

Air Movement

SOURCE BOOK

ACME AIR MOVING SOLUTIONS

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ACME



Est. 1938



Belt Drive Centrifugal Roof Exhauster

Model PV

Est. 1938

Includes the following Model/Options			
PV	General Ventilation	PVH	General Ventilation Hurricane Rated
PVD	General Ventilation Direct Drive	PVDH	General Ventilation Hurricane Rated Direct Drive

MIAMI-DADE COUNTY
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Model PV belt drive fans are centrifugal power roof ventilators designed for exhausting clean air. Capacities up to 40,608 CFM and up to 2 inch static pressure. The aerodynamic design of the PV impeller and orifice results in high air performance and low sound. Typical applications for the PV includes a wide range of commercial, institutional, and industrial facilities such as schools, office buildings, hospitals, prisons, assembly areas, and restaurants.



Standard Construction Features	PV	PVH	PVD	PVDH
Heavy Gauge Aluminum Windband	x	x	x	x
Bolt on Hood	x	x	x	x
Aluminum Backward Curved Wheel	x	x	x	x
Bearings L50 Life of 200,000 Hours	x	x		
Galvanized Birdscreen	x	x	x	x
Continuous Duty Motors	x	x	x	x
EC motors (ECM technology)			x	x
Hurricane Rated		x		x
UL705	x	x	x	x
NEMA 1 Disconnect*	x	x	x	x

*Fans with explosion-proof motors receive an explosion-proof disconnect not mounted or wired

For submittals, detailed air and sound information, available options and accessories, please go to FANTastic!® Commercial www.acmefan.com.

Construction Features

Housing

- Hoods and housing constructed of heavy gauge aluminum
- Wheel and drive assembly supported by rugged steel frame
- Steel fasteners are zinc dichromate plated
- Heavy gauge galvanized wire birdscreen
- Vibration Isolation

Centrifugal Wheel

- Aluminum construction backward curved blades
- Non-overloading design for safe operation
- Precision balanced for smooth vibration free operation

Bearings

- Permanently lubricated in an Acme D.S. pillow block housing
- Bearings are resiliently mounted in neoprene rings
- Rated at L50 life of 200,000 hours
- 5 year** limited warranty on Acme D.S. pillow block bearings

Drive Assembly

- Cast iron drives sized for 150% of drive horsepower
- Static free, oil and heat resistant belts

Motors

- Continuous duty motors located outside the airstream
- Motor compartment cooled by fins located on top of impeller



Options/Accessories

- Roof Curbs
- Dampers
- Coatings
- Aluminum Birdscreen*

*Excludes hurricane models



Acme Engineering & Manufacturing Corporation certifies that the models 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.



U.L. 705 Listed

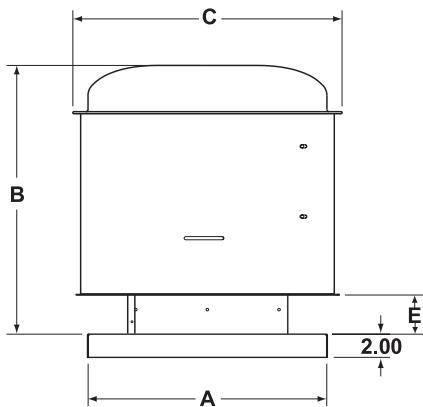
Consult your Acme representative for availability.



