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ENGINEERING SUPPLEMENT
ES-229
January 2009

**PLENUM FANS WITH BACKWARD CURVED
AND BACKWARD CURVED-q WHEELS**
Air Performance and Sound Ratings

The New York Blower Company has combined the time tested air performance efficiency of the Backward Curved wheel with state-of-the-art acoustical research to offer a Plenum Fan with superior performance and quiet operation. The New York Blower Plenum Fan with either Backward Curved or Backward Curved-q wheel is ideal for sound sensitive air handling applications.

AIR PERFORMANCE

The following tables provide air performance data for Plenum Fans with Backward Curved and Backward Curved-q wheels. For a given fan size, and required CFM and static pressure, these capacity tables can be used to obtain fan RPM and BHP. If capacities are at conditions other than 70°F., sea level, or standard density (.075 lb./cu.ft.), correction factors must be applied to static pressure and BHP. See the Plenum Fan bulletin for these factors.

BACKWARD CURVED

SIZE 183		Wheel diameter: 18 1/4"										Class I = 2100 RPM Class II = 2735 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	760	985	0.58	1315	1.22	1611	2.01	1864	2.89	2081	3.84	2288	4.93	2463	5.99	2634	7.16
3000	1141	1152	0.91	1419	1.67	1654	2.51	1873	3.48	2079	4.55	2274	5.70	2461	6.92	2626	8.14
4000	1521	1375	1.43	1584	2.30	1780	3.27	1970	4.32	2147	5.45	2320	6.69	2480	7.99	2634	9.36
5000	1901	1620	2.20	1793	3.20	1959	4.29	2120	5.46	2277	6.73	2428	8.05	2571	9.40	2710	10.8
6000	2281	1877	3.25	2026	4.41	2166	5.60	2306	6.90	2444	8.30	2578	9.75	2704	11.2		
7000	2662	2140	4.65	2272	5.96	2397	7.32	2516	8.70	2638	10.2						
8000	3042	2408	6.42	2529	7.94	2640	9.43										
9000	3422	2678	8.65														

SIZE 203		Wheel diameter: 20 1/8"										Class I = 1930 RPM Class II = 2510 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	958	1005	0.90	1265	1.73	1507	2.74	1726	3.88	1920	5.09	2106	6.44	2270	7.83	2424	9.32
4000	1278	1165	1.32	1387	2.30	1584	3.38	1769	4.56	1945	5.88	2126	7.41	2286	8.95	2439	10.6
5000	1597	1346	1.93	1541	3.06	1714	4.29	1871	5.57	2025	6.97	2173	8.44	2321	10.1	2464	11.8
6000	1917	1541	2.78	1708	4.01	1867	5.40	2009	6.83	2148	8.40	2279	9.99	2407	11.7		
7000	2236	1744	3.88	1890	5.25	2033	6.78	2165	8.37	2291	10.0	2411	11.8				
8000	2556	1953	5.27	2083	6.83	2211	8.47	2335	10.3	2451	12.1						
9000	2875	2165	7.01	2284	8.79	2398	10.6	2508	12.4								
10000	3195	2380	9.12	2487	11.1												

SIZE 223		Wheel diameter: 22 1/4"										Class I = 1770 RPM Class II = 2305 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	1309	1068	1.66	1266	2.87	1442	4.21	1604	5.63	1762	7.24	1925	9.13	2069	11.0	2206	13.0
6000	1571	1204	2.29	1378	3.60	1539	5.12	1686	6.70	1825	8.37	1958	10.1	2097	12.2	2225	14.2
7000	1832	1345	3.07	1502	4.52	1647	6.16	1785	7.94	1908	9.70	2027	11.6	2150	13.6	2261	15.6
8000	2094	1493	4.07	1634	5.66	1768	7.43	1893	9.31	2013	11.4	2124	13.4	2231	15.5		
9000	2356	1645	5.29	1774	7.08	1894	8.92	2012	11.0	2124	13.1	2230	15.3				
10000	2618	1801	6.78	1917	8.74	2028	10.8	2137	12.9	2242	15.2						
11000	2880	1958	8.54	2065	10.7	2167	12.9	2268	15.1								
12000	3141	2117	10.6	2217	13.0												

Performance shown is for installation Type A: Free inlet, Free outlet. Power rating (BHP) does not include drive losses.

Performance ratings do not include the effects of appurtenances in the airstream.

SIZE 243				Wheel Diameter: 24 1/2"								Class I = 1605 RPM Class II = 2090 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6000	1266	910	1.84	1090	3.24	1258	4.82	1410	6.53	1555	8.48	1696	10.6	1825	12.8	1956	15.3
7500	1582	1052	2.69	1202	4.25	1346	6.03	1485	8.00	1612	10.0	1734	12.1	1855	14.5	1965	17.0
9000	1899	1205	3.85	1335	5.64	1456	7.55	1578	9.69	1696	11.9	1808	14.3	1914	16.8	2019	19.4
10500	2215	1364	5.37	1477	7.36	1586	9.50	1690	11.7	1797	14.2	1896	16.8	1996	19.5		
12000	2532	1527	7.30	1629	9.56	1725	11.8	1821	14.3	1914	17.0	2003	19.7				
13500	2848	1691	9.68	1787	12.2	1875	14.8	1958	17.5	2041	20.2						
15000	3165	1858	12.6	1945	15.5	2027	18.3										
16500	3481	2027	16.2														

SIZE 273				Wheel Diameter: 27"								Class I = 1420 RPM Class II = 1850 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1394	898	2.60	1045	4.42	1183	6.45	1313	8.66	1438	11.1	1556	13.8	1667	16.6	1772	19.5
9200	1603	988	3.32	1120	5.31	1245	7.50	1365	9.88	1480	12.4	1590	15.2	1694	18.0	1792	21.0
10400	1812	1083	4.21	1204	6.37	1315	8.71	1424	11.2	1531	13.9	1632	16.7	1731	19.7	1826	22.8
11600	2021	1179	5.26	1290	7.57	1395	10.1	1495	12.8	1590	15.6	1689	20.6	1782	21.8		
12800	2230	1277	6.52	1381	9.03	1479	11.7	1571	14.6	1660	17.5	1747	23.0	1835	23.9		
14000	2439	1377	8.00	1474	10.7	1565	13.5	1650	16.5	1733	19.6	1818					
15200	2648	1477	9.69	1570	12.6	1656	15.6	1738	18.8	1814	22.0						
16400	2857	1578	11.6	1667	14.8	1748	18.0	1826	21.3								

SIZE 303				Wheel Diameter: 30"								Class I = 1280 RPM Class II = 1665 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	1422	815	3.26	945	5.51	1071	8.08	1185	10.8	1295	13.8	1401	17.1	1501	20.5	1595	24.2
12000	1707	926	4.52	1040	7.04	1147	9.85	1252	12.9	1350	16.1	1447	19.5	1538	23.1	1629	27.0
14000	1991	1042	6.18	1144	8.97	1238	12.0	1330	15.3	1421	18.8	1510	22.5	1592	26.2		
16000	2276	1161	8.24	1254	11.4	1340	14.7	1424	18.3	1502	21.9	1582	25.9	1659	29.9		
18000	2560	1282	10.8	1368	14.3	1447	17.8	1523	21.7	1597	25.7						
20000	2845	1405	13.9	1485	17.7	1559	21.6	1628	25.7								
22000	3129	1530	17.6	1604	21.8												
24000	3414	1655	21.9														

SIZE 333				Wheel Diameter: 33"								Class I = 1175 RPM Class II = 1515 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	1195	648	2.79	793	5.26	923	8.12	1045	11.4	1157	15.0	1260	18.8	1355	22.7	1449	27.2
13000	1553	760	4.19	880	7.00	988	10.1	1094	13.7	1191	17.4	1285	21.4	1379	26.0	1463	30.6
16000	1912	883	6.09	983	9.37	1079	12.9	1170	16.7	1258	20.8	1339	24.0	1423	29.8	1503	34.7
19000	2270	1013	8.67	1099	12.4	1181	16.3	1261	20.4	1341	24.9	1416	29.5	1492	34.8		
21000	2509	1102	10.8	1181	14.9	1257	19.1	1331	23.5	1403	28.1	1476	33.2				
24000	2867	1237	14.7	1307	19.2	1376	24.0	1442	29.0	1508	34.1						
27000	3226	1375	19.6	1438	24.7	1499	29.8										
30000	3584	1513	25.6														

