346	0.06	1466	0.08										
350	714	994	0.03	1138	0.04	1264	0.06	1376	0.07	1481	0.09	1694	0.12								
400	816	1059	0.04	1188	0.05	1310	0.06	1421	0.08	1522	0.09	1709	0.13	1896	0.17						
450	918	1127	0.04	1243	0.06	1360	0.07	1468	0.09	1567	0.11	1748	0.14	1912	0.18	2081	0.23				
500	1020	1199	0.05	1310	0.07	1410	0.08	1517	0.10	1615	0.12	1792	0.16	1951	0.20	2096	0.24	2397	0.34		
550	1122	1278	0.06	1378	0.08	1476	0.10	1567	0.11	1664	0.13	1838	0.17	1995	0.22	2139	0.26	2412	0.36	2677	0.47
600	1224	1359	0.07	1449	0.09	1543	0.11	1630	0.13	1715	0.15	1887	0.19	2041	0.23	2184	0.28	2439	0.38		
650	1327	1441	0.09	1528	0.11	1612	0.13	1697	0.14	1776	0.17	1936	0.21	2089	0.26	2229	0.30	2483	0.41		
700	1429	1525	0.10	1608	0.12	1684	0.14	1766	0.16	1843	0.19	1987	0.23	2138	0.28	2276	0.33	2528	0.44		
750	1531	1609	0.12	1689	0.14	1763	0.16	1835	0.18	1911	0.21	2050	0.25	2188	0.30	2326	0.36	2573	0.47		
800	1633	1694	0.14	1771	0.16	1843	0.19	1910	0.21	1980	0.23	2117	0.28	2242	0.33	2376	0.39	2620	0.50		
850	1735	1780	0.17	1855	0.19	1924	0.21	1989	0.23	2051	0.26	2185	0.31	2308	0.36	2426	0.42	2669	0.54		
900	1837	1865	0.19	1939	0.21	2006	0.24	2070	0.26	2130	0.29	2254	0.34	2374	0.40	2487	0.45				
950	1939	1952	0.22	2024	0.24	2089	0.27	2151	0.30	2209	0.32	2323	0.37	2442	0.43	2553	0.49				
1000	2041	2038	0.25	2110	0.28	2173	0.30	2233	0.33	2290	0.36	2397	0.41	2511	0.47	2620	0.53				
1050	2143	2126	0.28	2195	0.31	2257	0.34	2316	0.37	2371	0.39	2476	0.45	2581	0.51						
1100	2245	2214	0.32	2280	0.35	2343	0.38	2399	0.41	2453	0.44	2556	0.50	2652	0.56						
1150	2347	2302	0.36	2367	0.39	2428	0.42	2483	0.45	2536	0.48	2636	0.54								
1200	2449	2391	0.40	2453	0.43	2513	0.47	2568	0.50	2620	0.53										
1250	2551	2480	0.44	2541	0.48	2599	0.51	2654	0.55												
1300	2653	2570	0.49	2628	0.53																
1350	2755	2659	0.55																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 122 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 2600	Max BHP: (RPM/2301) <sup>3</sup>	Outlet Area: 0.734 Sq.Ft.	Wheel Diameter: 12.25"	Tip Speed: 3.21 X RPM	Max Motor Frame Size: 145T
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/2" SP		2" SP		2 1/2" SP		3" SP		3 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
300	409	698	0.02																		
395	538	741	0.03	865	0.05	982	0.07														
490	668	792	0.04	911	0.06	1015	0.08	1203	0.12												
585	797	853	0.05	961	0.07	1061	0.09	1236	0.14	1393	0.19										
680	926	923	0.07	1018	0.09	1112	0.11	1282	0.16	1429	0.22	1700	0.34								
775	1056	1000	0.08	1088	0.11	1169	0.13	1331	0.18	1475	0.24	1722	0.37	1961	0.52						
870	1185	1082	0.10	1159	0.13	1238	0.16	1383	0.21	1524	0.27	1768	0.41	1977	0.56	2193	0.73				
965	1315	1167	0.13	1238	0.16	1308	0.18	1443	0.24	1575	0.31	1814	0.45	2022	0.61	2209	0.78	2404	0.97		
1060	1444	1253	0.16	1321	0.19	1383	0.22	1512	0.28	1627	0.35	1863	0.50	2068	0.66	2252	0.84	2420	1.02	2600	1.23
1155	1574	1341	0.20	1405	0.23	1465	0.26	1582	0.32	1695	0.40	1914	0.55	2115	0.72	2298	0.91	2464	1.10		
1250	1703	1429	0.24	1491	0.27	1548	0.30	1654	0.37	1765	0.45	1966	0.61	2165	0.79	2344	0.98	2510	1.18		
1345	1832	1517	0.28	1578	0.32	1633	0.36	1734	0.43	1835	0.51	2026	0.67	2217	0.86	2393	1.05	2556	1.26		
1440	1962	1607	0.33	1666	0.37	1719	0.41	1816	0.49	1908	0.57	2094	0.75	2269	0.93	2444	1.14				
1535	2091	1697	0.39	1754	0.44	1805	0.48	1900	0.56	1986	0.64	2164	0.83	2326	1.02	2495	1.23				
1630	2221	1787	0.46	1842	0.50	1893	0.55	1984	0.64	2068	0.73	2235	0.92	2395	1.12	2548	1.33				
1725	2350	1879	0.53	1931	0.58	1981	0.63	2070	0.72	2152	0.82	2307	1.01	2464	1.22						
1820	2480	1971	0.62	2021	0.67	2069	0.72	2156	0.81	2236	0.91	2382	1.11	2534	1.33						
1915	2609	2063	0.71	2111	0.76	2158	0.81	2243	0.92	2321	1.02	2463	1.23								
2010	2738	2156	0.81	2202	0.86	2247	0.91	2331	1.03	2406	1.13	2545	1.35								
2105	2868	2249	0.91	2294	0.97	2337	1.03	2420	1.15	2493	1.26										
2200	2997	2342	1.03	2385	1.09	2427	1.15	2507	1.27	2580	1.39										
2295	3127	2436	1.16	2477	1.22	2518	1.29	2596	1.41												
2390	3256	2529	1.30	2570	1.36																

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 135 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 2332	Max BHP: (RPM/1958) <sup>3</sup>	Outlet Area: 0.891 Sq.Ft.	Wheel Diameter: 13.5"	Tip Speed: 3.53 X RPM	Max Motor Frame Size: 145T
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/2" SP		2" SP		2 1/2" SP		3" SP		3 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
300	337	625	0.03																		
420	471	651	0.03	772	0.05	883	0.08														
540	606	696	0.04	806	0.06	901	0.09	1085	0.14	1243	0.20										
660	741	747	0.06	852	0.08	944	0.10	1103	0.16	1257	0.22	1523	0.37								
780	875	812	0.07	901	0.10	991	0.12	1146	0.18	1280	0.25	1537	0.40	1759	0.58						
900	1010	881	0.09	964	0.12	1040	0.15	1191	0.21	1323	0.28	1551	0.44	1774	0.62	1970	0.82	2154	1.04		
1020	1145	958	0.12	1031	0.15	1103	0.18	1240	0.25	1368	0.32	1591	0.48	1789	0.67	1985	0.87	2163	1.10	2326	1.33
1140	1279	1038	0.15	1103	0.18	1169	0.21	1292	0.28	1416	0.36	1634	0.53	1824	0.72	2000	0.93	2178	1.16		
1260	1414	1119	0.19	1181	0.22	1238	0.25	1357	0.33	1465	0.41	1680	0.59	1867	0.79	2034	1.00	2193	1.23		
1380	1549	1201	0.23	1260	0.27	1314	0.30	1423	0.38	1526	0.47	1728	0.66	1911	0.86	2077	1.08	2228	1.32		
1500	1684	1284	0.28	1341	0.32	1393	0.36	1491	0.44	1591	0.53	1777	0.73	1958	0.94	2120	1.17	2271	1.41		
1620	1818	1367	0.34	1423	0.38	1472	0.42	1565	0.51	1658	0.61	1831	0.81	2006	1.03	2166	1.27	2314	1.52		
1740	1953	1452	0.40	1505	0.45	1553	0.50	1642	0.59	1726	0.69	1896	0.90	2055	1.13	2214	1.37				
1860	2088	1537	0.48	1589	0.53	1635	0.58	1721	0.68	1800	0.78	1961	1.00	2109	1.23	2263	1.49				
1980	2222	1622	0.56	1672	0.61	1718	0.67	1801	0.77	1877	0.88	2028	1.11	2173	1.35	2312	1.61				
2100	2357	1708	0.65	1756	0.71	1801	0.77	1881	0.88	1956	1.00	2096	1.23	2239	1.49						
2220	2492	1795	0.76	1841	0.82	1884	0.88	1963	1.00	2035	1.12	2167	1.36	2305	1.63						
2340	2626	1882	0.87	1926	0.94	1968	1.00	2045	1.13	2115	1.25	2244	1.51								
2460	2761	1970	1.00	2012	1.07	2052	1.13	2129	1.27	2196	1.40	2322	1.67								
2580	2896	2058	1.14	2098	1.21	2137	1.28	2212	1.42	2278	1.56										
2700	3030	2146	1.29	2185	1.36	2223	1.44	2295	1.59												
2820	3165	2234	1.45	2272	1.53	2308	1.61														
2940	3300	2323	1.63																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 150 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 2099	Max BHP: (RPM/1643) <sup>3</sup>	Outlet Area: 1.1 Sq.Ft.	Wheel Diameter: 15"	Tip Speed: 3.93 X RPM	Max Motor Frame Size: 184T
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/2" SP		2" SP		2 1/2" SP		3" SP		3 3/8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
400	364	565	0.03																		
545	495	593	0.04	697	0.07	797	0.10														
690	627	633	0.06	732	0.08	817	0.11	979	0.18												
835	759	680	0.07	773	0.10	855	0.13	998	0.20	1134	0.28										
980	891	738	0.09	816	0.12	897	0.16	1036	0.23	1157	0.31	1384	0.50								
1125	1023	799	0.12	873	0.15	940	0.18	1076	0.27	1195	0.35	1398	0.54	1598	0.77						
1270	1155	867	0.15	932	0.18	997	0.22	1119	0.31	1234	0.40	1435	0.60	1611	0.82	1788	1.08				
1415	1286	937	0.19	996	0.22	1055	0.27	1166	0.35	1277	0.45	1473	0.66	1643	0.90	1801	1.15	1961	1.44	2072	1.66
1560	1418	1009	0.23	1065	0.27	1116	0.32	1223	0.41	1320	0.51	1513	0.73	1681	0.98	1831	1.24	1974	1.52	2085	1.75
1705	1550	1082	0.28	1135	0.33	1184	0.38	1281	0.47	1374	0.58	1556	0.81	1720	1.06	1869	1.34	2005	1.62		
1850	1682	1155	0.34	1206	0.39	1253	0.44	1341	0.55	1431	0.66	1599	0.90	1761	1.16	1908	1.44	2043	1.74		
1995	1814	1228	0.41	1278	0.47	1323	0.52	1406	0.63	1490	0.75	1646	0.99	1804	1.27	1948	1.56	2082	1.87		
2140	1945	1302	0.49	1351	0.55	1394	0.61	1474	0.72	1550	0.84	1703	1.10	1847	1.38	1990	1.69				
2285	2077	1377	0.58	1424	0.64	1466	0.70	1543	0.83	1615	0.95	1761	1.23	1894	1.51	2033	1.83				
2430	2209	1452	0.68	1497	0.75	1539	0.81	1614	0.94	1683	1.08	1820	1.36	1950	1.66	2076	1.97				
2575	2341	1528	0.79	1571	0.86	1612	0.93	1685	1.07	1752	1.21	1879	1.50	2008	1.82						
2720	2473	1605	0.92	1646	0.99	1685	1.06	1756	1.21	1821	1.36	1941	1.66	2066	1.98						
2865	2605	1681	1.05	1721	1.13	1759	1.21	1829	1.37	1892	1.52	2008	1.83								
3010	2736	1758	1.20	1797	1.29	1833	1.37	1902	1.53	1963	1.69	2077	2.02								
3155	2868	1836	1.37	1872	1.45	1908	1.54	1975	1.71	2035	1.88										
3300	3000	1913	1.55	1949	1.64	1983	1.73	2048	1.91												
3445	3132	1991	1.74	2025	1.84	2058	1.93														
3590	3264	2069	1.96																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 165 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 2000	Max BHP: (RPM/1401) <sup>3</sup>	Outlet Area: 1.332 Sq.Ft.	Wheel Diameter: 16.5"	Tip Speed: 4.32 X RPM	Max Motor Frame Size: 184T
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/2" SP		2" SP		2 1/2" SP		3" SP		3 3/4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
500	375	515	0.04																		
685	514	544	0.05	636	0.08	727	0.12														
870	653	583	0.07	672	0.10	750	0.14	892	0.22												
1055	792	631	0.09	712	0.13	787	0.17	916	0.25	1034	0.35										
1240	931	688	0.12	758	0.16	827	0.20	953	0.29	1062	0.39	1262	0.62								
1425	1070	749	0.15	813	0.20	873	0.24	992	0.34	1099	0.45	1282	0.68	1457	0.96						
1610	1209	815	0.20	870	0.24	928	0.29	1034	0.39	1138	0.51	1319	0.76	1474	1.03	1630	1.34				
1795	1348	883	0.25	935	0.30	985	0.35	1084	0.46	1179	0.58	1356	0.84	1510	1.13	1647	1.44	1788	1.78		
1980	1486	952	0.31	1001	0.36	1047	0.42	1139	0.54	1224	0.66	1396	0.94	1547	1.24	1683	1.56	1807	1.90	1997	2.47
2165	1625	1022	0.38	1069	0.44	1112	0.50	1196	0.62	1279	0.75	1437	1.04	1585	1.35	1720	1.69	1843	2.05		
2350	1764	1092	0.47	1138	0.53	1179	0.59	1256	0.72	1335	0.86	1479	1.16	1626	1.49	1757	1.83	1880	2.21		
2535	1903	1163	0.56	1207	0.63	1247	0.70	1321	0.84	1392	0.98	1532	1.29	1667	1.63	1797	1.99	1917	2.37		
2720	2042	1234	0.67	1278	0.75	1316	0.82	1387	0.97	1452	1.12	1587	1.44	1709	1.79	1838	2.17	1956	2.56		
2905	2181	1307	0.80	1348	0.88	1386	0.96	1454	1.11	1517	1.27	1643	1.61	1762	1.97	1880	2.35	1997	2.76		
3090	2320	1379	0.94	1419	1.02	1456	1.11	1522	1.27	1583	1.44	1700	1.79	1817	2.16	1924	2.55				
3275	2459	1452	1.09	1490	1.18	1526	1.27	1591	1.45	1650	1.63	1759	1.99	1873	2.38	1979	2.79				
3460	2598	1526	1.27	1562	1.36	1597	1.46	1660	1.64	1718	1.83	1824	2.21	1930	2.61						
3645	2736	1600	1.46	1634	1.56	1668	1.66	1730	1.86	1786	2.05	1889	2.45	1987	2.86						
3830	2875	1674	1.67	1707	1.77	1739	1.88	1801	2.09	1855	2.30	1955	2.71								
4015	3014	1748	1.90	1780	2.01	1811	2.12	1871	2.35	1924	2.56										
4200	3153	1823	2.15	1854	2.27	1884	2.39	1941	2.62	1994	2.85										
4385	3292	1898	2.43	1928	2.55	1956	2.67														
4570	3431	1973	2.73																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 182 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 1670	Max BHP: (RPM/1173) <sup>3</sup>	Outlet Area: 1.632 Sq.Ft.	Wheel Diameter: 18.25"	Tip Speed: 4.78 X RPM	Max Motor Frame Size: 184T
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/2" SP		2" SP		2 1/2" SP		3" SP		3 7/16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	368	451	0.04																		
850	521	463	0.05	557	0.09	638	0.12														
1100	674	488	0.07	570	0.10	647	0.14	783	0.23	898	0.33										
1350	827	525	0.09	598	0.12	664	0.17	793	0.27	908	0.37	1100	0.60								
1600	980	566	0.11	635	0.15	696	0.20	810	0.30	919	0.42	1109	0.67	1272	0.94	1416	1.22				
1850	1134	613	0.14	675	0.19	733	0.23	837	0.34	935	0.46	1119	0.73	1281	1.03	1424	1.34	1553	1.66		
2100	1287	666	0.18	717	0.23	774	0.28	873	0.39	961	0.51	1134	0.80	1291	1.12	1434	1.45	1563	1.80	1667	2.11
2350	1440	720	0.23	768	0.28	815	0.33	912	0.45	997	0.58	1151	0.87	1305	1.21	1443	1.56	1572	1.93		
2600	1593	775	0.28	821	0.34	863	0.40	952	0.52	1035	0.66	1181	0.95	1321	1.29	1457	1.67	1582	2.07		
2850	1746	835	0.35	875	0.41	916	0.47	993	0.60	1075	0.75	1217	1.05	1342	1.39	1473	1.78	1596	2.20		
3100	1900	896	0.43	931	0.49	969	0.56	1040	0.70	1115	0.85	1254	1.16	1378	1.52	1490	1.90	1612	2.33		
3350	2053	958	0.51	989	0.58	1024	0.65	1092	0.80	1157	0.96	1293	1.29	1414	1.66	1524	2.05	1629	2.47		
3600	2206	1021	0.62	1050	0.69	1079	0.76	1145	0.92	1205	1.08	1334	1.44	1451	1.80	1560	2.21	1660	2.64		
3850	2359	1083	0.73	1111	0.81	1138	0.89	1199	1.05	1257	1.22	1375	1.59	1491	1.98	1597	2.39				
4100	2512	1146	0.86	1173	0.94	1198	1.02	1253	1.20	1310	1.38	1417	1.76	1531	2.16	1634	2.58				
4350	2665	1210	1.01	1235	1.09	1259	1.18	1309	1.36	1363	1.55	1463	1.94	1572	2.37						
4600	2819	1274	1.17	1298	1.26	1321	1.35	1365	1.54	1418	1.74	1515	2.15	1613	2.58						
4850	2972	1338	1.35	1361	1.45	1383	1.54	1426	1.74	1473	1.94	1568	2.37	1655	2.81						
5100	3125	1402	1.55	1424	1.65	1445	1.75	1487	1.95	1528	2.16	1621	2.61								
5350	3278	1466	1.77	1488	1.88	1508	1.98	1548	2.19	1586	2.41										
5600	3431	1531	2.01	1551	2.12	1571	2.23	1610	2.45	1646	2.67										
5850	3585	1596	2.27	1615	2.38	1634	2.49														
6100	3738	1660	2.55																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 200 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 1434	Max BHP: (RPM/1010) <sup>3</sup>	Outlet Area: 1.962 Sq.Ft.	Wheel Diameter: 20"	Tip Speed: 5.24 X RPM	Max Motor Frame Size: 184T
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP		3" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
700	357	411	0.05																		
975	497	420	0.06	507	0.10	581	0.14														
1250	637	437	0.08	517	0.12	589	0.17	713	0.27	817	0.38										
1525	777	468	0.10	535	0.14	601	0.19	721	0.31	825	0.43	917	0.56	1001	0.70						
1800	917	501	0.12	565	0.17	622	0.22	733	0.34	833	0.48	926	0.62	1009	0.77	1157	1.08				
2075	1058	536	0.15	598	0.20	652	0.26	748	0.38	846	0.53	934	0.68	1017	0.84	1165	1.18	1295	1.54		
2350	1198	580	0.19	632	0.25	685	0.30	778	0.43	860	0.58	947	0.74	1026	0.91	1173	1.28	1303	1.66	1421	2.07
2625	1338	624	0.24	670	0.29	719	0.36	808	0.49	888	0.64	961	0.80	1040	0.99	1181	1.38	1311	1.78	1429	2.21
2900	1478	670	0.29	713	0.35	754	0.42	841	0.56	919	0.72	989	0.89	1054	1.06	1194	1.47	1319	1.91		
3175	1618	717	0.35	758	0.42	796	0.49	875	0.64	950	0.81	1020	0.98	1084	1.17	1208	1.57	1332	2.03		
3450	1758	767	0.43	803	0.50	840	0.58	910	0.74	984	0.91	1051	1.08	1114	1.28	1228	1.69	1346	2.15		
3725	1899	818	0.51	850	0.59	885	0.67	949	0.84	1018	1.02	1084	1.21	1145	1.40	1258	1.83	1360	2.28		
4000	2039	870	0.61	898	0.69	930	0.77	992	0.95	1053	1.14	1118	1.34	1177	1.54	1288	1.98	1388	2.44		
4275	2179	922	0.72	949	0.81	977	0.89	1037	1.08	1092	1.28	1152	1.48	1211	1.69	1319	2.14	1418	2.62		
4550	2319	974	0.84	1000	0.93	1025	1.03	1082	1.22	1135	1.43	1187	1.64	1245	1.86	1351	2.32				
4825	2459	1027	0.98	1052	1.08	1075	1.17	1127	1.38	1179	1.59	1228	1.81	1280	2.04	1385	2.52				
5100	2599	1080	1.14	1104	1.24	1126	1.34	1173	1.55	1224	1.78	1271	2.00	1316	2.24	1419	2.74				
5375	2740	1133	1.31	1156	1.41	1177	1.52	1220	1.74	1269	1.97	1315	2.21	1359	2.45						
5650	2880	1187	1.50	1208	1.60	1229	1.72	1269	1.94	1315	2.19	1360	2.44	1402	2.69						
5925	3020	1240	1.70	1261	1.82	1281	1.93	1320	2.17	1361	2.42	1405	2.68								
6200	3160	1294	1.93	1314	2.05	1333	2.17	1371	2.42	1407	2.67										
6475	3300	1348	2.17	1367	2.30	1386	2.42	1422	2.68												
6750	3440	1402	2.44	1420	2.57																