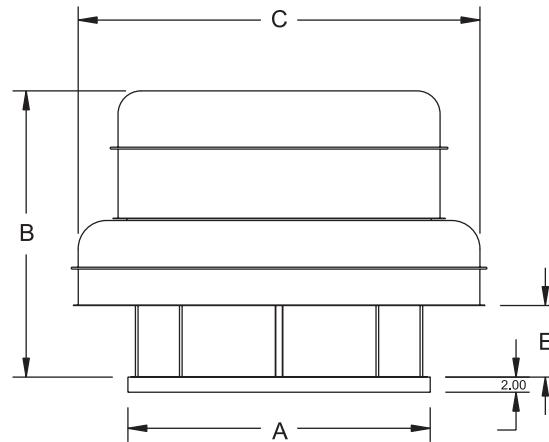
Est. 1938

Belt Drive Centrifugal Roof Exhauster

Model PV



PV075 through PV240



PV260 through PV543

DIMENSIONS								
Fan Model	A	B	C	E	Roof Opening*‡	Damper Model	Curb Model ‡	Hurricane Curb Model
PV075	21.00	23.62	23.67	3.44	16.5 x 16.5	AR16	C19.5	CH20.7
PV085	21.00	23.62	23.67	3.44	16.5 x 16.5	AR16	C19.5	CH20.7
PV100	21.00	23.62	23.67	3.44	16.5 x 16.5	AR16	C19.5	CH20.7
PV120	21.00	26.75	29.38	4.06	16.5 x 16.5	AR16	C19.5	CH20.7
PV135	21.00	26.75	29.38	4.06	16.5 x 16.5	AR16/ARQ16	C19.5	CH20.7
PV150	24.00	30.96	35.14	5.19	19.5 x 19.5	AR18/ARQ18	C22.5	CH23.7
PV165	24.00	30.96	35.14	5.19	19.5 x 19.5	AR18/ARQ18	C22.5	CH23.7
PV180	28.00	35.40	39.60	6.19	23.5 x 23.5	AR22/ARQ22	C26.5	CH27.7
PV200	28.00	35.40	39.60	6.19	23.5 x 23.5	AR22/ARQ22	C26.5	CH27.7
PV220	34.00	38.39	46.49	7.75	29.5 x 29.5	AR28/ARQ28	C32.5	CH33.7
PV240	34.00	38.39	46.49	7.75	29.5 x 29.5	AR28/ARQ28	C32.5	CH33.7
PV260	40.00	37.00	53.00	8.75	35.5 x 35.5	AR34/ARQ34	C38.5	CH36.7
PV300	40.00	37.00	53.00	8.75	35.5 x 35.5	AR34/ARQ34	C38.5	CH36.7
PV365	46.00	46.00	64.00	9.50	41.5 x 41.5	ARQ40	C44.5	CH45.7
PV425	60.00	50.00	82.00	11.50	55.5 x 55.5	ARQ54	C58.5	CH59.7
PV490	60.00	54.00	82.00	15.50	55.5 x 55.5	ARQ54	C58.5	CH59.7
PV543	60.00	57.00	82.00	16.50	55.5 x 55.5	ARQ54	C58.5	CH59.7

Dimensions are shown in inches.

*Recommended maximum.

† Please contact your local representative for correct rated sizing for hurricane.

RPM	PERFORMANCE DATA																					
	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones		
294	143																					
420	206																PV075E1	1/4 Hp	294 - 437	81	86	
437	214																PV075E2	1/4 Hp	420 - 621	77	82	
581	286																PV075E3	1/4 Hp	581 - 833	78	83	
621	305	119															PV075E4	1/4 Hp	707 - 1039	78	83	
707	348	217															PV075E5	1/4 Hp	911 - 1228	78	83	
833	410	306	56														PV075E6	1/4 Hp	977 - 1468	77	82	
911	449	358	215														PV075E7	1/4 Hp	1247 - 1681	78	83	
977	482	398	288														PV075E8	1/4 Hp	1421 - 1915	77	82	
1039	512	435	336	123																		
1228	606	543	466	378	210																	
1247	615	554	479	393	248																	
1421	701	647	586	515	439	315																
1468	724	672	614	547	474	374	170															
1681	829	784	737	683	622	559	488	372	160													
1750	863	820	776	724	668	606	545	458	326													
1915	945	905	865	820	773	719	662	608	537	266												
	0.14	3.7	0.15	7.2	0.16	8.3	0.16	8.7	0.16	9.2	0.17	9.9	0.17	9.5	0.17	10.2	0.15	9.4				