SIZE 363				Wheel Diameter: 36 1/2"								Class I = 1045 RPM Class II = 1360 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	1176	602	3.23	733	6.10	851	9.33	959	13.0	1061	17.1	1160	21.6	1247	26.1	1334	31.2
15000	1471	690	4.51	800	7.75	902	11.3	998	15.2	1091	19.5	1180	24.2	1265	29.3	1346	34.5
18000	1765	783	6.21	880	9.82	970	13.9	1055	18.0	1138	22.6	1220	27.6	1293	32.5		
21000	2059	879	8.35	969	12.5	1050	16.9	1124	21.5	1200	26.5	1273	31.6	1343	37.0		
24000	2353	980	11.1	1061	15.7	1137	20.5	1205	25.6	1270	30.8	1336	36.3				
27000	2647	1084	14.4	1156	19.5	1226	24.8	1290	30.2	1352	36.0						
30000	2941	1189	18.5	1253	24.0	1318	29.8										
33000	3235	1296	23.4	1354	29.8												

SIZE 403				Wheel Diameter: 40 1/4"								Class I = 950 RPM Class II = 1235 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16000	1311	546	4.31	666	7.96	778	12.4	880	17.5	973	22.9	1061	28.7	1141	34.4	1219	40.7
20000	1639	622	6.02	728	10.3	823	15.0	914	20.2	997	25.9	1082	32.4	1157	39.0	1233	46.2
24000	1967	707	8.29	798	13.2	882	18.3	963	23.9	1038	29.9	1111	36.3	1184	43.4		
28000	2295	795	11.2	874	16.6	951	22.5	1025	28.7	1093	35.0	1158	41.5	1224	48.8		
32000	2623	887	14.9	958	20.9	1027	27.5	1092	34.1	1156	41.0	1218	48.2				
36000	2951	981	19.4	1045	26.1	1106	33.1	1166	40.4	1226	48.1						
40000	3279	1075	24.9	1134	32.2	1191	39.9										
44000	3607	1170	31.5	1225	39.3												

Performance shown is for installation Type A: Free inlet, Free outlet. Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

SIZE 443				Wheel Diameter: 44 1/2"								Class I = 880 RPM Class II = 1120 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	1325	500	5.43	607	9.95	706	15.4	797	21.5	883	28.4	958	35.1	1030	42.3	1103	50.3
25000	1656	571	7.6	665	12.9	749	18.6	828	25	906	32.2	978	39.8	1049	48.3	1112	56.4
30000	1987	650	10.6	730	16.6	806	23	878	29.9	946	37.3	1012	45.4	1074	53.7		
35000	2318	732	14.3	803	21.1	871	28.4	936	35.9	998	43.9	1057	52.1	1113	60.7		
40000	2649	817	19	881	26.6	940	34.6	1001	43.1	1056	51.5	1113	60.7				
45000	2980	904	24.9	962	33.3	1016	42	1069	51.1								
50000	3311	991	32.1	1044	41.1	1095	50.8										
55000	3642	1080	40.7														

SIZE 493				Wheel Diameter 49"								Class I = 780 RPM Class II = 1020 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24000	1311	452	6.49	550	12	641	18.5	725	26.1	801	34.2	870	42.5	937	51.4	999	60.3
30000	1639	515	9.08	601	15.5	679	22.4	752	30.2	821	38.7	887	48.1	953	58.5	1011	68.6
36000	1967	586	12.6	660	19.9	730	27.7	793	35.8	856	44.9	918	54.7	975	64.9		
42000	2295	660	17	724	25.2	786	33.8	846	43	903	52.7	954	62.3	1009	73.3		
48000	2623	736	22.6	794	31.6	848	41.3	904	51.6	955	61.8	1005	72.4				
54000	2951	813	29.5	867	39.7	916	50.1	965	61.2	1014	72.6						
60000	3279	892	38	941	48.9	986	60.3										
66000	3607	972	48.2	1017	60												

SIZE 543				Wheel Diameter: 54 1/4"								Class I = 710 RPM Class II = 920 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
26000	1166	383	6.69	479	13	568	21	645	29.5	719	39.2	781	48.4	846	59.2	901	69.7
34000	1525	443	9.78	524	17.2	598	25.4	667	34.7	734	45.3	795	56.4	852	68	909	80.4
42000	1883	510	14	579	22.5	645	31.8	703	41.4	762	52.2	819	64.2	873	76.9		
50000	2242	582	19.5	642	29.4	699	39.8	754	50.7	806	62.4	854	74.1	902	86.9		
58000	2601	657	26.8	709	37.7	760	49.4	809	61.5	857	74.5	903	87.5				
66000	2960	733	35.9	781	48.1	826	61	871	74.8	913	88.3						
74000	3318	810	47.2	854	60.8	895	74.8										
82000	3677	889	61														

SIZE 603				Wheel Diameter: 60"								Class I = 640 RPM Class II = 830 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
30000	1103	338	7.6	428	15.3	511	24.9	582	35.2	647	46	707	57.6	764	70.4	815	83.2
40000	1471	391	11.3	467	20.1	535	30	599	41.4	659	53.9	717	67.7	771	81.9	821	96.2
50000	1838	452	16.3	516	26.5	576	37.6	632	49.7	684	62.4	737	77.1	787	92.6		
60000	2206	519	23	573	34.8	626	47.3	676	60.5	724	74.6	768	88.8	812	104		
70000	2574	587	31.8	635	45.1	682	59.3	726	73.8	771	89.6	811	105				
80000	2941	658	43	701	57.7	742	73.4	783	90	822	106						
90000	3309	729	56.9	768	73.2	806	90.4										
100000	3676	801	73.9														

SIZE 663				Wheel Diameter: 66"								Class I = 585 RPM Class II = 755 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
40000	1216	321	10.4	398	20	468	31.6	532	44.7	591	59	644	73.5	696	89.2	742	105
52000	1581	372	15.3	437	26.5	496	38.6	552	52.6	606	68.3	656	84.9	705	103	747	120
64000	1945	429	21.8	484	34.7	537	48.9	586	63.7	632	79.6	677	96.9	721	116		
76000	2310	489	30.5	536	45.2	583	61.2	627	77.7	669	95	709	113	748	132		
88000	2675	551	41.9	594	58.4	635	76.2	674	94.4	713	114	749	133				
100000	3040	615	56.2	654	74.6	690	93.9	725	114								
112000	3404	679	73.7	715	94.2	748	115										
124000	3769	745	95.2														

SIZE 733				Wheel Diameter: 73"								Class I = 530 RPM Class II = 685 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
45000	1117	279	11.3	354	22.9	420	37	478	52.2	531	68.3	580	85.3	626	104	670	124
60000	1489	324	17	385	30	441	44.9	494	62	544	80.8	589	100	633	121	673	142
75000	1861	375	24.6	427	40	476	56.5	521	74	565	94	607	115	649	138		
90000	2233	431	35	475	52.7	518	71.6	559	91.1	597	112	634	133	670	157		
105000	2605	488	48.4	527	68.4	565	89.6	601	111	637	134	670	157				
120000	2978	547	65.6	582	87.6	616	111	648	136	681	161						
135000	3350	606	86.9	639	111	669	137										
150000	3722	667	113														

Performance shown is for installation Type A: Free inlet, Free outlet. Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