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 222 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 1429	Max BHP: (RPM/844) <sup>3</sup>	Outlet Area: 2.424 Sq.Ft.	Wheel Diameter: 22.25"	Tip Speed: 5.83 X RPM	Max Motor Frame Size: 215T
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/2" SP		2" SP		2 1/2" SP		3" SP		3 3/4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
800	330	368	0.06																		
1195	493	377	0.08	455	0.12	522	0.18														
1590	656	397	0.10	466	0.15	530	0.21	642	0.34	736	0.48										
1985	819	429	0.13	489	0.18	544	0.25	650	0.39	744	0.55	902	0.89								
2380	982	464	0.17	521	0.23	571	0.29	664	0.44	753	0.62	910	0.99	1043	1.39	1161	1.82				
2775	1145	505	0.21	556	0.28	604	0.35	688	0.51	768	0.69	919	1.10	1051	1.53	1168	1.99	1274	2.48		
3170	1308	552	0.28	593	0.35	639	0.43	720	0.59	792	0.78	932	1.20	1060	1.68	1177	2.17	1283	2.70	1426	3.52
3565	1471	599	0.35	638	0.43	675	0.51	754	0.69	824	0.88	946	1.31	1073	1.82	1185	2.35	1291	2.91		
3960	1634	648	0.44	685	0.53	719	0.62	790	0.81	857	1.01	976	1.45	1087	1.96	1198	2.52	1300	3.13		
4355	1797	701	0.55	732	0.64	765	0.74	826	0.94	892	1.16	1008	1.62	1110	2.13	1213	2.70	1313	3.33		
4750	1960	755	0.68	781	0.78	812	0.88	869	1.09	928	1.32	1041	1.80	1142	2.34	1232	2.90	1328	3.54		
5145	2123	809	0.83	833	0.93	860	1.04	915	1.27	965	1.50	1076	2.02	1173	2.55	1263	3.15	1345	3.77		
5540	2285	863	1.00	887	1.11	909	1.22	961	1.46	1010	1.71	1111	2.25	1207	2.81	1295	3.42	1376	4.07		
5935	2448	918	1.20	940	1.31	961	1.43	1009	1.69	1056	1.95	1147	2.50	1241	3.09	1327	3.71	1408	4.39		
6330	2611	973	1.42	994	1.54	1015	1.67	1057	1.93	1102	2.21	1185	2.78	1277	3.41	1361	4.05				
6725	2774	1029	1.67	1049	1.80	1068	1.93	1105	2.20	1149	2.49	1230	3.10	1313	3.74	1396	4.41				
7120	2937	1085	1.94	1104	2.08	1122	2.22	1158	2.51	1197	2.81	1275	3.44	1349	4.09						
7515	3100	1141	2.25	1159	2.40	1177	2.55	1211	2.85	1246	3.16	1322	3.82	1391	4.49						
7910	3263	1197	2.59	1214	2.74	1231	2.90	1264	3.21	1295	3.53	1369	4.23								
8305	3426	1253	2.97	1270	3.13	1286	3.29	1318	3.62	1348	3.95	1416	4.66								
8700	3589	1309	3.37	1326	3.55	1341	3.71	1372	4.06	1401	4.41										
9095	3752	1366	3.83	1381	4.00	1397	4.18	1426	4.54												
9490	3915	1423	4.32																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.



# 245 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 1388	Max BHP: (RPM/718) <sup>3</sup>	Outlet Area: 2.935 Sq.Ft.	Wheel Diameter: 24.5"	Tip Speed: 6.41 X RPM	Max Motor Frame Size: 215T
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CFM	OV	1/4" SP		1/2" SP		1" SP		1 1/2" SP		2" SP		2 1/2" SP		3" SP		3 1/2" SP		4" SP		4 1/4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	409	338	0.08																		
1640	559	347	0.10	477	0.23																
2080	709	369	0.13	485	0.27	670	0.60														
2520	859	397	0.16	497	0.31	677	0.68	821	1.10												
2960	1009	427	0.21	523	0.36	686	0.76	828	1.22	948	1.71	1055	2.25								
3400	1158	462	0.27	551	0.43	698	0.84	835	1.34	955	1.87	1062	2.44	1158	3.03						
3840	1308	501	0.34	580	0.52	719	0.94	846	1.45	962	2.03	1069	2.64	1165	3.27	1253	3.92	1336	4.61	1375	4.96
4280	1458	540	0.42	610	0.61	746	1.06	858	1.57	973	2.19	1076	2.84	1172	3.50	1260	4.19	1343	4.92	1382	5.29
4720	1608	581	0.52	646	0.73	773	1.19	882	1.73	985	2.34	1086	3.03	1179	3.74	1267	4.47	1350	5.23		
5160	1758	625	0.64	684	0.86	802	1.35	908	1.91	1001	2.52	1098	3.22	1190	3.98	1275	4.76	1357	5.55		
5600	1908	669	0.77	723	1.01	832	1.53	935	2.10	1027	2.74	1110	3.42	1201	4.20	1286	5.03	1364	5.87		
6040	2058	714	0.93	763	1.18	862	1.73	964	2.33	1054	2.99	1135	3.69	1213	4.44	1297	5.29	1376	6.18		
6480	2208	759	1.11	803	1.37	897	1.95	993	2.58	1080	3.24	1162	3.99	1236	4.75	1309	5.57	1388	6.49		
6920	2358	805	1.31	846	1.59	935	2.20	1023	2.85	1109	3.55	1188	4.29	1262	5.10	1330	5.92				
7360	2508	851	1.54	890	1.83	973	2.47	1053	3.14	1138	3.87	1215	4.63	1288	5.45	1356	6.31				
7800	2658	897	1.79	934	2.10	1012	2.76	1086	3.46	1168	4.23	1244	5.01	1315	5.84	1382	6.72				
8240	2807	943	2.07	979	2.40	1052	3.10	1124	3.82	1198	4.61	1274	5.44	1343	6.27						
8680	2957	990	2.39	1024	2.73	1092	3.45	1162	4.21	1229	5.01	1303	5.87	1372	6.74						
9120	3107	1037	2.74	1069	3.09	1132	3.83	1201	4.63	1264	5.45	1333	6.33								
9560	3257	1084	3.12	1115	3.49	1173	4.25	1240	5.08	1302	5.94	1364	6.84								
10000	3407	1130	3.52	1161	3.92	1217	4.71	1280	5.58	1340	6.46										
10880	3707	1225	4.47	1253	4.89	1306	5.75	1360	6.66												
11760	4007	1319	5.56	1346	6.02																

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 270 BELT & DIRECT DRIVE - AIR PERFORMANCE