RPM	PERFORMANCE DATA																					
	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"	
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones		
707	503	322																				
911	649	528	332														PV085E1	1/4 Hp	707 - 1039	96	101	
977	696	584	429														PV085E2	1/4 Hp	911 - 1228	96	101	
1039	740	635	501	255													PV085E3	1/4 Hp	977 - 1468	96	101	
1228	875	786	693	562	358												PV085E4	1/4 Hp	1247 - 1681	96	101	
1247	889	801	711	585	395												PV085E5	1/4 Hp	1421 - 1915	96	101	
1369	976	896	815	717	591	393																
1421	1013	936	858	769	653	491	204															
1468	1047	972	897	815	708	567	356															
1575	1123	1054	983	912	823	714	570	352														
1681	1199	1134	1068	1002	927	837	729	581	368													
1750	1248	1185	1122	1059	993	909	811	692	533													
1840	1312	1253	1193	1132	1072	998	915	816	691	282												
1915	1366	1309	1251	1193	1135	1071	993	905	807	513												
	0.21	7.6	0.22	10.4	0.22	11.4	0.23	11.9	0.24	11.8	0.24	11.9	0.24	11.8	0.24	12.0	0.22	11.8				

Performance certified is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (BHP) does not include transmission losses. The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels. The brake horsepower capability of an exhaust fan is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.

PERFORMANCE DATA
CFM and Sones vs. Static Pressure

RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"	
	BHP	Sones																				
707	531	356	0.01	0.5	0.01	0.8																
911	685	570	0.02	1.6	0.03	2.4	0.03	2.4														
977	735	629	0.03	1.9	0.04	2.9	0.04	2.7														
1039	782	683	0.04	2.2	0.04	3.3	0.04	3.0	0.04	3.3												
1228	924	843	0.06	3.3	0.07	4.7	0.07	4.7	0.08	4.6	0.07	5.0										
1247	938	858	0.06	3.5	0.07	4.8	0.08	4.9	0.08	4.7	0.07	5.2										
1369	1030	957	0.09	4.3	0.09	5.8	0.10	5.9	0.10	5.8	0.10	6.0	0.09	6.2								
1421	1069	999	0.10	4.7	0.10	6.3	0.11	6.4	0.11	6.3	0.12	6.2	0.11	6.6								
1468	1105	1037	0.11	5.1	0.11	6.7	0.12	6.8	0.12	6.7	0.13	6.6	0.12	7.0	0.11	7.1						
1681	1265	1206	0.16	6.0	0.17	7.4	0.17	7.5	0.18	7.5	0.19	7.5	0.19	7.6	0.19	7.7	0.18	7.9	0.17	7.9		
1915	1442	1390	0.24	7.6	0.24	9.2	0.25	9.6	0.26	9.7	0.27	9.7	0.28	9.5	0.28	9.5	0.28	9.8	0.25	10.0		
2054	1546	1498	0.29	8.7	0.30	10.4	0.31	11.0	0.32	11.1	0.33	11.1	0.34	11.0	0.34	10.8	0.35	10.8	0.35	10.8	0.34	11.3

PV120 & PVD120
PERFORMANCE DATA
CFM and Sones vs. Static Pressure

Belt Drive	Direct Drive	RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"		1.625"				
			BHP	Sone																									
1/4 HP	EC-1/2 & 3/4 HP	300	329																										
		513	566	245	0.01	2.0	0.01	0.8																					
		734	811	648	0.02	4.6	0.02	3.1	0.03	2.6																			
		770	851	698	0.02	5.1	0.03	3.6	0.03	3.0																			
		887	981	852	0.03	6.4	0.04	5.1	0.05	4.5	0.05	4.1																	
		907	1003	878	0.04	6.6	0.04	5.4	0.05	4.7	0.05	4.3																	
		1080	1194	1093	0.06	9.0	0.07	7.5	0.08	7.0	0.08	6.6	0.09	6.4	0.06	5.5													
		1149	1271	1176	0.07	10.2	0.08	8.4	0.09	8.1	0.10	7.4	0.10	7.4	0.10	7.1													
		1200	1327	1236	0.08	11.0	0.10	9.2	0.10	8.9	0.11	8.1	0.12	8.1	0.12	7.8	0.10	7.2											
		1264	1398	1312	0.10	12.2	0.11	10.4	0.12	10.0	0.13	9.2	0.14	8.9	0.14	8.8	0.14	8.5	0.09	7.0									
		1301	1439	1355	0.11	12.9	0.12	11.3	0.13	10.6	0.14	9.9	0.15	9.4	0.15	9.3	0.15	9.1	0.13	8.5									
		1304	1442	1359	0.11	13.0	0.12	11.3	0.13	10.6	0.14	10.0	0.15	9.4	0.15	9.4	0.15	9.1	0.13	8.6									
		1489	1647	1574	0.16	17.2	0.18	15.7	0.19	14.3	0.20	13.8	0.21	13.0	0.22	12.4	0.22	12.4	0.23	12.1	0.22	11.7							
		1584	1752	1683	0.19	18.9	0.21	17.6	0.22	15.8	0.24	15.6	0.25	14.9	0.26	13.9	0.26	13.7	0.27	13.7	0.27	13.5	0.26	12.8					
		1753	1939	1877	0.26	22	0.28	21	0.30	18.9	0.31	18.5	0.32	18.1	0.34	17.5	0.35	16.7	0.36	16.3	0.36	16.4	0.37	16.0	0.36	15.4	0.29	14.1	