BACKWARD CURVEDq

SIZE 183				Wheel Diameter: 18 1/4"								Class I = 2100 RPM Class II = 2735 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1141	1198	0.99	1420	1.71	1638	2.54	1847	3.48	2047	4.51	2242	5.61	2435	6.83	2615	8.09
3600	1369	1346	1.33	1544	2.14	1729	3.03	1907	4	2082	5.06	2255	6.23	2418	7.42	2586	8.75
4200	1597	1502	1.76	1684	2.67	1844	3.62	2004	4.68	2156	5.77	2307	6.96	2460	8.25	2602	9.56
4800	1825	1665	2.31	1831	3.3	1981	4.36	2117	5.44	2258	6.66	2390	7.87	2533	9.26	2666	10.7
5400	2053	1832	2.98	1983	4.06	2124	5.22	2253	6.42	2373	7.64	2498	8.97	2624	10.4		
6000	2281	2005	3.79	2139	4.96	2272	6.22	2394	7.5	2507	8.81	2620	10.2	2734	11.7		
6600	2510	2180	4.76	2302	6.02	2426	7.38	2542	8.76	2652	10.2						
7200	2738	2356	5.89	2469	7.25	2584	8.71	2694	10.2								

SIZE 203				Wheel Diameter: 20 1/8"								Class I = 1930 RPM Class II = 2510 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4200	1342	1280	1.79	1450	2.74	1610	3.79	1765	4.93	1918	6.22	2063	7.57	2203	9.02	2331	10.5
4800	1534	1415	2.34	1566	3.37	1713	4.52	1851	5.71	1988	7.03	2118	8.4	2248	9.89	2381	11.6
5400	1725	1553	3	1694	4.16	1826	5.38	1951	6.66	2072	7.99	2198	9.5	2318	11.1	2432	12.7
6000	1917	1695	3.8	1823	5.05	1946	6.39	2062	7.75	2174	9.18	2285	10.7	2397	13.8	2502	13.9
6600	2109	1840	4.75	1957	6.11	2069	7.51	2179	9	2284	10.6	2386	12.1	2488			
7200	2300	1986	5.87	2095	7.35	2201	8.88	2303	10.5	2398	12	2498	13.8				
7800	2492	2133	7.17	2235	8.76	2333	10.4	2427	12.1								
8400	2684	2282	8.68	2378	10.4	2470	12.1										

SIZE 223				Wheel Diameter: 22 1/4"								Class I = 1770 RPM Class II = 2305 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4500	1178	1056	1.7	1225	2.76	1390	3.99	1543	5.34	1689	6.8	1833	8.45	1958	10	2092	11.9
5500	1440	1217	2.49	1364	3.71	1501	5.03	1632	6.45	1763	8.04	1890	9.73	2012	11.6	2129	13.4
6500	1702	1387	3.53	1516	4.92	1636	6.38	1753	7.97	1867	9.63	1976	11.4	2084	13.2	2191	15.2
7500	1963	1563	4.88	1676	6.44	1786	8.09	1890	9.8	1991	11.6	2089	13.5	2188	15.5	2280	17.4
8500	2225	1742	6.59	1843	8.3	1943	10.1	2035	12	2130	14	2216	15.9	2305	18		
9500	2487	1923	8.67	2016	10.6	2106	12.6	2192	14.6	2277	16.7						
10500	2749	2107	11.2	2191	13.3	2274	15.5										
11500	3010	2292	14.3														

SIZE 243				Wheel Diameter: 24 1/2"								Class I = 1605 RPM Class II = 2090 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6000	1266	953	2.03	1106	3.39	1253	4.92	1396	6.62	1533	8.48	1669	10.5	1801	12.7	1932	15.1
7200	1519	1079	2.8	1217	4.35	1342	6.03	1465	7.84	1585	9.81	1701	11.8	1823	14.2	1936	16.7
8400	1772	1212	3.82	1339	5.57	1448	7.36	1555	9.33	1663	11.4	1768	13.6	1871	16	1969	18.5
9600	2025	1350	5.1	1463	7.02	1570	9.09	1665	11.2	1757	13.3	1851	15.7	1942	18.2	2036	20.9
10800	2278	1492	6.68	1594	8.81	1692	11	1781	13.3	1867	15.7	1950	18.2	2032	20.8		
12000	2532	1636	8.61	1728	10.9	1818	13.3	1904	15.9	1986	18.5	2063	21.1				
13200	2785	1782	10.9	1865	13.4	1948	16	2029	18.8								
14400	3038	1930	13.7	2005	16.4	2081	19.1										

SIZE 273				Wheel Diameter: 27"								Class I = 1420 RPM Class II = 1850 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1394	939	2.8	1075	4.56	1202	6.57	1323	8.75	1440	11	1557	13.6	1665	16.3	1774	19.3
9400	1638	1057	3.82	1176	5.74	1292	7.96	1396	10.2	1502	12.8	1602	15.4	1706	18.2	1801	21.1
10800	1882	1179	5.09	1286	7.21	1390	9.6	1488	12.1	1582	14.8	1671	17.6	1761	20.5		
12200	2125	1304	6.67	1401	9.01	1495	11.5	1586	14.3	1669	17	1754	20.1	1835	23.2		
13600	2369	1429	8.56	1521	11.2	1606	13.9	1688	16.7	1769	19.8	1848	23.0				
15000	2613	1557	10.8	1643	13.7	1722	16.6	1798	19.7								
16400	2857	1686	13.5	1767	16.7	1841	19.9										
17800	3101	1816	16.6														

SIZE 303				Wheel Diameter: 30"								Class I = 1280 RPM Class II = 1665 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9000	1280	794	2.93	927	5.03	1046	7.33	1162	9.86	1276	12.7	1387	15.9	1488	19.1	1592	22.6
10600	1508	889	3.93	1005	6.19	1114	8.76	1216	11.5	1317	14.5	1415	17.6	1512	21.1	1600	24.5
12200	1735	988	5.18	1093	7.66	1191	10.4	1285	13.4	1373	16.5	1463	19.9	1550	23.4	1633	27
13800	1963	1091	6.75	1185	9.44	1276	12.4	1363	15.7	1445	19	1522	22.4	1603	26.3		
15400	2191	1195	8.6	1282	11.6	1363	14.7	1444	18.1	1521	21.7	1595	25.5				
17000	2418	1300	10.9	1382	14.1	1457	17.5	1532	21.1	1602	24.8						
18600	2646	1407	13.5	1483	17	1555	20.7	1622	24.4								
20200	2873	1514	16.5	1588	20.5	1654	24.4										

Performance shown is for installation Type A: Free inlet, Free outlet. Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

SIZE 333				Wheel Diameter: 33"								Class I = 1175 RPM Class II = 1515 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11000	1314	736	3.82	851	6.26	958	8.89	1058	11.9	1154	15.3	1242	18.9	1334	23.1	1416	27.3
13000	1553	826	5.23	930	7.92	1024	10.9	1115	14	1199	17.3	1281	21.0	1361	25.1	1442	29.7
15000	1792	922	7.08	1015	10	1102	13.3	1183	16.7	1262	20.3	1335	23.9	1412	28.1	1481	32.5
17000	2031	1021	9.34	1104	12.6	1186	16.1	1260	19.9	1331	23.8	1400	27.8	1470	32		
19000	2270	1121	12.1	1197	15.7	1271	19.4	1342	23.5	1406	27.6	1471	32.1				
21000	2509	1223	15.4	1293	19.4	1361	23.4	1428	27.8	1489	32.2						
23000	2748	1327	19.3	1391	23.7	1454	28.2	1515	32.6								
25000	2987	1432	24	1491	28.8												

SIZE 363				Wheel Diameter: 36 1/2"								Class I = 1045 RPM Class II = 1360 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	1176	605	3.44	722	6.13	832	9.17	941	12.9	1041	17.1	1132	21.5	1224	26	1318	30.8
15000	1471	697	4.96	798	8.03	892	11.5	980	15.2	1069	19.2	1156	23.8	1234	28.7	1313	34.3
18000	1765	795	6.91	886	10.6	969	14.4	1044	18.3	1120	22.8	1193	27.3	1268	32.2	1340	37.3
21000	2059	899	9.47	978	13.7	1054	18.1	1126	22.4	1190	26.9	1255	32.0	1318	37.1		
24000	2353	1005	12.7	1076	17.4	1143	22.3	1209	27.3	1273	32.3	1330	37.3				
27000	2647	1113	16.8	1177	21.8	1240	27.4	1299	33	1357	38.4						
30000	2941	1222	21.7	1281	27.2	1339	33.2										
33000	3235	1332	27.6														