Maximum RPM: 1138		Max BHP: (RPM/611) <sup>3</sup>		Outlet Area: 3.574 Sq.Ft.		Wheel Diameter: 27"		Tip Speed: 7.07 X RPM		Max Motor Frame Size: 215T												
CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/2" SP		2" SP		2 1/2" SP		3" SP		3 1/2" SP		
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
1300	364	305	0.09																			
1760	492	311	0.11	375	0.18	430	0.26															
2220	621	321	0.14	382	0.21	435	0.30	527	0.48													
2680	750	342	0.17	392	0.25	443	0.34	533	0.54	610	0.76											
3140	879	364	0.21	412	0.29	455	0.38	540	0.61	616	0.85	746	1.36									
3600	1007	388	0.26	434	0.35	475	0.44	549	0.67	623	0.93	751	1.48	861	2.09	957	2.73					
4060	1136	415	0.31	457	0.41	496	0.51	566	0.74	632	1.01	757	1.61	866	2.25	963	2.93	1050	3.65			
4520	1265	445	0.38	480	0.49	519	0.60	587	0.84	646	1.10	765	1.73	872	2.42	968	3.13	1055	3.88	1136	4.68	
4980	1393	476	0.47	509	0.58	542	0.69	608	0.95	667	1.23	774	1.85	879	2.58	974	3.35	1061	4.14			
5440	1522	507	0.56	538	0.68	567	0.80	631	1.07	688	1.36	787	1.99	888	2.74	980	3.56	1066	4.38			
5900	1651	539	0.67	569	0.80	597	0.93	654	1.21	710	1.51	808	2.17	897	2.90	989	3.75	1072	4.64			
6360	1780	574	0.80	600	0.93	627	1.07	678	1.37	732	1.68	828	2.36	913	3.11	998	3.95	1081	4.87			
6820	1908	609	0.94	632	1.08	658	1.23	705	1.54	756	1.87	849	2.56	933	3.34	1008	4.17	1091	5.12			
7280	2037	644	1.11	665	1.25	689	1.41	735	1.74	779	2.07	872	2.80	954	3.60	1028	4.45	1100	5.37			
7740	2166	679	1.29	699	1.44	720	1.60	765	1.95	805	2.29	895	3.06	974	3.86	1048	4.75	1116	5.68			
8200	2294	715	1.50	734	1.66	752	1.82	795	2.18	835	2.55	918	3.34	996	4.16	1069	5.07	1136	6.02			
8660	2423	750	1.72	769	1.89	786	2.06	826	2.44	865	2.82	941	3.63	1019	4.50	1090	5.41					
9120	2552	786	1.97	804	2.15	821	2.33	857	2.71	895	3.12	965	3.95	1042	4.85	1112	5.78					
9580	2680	822	2.24	839	2.43	856	2.62	889	3.02	926	3.44	993	4.30	1065	5.22	1134	6.19					
10500	2938	895	2.87	911	3.08	926	3.28	955	3.70	988	4.16	1052	5.08	1113	6.05							
11420	3195	968	3.61	983	3.84	997	4.06	1024	4.51	1051	4.98	1113	5.98									
12340	3453	1041	4.47	1055	4.72	1068	4.95	1094	5.44	1119	5.94											
13260	3710	1115	5.48	1128	5.74																	

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 300 BELT DRIVE - AIR PERFORMANCE

Maximum RPM: 1024		Max BHP: (RPM/512) <sup>3</sup>		Outlet Area: 4.414 Sq.Ft.		Wheel Diameter: 30"		Tip Speed: 7.85 X RPM		Max Motor Frame Size: 256T											
CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/2" SP		2" SP		2 1/2" SP		3" SP		3 1/2" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1400	317	272	0.11																		
1925	436	277	0.13	335	0.21																
2450	555	284	0.15	340	0.24	389	0.34	472	0.56												
2975	674	297	0.18	347	0.28	394	0.39	477	0.63	546	0.88										
3500	793	314	0.22	359	0.32	402	0.44	481	0.70	551	0.97	668	1.58								
4025	912	333	0.27	376	0.38	414	0.49	488	0.77	555	1.07	672	1.72	771	2.43						
4550	1031	353	0.33	394	0.44	431	0.56	496	0.84	562	1.16	677	1.86	775	2.61	862	3.41				
5075	1150	376	0.39	413	0.52	449	0.65	512	0.93	570	1.26	681	2.00	780	2.80	867	3.64	945	4.53		
5600	1269	401	0.48	433	0.60	468	0.74	529	1.04	582	1.37	689	2.14	785	2.99	871	3.87	950	4.81	1022	5.78
6125	1388	427	0.57	457	0.71	487	0.85	547	1.16	599	1.50	697	2.28	790	3.17	876	4.11	955	5.10		
6650	1507	453	0.68	481	0.82	508	0.98	565	1.30	617	1.66	707	2.44	798	3.36	881	4.36	959	5.37		
7175	1626	479	0.80	507	0.96	532	1.12	585	1.46	635	1.83	723	2.63	806	3.55	888	4.57	964	5.67		
7700	1744	508	0.94	533	1.11	557	1.27	604	1.63	654	2.02	741	2.85	817	3.77	896	4.81	971	5.94		
8225	1863	537	1.10	559	1.27	582	1.45	625	1.82	673	2.23	758	3.08	833	4.02	904	5.05	979	6.22		
8750	1982	566	1.28	585	1.45	608	1.64	650	2.04	692	2.44	776	3.33	850	4.30	917	5.34	986	6.49		
9275	2101	595	1.47	614	1.66	634	1.86	675	2.27	712	2.69	795	3.62	868	4.61	934	5.67	995	6.79		
9800	2220	625	1.70	643	1.90	660	2.09	700	2.52	736	2.96	814	3.92	885	4.91	951	6.02	1012	7.19		
10850	2458	684	2.20	701	2.42	716	2.63	751	3.10	786	3.58	853	4.59	923	5.67	986	6.79				
11900	2696	744	2.81	760	3.05	774	3.28	803	3.77	837	4.30	897	5.36	962	6.52	1024	7.72				
12950	2934	805	3.54	819	3.79	833	4.05	859	4.56	888	5.11	946	6.26	1001	7.45						
14000	3172	866	4.38	879	4.65	892	4.93	916	5.47	941	6.05	997	7.29								
15050	3410	927	5.35	939	5.64	951	5.93	975	6.53	997	7.13										
16100	3647	988	6.46	999	6.76	1011	7.08														

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 330 BELT DRIVE - AIR PERFORMANCE

Maximum RPM: 962	Max BHP: (RPM/438) <sup>3</sup>	Outlet Area: 5.328 Sq.Ft.	Wheel Diameter: 33"	Tip Speed: 8.64 X RPM	Max Motor Frame Size: 286T
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/2" SP		2" SP		2 1/2" SP		3" SP		3 3/4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1700	319	248	0.13																		
2315	434	252	0.16	305	0.25																
2930	550	257	0.18	309	0.29	354	0.41	429	0.67												
3545	665	268	0.22	315	0.34	358	0.47	433	0.75	496	1.06										
4160	781	284	0.26	324	0.38	364	0.52	437	0.83	500	1.16	607	1.90								
4775	896	300	0.32	339	0.44	374	0.58	443	0.92	504	1.27	611	2.06	700	2.90						
5390	1012	317	0.38	355	0.52	389	0.67	449	0.99	510	1.39	615	2.22	704	3.12	783	4.08				
6005	1127	337	0.46	372	0.60	404	0.75	462	1.10	517	1.50	619	2.39	708	3.33	787	4.35	859	5.42		
6620	1242	359	0.55	389	0.70	421	0.87	477	1.23	526	1.62	624	2.54	712	3.56	791	4.62	863	5.75	959	7.50
7235	1358	382	0.66	409	0.82	438	0.99	492	1.36	541	1.78	631	2.71	717	3.79	795	4.89	867	6.07		
7850	1473	404	0.78	431	0.95	455	1.13	509	1.53	556	1.95	638	2.88	723	3.99	799	5.18	871	6.41		
8465	1589	427	0.91	453	1.10	476	1.29	526	1.71	571	2.13	652	3.10	730	4.21	805	5.44	875	6.74		
9080	1704	452	1.07	475	1.26	498	1.47	543	1.90	588	2.35	667	3.34	737	4.44	812	5.72	880	7.06		
9695	1820	477	1.25	498	1.45	520	1.67	560	2.11	605	2.59	683	3.61	751	4.73	819	6.00	887	7.39		
10925	2050	529	1.67	546	1.89	565	2.12	603	2.61	639	3.12	715	4.22	781	5.39	842	6.67	901	8.06		
12155	2281	581	2.19	596	2.42	612	2.68	647	3.20	680	3.76	748	4.92	813	6.16	872	7.50	927	8.92		
13385	2512	633	2.81	648	3.08	662	3.34	692	3.90	724	4.50	783	5.73	846	7.06	903	8.42	957	9.92		
14615	2743	686	3.54	700	3.84	713	4.13	739	4.72	768	5.35	823	6.67	880	8.06	936	9.52				
15845	2974	739	4.41	752	4.72	764	5.02	788	5.67	814	6.33	867	7.75	915	9.18						
17075	3205	793	5.42	805	5.75	816	6.07	839	6.76	860	7.44	911	8.95	957	10.47						
18305	3436	846	6.55	858	6.92	869	7.28	890	8.00	910	8.72	956	10.30								
19535	3666	900	7.86	911	8.25	921	8.62	942	9.41	961	10.18										
20765	3897	954	9.34																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 365 BELT DRIVE - AIR PERFORMANCE

CFM		OV		1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP		3" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2100	322	224	0.16																				
2750	421	227	0.19	275	0.30																		
3400	521	231	0.22	278	0.35	319	0.49																
4050	620	238	0.25	282	0.39	322	0.54	390	0.88	448	1.24												
4700	720	249	0.29	288	0.44	326	0.60	393	0.96	450	1.35	501	1.77										
5350	820	262	0.34	298	0.49	332	0.66	396	1.05	454	1.48	504	1.92	550	2.39								
6000	919	275	0.40	310	0.56	341	0.73	401	1.13	457	1.59	507	2.06	553	2.56	634	3.61						
6650	1019	288	0.47	322	0.64	353	0.82	407	1.23	461	1.70	510	2.20	556	2.73	637	3.84	708	5.01				
7300	1118	304	0.56	335	0.73	365	0.92	417	1.34	467	1.82	515	2.36	559	2.91	640	4.06	711	5.29	776	6.60		
7950	1218	321	0.65	349	0.84	378	1.04	428	1.46	473	1.95	520	2.50	563	3.07	643	4.30	715	5.60	779	6.94		
8600	1318	338	0.76	363	0.95	391	1.16	440	1.60	484	2.10	525	2.64	569	3.26	646	4.53	718	5.88	782	7.28		
9250	1417	356	0.88	380	1.08	404	1.30	453	1.77	496	2.28	535	2.83	574	3.42	651	4.76	721	6.18	785	7.62		
9900	1517	374	1.02	397	1.23	419	1.46	466	1.95	508	2.47	546	3.03	582	3.63	656	4.98	724	6.46				
11200	1716	412	1.34	432	1.57	453	1.83	493	2.36	533	2.91	570	3.49	605	4.13	668	5.48	735	7.04				
12500	1915	451	1.73	468	1.99	487	2.26	522	2.82	560	3.43	596	4.06	629	4.70	691	6.14	746	7.63				
13800	2114	492	2.22	507	2.50	523	2.78	556	3.38	587	4.02	622	4.69	655	5.40	714	6.84	769	8.45				
15100	2313	532	2.78	546	3.08	560	3.39	591	4.04	621	4.73	649	5.41	681	6.16	739	7.68						
16400	2513	573	3.44	586	3.76	599	4.10	627	4.80	655	5.52	681	6.25	708	7.02	765	8.64						
17700	2712	615	4.23	627	4.57	639	4.92	663	5.65	690	6.42	715	7.20	739	7.99								
19000	2911	656	5.11	668	5.49	679	5.85	701	6.62	725	7.42	750	8.27	773	9.10								
20300	3110	698	6.13	709	6.52	720	6.93	740	7.71	761	8.55	785	9.44										
21600	3309	740	7.27	750	7.68	760	8.09	780	8.96														
22900	3509	782	8.55																				

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 402 BELT DRIVE - AIR PERFORMANCE

Maximum RPM: 683	Max BHP: (RPM/314) <sup>3</sup>	Outlet Area: 7.935 Sq.Ft.	Wheel Diameter: 40.25"	Tip Speed: 10.54 X RPM	Max Motor Frame Size: 286T
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP		2 3/4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2500	315	203	0.19																		
3210	405	205	0.22	249	0.36																
3920	494	208	0.25	252	0.41	288	0.57														
4630	583	213	0.29	254	0.45	291	0.64	353	1.03												
5340	673	221	0.33	259	0.50	294	0.70	355	1.12	407	1.58										
6050	762	231	0.38	264	0.55	298	0.76	358	1.22	410	1.71	455	2.22	497	2.76						
6760	852	241	0.44	274	0.63	302	0.83	361	1.32	412	1.83	458	2.39	499	2.96						
7470	941	252	0.51	283	0.70	311	0.91	365	1.41	415	1.97	461	2.55	502	3.15	575	4.44				
8180	1031	263	0.59	294	0.79	321	1.01	369	1.50	419	2.09	463	2.71	504	3.34	578	4.70	643	6.15	673	6.86
8890	1120	276	0.68	304	0.89	331	1.12	378	1.63	423	2.21	467	2.87	507	3.54	581	4.96	645	6.44	675	7.23
9600	1210	290	0.78	315	1.00	341	1.24	388	1.78	428	2.35	471	3.02	510	3.72	583	5.20	648	6.77	678	7.58
11020	1389	318	1.02	340	1.27	363	1.53	407	2.09	447	2.72	482	3.37	519	4.10	589	5.72	653	7.41	683	8.28
12440	1568	347	1.32	368	1.59	387	1.87	429	2.49	466	3.12	501	3.83	533	4.56	598	6.22	659	8.03		
13860	1747	379	1.70	397	1.99	415	2.29	450	2.93	487	3.62	520	4.33	552	5.13	609	6.78	668	8.66		
15280	1926	411	2.13	426	2.44	444	2.79	475	3.46	509	4.21	541	4.96	571	5.74	628	7.51	678	9.35		
16700	2105	444	2.66	458	3.00	473	3.36	503	4.08	531	4.85	563	5.67	593	6.53	647	8.30				
18120	2284	477	3.27	490	3.63	502	3.99	531	4.78	558	5.60	585	6.45	614	7.34	667	9.19				
19540	2463	510	3.97	522	4.35	534	4.75	560	5.58	586	6.45	610	7.33	636	8.27						
20960	2641	544	4.79	555	5.18	566	5.60	589	6.47	614	7.39	638	8.35	660	9.30						
22380	2820	578	5.71	589	6.15	599	6.58	619	7.47	643	8.45	666	9.46								
23800	2999	612	6.75	622	7.20	632	7.67	651	8.61	672	9.62										
25220	3178	646	7.91	655	8.37	665	8.88														
26640	3357	680	9.19																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 445 BELT DRIVE - AIR PERFORMANCE