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PV135 & PVD135

		PERFORMANCE DATA																								
Belt Drive	Direct Drive	RPM	CFM and Sones vs. Static Pressure																							
			0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		1.000"		1.250"		1.500"		1.750"		1.875"	
			BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones				
1/4 HP	EC- 1/2 & 3/4 HP	300	401																							
		513	689	302																						
		770	1037	848	574																					
		907	1222	1063	885	589																				
		1080	1455	1322	1185	1027			786	389																
		1200	1617	1498	1375	1244		1085	856	503																
		1304	1757	1647	1535	1421		1291	1129	905																
		1363	1837	1732	1625	1516		1397	1261	1080	477															
		1489	2007	1911	1814	1714		1614	1499	1372	990															
		1633	2201	2113	2025	1935		1844	1752	1646	1390	993														
		1875	2527	2451	2374	2297		2218	2139	2060	1881		1666	1374	956							694				
			0.44	18.8	0.45	18.4	0.47	17.9	0.48	17.5	0.5	17.2	0.51	16.7	0.52	16.1	0.55	15.3	0.56	14.7	0.56	14.4	0.45	13.8		

PV150 & PVD150

		PERFORMANCE DATA																										
Belt Drive	Direct Drive	RPM	CFM and Sones vs. Static Pressure																									
			0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"		1.750"		2.000"	
			BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones						
1/4 HP	EC- 1/2 HP	300	626																									
		440	921	498																								
		575	1205	920	477																							
		679	1424	1194	906	343																						
		725	1521	1307	1050	711																						
		863	1811	1637	1437	1208	930	303																				
		907	1903	1739	1553	1343	1095	736																				
		993	2084	1934	1769	1586	1384	1147	802																			
		998	2095	1946	1782	1600	1400	1165	842	120																		
		1088	2284	2147	2001	1842	1668	1478	1258	975	346																	
		1187	2492	2367	2237	2095	1942	1780	1604	1401	1174																	
1/3 HP	EC- 3/4 HP	1191	2500	2375	2247	2105	1953	1792	1616	1415	1191	126																
		1363	2861	2753	2642	2524	2400	2268	2129	1984	1828	1464	737															
		1410	2960	2855	2748	2636	2516	2392	2259	2122	1976	1643	1181	157														
		1485	3118	3018	2917	2813	2700	2585	2463	2335	2204	1915	1570	942														
		1557	3269	3174	3077	2979	2874	2765	2653	2533	2411	2148	1844	1485	679													
3/4 HP	EC- 1 HP		0.58	18.7	0.61	18.5	0.63	18.1	0.66	17.8	0.68	17.4	0.7	17.3	0.72	16.9	0.74	16.5	0.76	16.4	0.78	15.7	0.79	15.9	0.77	16.5	0.56	15.1

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Centrifugal Exhausters

MIAMI-DADE COUNTY
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PV165 & PVD165