SIZE 403				Wheel Diameter: 40 1/4"								Class I = 950 RPM Class II = 1235 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16000	1311	543	4.17	658	7.53	769	12	870	17	964	22.5	1050	28.3	1129	34.2	1202	40.2
20000	1639	623	6	719	9.8	811	14.1	901	19.2	985	25	1066	31.3	1143	38	1216	45
24000	1967	707	8.34	795	12.9	871	17.4	947	22.4	1025	28.3	1096	34.5	1169	41.8		
28000	2295	795	11.3	876	16.6	946	21.8	1011	27.1	1076	32.8	1142	39.1	1208	46.3		
32000	2623	887	15.1	959	21.1	1027	27.1	1084	32.9	1143	39.1	1200	45.5				
36000	2951	981	19.8	1045	26.4	1108	33.2	1166	39.9	1217	46.4						
40000	3279	1077	25.4	1133	32.5	1191	40										
44000	3607	1173	32.2	1225	40												

SIZE 443				Wheel Diameter: 44 1/2"								Class I = 880 RPM Class II = 1120 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	1325	497	5.25	598	9.34	697	14.7	788	21	872	27.7	948	34.7	1023	42.4	1088	49.7
25000	1656	572	7.62	657	12.3	738	17.5	819	23.9	895	31	968	38.8	1036	47.1	1102	55.7
30000	1987	650	10.7	729	16.3	797	21.9	866	28.2	931	35	998	43.1	1061	51.7		
35000	2318	732	14.5	804	21.1	866	27.5	925	34.3	983	41.2	1042	49.1	1099	57.6		
40000	2649	817	19.4	881	26.8	941	34.4	995	41.8	1045	49.2	1097	57.3				
45000	2980	904	25.4	961	33.6	1017	42.1	1069	50.5	1116	58.9						
50000	3311	993	32.8	1044	41.8	1095	51.1										
55000	3642	1083	41.6														

SIZE 493				Wheel Diameter: 49"								Class I = 780 RPM Class II = 1020 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
24000	1311	449	6.28	543	11.3	633	17.8	714	25.2	790	33.3	861	42.0	926	50.7	988	60
30000	1639	516	9.09	594	14.7	669	21.1	741	28.6	811	37.3	878	46.9	941	57.1	1002	67.6
36000	1967	586	12.6	658	19.4	719	26.1	782	33.7	843	42.1	904	52.0	963	62.5	1018	73.4
42000	2295	659	17.2	725	25.1	781	32.8	836	41	889	49.5	943	59.1	996	69.5		
48000	2623	736	22.9	795	32	849	41	897	49.7	944	59	990	68.3				
54000	2951	814	30.1	866	40	917	50.2	965	60.4	1008	70.5						
60000	3279	894	38.8	940	49.6	987	60.9										
66000	3607	974	49.2	1016	60.8												

Performance shown is for installation Type A: Free inlet, Free outlet. Power rating (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

SIZE 543				Wheel Diameter: 54 1/4"								Class I = 710 RPM Class II = 920 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
26000	1166	379	6.38	474	12.5	560	20.3	638	29.1	710	38.7	775	48.5	833	58.4	889	69.3
34000	1525	443	9.74	517	16.3	590	24.1	659	33.4	723	43.7	785	55.0	844	67	899	79.4
42000	1883	511	14.1	577	22	635	29.9	695	39.2	754	49.9	809	61.7	861	74.1	913	87.7
50000	2242	582	19.8	643	29.3	695	38.5	745	48.2	793	58.4	844	70.2	893	83.1		
58000	2601	656	27.2	710	38	760	48.8	804	59.6	846	70.4	889	82.3				
66000	2960	734	36.6	780	48.7	827	61.1	870	73.8	908	85.6						
74000	3318	812	48.2	853	61.6	895	75.2										
82000	3677	891	62.5														

SIZE 603				Wheel Diameter: 60"								Class I = 640 RPM Class II = 830 RPM					
CFM	OV	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP		7" SP		8" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
30000	1103	333	7.2	423	14.7	503	24	575	34.7	638	45.5	696	56.9	751	69.5	806	83.3
40000	1471	391	11.2	460	18.9	528	28.4	591	39.8	652	52.6	707	66.0	763	80.8	811	95
50000	1838	453	16.4	513	25.7	568	35.6	622	46.6	676	59.7	728	74.2	776	89.4	825	106
60000	2206	518	23.3	574	34.7	622	45.8	667	57.4	714	70.3	758	84.1	803	99.9		
70000	2574	587	32.2	636	45.4	681	58.5	722	71.5	760	84.6	800	99.1				
80000	2941	658	43.8	701	58.4	743	73.5	782	88.5	817	103						
90000	3309	730	58.1	768	74.1	806	91.1										
100000	3676	803	75.6														

Performance shown is for installation Type A: Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

SOUND RATINGS PLENUM FANS WITH BACKWARD CURVED AND BACKWARD CURVEDq WHEELS

The sound ratings shown are fan sound power levels (reference 10-12 watts) by octave bands at various speeds at the peak efficiency point of operation. They are the results of laboratory tests based on reverberant room techniques as described in AMCA Standard 300 and processed by the procedures shown in AMCA Standard 301. The ratings include both inlet and outlet sound and the effect of end reflection. For a known installation the ratings can be used to estimate either sound pressure levels by octave band at a particular location, or dBA . . . consult your **nyb** representative.

DETERMINING SOUND POWER LEVEL RATINGS

PROCEDURE	STEPS	EXAMPLE	Determine Outlet Sound Power Levels from a Size 493 BC Plenum Fan operating at 30,000 CFM at 2" SP, 601 RPM, 15.5 BHP, 1639 FPM OV.
Select the Outlet Sound Power Level from Chart II at the speed nearest the fan's operating speed.	1	From Chart II, list the Outlet Sound Power for the eight octave bands for a Size 493 BC Plenum Fan at 601 RPM. See Line 1 below.	
Determine the VP/SP ratio by dividing the velocity pressure at the fan outlet by the static pressure (See Chart I for velocity pressure).	2	Determine the VP/SP ratio of the fan, 1639 FPM OV is equivalent to .167" VP (See Chart I): VP/SP = .167/2 = .084.	
Select the BP/SP correction factors from Chart III and add them algebraically to the fan's Outlet Sound Power Level obtained in Step 1. The result is the Total Corrected Outlet Sound Power Level for the fan at the selected condition.	3	From Chart III, list the appropriate VP/SP correction factors and add them to the ratings in Line 1. See Lines 2 and 3 below.	

	Octave Band	1	2	3	4	5	6	7	8
Line	Center Frequency in HZ	63	125	250	500	1000	2000	4000	8000
1	Fan Sound Power Level	99	97	95	91	88	82	74	68
2	VP/SP Correction Factor	3	3	4	5	8	5	4	4
3	Total Corrected Sound Power Level	102	100	99	96	96	87	78	72

CHART I VELOCITY PRESSURE (VP)

Velocity Pressure (VP) in Inches of Water Velocity, FPM for Standard Air at .075 lbs./cu.ft.					
Velocity (FPM)	VP	Velocity (FPM)	VP	Velocity (FPM)	VP
800	0.040	2200	0.302	4000	1.00
900	0.051	2400	0.359	4200	1.10
1000	0.062	2600	0.422	4400	1.21
1100	0.075	2800	0.489	4600	1.32
1200	0.090	3000	0.561	4800	1.44
1400	0.122	3200	0.638	5000	1.56
1600	0.160	3400	0.721	5200	1.69
1800	0.202	3600	0.808	5400	1.82
2000	0.249	3800	0.900	5600	1.96