Maximum RPM: 636	Max BHP: (RPM/266) <sup>3</sup>	Outlet Area: 9.7 Sq.Ft.	Wheel Diameter: 44.5"	Tip Speed: 11.65 X RPM	Max Motor Frame Size: 286T
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP		2 15/16" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3100	320	184	0.24																		
3950	407	186	0.27	225	0.44																
4800	495	189	0.31	228	0.50	261	0.70														
5650	582	192	0.35	230	0.56	263	0.78	319	1.26												
6500	670	200	0.40	234	0.61	265	0.85	321	1.37	368	1.93										
7350	758	208	0.46	239	0.68	269	0.93	323	1.48	370	2.07	412	2.72								
8200	845	217	0.53	247	0.76	273	1.00	326	1.60	373	2.24	414	2.90	452	3.62						
9050	933	227	0.61	255	0.84	281	1.11	330	1.71	375	2.39	416	3.08	454	3.84	520	5.40				
9900	1021	237	0.71	265	0.96	289	1.22	334	1.83	378	2.53	419	3.30	456	4.06	523	5.72	581	7.46		
11600	1196	260	0.93	284	1.21	307	1.49	349	2.13	386	2.84	426	3.67	461	4.52	527	6.31	586	8.23	632	9.94
13300	1371	285	1.22	305	1.51	326	1.83	367	2.52	402	3.26	434	4.05	469	4.98	532	6.93	590	8.97		
15000	1546	311	1.57	330	1.90	347	2.23	385	2.97	419	3.74	451	4.61	480	5.50	540	7.54	595	9.72		
16700	1722	338	1.99	355	2.35	372	2.73	405	3.52	438	4.35	468	5.21	497	6.17	548	8.15	603	10.48		
18400	1897	367	2.52	381	2.89	397	3.30	426	4.13	457	5.02	487	5.96	514	6.90	565	9.03	611	11.26		
20100	2072	396	3.13	409	3.54	423	3.97	450	4.84	477	5.79	506	6.78	532	7.76	582	9.96	627	12.30		
21800	2247	425	3.83	437	4.27	449	4.72	475	5.66	500	6.66	525	7.68	551	8.74	599	10.96				
23500	2423	455	4.66	466	5.12	477	5.60	501	6.61	524	7.63	546	8.70	571	9.85	618	12.20				
25200	2598	485	5.61	495	6.09	505	6.58	527	7.66	549	8.74	571	9.90	591	11.05						
26900	2773	514	6.64	524	7.17	534	7.71	553	8.82	575	10.00	595	11.15	615	12.39						
28600	2948	544	7.84	554	8.42	563	8.97	581	10.14	600	11.32	620	12.57								
30300	3124	575	9.22	584	9.81	592	10.36	609	11.57	626	12.81										
32000	3299	605	10.71	613	11.29	622	11.95														
33700	3474	635	12.34																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 490 BELT DRIVE - AIR PERFORMANCE

Maximum RPM: 542	Max BHP: (RPM/226) <sup>3</sup>	Outlet Area: 11.74 Sq.Ft.	Wheel Diameter: 49"	Tip Speed: 12.83 X RPM	Max Motor Frame Size: 286T
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CFM	OV	1/4" SP		3/8" SP		1/2" SP		3/4" SP		1" SP		1 1/4" SP		1 1/2" SP		2" SP		2 1/2" SP		2 5/8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3700	315	167	0.28																		
4600	392	168	0.32	204	0.52																
5500	468	170	0.36	206	0.58	236	0.82														
6400	545	173	0.40	208	0.64	238	0.90	289	1.46												
7300	622	177	0.45	210	0.70	240	0.98	290	1.57	334	2.24										
8200	698	184	0.51	213	0.76	242	1.06	292	1.70	335	2.40	373	3.13								
9100	775	191	0.57	218	0.83	245	1.14	294	1.82	337	2.56	374	3.32	408	4.14						
10000	852	198	0.65	225	0.93	248	1.22	296	1.94	339	2.73	376	3.53	410	4.38						
11800	1005	213	0.83	239	1.13	261	1.45	302	2.18	343	3.04	380	3.95	414	4.88	474	6.84	527	8.94	540	9.44
13600	1158	231	1.06	254	1.39	275	1.73	314	2.51	349	3.36	385	4.34	417	5.35	478	7.50	531	9.75		
15400	1312	251	1.35	269	1.69	290	2.07	327	2.87	360	3.77	391	4.74	423	5.82	481	8.13	534	10.52		
17200	1465	271	1.69	289	2.07	306	2.47	342	3.34	373	4.24	402	5.25	429	6.30	487	8.78	538	11.37		
19000	1618	292	2.10	309	2.52	324	2.93	357	3.86	387	4.80	416	5.88	442	6.98	493	9.42				
20800	1772	314	2.58	329	3.02	344	3.49	372	4.43	402	5.46	430	6.56	455	7.69	502	10.17				
22600	1925	337	3.15	350	3.62	364	4.11	390	5.12	418	6.23	444	7.32	469	8.50	515	11.08				
24400	2078	360	3.80	371	4.28	384	4.80	409	5.88	433	7.01	459	8.20	484	9.46	529	12.11				
26200	2232	383	4.54	394	5.07	405	5.61	429	6.75	451	7.92	475	9.19	499	10.50	542	13.13				
28000	2385	407	5.41	417	5.95	427	6.53	449	7.71	471	8.98	491	10.25	514	11.60						
29800	2538	430	6.34	440	6.94	449	7.52	470	8.81	491	10.13	510	11.44	530	12.85						
31600	2692	454	7.43	463	8.03	472	8.66	490	9.95	511	11.38	530	12.79								
33400	2845	478	8.63	486	9.23	495	9.92	512	11.30	531	12.73										
35200	2998	501	9.90	510	10.62	518	11.29	534	12.71												
37000	3152	525	11.36	533	12.06	541	12.79														

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.



# 542 BELT DRIVE - AIR PERFORMANCE

CFM		OV		1/4" SP		3/8" SP		1/2" SP		5/8" SP		3/4" SP		7/8" SP		1" SP		1 1/4" SP		1 1/2" SP		1 7/8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4500	312	151	0.35																				
5400	375	152	0.39																				
6300	437	153	0.42	185	0.68																		
7200	500	155	0.47	187	0.75	214	1.05	238	1.37														
8100	562	157	0.50	188	0.80	215	1.12	239	1.46	261	1.83												
9000	625	160	0.55	190	0.86	217	1.21	241	1.57	262	1.94	282	2.33	301	2.74								
9900	687	165	0.61	192	0.92	218	1.29	242	1.67	264	2.07	284	2.49	302	2.90								
11700	812	175	0.74	200	1.08	223	1.45	246	1.88	266	2.30	286	2.75	305	3.23	339	4.21	370	5.25				
13500	937	186	0.91	210	1.27	231	1.66	250	2.07	271	2.56	290	3.05	308	3.57	342	4.62	372	5.70	414	7.46		
15300	1062	198	1.12	221	1.51	241	1.91	259	2.34	276	2.81	294	3.32	312	3.88	344	5.01	375	6.20	417	8.07		
17100	1187	212	1.36	232	1.77	251	2.19	269	2.65	286	3.16	301	3.65	316	4.18	349	5.42	378	6.69				
18900	1312	227	1.66	244	2.09	262	2.54	280	3.04	296	3.54	311	4.07	325	4.61	353	5.80	382	7.13				
20700	1437	242	2.00	258	2.46	274	2.94	291	3.46	306	3.96	321	4.52	335	5.10	361	6.31	387	7.65				
22500	1561	257	2.39	272	2.86	287	3.40	302	3.92	317	4.47	332	5.07	345	5.62	371	6.91	395	8.26				
24300	1686	273	2.84	287	3.35	301	3.90	314	4.46	329	5.06	343	5.66	356	6.26	381	7.55	405	8.98				
26100	1811	290	3.36	302	3.89	315	4.45	328	5.06	340	5.65	354	6.30	367	6.94	392	8.30	415	9.73				
27900	1936	306	3.92	317	4.48	330	5.09	342	5.71	354	6.37	365	6.98	378	7.67	403	9.12						
29700	2061	323	4.57	334	5.20	345	5.80	357	6.47	368	7.12	379	7.82	390	8.51	414	9.99						
31500	2186	340	5.29	350	5.93	360	6.57	372	7.29	383	8.00	393	8.69	403	9.41								
33300	2311	358	6.14	367	6.78	376	7.45	387	8.18	397	8.88	407	9.61	417	10.39								
35100	2436	375	7.02	384	7.71	393	8.43	402	9.14	412	9.89												
36900	2561	392	7.99	401	8.73	409	9.44	417	10.17														
38700	2686	410	9.10	418	9.83																		

Performance certified is for installation type B – Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances.

# 060 | BELT & DIRECT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
1000	0.00	64	66	68	59	51	46	40	34	62
	0.13	64	66	68	58	50	46	39	33	62
	0.19	64	66	68	57	50	45	39	33	61
	0.25	64	66	68	56	49	45	39	33	61
1200	0.00	67	72	72	65	57	52	46	39	67
	0.13	67	72	72	64	56	52	45	39	66
	0.25	66	72	72	63	55	51	45	39	66
	0.50	66	70	70	61	53	50	44	39	64
1400	0.00	70	74	75	68	62	56	51	44	70
	0.25	68	74	75	68	61	56	50	43	70
	0.38	68	74	75	67	60	55	49	43	70
	0.63	68	73	74	66	58	54	49	43	69
1600	0.00	72	76	78	72	66	60	55	48	74
	0.25	70	76	78	71	65	59	54	48	73
	0.50	69	76	78	71	64	58	53	47	73
	0.75	69	75	77	70	63	58	53	47	72
2000	0.00	75	79	82	78	74	66	61	55	79
	0.38	72	79	81	78	73	66	61	55	79
	0.75	71	79	81	77	72	65	60	54	78
	1.25	71	79	80	76	71	63	60	54	77
2400	0.00	78	82	87	82	80	72	67	61	84
	0.75	73	81	87	81	79	71	66	60	84
	1.25	74	81	87	81	78	69	66	60	83
	2.00	72	81	85	79	76	68	65	60	82
2680	0.00	81	84	88	85	82	75	70	64	87
	0.75	76	83	88	85	82	74	70	64	87
	1.50	76	82	88	84	81	73	69	63	86
	2.50	74	82	87	82	79	72	68	63	84

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
1000	0.00	63	66	67	61	58	52	43	35	63
	0.13	64	67	67	60	57	51	43	34	63
	0.19	64	67	67	60	57	51	42	34	63
	0.25	64	67	67	60	57	51	42	34	63
1200	0.00	66	71	71	65	63	58	50	41	68
	0.13	67	71	71	64	62	57	49	41	68
	0.25	67	71	71	64	62	57	49	40	68
	0.50	67	71	71	64	62	57	48	40	68
1400	0.00	71	73	74	69	67	62	55	46	72
	0.25	72	73	74	69	66	62	54	46	72
	0.38	73	73	74	69	66	62	54	45	72
	0.63	73	74	75	69	66	61	54	45	71
1600	0.00	76	75	77	73	70	66	59	51	76
	0.25	77	75	77	73	69	66	59	50	75
	0.50	78	76	77	73	69	65	58	50	75
	0.75	78	76	77	72	69	65	58	50	75
2000	0.00	84	78	82	81	76	73	67	58	82
	0.38	86	79	82	81	75	72	66	58	81
	0.75	86	79	82	80	75	72	66	58	81
	1.25	86	79	82	80	75	72	66	57	81
2400	0.00	90	81	86	85	80	78	73	65	86
	0.75	92	82	86	84	79	77	72	64	86
	1.25	93	82	86	84	79	77	72	64	86
	2.00	93	82	86	84	79	77	72	63	86
2680	0.00	92	85	87	87	83	81	76	68	89
	0.75	95	86	88	87	83	80	75	68	89
	1.50	95	86	88	87	82	80	75	67	88
	2.50	95	86	88	87	82	80	75	67	88

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 070 | BELT & DIRECT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
1000	0.00	67	67	69	59	52	47	42	38	63
	0.13	65	67	68	58	51	46	41	37	62
	0.19	65	67	68	58	51	46	41	36	62
	0.25	65	67	69	58	51	46	41	36	62
1200	0.00	70	73	73	65	58	52	47	43	67
	0.13	69	72	72	64	57	51	47	42	67
	0.25	68	72	72	64	56	51	46	41	67
	0.38	68	73	73	64	56	51	46	41	67
1400	0.00	71	75	76	69	63	57	52	47	71
	0.25	69	75	75	68	61	56	51	46	70
	0.38	69	75	76	68	61	56	51	46	71
	0.63	68	74	75	67	60	56	51	46	69
1600	0.00	71	78	79	72	67	61	56	51	74
	0.25	70	77	78	72	66	60	55	50	74
	0.50	70	77	79	72	66	59	55	50	74
	0.75	70	76	78	71	65	59	55	49	73
2000	0.00	71	82	82	79	74	67	62	57	80
	0.38	72	81	82	79	73	66	61	57	80
	0.75	72	80	82	79	73	66	61	56	80
	1.25	72	79	81	77	72	65	61	56	78
2400	0.00	72	85	88	83	80	73	67	62	85
	0.75	73	83	87	83	79	71	66	62	84
	1.13	74	83	87	83	79	71	66	61	85
	1.50	74	83	88	83	79	71	66	61	85
2680	0.00	74	85	90	86	83	76	70	66	88
	0.75	75	84	89	86	82	75	70	65	87
	1.50	76	84	89	86	82	75	69	64	87
	2.30	76	83	88	84	81	74	69	65	86

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
1000	0.00	65	66	66	59	56	50	43	36	62
	0.13	68	65	66	57	54	48	41	33	61
	0.19	70	65	66	56	53	47	39	32	60
	0.25	71	65	65	55	52	46	38	31	60
1200	0.00	69	70	70	64	61	56	49	42	67
	0.13	72	70	70	63	60	55	47	40	66
	0.25	75	70	70	61	58	53	46	38	65
	0.38	78	69	69	60	57	52	44	37	64
1400	0.00	73	73	73	68	65	61	54	47	71
	0.25	77	74	73	67	63	59	52	44	70
	0.38	78	74	73	66	62	57	50	43	69
	0.63	81	75	73	64	60	55	48	41	68
1600	0.00	77	76	76	72	68	64	58	51	74
	0.25	79	77	76	71	67	63	56	49	73
	0.50	81	78	76	70	65	61	55	47	73
	0.75	82	80	75	69	64	59	53	45	72
2000	0.00	83	80	81	81	74	71	65	58	81
	0.38	85	83	81	79	73	69	64	56	80
	0.75	85	85	80	79	71	68	62	55	79
	1.25	84	88	80	78	69	66	60	52	79
2400	0.00	88	84	85	84	79	76	71	64	85
	0.75	89	89	85	83	77	74	69	61	84
	1.13	88	91	85	83	76	73	68	60	84
	1.50	87	93	84	82	75	72	67	59	84
2680	0.00	91	87	87	87	82	79	74	68	88
	0.75	92	90	88	86	81	77	73	66	87
	1.50	90	93	88	85	79	76	71	64	87
	2.30	88	96	88	85	77	74	69	62	87

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 080 | BELT & DIRECT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
1000	0.00	70	68	69	60	53	48	43	39	63
	0.13	70	68	69	59	52	47	43	38	63
	0.19	68	68	69	59	51	47	42	37	63
	0.25	66	67	69	58	51	47	42	36	62
1200	0.00	74	73	73	66	58	53	49	44	68
	0.13	74	73	73	65	57	53	48	43	68
	0.25	73	73	73	65	57	52	48	43	67
	0.38	69	73	73	64	56	52	47	42	67
1400	0.00	74	77	76	70	63	58	53	48	72
	0.25	74	76	76	69	62	57	52	48	71
	0.38	73	76	76	69	62	57	52	47	71
	0.63	70	74	75	67	61	56	51	46	70
1600	0.00	73	80	79	73	67	61	57	52	75
	0.25	74	80	79	73	67	61	56	52	75
	0.50	73	79	79	72	66	60	56	51	74
	0.75	72	77	78	71	65	60	55	50	74
2000	0.00	73	85	83	79	75	68	63	58	81
	0.38	73	85	83	79	74	67	63	58	81
	0.75	74	83	83	79	74	66	62	57	80
	1.25	74	80	81	78	73	66	62	57	79
2400	0.00	72	89	88	83	81	73	68	64	86
	0.75	73	89	88	83	80	72	68	63	85
	1.13	75	87	88	83	80	71	67	62	85
	1.50	77	84	88	83	79	71	67	62	85
2680	0.00	75	89	91	86	83	77	71	67	89
	0.75	75	89	91	86	83	76	71	66	88
	1.50	78	87	90	86	83	75	70	65	88
	2.40	78	84	88	84	81	74	70	65	86