				Performance Data																							
Belt Drive	Direct Drive	CFM and Sones vs. Static Pressure																									
		0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"		1.750"		2.000"	
		BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones				
X	EC-1 HP	788																									
		300	0.01	0.3																							
		440	1159	628																							
		575	1517	1187	625																						
		679	0.04	2.7	0.05	1.9	0.05	1.8																			
		725	1792	1523	1166	580																					
		863	0.07	4.0	0.08	3.5	0.08	2.8	0.07	2.7																	
		882	1913	1664	1359	887																					
		936	2278	2072	1847	1564	1169	632																			
		998	0.14	6.5	0.16	6.2	0.17	5.6	0.18	5.1	0.17	4.8	0.14	4.5													
X	EC-1/2 HP	2329	2127	1908	1642	1265	791																				
		2471	2281	2079	1845	1533	1146	562																			
		3169	3021	2871	2712	2546	2352	2126	1837	1542																	
		3101	3015	2864	2708	2529	2332	2088	1802	1139																	
		3301	3159	3015	2864	2708	2529	2332	2088	1802	1139																
		3436	3300	3162	3018	2870	2708	2527	2317	2052	1488	310															
		3772	3647	3522	3395	3261	3125	2976	2812	2632	2165	1647	817														
		3793	3669	3545	3419	3285	3150	3003	2840	2664	2204																
		4184	4072	3959	3845	3729	3607	3486	3356	3209	2891	2467	2020	1462													
		1584	0.66	18.2	0.68	18.2	0.70	17.7	0.73	17.0	0.74	16.4	0.76	15.9	0.78	14.9	0.80	14.2	0.80	14.0	0.80	13.6					
1 HP	3/4 HP	0.88	22	0.91	22	0.93	21	0.96	20	0.98	20	1.00	19.6	1.02	19.0	1.04	18.1	1.06	17.2	1.08	16.8	1.07	16.2	1.04	16.9		
																							0.92	17.2			

PV180

MIAMI-DADE COUNTY
APPROVED

Performance Data																						
CFM and Sones vs. Static Pressure																						
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"	
	BHP	Sones	BHP	Sones	BHP	Sones																
456	2380		1854		737												Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.	
	0.08	3.4	0.09	3.0	0.07	2.4											PV180	1/4 Hp	456 - 657	176	202	
561	2930		2525		1955		948										PV180	1/3 Hp	561 - 728	180	206	
	0.15	5.4	0.16	5.0	0.16	4.5	0.12	4.0									PV180	1/2 Hp	588 - 830	180	206	
588	3071		2686		2185		1386										PV180	1/2 Hp	650 - 951	184	210	
	0.17	5.9	0.18	5.6	0.19	5.1	0.17	4.7									PV180	1 Hp	734 - 1050	193	219	
650	3396		3050		2660		2054		1137								PV180	1-1/2 Hp	847 - 1185	201	227	
	0.24	7.5	0.25	7.3	0.25	6.9	0.24	6.6	0.20	5.8							PV180	2 Hp	941 - 1316	200	226	
657	3433		3091		2711		2120		1290													
	0.24	7.7	0.25	7.5	0.26	7.1	0.25	6.8	0.22	6.0												
717	3747		3434		3110		2651		2026		1101											
	0.32	9.5	0.33	9.4	0.34	9.1	0.34	8.6	0.32	8.5	0.25	7.5										
728	3804		3496		3179		2737		2143		1301											
	0.33	9.9	0.34	9.8	0.36	9.4	0.35	9.0	0.34	9.0	0.28	8.0										
830	4338		4067		3789		3497		3078		2562		1941		1047							
	0.49	12.8	0.50	13.0	0.52	12.6	0.53	12.2	0.52	11.7	0.51	11.9	0.47	10.7	0.35	9.8						
847	4427		4162		3890		3608		3210		2725		2138		1285							
	0.52	13.3	0.54	13.5	0.55	13.1	0.56	12.8	0.56	12.1	0.54	12.4	0.51	11.5	0.41	10.5						
941	4918		4680		4440		4191		3920		3543		3107		2599		2019					
	0.71	16.1	0.73	16.5	0.75	16.1	0.76	15.8	0.77	15.5	0.76	14.9	0.75	15.0	0.72	14.5	0.66	13.2				
951	4971		4735		4497		4251		3989		3620		3199		2707		2154					
	0.74	16.4	0.75	16.8	0.77	16.4	0.79	16.2	0.79	15.9	0.79	15.2	0.77	15.2	0.75	14.9	0.69	13.8				
1050	5489		5275		5059		4839		4619		4368		4029		3662		3242		2229			
	0.99	19.6	1.01	20	1.03	19.6	1.05	19.6	1.06	19.2	1.07	19.0	1.06	18.2	1.05	18.2	1.03	18.2	0.91	16.1		
1125	5881		5681		5480		5278		5068		4861		4601		4281		3937		3109		1952	
	1.22	22	1.24	23	1.26	22	1.28	22	1.30	22	1.31	22	1.31	21	1.30	21	1.29	21	1.23	19.9	1.02	18.0
1185	6195		6005		5814		5624		5425		5231		5018		4748		4440		3735		2877	
	1.42	24	1.45	25	1.47	25	1.49	24	1.51	24	1.52	24	1.54	24	1.53	23	1.52	23	1.48	23	1.38	21
1250	6535		6355		6174		5993		5808		5620		5438		5223		4946		4332		3596	
	1.67	26	1.69	27	1.72	27	1.74	27	1.76	27	1.78	26	1.80	26	1.80	26	1.80	25	1.76	25	1.70	24
1316	6880		6709		6537		6366		6194		6012		5838		5654		5437		4895		4258	
	1.95	29	1.98	30	2.00	30	2.02	29	2.04	29	2.07	29	2.09	29	2.10	29	2.10	28	2.08	27	2.04	28