CHART II - SOUND POWER LEVELS FOR PLENUM FANS WITH BACKWARD CURVED WHEELS

Size	RPM	Outlet Octave Bands								Inlet Octave Bands							
		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
183	950	72	77	80	75	70	64	58	52	65	71	68	58	54	50	44	38
	1300	78	81	89	84	79	73	67	61	70	76	80	66	62	59	53	47
	1650	84	85	92	91	86	80	74	68	76	79	85	75	68	65	60	54
	2000	90	88	93	96	91	86	80	74	82	81	87	84	74	70	66	60
	2350	95	90	94	102	97	91	85	79	88	83	89	92	79	75	71	65
	2700	98	93	97	105	100	94	88	83	91	86	92	95	82	78	74	69
203	1000	73	83	78	76	72	66	60	54	65	75	69	60	58	52	49	46
	1250	78	84	85	81	79	73	67	61	71	75	76	68	63	59	55	52
	1500	83	84	92	85	84	79	73	67	75	75	83	75	68	65	60	57
	1750	86	87	96	88	87	82	76	70	79	79	87	78	71	68	63	60
	2000	89	88	98	93	91	87	81	75	82	80	90	84	75	73	67	64
2500	92	91	97	98	94	91	86	78	85	83	88	89	81	76	72	66	
223	1000	74	95	79	78	76	70	64	58	68	78	72	63	61	55	52	49
	1250	80	87	100	84	82	77	71	65	74	78	79	71	66	62	58	55
	1500	86	85	104	88	87	83	77	70	79	78	86	78	71	68	63	60
	1750	89	88	107	91	90	87	80	74	82	82	90	81	74	71	66	63
	2000	93	89	110	95	93	91	85	79	85	83	93	87	79	76	70	67
	2250	95	93	100	112	96	94	90	83	88	86	91	92	84	79	75	69
243	900	79	85	88	83	78	72	66	60	73	79	76	65	62	58	52	46
	1100	84	89	92	87	82	76	70	64	77	83	80	70	66	62	56	50
	1300	86	90	98	93	88	82	76	70	79	85	89	75	71	68	62	56
	1500	91	92	99	97	92	87	81	75	83	86	92	82	75	72	67	61
	1700	93	94	102	100	95	89	83	77	86	89	95	84	78	75	69	63
	1900	98	96	101	104	99	94	88	82	90	89	95	92	82	78	74	68
273	850	82	88	84	83	79	73	66	59	71	82	71	66	63	59	54	49
	1050	85	91	90	88	85	80	73	66	74	85	78	72	68	65	60	55
	1250	89	93	95	92	90	85	79	72	79	84	86	77	73	70	65	60
	1450	92	93	99	96	94	90	85	78	83	83	93	82	77	74	70	65
	1650	95	96	102	99	97	93	88	81	85	86	96	85	80	77	73	68
	1850	97	97	104	102	100	97	92	86	88	87	98	90	84	81	77	72
303	800	83	90	86	85	81	75	68	61	73	83	72	68	65	61	56	51
	950	86	92	91	89	86	81	74	67	75	86	79	73	70	66	61	56
	1100	89	96	94	92	89	84	78	71	78	90	82	76	73	69	64	59
	1250	92	96	98	95	93	89	83	76	82	88	89	81	76	73	69	64
	1400	94	98	100	98	96	91	85	78	84	90	92	83	79	75	71	66
	1550	97	98	104	100	99	95	90	83	87	88	98	87	82	79	75	70
333	650	83	90	85	81	77	71	64	57	74	78	70	66	61	57	52	47
	800	85	95	91	87	83	78	71	64	76	84	76	72	67	63	58	53
	950	89	95	96	92	88	83	77	70	80	85	83	77	72	68	63	58
	1100	92	98	99	95	91	86	80	73	83	88	86	80	75	71	66	61
	1250	95	98	104	99	95	91	85	78	86	88	92	84	80	75	71	66
	1400	98	100	106	101	97	93	88	81	89	91	94	86	82	78	73	68
363	600	88	91	86	82	80	73	67	60	79	80	72	69	64	60	54	48
	750	91	95	93	88	86	81	74	67	82	84	80	75	71	66	61	55
	900	92	98	98	94	90	87	80	73	85	88	87	80	76	72	67	61
	1050	95	102	102	97	94	90	83	76	88	91	90	83	80	75	71	65
	1200	96	104	106	101	97	95	89	82	90	94	95	88	84	79	75	69
	1350	99	106	108	104	100	98	91	84	93	96	97	90	87	82	78	72
403	600	91	91	89	85	82	77	70	63	84	83	77	73	68	63	59	55
	700	94	95	92	89	85	80	73	66	87	86	80	76	71	66	62	58
	800	94	100	95	94	89	85	79	72	87	92	84	80	76	71	66	62
	900	94	103	98	98	92	90	83	76	87	96	88	84	80	75	70	66
	1000	96	105	101	100	95	92	86	79	89	98	91	86	82	78	73	68
	1100	98	108	103	102	97	94	88	81	91	101	93	88	84	80	75	71

The sound power level ratings shown are in decibels, referred to 10-12 watts calculated per AMCA Standard 301. Values shown are for outlet Lwo sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction.

CHART II - SOUND POWER LEVELS FOR PLENUM FANS WITH BACKWARD CURVED WHEELS

Size	RPM	Outlet Octave Bands								Inlet Octave Bands							
		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
443	500	93	89	88	83	80	74	67	60	86	79	74	70	66	61	56	52
	600	94	94	92	89	85	80	73	66	87	86	80	76	71	66	62	58
	700	97	98	95	92	88	83	76	69	90	89	83	79	74	69	65	61
	800	97	103	98	97	92	89	82	75	90	95	87	83	79	74	69	65
	900	97	106	101	101	95	93	86	79	90	99	91	87	83	78	73	69
1000	99	109	104	103	98	95	89	82	92	102	94	89	85	81	76	72	
493	450	94	89	89	83	81	74	67	60	87	79	75	71	66	61	57	53
	550	98	94	93	88	85	79	72	65	91	84	79	75	70	66	61	57
	650	99	99	97	93	90	85	78	71	92	90	84	80	76	71	66	62
	750	98	104	100	98	93	90	83	76	91	96	89	85	81	76	71	67
	850	101	107	103	101	96	93	86	79	94	99	92	88	83	78	74	70
950	101	110	105	105	99	97	91	84	94	103	96	91	87	82	77	73	
543	400	94	89	88	83	80	73	66	59	86	78	74	70	65	60	56	52
	500	99	95	94	89	86	80	73	66	92	85	80	76	72	67	62	58
	600	100	100	98	95	91	86	79	72	93	92	86	82	77	72	68	64
	700	103	104	101	98	94	89	82	75	96	95	89	85	80	76	71	67
	800	103	109	104	103	98	95	88	81	96	101	93	89	85	80	75	71
900	103	112	107	107	101	99	92	85	96	105	98	93	89	84	79	75	
603	325	90	88	84	81	76	69	62	55	81	75	71	67	62	58	54	50
	425	98	94	92	87	84	77	70	63	90	83	79	74	69	65	61	57
	525	104	99	98	93	90	84	77	70	97	89	85	81	76	71	67	63
	625	104	104	102	98	95	90	83	76	97	96	90	86	81	76	72	68
	725	104	110	105	104	99	95	89	82	97	102	94	90	86	81	76	72
825	107	112	108	107	102	98	91	84	100	105	97	93	89	84	79	75	
663	300	91	89	85	82	77	70	63	56	83	77	73	68	63	59	55	51
	400	100	95	94	89	85	78	72	65	92	84	80	76	71	66	62	58
	500	105	100	100	95	92	86	79	72	98	91	86	82	77	73	68	64
	600	106	106	104	100	97	92	85	78	99	98	92	88	83	78	74	70
	700	109	110	107	104	100	95	88	81	102	101	95	91	86	81	77	73
733	250	89	88	83	80	74	67	60	53	79	74	70	65	61	56	52	48
	350	98	95	92	88	83	76	69	62	89	83	79	74	69	65	61	57
	450	106	101	101	95	93	86	79	72	99	91	87	83	78	73	69	65
	550	111	106	105	100	97	91	84	77	104	96	92	88	83	78	74	70
	650	111	111	109	105	102	97	90	83	104	102	96	92	88	83	79	75