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
1000	0.00	68	67	67	59	56	51	44	37	63
	0.13	68	65	66	57	54	48	42	35	61
	0.19	67	65	66	56	53	47	41	34	60
	0.25	65	64	65	55	52	46	40	33	60
1200	0.00	72	71	71	64	61	57	50	43	67
	0.13	75	70	70	63	60	55	48	41	66
	0.25	72	70	70	61	58	53	47	40	65
	0.38	69	69	69	60	57	51	45	39	64
1400	0.00	76	75	74	68	65	61	55	48	71
	0.25	77	74	73	67	63	59	52	45	70
	0.38	75	73	73	66	62	57	51	45	69
	0.63	70	72	72	64	60	55	49	43	67
1600	0.00	79	78	77	72	69	65	59	52	75
	0.25	81	78	76	71	67	63	57	50	74
	0.50	77	76	76	70	65	61	55	49	72
	0.75	74	75	75	68	64	59	53	47	71
2000	0.00	84	83	82	80	74	71	66	59	81
	0.38	86	84	81	79	73	70	64	57	80
	0.75	83	82	80	78	71	68	62	56	79
	1.25	78	78	79	76	69	65	60	54	77
2400	0.00	89	87	86	84	79	77	72	65	86
	0.75	89	88	85	83	77	74	69	62	84
	1.13	87	86	85	82	76	73	68	61	83
	1.50	84	84	84	81	75	72	66	60	82
2680	0.00	91	90	89	87	82	79	75	68	89
	0.75	92	92	88	86	81	77	73	66	87
	1.50	89	88	87	84	79	76	71	64	86
	2.40	84	84	86	83	77	73	68	62	84

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

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RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
1000	0.00	64	67	68	60	55	51	45	39	63
	0.13	64	67	68	59	53	50	44	38	63
	0.19	64	67	68	59	53	49	43	37	63
	0.25	64	67	68	58	52	48	43	37	62
1200	0.00	67	72	72	66	60	57	51	45	68
	0.13	67	72	72	65	59	56	50	44	68
	0.25	67	72	72	65	58	55	49	43	67
	0.50	67	71	71	62	55	53	49	44	65
1400	0.00	69	74	75	70	64	61	55	49	72
	0.25	68	74	76	69	63	59	54	48	71
	0.38	68	74	76	69	62	59	53	47	71
	0.63	68	74	75	67	61	57	53	48	70
1600	0.00	70	76	78	74	69	64	60	53	75
	0.25	70	76	78	73	68	63	58	52	75
	0.50	68	76	78	72	66	62	57	51	74
	0.75	68	76	78	71	65	61	57	51	73
2000	0.00	72	79	83	81	76	70	66	60	82
	0.38	72	79	82	80	75	69	65	59	81
	0.75	70	79	82	79	74	68	64	58	80
	1.25	69	79	81	77	72	66	63	58	79
2400	0.00	74	82	87	85	81	75	72	66	86
	0.75	73	82	87	84	80	73	71	64	85
	1.50	67	81	87	83	79	72	69	63	84
	2.00	72	82	86	80	77	70	68	64	83
2680	0.00	77	83	88	88	84	78	75	69	89
	0.75	76	83	89	87	83	77	74	68	88
	1.50	72	82	89	86	82	76	72	67	87
	2.50	74	83	88	84	80	74	71	67	85

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
1000	0.00	60	62	63	58	56	52	45	38	61
	0.13	59	64	64	57	54	50	43	35	61
	0.19	59	63	65	57	54	49	41	34	60
	0.25	58	63	66	56	53	47	40	32	60
1200	0.00	63	66	68	63	61	58	51	44	66
	0.13	62	66	70	62	60	56	49	42	66
	0.25	62	66	72	61	59	55	47	40	66
	0.50	59	64	75	60	57	51	44	36	67
1400	0.00	67	68	71	67	65	62	55	48	70
	0.25	66	69	73	67	63	60	53	46	70
	0.38	65	68	74	67	62	59	52	45	70
	0.63	63	67	75	67	61	56	49	42	70
1600	0.00	71	71	73	71	68	65	60	53	73
	0.25	70	71	75	72	67	64	58	51	73
	0.50	69	70	76	72	66	62	56	49	73
	0.75	67	69	76	72	65	61	54	47	73
2000	0.00	77	75	77	79	73	71	67	60	80
	0.38	76	74	78	81	73	70	65	58	80
	0.75	74	74	78	83	72	69	64	56	81
	1.25	71	72	78	85	71	67	61	53	83
2400	0.00	82	78	81	83	78	76	73	66	84
	0.75	81	77	81	86	77	74	71	63	85
	1.50	77	75	80	88	76	73	68	61	86
	2.00	75	74	79	90	75	72	66	59	87
2680	0.00	85	81	83	86	81	78	75	69	87
	0.75	83	80	83	88	81	77	74	67	87
	1.50	81	79	82	90	80	76	72	65	88
	2.50	77	77	81	92	80	75	70	62	90

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

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RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
1000	0.00	70	74	74	67	61	58	51	45	69
	0.13	71	74	74	66	60	57	50	44	69
	0.25	70	73	74	65	59	56	50	44	69
	0.50	70	72	73	63	57	54	49	44	67
1200	0.00	73	78	78	72	66	63	57	51	74
	0.25	73	78	78	71	64	62	56	50	74
	0.50	73	78	78	70	63	60	54	49	73
	0.75	73	77	77	68	62	60	55	50	72
1400	0.00	75	80	81	77	71	67	62	55	78
	0.38	75	81	82	75	69	66	60	54	78
	0.75	73	80	82	74	68	64	59	53	77
	1.00	74	79	80	72	67	63	59	54	75
1600	0.00	76	82	84	80	75	71	66	60	82
	0.38	76	82	85	79	74	69	65	59	81
	0.87	74	82	85	78	72	68	63	57	80
	1.25	75	82	83	76	71	67	63	58	79
2000	0.00	79	85	89	88	82	76	73	66	88
	0.75	78	86	89	86	81	75	71	65	87
	1.50	74	85	88	85	79	73	70	64	86
	2.00	76	85	87	83	78	72	69	64	84
2400	0.00	81	88	93	91	87	81	78	72	93
	1.00	80	88	93	90	86	79	77	71	92
	2.00	75	88	93	89	85	78	75	70	91
	3.00	78	88	92	86	83	77	75	70	89
2600	0.00	82	89	94	93	90	83	80	74	95
	1.25	81	89	95	92	89	82	79	73	94
	2.50	76	88	94	91	87	80	77	72	93
	3.50	80	89	93	89	85	79	77	72	91

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
1000	0.00	66	69	69	64	62	58	51	44	67
	0.13	65	69	70	64	61	56	49	42	67
	0.25	65	70	71	63	60	55	48	41	67
	0.50	63	69	73	62	58	52	44	36	67
1200	0.00	69	72	75	69	67	64	57	50	72
	0.25	68	73	77	68	66	62	55	48	72
	0.50	67	72	79	67	64	60	52	45	72
	0.75	66	70	81	66	63	57	50	42	73
1400	0.00	73	75	77	73	71	68	62	55	76
	0.38	72	75	79	73	69	66	60	52	76
	0.75	70	74	81	73	68	64	57	49	76
	1.00	69	73	82	73	67	62	55	47	76
1600	0.00	77	77	80	77	74	71	66	59	80
	0.38	76	77	81	78	73	70	64	57	79
	0.87	74	76	82	78	72	68	62	54	79
	1.25	72	75	83	78	71	66	60	52	79
2000	0.00	83	81	84	86	79	77	73	66	86
	0.75	82	81	85	88	78	76	71	64	87
	1.50	79	79	84	90	77	74	69	61	88
	2.00	77	78	84	92	77	73	67	59	89
2400	0.00	89	84	87	90	84	82	79	72	90
	1.00	87	83	88	92	83	81	77	70	91
	2.00	84	82	87	94	82	79	75	67	92
	3.00	81	81	85	96	81	78	73	65	93
2600	0.00	90	86	88	91	86	84	81	74	92
	1.25	89	86	89	94	86	83	79	72	93
	2.50	85	84	88	96	85	81	77	70	94
	3.50	83	82	87	98	85	80	75	67	95

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

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RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
900	0.00	72	74	71	66	61	57	51	45	69
	0.13	72	74	71	66	60	56	50	44	68
	0.25	72	73	70	65	59	55	49	43	67
	0.50	71	72	67	62	58	54	49	45	65
1100	0.00	75	79	79	73	67	63	57	51	75
	0.25	75	79	79	72	65	62	56	50	74
	0.50	74	79	79	70	64	61	55	49	74
	0.75	75	77	78	69	62	60	55	50	73
1400	0.00	78	83	84	80	74	70	65	58	81
	0.38	78	83	85	79	72	69	63	57	81
	0.75	76	83	85	78	71	67	62	56	80
	1.25	77	82	83	75	69	66	62	57	78
1700	0.00	80	86	89	85	80	75	71	64	86
	0.75	79	86	89	84	78	73	69	63	85
	1.25	77	86	89	83	77	72	68	62	85
	1.75	78	86	88	81	76	71	68	63	83
1900	0.00	81	88	91	88	83	78	74	68	89
	0.75	80	88	91	87	82	76	73	67	88
	1.50	77	87	91	86	81	75	71	65	88
	2.25	79	87	90	83	79	74	71	66	86
2100	0.00	82	89	93	92	86	80	77	71	92
	1.00	81	89	93	90	85	79	76	70	91
	2.00	77	89	93	89	84	77	74	68	90
	2.75	80	89	91	87	82	76	74	69	88
2332	0.00	83	91	95	94	89	83	80	74	95
	1.25	82	91	96	92	88	82	79	73	94
	2.50	77	90	95	91	87	80	77	71	93
	3.50	81	91	94	89	85	79	77	72	91

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
900	0.00	67	70	69	65	62	57	50	43	67
	0.13	67	71	70	64	61	56	49	42	67
	0.25	66	71	70	63	60	55	47	40	66
	0.50	64	71	71	62	57	51	43	36	66
1100	0.00	71	73	75	70	68	64	57	50	73
	0.25	70	74	77	69	66	62	55	48	73
	0.50	69	74	78	68	65	60	53	45	72
	0.75	67	73	80	67	63	58	50	42	73
1400	0.00	76	78	80	76	74	71	65	58	79
	0.38	75	78	82	76	73	69	63	56	79
	0.75	74	77	83	76	71	67	61	53	79
	1.25	72	76	85	76	70	65	58	50	79
1700	0.00	82	81	84	82	78	76	71	64	84
	0.75	80	81	85	83	77	74	68	61	84
	1.25	78	80	86	84	76	72	66	59	84
	1.75	76	79	86	84	75	71	64	57	84
1900	0.00	85	83	86	86	81	79	74	67	87
	0.75	84	83	87	87	80	77	73	65	87
	1.50	81	81	87	88	79	76	70	63	87
	2.25	79	80	87	89	78	74	68	60	87
2100	0.00	88	85	87	90	84	81	77	70	90
	1.00	86	84	89	92	83	80	76	68	91
	2.00	83	83	88	94	82	78	73	66	92
	2.75	81	82	88	96	81	77	71	63	93
2332	0.00	91	87	89	92	86	84	81	74	93
	1.25	89	86	90	94	85	83	79	72	93
	2.50	86	84	89	96	84	81	76	69	95
	3.50	83	83	88	98	83	80	74	67	96

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 150 | BELT & DIRECT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
800	0.00	73	74	71	66	62	57	51	44	68
	0.13	74	74	71	65	61	56	50	44	68
	0.25	74	73	70	64	59	55	49	43	67
	0.50	73	71	67	62	58	54	49	45	65
1100	0.00	78	82	82	76	70	67	60	54	78
	0.25	78	82	83	75	69	66	59	53	78
	0.50	78	82	83	74	68	64	58	53	77
	0.75	77	82	82	73	66	63	58	52	77
1300	0.00	80	85	86	81	74	71	66	59	82
	0.38	80	86	86	80	73	70	64	58	82
	0.75	79	86	86	79	72	69	63	58	81
	1.25	80	85	85	77	70	68	63	58	80
1500	0.00	82	87	89	85	79	75	70	64	86
	0.75	81	88	89	83	77	73	68	62	85
	1.25	79	87	89	82	76	72	67	61	85
	1.75	81	87	88	80	75	71	67	63	83
1700	0.00	83	89	92	88	83	78	74	68	89
	0.75	83	89	92	87	82	77	72	66	89
	1.50	80	89	92	86	80	75	71	65	88
	2.25	82	89	91	84	79	74	71	66	86
1900	0.00	84	91	94	91	86	81	77	71	92
	1.00	84	91	95	90	85	80	76	70	92
	2.00	80	91	94	89	84	78	74	69	91
	2.75	82	91	93	87	82	77	74	69	89
2099	0.00	85	92	96	95	89	84	80	74	95
	1.25	84	92	96	93	88	82	79	73	94
	2.50	80	92	96	92	87	80	77	71	93
	3.38	83	92	94	90	85	80	77	72	92

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
800	0.00	68	71	69	65	62	57	50	43	67
	0.13	68	72	69	64	61	55	48	41	67
	0.25	68	73	69	63	60	54	47	39	66
	0.50	66	74	70	62	57	50	43	35	65
1100	0.00	74	76	78	73	71	67	60	53	76
	0.25	73	77	79	72	70	65	58	51	76
	0.50	72	77	81	71	69	64	57	49	76
	0.75	71	76	82	71	67	62	55	47	76
1300	0.00	77	79	82	77	75	72	65	58	80
	0.38	77	80	84	77	74	70	64	57	80
	0.75	76	79	85	77	73	69	62	54	80
	1.25	74	78	87	76	71	66	59	51	81
1500	0.00	81	82	85	82	79	76	70	63	84
	0.75	80	82	87	82	77	74	68	60	84
	1.25	78	81	88	82	76	72	65	58	84
	1.75	77	80	88	82	75	70	63	55	84
1700	0.00	85	84	87	85	82	79	74	67	87
	0.75	84	84	88	86	81	78	72	65	87
	1.50	82	83	89	87	79	76	70	62	87
	2.25	79	82	89	87	78	74	67	60	87
1900	0.00	88	86	89	89	84	82	77	70	90
	1.00	87	86	90	90	83	80	76	68	90
	2.00	84	84	90	91	82	79	73	66	90
	2.75	82	83	90	92	81	77	71	63	91
2099	0.00	91	88	91	93	87	85	81	74	93
	1.25	89	87	92	95	86	83	79	72	94
	2.50	86	86	91	97	85	81	76	69	95
	3.38	84	85	91	99	84	80	74	67	97

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.