Performance certified is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (BHP) does not include transmission losses. The sound ratings shown are loudness values in hemispherical zones at 1.5 m (5ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical zone levels. The brake horsepower capability of an exhaustor motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.

PERFORMANCE DATA																						
CFM and Sones vs. Static Pressure																						
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"	
	BHP	Sones																				
374	2111		1225																			
	0.05	2.3	0.05	1.2																		
459	2592		2002		961																	
	0.10	3.7	0.10	2.8	0.08	2.1																
469	2649		2081		1095																	
	0.10	3.8	0.11	3.0	0.09	2.2																
527	2978		2515		1713																	
	0.14	4.9	0.16	4.2	0.14	3.1																
550	3108		2674		1934		1006															
	0.16	5.4	0.18	4.7	0.17	3.6	0.13	3.3														
594	3357		2964		2342		1559															
	0.21	6.5	0.22	5.7	0.22	4.6	0.19	4.0														
632	3572		3208		2687		1962		1117													
	0.25	7.3	0.26	6.5	0.27	5.5	0.24	4.5	0.19	4.4												
689	3895		3561		3142		2512		1834													
	0.32	8.8	0.34	7.7	0.35	6.9	0.34	6.0	0.30	5.5												
710	4014		3690		3301		2706		2061		1298											
	0.35	9.5	0.37	8.3	0.38	7.4	0.37	6.5	0.34	5.9	0.27	5.9										
805	4551		4266		3964		3547		2988		2421		1804									
	0.51	13.1	0.54	11.4	0.55	10.2	0.56	9.2	0.54	8.2	0.50	7.8	0.44	8.2								
886	5010		4751		4487		4167		3732		3211		2695		2155		1467					
	0.68	15.3	0.71	14.0	0.73	12.5	0.74	11.4	0.74	10.5	0.71	9.7	0.67	9.4	0.62	9.8	0.50	9.4				
907	5129		4875		4620		4315		3914		3404		2910		2378		1768					
	0.74	15.9	0.76	14.6	0.78	13.1	0.80	12.1	0.80	11.1	0.77	10.3	0.73	10.0	0.68	10.1	0.59	10.1				
1006	5689		5461		5230		4986		4683		4306		3845		3402		2934		1863			
	1.00	18.9	1.03	17.8	1.06	16.3	1.07	15.4	1.09	14.3	1.09	13.4	1.06	12.6	1.02	12.3	0.97	12.2	0.78	12.3		
1140	6447		6246		6042		5839		5617		5351		5028		4648		4240		3439		2572	
	1.46	23	1.49	22	1.52	21	1.54	19.7	1.57	19.1	1.59	18.1	1.59	17.3	1.57	16.5	1.53	15.8	1.42	15.4	1.27	16.1
1255	7098		6915		6730		6546		6358		6152		5908		5616		5295		4560		3832	
	1.95	28	1.98	27	2.02	25	2.05	24	2.07	23	2.09	22	2.12	22	2.12	21	2.11	19.9	2.02	18.7	1.91	18.3