CHART II - SOUND POWER LEVELS FOR PLENUM FANS WITH BACKWARD CURVEDq WHEELS

Size	RPM	Outlet Octave Bands								Inlet Octave Bands							
		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
183	1200	74	77	86	81	77	71	65	59	64	69	70	61	60	56	52	48
	1500	80	80	89	87	83	78	72	66	69	72	76	69	66	62	58	54
	1800	86	83	89	93	89	84	78	72	74	74	79	76	70	68	64	60
	2100	90	86	92	96	92	87	81	75	77	78	82	79	73	71	67	63
	2400	95	89	92	101	96	92	86	80	81	79	84	85	76	75	71	67
2700	97	91	94	104	99	94	88	83	84	82	86	88	79	78	74	70	
203	1200	76	79	84	83	81	76	69	63	68	73	79	72	64	61	56	50
	1450	81	81	87	88	86	82	75	69	73	73	82	81	69	66	62	56
	1700	84	84	91	91	89	85	79	73	76	76	86	84	72	69	66	60
	1950	88	86	93	95	93	90	84	78	80	77	87	90	78	73	70	65
	2200	90	89	95	97	96	93	86	80	82	80	90	92	80	76	73	67
2450	93	92	95	99	99	96	91	85	85	83	88	94	87	79	76	72	
223	1000	76	76	82	82	79	75	70	65	66	76	78	66	62	59	53	47
	1250	84	81	86	86	86	81	77	72	72	76	83	76	68	65	60	54
	1500	89	84	89	90	90	87	83	77	77	76	86	84	73	70	66	60
	1750	93	88	92	93	94	90	86	81	80	80	90	88	76	73	69	63
	2000	96	91	91	97	97	94	90	85	83	81	91	93	81	77	74	68
2250	98	97	94	99	99	98	94	89	86	84	89	95	89	80	77	71	
243	950	78	84	88	84	79	73	67	61	70	74	71	65	63	59	55	51
	1150	82	85	94	89	85	79	73	67	72	77	78	69	68	64	60	56
	1350	85	88	97	93	88	82	76	70	76	80	82	73	72	68	64	60
	1550	90	90	98	97	93	87	81	75	79	82	85	78	75	72	68	64
	1750	92	92	101	100	96	90	84	78	81	84	88	81	78	75	71	67
1950	97	94	100	104	99	94	88	82	85	85	89	87	81	78	74	70	

The sound power level ratings shown are in decibels, referred to 10-12 watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and outlet Lwo sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction.

CHART II - SOUND POWER LEVELS FOR PLENUM FANS WITH BACKWARD CURVED_q WHEELS

Size	RPM	Outlet Octave Bands								Inlet Octave Bands							
		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
273	850	81	87	85	83	78	74	70	66	71	77	72	67	63	61	59	57
	1050	84	90	90	88	84	80	76	72	74	80	78	73	69	66	64	62
	1250	88	92	95	93	89	85	81	77	78	82	83	78	74	71	69	67
	1450	92	92	99	97	94	89	85	81	82	82	88	83	78	75	73	71
	1650	95	95	101	99	97	92	88	84	85	85	91	86	81	77	75	73
1850	97	96	103	103	101	96	92	88	87	86	93	90	85	81	79	77	
303	800	82	89	87	84	80	76	72	68	72	78	73	69	65	63	61	59
	950	85	91	91	89	85	81	77	73	75	81	79	74	70	67	65	63
	1100	88	95	94	92	88	84	80	76	78	85	82	77	73	71	69	67
	1250	91	95	98	96	93	88	84	80	81	85	86	82	77	74	72	70
	1400	94	97	100	98	95	90	86	82	84	87	89	84	79	76	74	72
1550	96	97	103	101	99	94	90	86	86	87	93	88	83	79	77	75	
333	700	84	89	86	82	77	71	64	57	75	77	71	67	61	57	54	51
	850	87	93	92	88	83	77	70	63	78	83	76	73	67	62	59	56
	1000	91	94	96	93	88	83	76	69	81	85	82	77	73	67	63	60
	1150	94	95	100	97	93	88	82	75	83	86	88	81	78	72	67	65
	1300	97	98	102	100	96	90	84	77	86	88	91	84	80	75	70	67
1450	99	98	105	103	100	95	89	82	88	89	95	88	85	79	74	71	
363	600	82	88	86	82	79	74	68	62	75	80	73	69	63	61	56	51
	750	87	90	92	88	85	81	75	69	83	82	81	75	70	67	63	58
	900	91	92	96	94	90	86	81	75	91	84	87	81	76	71	68	63
	1050	94	96	100	97	93	90	85	79	94	88	90	84	80	75	72	67
	1200	97	97	103	101	97	94	89	83	100	90	95	88	84	78	76	71
1350	100	100	105	104	100	97	92	86	103	92	97	91	87	81	79	74	
403	600	84	89	91	86	82	79	75	69	77	82	79	73	69	66	63	59
	700	88	93	94	90	86	83	78	72	80	85	82	76	72	69	66	62
	800	90	93	98	95	89	87	83	77	81	87	88	80	76	73	70	66
	900	92	94	100	99	93	90	87	81	82	87	92	84	80	76	74	70
	1000	94	96	103	101	96	92	89	84	84	90	95	87	82	78	76	72
1100	96	98	105	103	98	94	91	86	86	92	97	89	84	80	78	75	
443	500	84	91	89	84	80	77	72	66	78	83	75	70	66	64	60	56
	600	87	92	94	90	85	82	78	72	80	85	82	76	72	69	66	62
	700	91	96	97	93	89	86	81	75	83	88	85	79	75	72	69	65
	800	93	96	101	98	93	90	86	80	84	90	91	83	79	76	73	69
	900	95	97	103	102	96	93	90	84	85	90	96	88	83	79	77	73
1000	97	99	106	104	99	95	92	87	87	93	98	90	85	81	79	76	
493	450	85	91	90	84	81	78	72	66	78	83	75	71	67	65	61	57
	550	89	96	94	89	85	82	77	71	83	88	80	75	71	69	65	61
	650	92	97	99	94	90	87	82	76	84	90	86	80	76	74	70	66
	750	94	98	102	99	94	91	87	81	85	91	92	85	81	77	75	71
	850	97	100	105	102	97	94	90	84	88	94	95	88	84	80	78	74
950	99	101	108	106	100	97	94	88	89	95	100	92	87	83	81	77	
543	400	87	92	89	84	81	77	71	65	81	82	74	70	67	64	60	56
	500	90	97	95	90	86	83	78	72	84	89	81	76	72	70	66	62
	600	93	98	100	96	91	88	84	78	86	91	88	82	78	75	72	68
	700	97	102	103	99	95	92	87	81	89	94	91	85	81	78	75	71
	800	99	102	107	104	99	96	92	86	90	96	97	89	85	82	79	75
900	101	103	109	108	102	99	96	90	91	97	102	94	89	85	83	79	
603	325	88	90	85	81	78	73	67	61	81	77	71	67	65	62	58	54
	425	92	96	93	88	85	81	75	69	85	86	79	75	71	69	65	61
	525	94	101	99	94	90	88	82	76	88	93	85	81	77	74	71	67
	625	97	102	104	99	95	92	88	82	90	95	92	86	82	79	76	72
	725	100	103	108	105	99	97	93	87	91	97	98	90	86	83	80	76
825	103	106	111	108	102	99	96	90	94	99	101	93	89	86	83	79	

The sound power level ratings shown are in decibels, referred to 10-12 watts calculated per AMCA Standard 301. Values shown are for inlet Lwi and outlet Lwo sound power levels for installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correctio