# 165 | BELT & DIRECT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
800	0.00	76	77	74	69	65	60	54	47	71
	0.13	76	77	74	68	64	59	53	47	71
	0.25	77	77	73	67	63	58	52	46	70
	0.50	76	75	71	65	61	57	51	46	68
1000	0.00	79	83	83	76	70	67	60	54	79
	0.25	80	83	83	75	69	66	59	53	78
	0.50	79	82	83	74	68	64	59	53	78
	0.88	79	81	82	72	66	63	58	53	76
1200	0.00	82	87	87	81	75	72	66	60	83
	0.38	82	87	87	81	74	71	65	59	83
	0.75	82	87	87	80	73	70	64	58	82
	1.25	82	86	86	78	71	69	64	59	81
1400	0.00	84	89	90	86	80	76	71	65	87
	0.75	84	90	91	84	78	74	69	63	86
	1.25	82	89	91	83	77	73	68	62	86
	1.75	83	89	90	82	76	73	68	63	85
1600	0.00	85	91	93	89	84	80	75	69	91
	0.75	85	91	94	88	83	78	74	67	90
	1.50	83	91	94	87	81	77	72	67	89
	2.38	84	91	92	85	80	76	72	67	88
1800	0.00	87	93	96	93	87	83	78	72	94
	1.00	86	93	96	91	86	81	77	71	93
	2.00	83	93	96	90	85	80	76	70	92
	3.00	85	93	95	88	83	79	75	71	91
2000	0.00	88	94	98	97	91	85	82	75	97
	1.25	87	95	98	95	90	84	80	74	96
	2.50	83	94	97	94	89	82	79	73	95
	3.75	86	94	96	92	87	81	78	74	93

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
800	0.00	71	74	71	68	65	60	53	46	70
	0.13	71	75	72	68	64	58	51	44	70
	0.25	71	75	72	67	63	58	50	43	69
	0.50	69	76	72	65	61	54	47	39	68
1000	0.00	75	78	78	73	71	67	60	53	76
	0.25	75	79	79	73	70	65	58	51	76
	0.50	74	79	80	72	69	64	57	49	76
	0.88	72	78	82	71	67	61	53	46	76
1200	0.00	78	81	84	78	76	73	66	59	81
	0.38	77	82	85	77	75	71	64	57	81
	0.75	77	81	87	76	74	70	62	55	81
	1.25	75	80	89	76	72	67	59	52	82
1400	0.00	82	84	86	82	80	77	71	64	85
	0.75	81	84	89	82	78	75	68	61	85
	1.25	80	83	90	82	77	73	66	59	85
	1.75	78	82	91	82	76	71	64	57	85
1600	0.00	86	86	89	86	83	80	75	68	89
	0.75	85	86	90	87	82	79	73	66	88
	1.50	83	85	91	87	81	77	71	64	88
	2.38	81	84	92	88	80	75	68	61	88
1800	0.00	90	88	91	90	86	83	79	72	92
	1.00	88	88	92	91	85	82	77	70	92
	2.00	86	87	92	92	84	80	75	67	92
	3.00	84	85	93	93	83	79	72	64	92
2000	0.00	92	90	93	95	88	86	82	75	95
	1.25	91	90	94	97	88	85	80	73	96
	2.50	89	88	94	99	87	83	78	71	97
	3.75	86	87	93	101	86	82	76	68	98

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 182 | BELT & DIRECT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
700	0.00	71	73	67	65	63	58	50	42	68
	0.13	69	72	66	63	62	57	49	42	67
	0.25	68	71	65	62	61	56	48	40	65
	0.50	68	68	63	60	59	55	47	38	64
850	0.00	74	78	73	70	68	64	57	49	73
	0.25	72	76	71	68	67	63	56	48	71
	0.50	71	74	70	66	65	62	54	45	70
	0.75	72	73	68	65	64	61	53	45	69
1000	0.00	77	80	82	74	72	69	62	54	78
	0.38	75	79	81	72	70	67	61	53	76
	0.75	74	77	78	70	69	66	59	50	75
	1.00	74	77	77	69	68	65	59	50	74
1200	0.00	80	83	86	78	76	74	68	60	82
	0.75	78	81	84	76	74	72	66	58	80
	1.25	77	80	81	74	72	71	65	57	79
	1.75	78	80	80	73	71	70	64	56	78
1350	0.00	83	85	88	81	79	77	72	64	85
	0.75	80	83	87	79	77	75	71	63	83
	1.50	78	83	84	78	75	74	69	61	82
	2.25	80	83	83	76	74	73	68	60	81
1500	0.00	85	87	91	84	81	80	76	68	88
	1.00	82	84	89	82	79	78	74	66	86
	2.00	80	85	86	80	77	77	73	64	84
	2.75	82	85	85	79	76	76	72	64	83
1670	0.00	87	89	93	87	84	83	79	71	91
	1.25	84	86	91	85	82	81	77	70	89
	2.50	82	86	88	83	80	79	76	68	87
	3.44	84	87	87	82	79	78	75	67	86

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
700	0.00	90	92	81	74	68	61	52	44	79
	0.13	88	91	80	72	67	59	51	42	78
	0.25	86	90	79	71	65	58	49	41	77
	0.50	88	89	77	69	63	56	48	41	76
850	0.00	96	97	88	80	74	68	59	50	85
	0.25	92	95	86	78	72	65	57	49	83
	0.50	91	94	85	76	70	63	55	46	82
	0.75	94	94	84	75	69	62	55	47	81
1000	0.00	102	100	102	85	79	73	65	56	94
	0.38	98	97	100	83	77	70	62	54	92
	0.75	97	96	98	81	75	68	60	51	90
	1.00	100	97	98	81	74	68	60	52	90
1200	0.00	109	103	106	91	84	78	71	62	98
	0.75	104	99	103	89	81	75	68	59	95
	1.25	105	99	102	87	80	74	66	58	94
	1.75	109	102	101	86	79	73	66	59	95
1350	0.00	114	105	108	95	88	82	75	66	101
	0.75	109	101	106	93	85	79	72	64	99
	1.50	109	100	104	91	83	78	70	62	97
	2.25	114	105	104	90	82	77	70	63	98
1500	0.00	118	106	110	98	91	85	79	70	104
	1.00	113	102	108	96	88	83	76	67	101
	2.00	114	103	106	95	86	81	74	66	100
	2.75	118	107	106	94	85	80	73	66	100
1670	0.00	121	110	113	102	94	89	82	74	107
	1.25	116	105	110	100	92	86	79	71	104
	2.50	116	107	109	99	90	84	77	69	103
	3.44	121	111	109	98	89	83	76	69	103

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 200 | BELT & DIRECT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
600	0.00	71	71	66	64	62	56	48	40	66
	0.13	69	70	65	62	60	55	47	39	65
	0.25	68	69	63	61	59	54	46	37	64
	0.50	68	68	61	59	58	52	44	36	62
700	0.00	74	76	70	68	66	61	53	45	71
	0.25	71	75	68	65	64	59	52	44	69
	0.50	71	72	66	64	63	58	50	41	67
	0.63	71	71	65	63	62	58	49	41	66
800	0.00	76	79	74	71	70	65	58	49	74
	0.38	73	77	71	68	67	63	56	48	72
	0.50	73	76	71	67	67	63	55	46	71
	0.75	73	75	69	66	66	62	54	45	70
900	0.00	78	81	77	74	72	69	61	53	77
	0.38	76	80	76	72	70	67	60	52	75
	0.63	75	78	74	71	69	66	59	50	74
	1.00	75	77	73	69	68	65	58	49	73
1000	0.00	80	83	85	76	75	72	65	57	81
	0.50	77	81	83	74	73	70	63	56	79
	1.00	77	80	80	73	71	69	62	53	77
	1.38	77	79	79	72	70	68	61	53	76
1250	0.00	84	87	89	82	80	78	72	64	86
	0.75	82	84	88	80	78	76	71	63	84
	1.50	80	84	85	78	76	75	69	61	83
	2.25	81	84	84	77	75	74	69	60	82
1434	0.00	87	89	92	86	83	82	77	69	90
	1.00	84	86	91	84	81	80	75	68	88
	2.00	82	86	88	82	79	79	74	65	86
	3.00	84	87	87	81	78	77	73	65	85

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
600	0.00	91	89	79	72	66	59	50	41	77
	0.13	88	88	77	70	64	57	48	40	75
	0.25	86	86	76	69	63	55	47	38	74
	0.50	89	89	74	67	61	54	47	39	75
700	0.00	93	95	84	76	71	64	55	46	82
	0.25	89	93	82	74	68	61	53	44	80
	0.50	89	91	80	72	66	59	51	42	78
	0.63	91	91	80	72	66	59	51	44	78
800	0.00	96	99	88	80	75	68	60	51	86
	0.38	91	96	86	78	72	65	57	48	84
	0.50	91	96	86	77	71	65	56	47	83
	0.75	94	95	85	76	70	63	56	48	82
900	0.00	101	101	93	84	79	72	64	55	90
	0.38	97	99	91	82	76	69	61	53	87
	0.63	96	97	90	81	75	68	60	51	86
	1.00	99	98	89	80	74	67	59	52	86
1000	0.00	105	103	104	88	82	75	67	59	97
	0.50	100	100	102	86	79	73	65	57	95
	1.00	100	99	100	84	77	71	63	54	93
	1.38	104	100	100	83	76	70	63	56	93
1250	0.00	114	106	109	95	88	82	75	66	102
	0.75	109	103	107	93	86	80	72	64	100
	1.50	108	102	105	92	84	78	71	62	98
	2.25	114	105	105	91	83	77	70	63	98
1434	0.00	119	108	112	99	92	87	80	71	105
	1.00	115	104	110	98	90	84	77	69	103
	2.00	114	104	108	96	88	82	75	67	101
	3.00	119	108	108	95	87	81	74	67	102

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 222 | BELT & DIRECT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
550	0.00	73	72	67	65	63	56	48	40	67
	0.13	71	71	66	64	61	55	47	39	66
	0.25	70	70	64	62	60	54	46	38	65
	0.50	69	69	62	61	59	53	44	36	63
650	0.00	76	77	71	69	67	62	54	46	72
	0.25	73	76	69	67	65	60	53	45	70
	0.50	73	73	68	65	64	59	50	42	68
	0.75	73	72	66	64	63	58	50	42	67
750	0.00	78	81	75	72	71	67	59	51	76
	0.38	75	80	73	70	69	65	57	49	74
	0.63	75	77	72	69	68	64	55	47	72
	1.00	76	76	70	67	67	63	55	47	71
850	0.00	80	84	79	76	74	70	63	55	79
	0.38	78	82	77	74	73	69	62	54	77
	0.75	77	80	76	72	71	68	60	51	76
	1.25	78	79	74	71	70	66	59	51	74
1000	0.00	83	86	88	80	78	75	68	60	84
	0.50	81	85	87	78	76	73	67	59	83
	1.00	80	83	84	76	75	72	65	57	81
	1.50	80	83	83	75	74	71	65	56	80
1250	0.00	87	90	93	85	83	81	76	68	89
	0.75	85	88	92	84	81	80	74	67	88
	1.50	84	87	89	82	80	78	73	65	86
	2.50	84	87	88	81	79	77	72	64	85
1429	0.00	90	92	96	89	86	85	80	72	93
	1.25	87	90	94	87	84	83	78	71	91
	2.50	85	90	91	85	82	82	77	69	89
	3.75	87	90	90	84	81	81	76	68	88

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
550	0.00	92	90	79	73	67	59	50	41	78
	0.13	90	88	78	71	65	57	49	40	76
	0.25	89	86	76	69	63	56	47	38	74
	0.50	90	90	75	68	61	54	47	39	76
650	0.00	95	95	84	77	72	65	56	47	83
	0.25	91	94	83	75	69	62	54	45	81
	0.50	91	92	81	73	67	60	52	43	79
	0.75	94	93	80	72	66	59	52	45	80
750	0.00	97	101	89	82	76	70	61	52	88
	0.38	93	99	87	79	74	67	58	50	86
	0.63	92	97	86	78	72	65	56	47	84
	1.00	97	97	85	77	71	64	57	50	84
850	0.00	102	103	94	86	80	74	65	56	91
	0.38	98	101	92	84	78	71	63	55	89
	0.75	97	100	91	82	76	69	61	52	88
	1.25	102	100	90	81	75	68	61	54	87
1000	0.00	108	106	108	91	85	79	71	62	100
	0.50	104	103	106	89	83	76	69	60	98
	1.00	103	102	104	88	81	75	67	58	97
	1.50	106	103	104	87	80	74	66	58	96
1250	0.00	117	109	112	98	91	86	78	70	105
	0.75	113	106	111	97	89	84	76	68	103
	1.50	111	105	109	95	88	82	74	66	102
	2.50	115	107	108	94	86	81	73	66	101
1429	0.00	122	112	115	102	95	90	83	74	109
	1.25	118	107	113	101	93	87	80	72	106
	2.50	117	107	111	99	91	85	78	70	105
	3.75	123	112	111	98	90	84	77	71	105

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 245 | BELT & DIRECT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
500	0.00	74	72	68	66	63	56	48	40	68
	0.13	73	71	66	64	62	55	47	39	66
	0.25	72	70	65	63	60	54	46	38	65
	0.50	70	70	63	62	59	52	44	36	64
600	0.00	77	77	72	70	68	62	54	46	73
	0.25	75	76	70	68	66	61	53	45	71
	0.50	74	74	69	67	65	59	51	42	69
	0.75	74	74	67	66	64	58	50	42	68
700	0.00	80	82	76	74	72	67	59	51	77
	0.38	77	81	74	71	70	66	58	50	75
	0.63	77	79	73	70	69	65	56	47	74
	1.00	77	77	71	69	68	64	55	47	72
800	0.00	82	86	80	77	76	72	64	56	80
	0.38	80	84	78	75	74	70	63	55	79
	0.75	79	82	77	74	73	69	61	53	77
	1.25	80	81	75	72	72	68	60	52	76
950	0.00	85	88	85	81	80	76	69	61	85
	0.63	83	87	84	79	78	75	68	60	83
	1.25	82	85	82	78	76	73	66	58	81
	2.00	83	84	80	76	75	72	66	57	80
1200	0.00	89	92	95	87	85	83	77	69	91
	1.00	87	90	93	85	83	81	76	68	90
	2.00	85	89	91	84	82	80	74	66	88
	3.00	87	89	89	82	81	79	73	65	87
1388	0.00	92	95	98	91	89	87	82	74	95
	1.25	90	92	97	89	87	85	81	73	93
	2.50	88	92	94	88	85	84	79	71	92
	4.25	89	92	92	86	84	83	78	70	90