PERFORMANCE DATA																						
CFM and Sones vs. Static Pressure																						
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"	
	BHP	Sones																				
358	2828		2086																			
	0.06	2.6	0.08	2.0																		
398	3145		2498		1362																	
	0.08	3.4	0.10	2.8	0.10	2.4																
465	3676		3140		2411		1059															
	0.13	4.7	0.16	4.1	0.18	3.6	0.13	3.5														
514	4064		3584		3034		2121															
	0.18	5.8	0.21	5.3	0.23	4.8	0.23	4.4														
532	4206		3745		3229		2401		981													
	0.20	6.2	0.23	5.8	0.25	5.2	0.26	4.8	0.18	4.4	</td											

RPM	PERFORMANCE DATA																							
	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"			
BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	
371	3140		2386		639																			
	0.08	3.1	0.10	2.5	0.06	1.6																		
375	3174		2434		822																			
	0.08	3.1	0.10	2.5	0.07	1.8																		
434	3675		3078		2116																			
	0.12	4.3	0.15	3.8	0.16	3.2																		
497	4210		3721		3037		1966																	
	0.18	5.7	0.21	5.3	0.24	4.7	0.22	4.1																
526	4456		4009		3390		2496		974															
	0.22	6.5	0.24	6.2	0.28	5.5	0.27	4.8	0.18	3.9														
537	4549		4112		3519		2683		1391															
	0.23	6.8	0.26	6.5	0.29	5.8	0.30	5.1	0.22	4.5														
572	4846		4436		3912		3238		2233															
	0.28	7.9	0.31	7.6	0.34	6.8	0.36	6.3	0.33	5.5														
614	5202		4820		4356		3785		2996		1975													
	0.34	9.3	0.38	8.9	0.42	8.4	0.44	7.6	0.44	7.0	0.37	6.1												
663	5618		5264		4861		4371		3774		2934		1903											
	0.43	11.2	0.47	10.8	0.51	10.0	0.54	8.9	0.56	8.8	0.54	8.3	0.44	7.1										
729	6178		5856		5522		5094		4615		4035		3263		2393									
	0.57	13.8	0.61	13.3	0.66	13.4	0.70	12.8	0.74	11.3	0.75	10.7	0.72	10.4	0.63	8.9								
759	6432		6123		5811		5408		4972		4463		3787		3000		1950							
	0.65	14.8	0.69	14.4	0.73	14.2	0.78	13.4	0.82	11.6	0.84	11.8	0.83	11.3	0.78	10.6	0.63	9.3						
820	6949		6663		6375		6035		5651		5219		4732		4094		3369		987					
	0.82	16.6	0.86	16.5	0.91	15.8	0.96	15.1	1.01	14.7	1.04	13.7	1.06	13.4	1.05	13.0	1.00	12.4	0.57	9.0				
938	7950		7700		7448		7196		6879		6543		6186		5783		5342		4156		2703			
	1.22	21	1.27	21	1.33	19.9	1.38	19.8	1.44	18.7	1.50	18.9	1.54	16.7	1.58	17.0	1.59	16.6	1.53	16.1	1.26	14.3		
1033	8756		8529		8300		8071		7830		7530		7225		6908		6551		5738		4652			
	1.63	24	1.69	25	1.75	24	1.80	23	1.87	23	1.94	22	1.99	22	2.05	20	2.09	20	2.12	19.3	2.05	19.0		