CHART III - VP/SP CORRECTION FACTORS FOR PLENUM FANS WITH BACKWARD CURVED WHEELS

Size	RPM	VP/SP	Point of Fan Operation	Outlet Octave Bands								Inlet Octave Bands							
				1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
183	Up to 2000	0 to .03	Peak SP	-2	-1	0	-1	-2	-2	-2	-3	-1	-1	1	0	-1	-2	-1	0
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	3	3	3	3	4	7	3	-2	2	2	3	3	5	6	3	0
		.7 and Up	Near Wide Open	4	4	4	5	6	9	6	1	5	4	4	5	6	8	5	1
183	Over 2000	0 to .03	Peak SP	-2	-2	-1	-1	-2	-1	-1	-3	1	-2	-1	2	-1	-1	-1	-1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	5	3	3	2	3	5	8	3	3	2	2	4	3	5	6	3
		.7 and Up	Near Wide Open	7	3	4	3	5	6	11	6	4	5	4	5	5	6	9	5
203	Up to 1500	0 to .03	Peak SP	4	2	0	1	0	0	0	0	2	1	0	-1	-2	-2	-1	-1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	2	2	3	3	5	3	1	1	0	1	2	1	1	1	-1	-2
		.7 and Up	Near Wide Open	4	3	5	6	8	8	5	5	3	5	5	4	7	6	3	2
203	Over 1500	0 to .03	Peak SP	4	4	0	0	0	0	0	0	3	2	0	-1	-1	-2	-1	-1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	2	2	3	3	3	5	2	1	0	0	1	1	1	1	1	-1
		.7 and Up	Near Wide Open	4	4	3	5	6	10	6	5	4	3	5	4	4	7	5	3
223	Up to 1250	0 to .03	Peak SP	2	-2	-2	-1	-2	-2	-1	0	2	1	-1	-1	-3	-2	-1	-1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	2	2	3	3	3	2	2	0	0	1	2	1	2	1	-1	-2
		.7 and Up	Near Wide Open	3	1	2	5	7	8	5	2	3	5	5	4	8	6	3	2
223	Over 1250	0 to .03	Peak SP	1	2	0	-3	-1	-1	-2	-2	3	2	0	-1	-1	-3	-1	-1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	1	1	2	3	3	3	3	2	0	0	2	1	1	2	0	-1
		.7 and Up	Near Wide Open	3	3	2	1	4	6	8	6	4	4	5	4	5	8	5	3
243	Over 900	0 to .03	Peak SP	-2	-1	0	-1	-2	-2	-2	-3	-2	-1	1	-1	-1	-2	-1	0
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	3	3	2	3	5	6	3	-2	2	2	3	4	5	5	3	0
		.7 and Up	Near Wide Open	4	4	4	5	6	9	6	1	5	4	4	5	6	8	5	1
273	Up to 1050	0 to .03	Peak SP	-2	-2	-2	-2	-2	-2	-1	1	-1	-2	-2	-1	-1	-1	0	1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	2	4	3	3	6	7	3	-3	3	3	3	4	5	4	2	-1
		.7 and Up	Near Wide Open	3	6	5	4	8	10	5	-2	4	4	5	5	8	8	4	0
273	Over 1050	0 to .03	Peak SP	-1	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-2	-1	-1	-1	0
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	2	4	3	3	6	7	3	-3	3	3	3	3	5	5	4	2
		.7 and Up	Near Wide Open	2	4	6	5	5	9	10	3	4	4	4	5	6	8	7	4
303	Up to 1100	0 to .03	Peak SP	-2	-2	-2	-2	-2	-2	-1	0	-1	-1	-1	-1	-1	-1	0	1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	2	3	3	3	5	7	3	-2	3	3	3	4	5	4	2	0
		.7 and Up	Near Wide Open	3	5	5	4	7	10	5	-2	4	4	5	5	7	8	4	0
303	Over 1100	0 to .03	Peak SP	-1	-2	-2	-2	-2	-2	-1	-1	0	-1	-1	-2	-1	-1	-1	0
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	2	3	4	3	4	6	5	0	3	3	3	3	4	5	3	1
		.7 and Up	Near Wide Open	2	4	6	5	5	9	8	1	4	4	4	5	6	8	6	2
333	Over 1200	0 to .03	Peak SP	-2	-3	-3	-3	-2	-2	-1	0	0	-1	-1	-2	-2	-2	-1	1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	2	3	3	2	3	3	3	2	1	2	2	2	2	2	2	1
		.7 and Up	Near Wide Open	4	5	5	5	7	10	8	1	3	4	5	5	7	9	6	-2
363	Up to 900	0 to .03	Peak SP	-1	-1	-1	-2	-2	-2	-1	-1	0	2	2	-1	-1	-2	-1	1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	2	4	4	5	6	5	3	2	4	6	5	4	5	4	2	2
		.7 and Up	Near Wide Open	3	4	5	7	8	9	5	1	4	7	6	6	8	7	4	2
363	Over 900	0 to .03	Peak SP	0	-2	-1	-1	-2	-2	-1	-1	0	0	3	1	-2	-1	-2	0
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	2	3	4	4	5	7	4	3	2	5	6	4	4	6	2	2
		.7 and Up	Near Wide Open	3	4	4	6	7	9	8	4	2	5	7	6	6	10	5	3
403	Up to 700	0 to .03	Peak SP	-1	-2	-3	-3	-3	-2	-1	-1	-2	-2	-2	-2	-2	-1	-1	1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	3	3	4	6	7	6	4	4	2	3	4	4	6	6	3	2
		.7 and Up	Near Wide Open	5	5	5	7	10	9	7	7	3	4	6	6	9	9	6	5
403	Over 700	0 to .03	Peak SP	-2	-2	-2	-3	-3	-3	-1	-1	-2	-2	-1	-2	-2	-2	-1	0
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	1	3	3	4	6	8	4	4	1	2	3	4	4	6	4	3
		.7 and Up	Near Wide Open	3	5	5	5	8	11	7	7	3	3	5	6	6	9	7	6

Size	RPM	VP/SP	Point of Fan Operation	Outlet Octave Bands								Inlet Octave Bands								
				1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	
443	Up to 600	0 to .03	Peak SP	-1	-2	-3	-3	-3	-2	-1	-1	-2	-2	-2	-2	-2	-2	-1	1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	3	3	4	5	8	5	4	4	2	3	4	4	6	5	4	3	
		.7 and Up	Near Wide Open	5	5	5	7	11	8	7	7	3	5	6	6	9	8	7	6	
493	Up to 750	0 to .03	Peak SP	-2	-2	-2	-3	-2	-3	-1	-1	-2	-2	-1	-2	-2	-2	-1	0	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	2	3	4	4	6	7	4	4	1	2	4	4	5	6	4	3	
		.7 and Up	Near Wide Open	4	5	5	6	9	10	7	7	3	3	6	6	7	9	7	6	
543	Up to 600	0 to .03	Peak SP	-1	-2	-3	-2	-3	-1	-1	-1	-2	-1	-2	-2	-2	-1	0	1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	3	3	4	5	7	5	4	4	2	3	4	4	6	4	3	2	
		.7 and Up	Near Wide Open	5	5	5	7	10	8	7	7	3	5	6	6	9	7	6	5	
603	Up to 625	0 to .03	Peak SP	-2	-2	-2	-3	-2	-2	-1	-1	-2	-2	-2	-2	-2	-2	0	1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	2	3	4	4	6	7	4	4	1	2	3	4	5	6	4	3	
		.7 and Up	Near Wide Open	4	5	5	6	9	10	7	7	3	3	5	6	7	9	7	6	
663	Over 300	0 to .03	Peak SP	-1	-2	-3	-3	-2	-1	-1	-1	-2	-1	-2	-2	-2	-1	0	1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	3	3	4	6	7	5	4	4	2	3	4	5	6	4	3	2	
		.7 and Up	Near Wide Open	5	5	5	8	10	8	7	7	3	5	6	7	9	7	6	5	
733	Up to 350	0 to .03	Peak SP	-2	-2	-3	-2	-2	-1	-1	-1	-1	-2	-2	-2	-2	0	1	2	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	3	4	5	7	6	4	4	4	3	4	4	6	6	4	3	2	
		.7 and Up	Near Wide Open	5	5	6	10	9	7	7	7	4	6	6	8	9	7	6	5	
183	Up to 1500	0 to .03	Peak SP	0	-1	-2	-2	-2	-2	-1	0	-2	-1	-1	-1	-1	-1	-1	-1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	2	3	2	2	3	6	4	-1	2	3	3	3	7	4	-1		
		.7 and Up	Near Wide Open	2	4	3	3	5	10	6	1	4	4	5	4	5	10	7	3	
203	Up to 1700	0 to .03	Peak SP	1	1	1	-1	-2	-3	-2	-2	3	2	0	-2	-1	-1	-1	1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	4	3	3	4	3	4	3	2	4	2	1	1	3	3	2	1	
		.7 and Up	Near Wide Open	5	5	5	6	5	6	4	4	6	4	3	2	4	6	3	2	
203	Over 1700	0 to .03	Peak SP	0	0	1	0	-2	-3	-2	-2	3	3	1	-1	-1	-1	-2	-1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	3	3	3	3	2	4	4	2	4	3	1	0	2	4	3	1	
		.7 and Up	Near Wide Open	5	5	4	5	4	6	5	4	6	5	3	2	3	6	4	2	