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
500	0.00	94	91	79	73	67	59	50	41	78
	0.13	92	88	77	71	65	57	48	40	76
	0.25	90	86	76	69	63	55	47	38	75
	0.50	91	91	74	68	61	54	47	39	76
600	0.00	97	95	85	78	72	65	56	47	83
	0.25	93	93	83	76	70	62	54	46	81
	0.50	92	92	81	74	68	60	52	43	79
	0.75	95	95	80	73	67	60	53	45	81
700	0.00	99	101	90	83	77	70	61	53	88
	0.38	95	99	88	80	74	67	59	51	86
	0.63	94	98	87	79	73	66	57	48	85
	1.00	98	97	86	78	72	65	58	50	84
800	0.00	102	105	94	87	81	75	66	57	93
	0.38	99	104	93	85	79	72	64	56	91
	0.75	97	102	92	83	77	71	62	53	89
	1.25	101	102	91	82	76	69	62	54	89
950	0.00	109	108	101	92	86	80	72	63	97
	0.63	105	105	100	90	84	77	69	61	95
	1.25	104	104	98	89	82	76	67	59	93
	2.00	110	105	97	87	81	74	67	61	94
1200	0.00	118	112	115	100	93	87	80	71	107
	1.00	114	108	112	98	91	85	77	69	105
	2.00	113	107	111	96	89	83	76	67	103
	3.00	118	110	110	95	88	82	75	68	104
1388	0.00	124	114	118	104	97	92	85	76	111
	1.25	120	110	116	103	95	90	82	74	109
	2.50	118	109	114	102	94	88	81	72	107
	4.25	124	114	113	100	92	87	79	73	107

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 270 | BELT & DIRECT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
500	0.00	77	75	70	69	66	59	51	43	71
	0.13	76	74	69	68	65	58	50	42	69
	0.38	74	73	67	66	63	56	48	39	68
	0.63	73	73	66	64	62	55	47	39	67
600	0.00	80	80	75	73	71	65	57	49	75
	0.25	78	79	74	71	69	64	56	48	74
	0.50	77	77	72	70	68	63	54	46	73
	0.75	77	77	71	69	67	62	53	45	72
700	0.00	83	85	79	77	75	70	62	54	80
	0.38	81	84	77	75	74	69	61	53	78
	0.75	80	82	76	73	72	68	59	51	77
	1.25	80	80	74	72	71	67	58	50	75
800	0.00	85	89	83	80	79	75	67	59	83
	0.50	83	87	81	78	77	73	65	58	82
	1.00	82	85	79	76	76	72	64	55	80
	1.50	83	84	78	75	75	71	63	55	79
900	0.00	87	91	86	83	81	78	71	63	86
	0.63	85	89	85	81	80	76	69	61	85
	1.25	84	87	83	79	78	75	68	59	83
	2.00	85	86	82	78	77	74	67	59	82
1000	0.00	89	92	94	86	84	81	74	66	90
	0.75	87	91	93	84	82	79	73	65	88
	1.50	86	89	90	82	81	78	71	63	87
	2.50	87	88	88	81	79	77	70	62	85
1138	0.00	91	94	97	89	87	84	78	70	93
	1.25	89	92	95	87	85	82	77	69	91
	2.50	88	91	92	85	83	81	75	67	89
	3.50	89	91	91	84	82	80	74	66	88

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
500	0.00	97	94	82	76	70	62	53	44	81
	0.13	95	92	81	74	68	60	52	43	80
	0.38	93	89	79	72	65	57	49	40	77
	0.63	94	94	77	71	64	57	50	42	80
600	0.00	100	98	88	81	75	68	59	50	86
	0.25	97	97	86	79	73	66	57	49	84
	0.50	95	95	85	77	71	64	55	47	83
	0.75	97	96	84	76	70	63	55	47	83
700	0.00	102	104	93	86	80	73	64	55	91
	0.38	99	102	91	83	78	71	62	54	90
	0.75	97	101	90	82	76	69	60	51	88
	1.25	101	100	89	80	75	68	61	53	87
800	0.00	105	108	97	90	84	78	69	60	96
	0.50	101	106	96	88	82	75	67	58	94
	1.00	100	105	94	86	80	73	65	56	92
	1.50	104	104	94	85	79	72	65	57	92
900	0.00	110	110	102	93	88	81	73	64	99
	0.63	106	108	101	92	85	79	71	62	97
	1.25	105	106	99	90	84	77	69	60	95
	2.00	109	107	98	89	83	76	69	61	95
1000	0.00	114	112	114	97	91	85	77	68	106
	0.75	110	109	112	95	89	82	74	66	104
	1.50	109	108	110	94	87	81	73	64	102
	2.50	113	109	109	92	86	79	72	65	102
1138	0.00	119	114	116	101	95	89	81	72	109
	1.25	114	110	114	99	92	86	78	70	107
	2.50	115	110	112	97	90	84	76	68	105
	3.50	120	113	112	96	89	83	76	69	105

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 300 | BELT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
400	0.00	77	71	68	67	63	55	47	39	68
	0.13	76	70	66	65	61	54	46	38	67
	0.38	72	67	64	63	60	51	43	34	64
	0.50	72	66	63	63	59	51	43	35	64
500	0.00	80	78	74	72	69	62	54	46	74
	0.25	79	76	72	70	67	61	53	45	72
	0.50	77	76	70	69	66	59	51	42	71
	0.75	76	76	69	68	65	59	50	42	70
600	0.00	83	84	78	76	74	68	60	52	79
	0.38	81	82	76	74	72	67	59	51	77
	0.75	80	80	75	73	71	65	57	48	75
	1.00	80	80	74	72	70	65	56	48	75
700	0.00	86	88	82	80	78	74	65	57	83
	0.50	84	87	80	78	77	72	64	56	81
	1.00	83	84	79	76	75	71	62	53	80
	1.50	83	83	78	75	74	70	62	53	79
800	0.00	88	92	86	83	82	78	70	62	86
	0.63	86	90	84	81	80	76	69	61	85
	1.25	86	88	83	80	79	75	67	58	83
	2.00	86	87	81	78	78	74	66	58	82
900	0.00	90	94	90	86	85	81	74	66	89
	0.75	88	92	88	84	83	80	73	65	88
	1.50	87	90	86	83	82	78	71	62	86
	2.50	88	89	85	81	80	77	70	62	85
1024	0.00	93	96	97	89	88	85	78	70	94
	1.25	90	94	96	87	85	83	76	69	92
	2.50	89	92	93	85	84	81	75	66	90
	3.50	90	92	92	84	83	80	74	66	89

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
400	0.00	105	85	78	72	66	57	48	39	81
	0.13	102	84	76	71	64	55	47	38	78
	0.38	100	82	74	68	61	53	44	36	76
	0.50	104	82	73	67	60	53	46	39	79
500	0.00	100	97	85	79	73	65	56	47	85
	0.25	97	94	83	77	70	62	54	46	82
	0.50	96	92	81	75	68	60	51	43	80
	0.75	97	97	81	74	67	60	53	45	83
600	0.00	103	101	91	84	78	71	62	53	89
	0.38	100	100	89	82	76	68	60	52	87
	0.75	98	98	88	80	74	67	58	49	86
	1.00	100	100	87	79	73	66	58	51	87
700	0.00	105	107	96	89	83	76	67	59	95
	0.50	102	106	94	87	81	74	65	57	93
	1.00	100	104	93	85	79	72	63	54	91
	1.50	104	104	92	84	78	71	64	56	91
800	0.00	108	112	101	93	87	81	72	63	99
	0.63	105	109	99	91	85	78	70	62	97
	1.25	103	108	98	89	83	77	68	59	95
	2.00	108	108	97	88	82	75	68	61	95
900	0.00	113	113	105	97	91	84	76	67	102
	0.75	109	111	104	95	89	82	74	66	100
	1.50	108	109	102	93	87	80	72	63	98
	2.50	113	110	101	92	86	79	72	65	98
1024	0.00	118	115	117	101	95	89	81	72	110
	1.25	113	112	115	99	92	86	78	69	107
	2.50	114	112	113	97	90	84	76	68	106
	3.50	119	113	113	96	89	83	76	69	106

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 330 | BELT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
375	0.00	78	72	69	68	64	56	47	39	69
	0.13	77	71	68	67	63	55	47	39	68
	0.38	74	68	65	65	61	52	43	35	66
	0.50	73	67	65	64	60	52	43	35	65
450	0.00	82	77	74	73	69	62	54	45	74
	0.25	80	76	72	71	67	60	52	45	72
	0.50	78	74	70	69	66	58	50	41	71
	0.75	77	73	69	68	65	58	50	41	70
550	0.00	85	84	79	77	75	68	60	52	79
	0.38	83	82	77	75	73	67	59	51	77
	0.75	82	81	75	74	72	65	57	48	76
	1.00	81	81	75	73	71	65	56	48	75
650	0.00	88	89	83	81	79	74	66	58	84
	0.50	85	88	82	79	78	72	65	57	82
	1.00	85	85	80	78	76	71	62	54	81
	1.50	85	85	79	77	75	70	62	54	80
750	0.00	90	93	87	84	83	79	71	63	88
	0.63	88	92	85	82	82	77	69	62	86
	1.25	87	90	84	81	80	76	68	59	85
	2.00	88	88	82	80	79	75	67	59	83
850	0.00	92	96	91	88	86	82	75	67	91
	0.75	90	94	89	86	85	81	74	66	89
	1.50	89	93	88	84	83	80	72	64	88
	2.50	90	91	86	83	82	79	71	63	87
962	0.00	94	98	95	91	89	86	79	71	94
	1.25	92	96	93	88	87	84	77	70	92
	2.50	91	94	91	87	86	83	76	67	91
	3.75	92	93	89	86	84	82	75	67	89

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
375	0.00	106	86	79	73	67	58	49	40	82
	0.13	103	85	77	72	65	56	48	39	79
	0.38	101	83	74	69	62	53	45	36	77
	0.50	105	82	74	68	61	54	46	39	80
450	0.00	110	93	84	79	72	64	55	46	87
	0.25	106	91	82	76	70	62	53	45	83
	0.50	104	90	81	74	68	60	51	42	81
	0.75	109	89	80	74	67	60	52	45	85
550	0.00	104	102	91	85	79	71	62	53	90
	0.38	101	99	89	82	76	68	60	52	87
	0.75	100	98	88	80	74	67	58	49	86
	1.00	101	101	87	80	74	66	58	51	87
650	0.00	107	107	96	89	84	77	68	59	95
	0.50	104	106	95	87	82	74	66	57	93
	1.00	102	104	93	86	80	72	64	55	91
	1.50	105	105	92	85	79	72	64	57	92
750	0.00	109	113	101	94	88	82	73	64	100
	0.63	106	111	100	92	86	79	71	62	98
	1.25	104	110	98	90	84	78	69	60	96
	2.00	108	109	97	89	83	76	69	61	96
850	0.00	114	115	106	98	92	86	77	68	103
	0.75	110	113	105	96	90	83	75	67	101
	1.50	109	112	103	94	88	82	73	65	100
	2.50	112	112	102	93	87	80	73	65	99
962	0.00	119	117	111	102	96	89	81	73	107
	1.25	114	114	109	100	93	87	79	70	104
	2.50	114	113	107	98	91	85	77	68	103
	3.75	119	115	107	97	90	84	77	70	103

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.



# 365 | BELT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
350	0.00	79	73	71	69	64	56	48	40	70
	0.13	78	72	69	68	63	55	48	40	69
	0.38	75	70	67	66	62	53	44	35	67
	0.50	74	69	66	66	61	53	44	36	66
425	0.00	84	79	76	74	70	63	55	47	75
	0.25	82	77	74	73	69	62	54	46	74
	0.50	80	76	72	71	68	60	51	43	72
	0.75	79	74	71	70	67	59	51	42	71
525	0.00	87	85	81	79	76	70	62	54	81
	0.38	86	84	79	77	75	69	61	53	79
	0.75	84	83	78	76	74	67	59	50	78
	1.25	83	83	76	75	72	66	58	50	77
600	0.00	89	90	84	82	80	74	66	58	85
	0.50	87	88	83	80	78	73	65	57	83
	1.00	86	86	81	79	77	72	63	54	82
	1.50	86	86	80	78	76	71	62	54	81
650	0.00	91	92	86	84	82	77	69	61	87
	0.63	88	91	85	82	81	76	68	60	85
	1.25	88	88	83	81	79	74	65	57	84
	2.00	88	88	81	79	78	73	65	57	82
725	0.00	92	95	89	87	85	81	73	64	90
	0.75	90	94	87	85	84	79	71	63	88
	1.50	90	92	86	83	82	78	69	61	87
	2.50	90	90	84	82	81	77	69	60	85
786	0.00	94	97	91	89	88	83	75	67	92
	1.00	91	96	90	86	86	81	74	66	90
	2.00	91	93	88	85	84	80	72	63	89
	3.00	92	92	86	84	83	79	71	63	87

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
350	0.00	108	87	80	74	67	58	50	41	83
	0.13	105	86	78	73	65	57	48	40	81
	0.38	102	84	76	70	63	54	45	36	78
	0.50	105	83	75	69	62	54	47	39	80
425	0.00	112	94	86	80	74	65	56	47	88
	0.25	108	92	84	78	71	63	55	46	85
	0.50	106	91	82	76	69	61	52	43	83
	0.75	110	90	81	75	68	61	53	45	85
525	0.00	107	104	93	86	80	72	64	55	92
	0.38	104	101	91	84	78	70	62	53	89
	0.75	103	100	89	82	76	68	60	51	88
	1.25	104	104	88	81	75	68	60	53	90
600	0.00	109	107	97	90	84	77	68	59	95
	0.50	106	106	95	88	82	75	66	58	93
	1.00	104	104	94	86	80	73	64	55	92
	1.50	106	106	93	85	79	72	64	57	93
650	0.00	110	111	99	93	87	80	71	62	98
	0.63	107	109	98	90	85	77	69	60	96
	1.25	105	107	96	89	83	75	67	58	94
	2.00	109	108	95	87	82	74	67	60	95
725	0.00	112	115	103	96	90	83	75	66	102
	0.75	108	113	102	94	88	81	73	64	100
	1.50	107	111	100	92	86	79	70	62	98
	2.50	112	111	99	91	85	78	71	64	98
786	0.00	114	117	106	98	93	86	77	69	104
	1.00	109	115	104	96	90	83	75	67	102
	2.00	109	113	103	94	88	82	73	64	100
	3.00	114	113	102	93	87	80	74	67	100