CHART III - VP/SP CORRECTION FACTORS FOR PLENUM FANS WITH BACKWARD CURVED WHEELS

Size	RPM	VP/SP	Point of Fan Operation	Outlet Octave Bands								Inlet Octave Bands							
				1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
183	Up to 1500	0 to .03	Peak SP	0	-1	-2	-2	-2	-2	-1	0	-2	-1	-1	-1	-1	-1	-1	-1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	2	3	2	2	3	6	4	-1	2	3	3	3	7	4	-1	
		.7 and Up	Near Wide Open	2	4	3	3	5	10	6	1	4	4	5	4	5	10	7	3
203	Up to 1700	0 to .03	Peak SP	1	1	1	-1	-2	-3	-2	-2	3	2	0	-2	-1	-1	-1	1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	4	3	3	4	3	4	3	2	4	2	1	1	3	3	2	1
		.7 and Up	Near Wide Open	5	5	5	6	5	6	4	4	6	4	3	2	4	6	3	2
203	Over 1700	0 to .03	Peak SP	0	0	1	0	-2	-3	-2	-2	3	3	1	-1	-1	-1	-2	-1
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	3	3	3	3	2	4	4	2	4	3	1	0	2	4	3	1
		.7 and Up	Near Wide Open	5	5	4	5	4	6	5	4	6	5	3	2	3	6	4	2

Size	RPM	VP/SP	Point of Fan Operation	Outlet Octave Bands								Inlet Octave Bands								
				1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	
223	Up to 1250	0 to .03	Peak SP	1	4	3	0	0	-2	-3	-2	3	2	0	-2	-1	-2	-1	1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	0	1	2	1	1	0	1	2	3	2	0	1	3	3	2	1	1
		.7 and Up	Near Wide Open	0	3	5	3	3	4	2	3	5	4	2	3	5	5	3	2	2
243	Over 950	0 to .03	Peak SP	0	-1	-2	-2	-2	-2	-1	0	-2	-1	-1	-1	-1	-1	-1	-1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	2	3	2	2	3	6	4	-1	2	3	3	3	3	6	3	-1	1
		.7 and Up	Near Wide Open	1	4	3	3	5	9	7	2	4	4	5	4	4	8	6	2	2
273	Up to 1250	0 to .03	Peak SP	-1	-2	-1	-1	-1	-1	-1	-1	-2	-2	-2	-1	-2	-2	-1	0	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.07 to .7	1/2 Peak SP	1	2	3	2	6	5	5	5	1	2	3	2	5	3	4	7	1
		.7 and Up	Near Wide Open	2	2	4	4	8	9	7	4	2	3	4	4	8	7	7	8	8
303	Over 800	0 to .03	Peak SP	-2	-1	-2	-2	-2	-2	0	1	0	-1	-1	-1	-1	0	0	0	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	1	2	3	3	5	6	5	5	2	2	3	2	4	4	4	7	
		.7 and Up	Near Wide Open	2	2	4	4	7	10	8	5	2	3	4	3	7	7	7	8	8
333	Up to 1150	0 to .03	Peak SP	-2	-1	-2	-2	-2	-2	0	1	0	-1	-1	-1	-1	0	0	0	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	2	3	2	4	5	6	4	3	2	2	3	3	4	4	3	0	
		.7 and Up	Near Wide Open	3	4	4	5	7	9	7	3	3	4	5	5	7	8	5	-2	
363	Over 600	0 to .03	Peak SP	-2	-2	-1	-2	-2	-2	-1	0	2	-1	-1	-1	-1	-1	0	0	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	1	3	3	2	4	6	6	4	2	2	2	3	4	5	4	2	
		.7 and Up	Near Wide Open	2	4	4	4	5	8	10	6	4	4	4	5	6	8	9	3	
403	Over 600	0 to .03	Peak SP	0	-1	-2	-2	-1	-1	-1	0	0	0	-1	-1	-1	-1	-1	0	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	3	4	4	3	5	6	2	1	2	3	3	4	5	6	3	2	
		.7 and Up	Near Wide Open	1	2	2	2	4	5	4	2	4	4	4	6	7	9	5	4	
443	Up to 700	0 to .03	Peak SP	0	-2	-2	-2	-1	-1	0	1	0	-1	-1	-1	-1	-1	0	1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	4	4	3	3	7	3	1	1	3	3	4	4	6	5	3	2	
		.7 and Up	Near Wide Open	4	4	5	5	10	7	4	3	4	4	5	6	9	7	5	4	
493	Over 700	0 to .03	Peak SP	0	0	-2	-2	-1	-1	-1	0	0	0	-1	-1	-1	-1	-1	0	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	3	4	4	3	5	7	2	1	2	3	3	4	4	7	3	2	
		.7 and Up	Near Wide Open	4	4	4	5	7	11	6	5	4	4	5	6	7	10	5	4	
543	Up to 700	0 to .03	Peak SP	0	-2	-2	-2	-1	-1	0	1	0	-1	-1	-1	-1	-1	0	1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	4	4	3	4	7	3	1	1	3	3	4	4	6	4	3	2	
		.7 and Up	Near Wide Open	4	4	5	6	10	7	4	3	4	4	6	6	9	6	5	4	
603	Over 525	0 to .03	Peak SP	0	0	-2	-2	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	3	4	4	3	5	7	2	1	2	3	3	4	5	7	3	2	
		.7 and Up	Near Wide Open	4	4	4	5	7	11	6	4	4	4	6	7	10	5	4	4	
603	Up to 525	0 to .03	Peak SP	-1	-2	-2	-1	-1	-1	0	1	0	-1	-1	-1	-1	-1	0	1	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	4	4	3	5	6	1	1	1	3	4	4	5	5	3	1	0	
		.7 and Up	Near Wide Open	4	4	5	8	10	5	4	3	4	5	6	7	8	5	3	2	
603	Over 525	0 to .03	Peak SP	0	-1	-2	-2	-1	-1	-1	0	0	-1	-1	-1	-1	-1	-1	0	
		.03 to .07	Peak ME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		.07 to .7	1/2 Peak SP	3	4	3	3	6	6	1	1	2	3	3	4	5	6	3	2	
		.7 and Up	Near Wide Open	4	4	4	5	9	10	4	3	4	4	4	6	7	8	5	4	

**THE NEW YORK BLOWER COMPANY POLICY
REGARDING "SOUND" SPECIFICATIONS**

NOTE: This policy statement is presented both as a guide to purchasers of fan equipment and as a resolution of nyb's responsibility in cases where the purchaser has requested that nyb equipment meet certain noise level specifications.

nyb provides sound power level ratings in each of the eight octave bands, as tested and rated in accordance with Air Movement and Control Association International (AMCA) Standard 300. These ratings are statements of the total sound energy levels emanating from the inlet and outlet of the fan itself.

These sound power ratings are considered the only truly accurate basis for comparison, or for further estimating the resultant noise levels within a given system or installation.

In some cases, **nyb** offers silencers for the fan inlet and/or out-let that can be used to attenuate sound power emanating through the fan inlet or outlet. Specific ratings are available to determine the revised sound level resulting from the use of such silencers.

Though methods are available for estimating values of sound pressure levels by octave band or the single number dBA at points some distance from the fan, these result merely in estimates based on ideal situations that do not take into effect background noise, other

sound producing equipment in an installation, the effective building configuration and construction and/or the effects of ductwork configuration and physical construction.

Specifications demanding guaranteed pressure levels in any form, either adjacent to the fan or at other points in the installation or system, can only be met through qualified analysis of the total system and physical environs by professional Acoustical Consultants or trained Acoustical Engineers - a professional service that is clearly beyond the responsibility of the fan manufacturer.

Consequently, **nyb** offers these sound power level ratings, as tested and rated in accordance with AMCA Standard 300, as the only qualified tool for meaningful evaluation by the purchaser or his agent. This constitutes an exception to any specification for sound data or guarantees in any form other than sound power level ratings.

Form 109 MJN