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 402 | BELT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
300	0.00	77	72	70	68	62	54	46	38	69
	0.13	76	71	69	67	61	53	45	37	67
	0.38	73	68	66	65	59	50	42	33	65
	0.50	72	67	66	64	58	50	42	34	64
375	0.00	84	78	75	74	70	62	54	45	75
	0.25	83	76	73	72	68	60	52	45	73
	0.50	80	75	72	71	67	58	50	41	72
	0.75	79	73	71	70	66	58	50	41	71
450	0.00	88	84	80	79	75	68	60	51	80
	0.38	86	82	78	77	73	66	58	51	78
	0.75	84	80	76	75	72	64	56	47	77
	1.00	83	79	76	75	71	64	56	47	76
525	0.00	90	88	84	82	79	73	65	57	84
	0.50	88	87	82	80	78	71	64	56	82
	1.00	87	86	80	79	76	70	61	52	81
	1.50	86	86	79	78	75	69	61	53	80
600	0.00	92	93	87	85	83	77	69	61	88
	0.63	90	91	86	83	81	76	68	60	86
	1.25	89	89	84	82	80	74	66	57	84
	2.00	89	89	83	81	79	74	65	57	83
650	0.00	94	95	89	87	85	80	72	64	90
	0.75	91	94	88	85	84	79	71	63	88
	1.50	91	91	86	84	82	77	68	60	87
	2.50	91	90	84	82	81	76	68	60	85
683	0.00	94	97	91	88	87	82	74	65	91
	1.00	92	95	88	86	85	80	72	64	89
	2.00	92	92	87	84	83	78	70	61	88
	2.75	92	91	86	83	82	78	70	61	87

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
300	0.00	108	85	78	72	65	56	47	38	83
	0.13	104	83	76	70	63	55	46	38	80
	0.38	103	81	74	68	60	52	43	35	78
	0.50	107	81	73	67	60	53	45	38	81
375	0.00	112	92	85	79	73	64	55	46	88
	0.25	108	91	82	77	70	62	53	45	84
	0.50	106	89	81	75	68	59	51	42	83
	0.75	111	88	80	74	67	60	52	45	86
450	0.00	116	99	90	85	78	70	61	52	93
	0.38	112	97	88	82	76	68	59	51	89
	0.75	110	96	87	80	74	66	57	48	88
	1.00	114	95	86	80	73	66	58	50	89
525	0.00	110	107	95	89	83	75	67	58	95
	0.50	107	104	94	87	81	73	65	56	92
	1.00	105	102	92	85	79	71	62	53	90
	1.50	107	107	91	84	78	71	63	56	93
600	0.00	112	110	100	93	87	80	71	62	98
	0.63	109	109	98	91	85	78	69	61	96
	1.25	107	107	97	89	83	76	67	58	95
	2.00	110	110	96	88	82	75	68	60	96
650	0.00	113	114	102	96	90	83	74	65	101
	0.75	110	112	101	93	88	80	72	63	99
	1.50	108	110	99	92	86	78	70	61	97
	2.50	112	111	98	90	84	77	70	64	98
683	0.00	114	115	104	97	92	84	76	67	103
	1.00	110	113	102	94	89	81	73	65	100
	2.00	110	112	101	93	87	80	71	63	99
	2.75	114	112	100	92	86	79	72	65	99

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LWi and inlet LWiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 445 | BELT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
275	0.00	78	73	71	69	62	54	46	38	69
	0.13	77	72	70	67	61	53	46	38	68
	0.38	74	69	68	65	59	51	42	33	66
	0.50	73	68	67	65	59	50	42	34	65
325	0.00	83	77	75	73	68	60	52	44	74
	0.25	81	75	73	71	66	59	51	43	72
	0.50	79	74	71	70	65	56	48	39	71
	0.75	78	72	70	69	64	56	48	40	70
400	0.00	89	83	80	79	75	67	59	51	80
	0.38	87	81	78	77	73	65	58	50	78
	0.75	85	79	76	76	72	63	55	46	77
	1.00	84	78	76	75	71	63	55	46	76
475	0.00	92	88	84	83	79	73	64	56	84
	0.50	90	87	82	81	78	71	63	55	83
	1.00	88	85	81	80	77	69	61	52	81
	1.50	87	83	80	79	76	69	61	52	80
525	0.00	93	91	87	85	82	76	68	60	87
	0.63	91	90	85	83	81	74	67	59	85
	1.25	90	89	83	82	79	73	64	55	84
	2.00	89	89	82	80	78	72	64	56	83
585	0.00	95	95	90	88	85	80	71	63	90
	0.75	93	93	88	86	84	78	70	62	88
	1.50	92	91	86	84	82	77	68	59	87
	2.50	92	92	85	83	81	76	67	59	86
636	0.00	96	97	92	90	88	82	74	66	92
	1.00	94	96	90	87	86	81	73	65	90
	2.00	93	93	88	86	84	79	71	62	89
	2.75	93	93	87	85	84	79	70	62	88

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
275	0.00	109	85	79	73	65	56	47	39	84
	0.13	106	84	77	71	63	55	46	38	81
	0.38	104	81	74	68	60	52	43	35	79
	0.50	107	81	74	67	60	53	45	38	82
325	0.00	112	90	84	78	71	62	53	44	88
	0.25	108	89	81	75	68	60	51	43	84
	0.50	107	87	79	73	66	58	49	40	82
	0.75	112	86	78	73	65	58	51	44	87
400	0.00	117	97	90	84	78	69	60	51	93
	0.38	112	96	87	82	75	67	58	50	89
	0.75	111	94	86	80	73	65	56	47	88
	1.00	115	94	85	79	72	65	57	50	90
475	0.00	121	104	95	89	83	75	66	57	97
	0.50	116	103	93	87	81	73	64	56	94
	1.00	114	101	92	85	79	71	62	53	92
	1.50	119	100	91	84	78	71	63	56	95
525	0.00	113	111	99	92	86	78	70	61	98
	0.63	110	107	97	90	84	76	68	59	95
	1.25	108	106	95	88	82	74	65	56	93
	2.00	111	111	94	87	81	74	67	60	97
585	0.00	114	113	102	95	90	82	73	65	101
	0.75	111	111	100	93	87	80	71	63	98
	1.50	110	109	99	91	85	78	69	60	97
	2.50	113	113	98	90	84	77	70	63	99
636	0.00	116	116	105	98	92	85	76	67	103
	1.00	112	114	103	95	90	82	74	66	101
	2.00	112	112	101	94	88	80	72	63	100
	2.75	114	114	101	93	87	80	73	65	100

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 490 | BELT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
250	0.00	78	74	72	69	62	54	46	38	69
	0.13	77	72	70	68	61	53	45	37	68
	0.38	74	70	68	66	59	50	42	33	66
	0.50	73	69	68	65	58	50	42	34	65
300	0.00	83	78	76	74	68	60	52	44	75
	0.25	82	76	74	72	67	59	51	43	73
	0.50	79	75	73	71	65	57	48	39	71
	0.75	78	73	72	70	64	56	48	40	70
360	0.00	89	83	80	79	74	66	58	50	80
	0.38	88	81	78	77	73	65	57	49	78
	0.75	85	79	77	76	71	63	54	45	77
	1.00	84	78	76	75	71	62	54	46	76
425	0.00	93	88	84	83	79	72	64	56	84
	0.50	91	86	82	81	78	70	63	55	83
	1.00	89	84	81	80	76	68	60	51	81
	1.50	88	83	80	79	75	68	60	51	80
475	0.00	95	91	87	86	82	75	67	59	87
	0.63	93	90	85	84	81	74	66	58	86
	1.25	91	88	84	82	79	72	64	55	84
	2.00	90	86	82	81	78	72	63	55	83
530	0.00	96	95	90	88	86	79	71	63	90
	0.75	94	93	88	86	84	78	70	62	89
	1.50	93	92	87	85	83	76	67	59	87
	2.50	92	92	85	84	81	75	67	59	86
542	0.00	97	95	91	89	86	80	72	64	91
	1.00	94	93	88	86	84	78	70	62	89
	2.00	93	93	87	85	83	76	68	60	87
	2.75	93	93	85	84	82	76	68	60	86

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
250	0.00	110	85	79	73	65	56	47	38	85
	0.13	106	83	77	71	63	54	46	37	82
	0.38	104	81	74	68	60	52	43	35	80
	0.50	108	80	74	67	60	53	45	38	83
300	0.00	113	91	84	78	71	62	53	44	89
	0.25	109	89	82	76	68	60	52	43	85
	0.50	108	87	80	74	66	58	49	40	83
	0.75	113	86	79	73	66	59	52	44	87
360	0.00	117	97	89	84	77	68	60	51	93
	0.38	113	95	87	81	74	66	58	49	89
	0.75	112	94	85	80	73	64	55	47	88
	1.00	115	93	85	79	72	64	57	49	91
425	0.00	121	103	95	89	83	74	65	56	97
	0.50	117	101	93	87	80	72	63	55	94
	1.00	115	100	91	85	78	70	61	52	92
	1.50	120	99	90	84	77	70	63	55	95
475	0.00	123	107	98	92	86	78	69	60	100
	0.63	119	106	96	90	83	75	67	59	97
	1.25	118	104	95	88	82	73	65	56	95
	2.00	124	103	93	87	80	73	67	60	99
530	0.00	116	114	102	96	89	82	73	64	101
	0.75	113	110	100	93	87	79	71	63	98
	1.50	111	109	98	91	85	77	68	60	96
	2.50	114	114	97	90	84	77	70	63	100
542	0.00	116	114	102	96	90	82	74	65	102
	1.00	113	110	100	93	87	79	71	63	98
	2.00	113	111	99	92	85	78	70	62	98
	2.75	115	116	98	91	84	78	71	64	101

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LWi and inlet LWiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# 542 | BELT DRIVE - SOUND PERFORMANCE

RPM	Nominal Ps	INLET SOUND POWER BY OCTAVE BANDS dB Lwi								LwiA
		63	125	250	500	1000	2000	4000	8000	
225	0.00	77	74	73	69	62	54	46	37	70
	0.13	76	72	71	68	61	53	45	37	68
	0.38	74	70	69	66	58	50	41	33	66
	0.50	73	69	68	65	58	50	41	33	66
250	0.00	81	77	75	72	65	57	49	41	73
	0.13	80	75	74	71	64	56	49	41	72
	0.50	77	73	71	69	62	53	45	36	69
	0.63	76	72	71	68	61	53	45	37	68
275	0.00	84	79	77	75	68	60	52	44	75
	0.25	82	77	75	73	67	59	51	43	74
	0.50	80	76	74	72	65	57	48	39	72
	0.75	79	74	73	71	65	56	48	40	71
325	0.00	89	83	81	79	74	66	58	50	80
	0.38	87	81	79	77	72	65	57	49	78
	0.75	85	80	77	76	71	62	54	45	77
	1.00	84	79	77	75	70	62	54	45	76
350	0.00	91	85	83	81	76	68	60	52	82
	0.50	89	83	80	79	75	67	59	51	80
	1.00	87	81	79	78	73	65	56	48	79
	1.25	86	80	78	77	73	64	56	48	78
375	0.00	93	87	84	83	79	71	63	54	84
	0.50	92	85	82	81	77	69	61	54	82
	1.00	89	83	81	80	76	67	59	50	81
	1.50	88	82	80	79	75	67	59	50	80
418	0.00	96	90	87	86	82	74	66	58	87
	0.63	94	88	85	84	80	73	65	57	85
	1.25	91	87	83	83	79	71	62	54	84
	1.88	90	85	82	81	78	70	62	54	83

RPM	Nominal Ps	OUTLET SOUND POWER BY OCTAVE BANDS dB Lwo								LwoA
		63	125	250	500	1000	2000	4000	8000	
225	0.00	93	85	79	72	64	55	46	38	76
	0.13	92	83	77	70	62	54	45	37	74
	0.38	90	81	74	68	60	51	43	34	71
	0.50	89	80	74	67	60	52	45	38	71
250	0.00	113	88	82	76	68	59	50	41	88
	0.13	110	87	80	74	66	58	49	41	85
	0.50	108	84	77	71	63	55	47	39	83
	0.63	111	83	77	70	63	56	49	41	86
275	0.00	115	91	85	79	71	62	53	45	90
	0.25	110	89	82	76	69	60	52	43	86
	0.50	108	88	80	74	67	58	49	40	84
	0.75	113	87	80	73	66	59	52	44	88
325	0.00	118	96	90	84	77	68	59	50	94
	0.38	114	95	87	81	74	66	57	49	90
	0.75	113	93	85	79	72	64	55	46	89
	1.00	116	92	85	79	72	64	57	49	91
350	0.00	120	99	92	86	79	70	62	53	95
	0.50	115	97	89	83	76	68	59	51	91
	1.00	116	95	87	82	74	66	58	50	91
	1.25	119	95	87	81	74	67	60	52	94
375	0.00	121	101	94	88	82	73	64	55	97
	0.50	117	100	91	86	79	70	62	54	93
	1.00	116	98	90	84	77	68	60	51	92
	1.50	121	97	89	83	76	69	62	55	96
418	0.00	124	105	97	92	85	77	68	59	100
	0.63	119	104	95	89	82	74	66	57	96
	1.25	118	102	93	87	81	72	64	55	95
	1.88	124	101	92	86	79	72	66	59	99

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lwi and inlet LwiA sound power levels for Installation Type B: free inlet, ducted outlet. Values shown are for outlet Lwo and outlet LwoA sound power levels for Installation Type B: free inlet, ducted outlet. Ratings include the effects of duct end correction.

# SOUND POWER LEVELS GUIDE

## Sound Power Levels

Since any mechanical device generates some sound energy into the air, fans will create some noise. Because of the great number of factors influencing sound output, it is invalid to compare fans based on RPM, tip speed, or outlet velocity. The only accurate basis of comparison is the sound power level generated by the fan at the required point of operation.

Having sound power levels for a specific fan at a specific operating point allows the system designer to determine the theoretical sound pressure level at any point in the occupied space. AMCA Publication 303 and the ASHRAE Guides provide more information on this process. Another typical application of sound power levels is to compare similar fans. Generally, differences of 6 dB in the 63 Hz band and 3 dB in all other bands are considered insignificant.

System designers use many methods to predict acoustic acceptability of an occupied space.

The A-weighted sound pressure level provides a single number that corresponds well to the human judgement of relative loudness. OSHA bases their requirements regarding exposure to noise on A-weighted sound pressure levels. The disadvantage of this method is that A-weighted sound pressure levels do not provide information as to the quality of the sound. Noise Criteria (NC) curves are also widely used. To determine the NC level, the sound power spectrum is compared to defined limits. Other methods include RC curves, Sones, SIL and Noise Rating Curves.

Each method relies on sound pressure level information because the human ear "hears" sound pressure fluctuations, not sound power (watts). Sound pressure is a function of the attenuation of the space and the distance from the source. Consider a 100 watt light bulb. It provides adequate light for a closet, but not for a classroom, and in a stadium it would be imperceptible. While the light source was the same power (100 watts), the brightness level changed dramatically. Similarly, the same sound power level (acoustical energy) produces greatly different sound pressure levels (noise).

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