RPM	PERFORMANCE DATA																							
	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"			
BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	
286	3372		2386																					
	0.06	2.2	0.09	1.6																				
317	3739		2866		1513																			
	0.08	2.7	0.11	2.3	0.11	2.0																		
356	4201		3427		2469																			
	0.11	3.6	0.15	3.1	0.17	2.7																		
419	4947		4263		3605		2650																	
	0.18	4.9	0.23	4.7	0.27	4.2	0.28	3.8																
456	5384		4741		4169		3418		2356															
	0.24	5.9	0.28	5.6	0.33	5.1	0.36	4.7	0.34	4.6														
462	5455		4818		4258		3531		2523															
	0.24	6.1	0.29	5.7	0.34	5.3	0.37	4.9	0.36	4.8														
482	5692		5072		4553		3900		3019															
	0.28	6.7	0.33	6.3	0.38	5.9	0.42	5.5	0.42	5.1														
518	6118		5530		5043		4491		3785		2862													
	0.34	7.5	0.40	7.4	0.45	6.8	0.50	6.4	0.53	6.0	0.51	6.0												
526	6213		5634		5150		4614		3936		3078													
	0.36	7.7	0.42	7.6	0.47	7.1	0.52	6.6	0.55	6.2	0.55	6.1												
570	6733		6199		5734		5277		4741		4056		3204											
	0.46	9.1	0.52	9.3	0.58	8.9	0.64	8.1	0.68	7.7	0.70	7.3	0.69	7.2										
607	7171		6669		6216		5805		5322		4754		4067		3222									
	0.56	10.5	0.62	10.9	0.68	10.6	0.74	9.4	0.80	9.0	0.84	8.7	0.85	8.2	0.82	8.2								
646	7632		7160		6719		6332		5912		5439		4855		4180		3363							
	0.67	12.1	0.74	12.5	0.81	12.3	0.87	11.2	0.93	10.6	0.99	10.2	1.02	9.8	1.02	9.2	0.98	9.4						
690	8152		7711		7279		6916		6554		6124		5667		5097		4455		2730					
	0.82	13.9	0.89	14.2	0.96	14.1	1.03	13.6	1.10	12.3	1.16	11.9	1.22	11.6	1.24	11.3	1.25	10.6	1.08	10.6				
738	8720		8307		7891		7543		7205		6844		6435		5989		5456		4194					
	1.00	15.5	1.07	15.7	1.15	15.9	1.23	15.5	1.31	14.2	1.38	13.7	1.44	13.3	1.49	13.0	1.52	12.6	1.50	12.2				
780	9216		8826		8432		8085		7765		7445		7074		6683		6239		5171		3804			
	1.18	16.9	1.26	17.0	1.34	17.6	1.43	16.9	1.51	16.3	1.58	15.3	1.66	14.9	1.72	14.6	1.77	14.2	1.81	13.3	1.69	13.5		
821	9701		9330		8956		8609		8304		8000		7683		7316		6942		6021		4916			
	1.37	18.3	1.46	18.4	1.55	19.0	1.63	18.4	1.72	18.0	1.80	16.8	1.88	16.5	1.96	16.0								

RPM	PERFORMANCE DATA												CFM and Sones vs. Static Pressure												
	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"				
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	
295	4234	3260	0.08	6.5	0.11	5.3																			
329	4724	3861	0.11	7.5	0.15	7.0	0.17	5.5											PV300	1/3 Hp	295 - 442	293	346		
394	5660	4940	0.20	9.7	0.24	8.9	0.27	8.0	0.29	7.2									PV300	1/2 Hp	329 - 493	300	354		
427	6135	5469	0.25	11.0	0.29	10.2	0.34	9.4	0.37	8.1	0.33	7.4						PV300	3/4 Hp	394 - 559	307	360			
442	6351	5707	0.28	11.3	0.32	10.8	0.36	10.0	0.40	8.9	0.41	8.2						PV300	1 Hp	427 - 605	311	364			
493	7085	6506	0.38	13.4	0.44	12.6	0.48	12.3	0.53	10.9	0.57	10.3	0.57	11.3				PV300	1-1/2 Hp	533 - 690	326	379			
533	7661	7124	0.48	14.7	0.54	14.3	0.59	14.0	0.64	12.9	0.69	11.8	0.72	11.4	0.70	10.3		PV300	2 Hp	587 - 759	323	376			
559	8035	7523	0.56	16.0	0.62	15.6	0.67	15.0	0.72	14.1	0.78	13.1	0.82	12.4	0.84	11.5	0.70	PV300	3 Hp	682 - 883	365	418			
587	8437	7950	0.65	16.9	0.71	16.3	0.77	16.1	0.82	15.1	0.88	14.2	0.93	13.6	0.96	12.9	0.97	PV300	4 Hp	724 - 925	370	423			
605	8696	8224	0.71	17.4	0.77	16.9	0.84	16.6	0.89	16.0	0.95	14.9	1.00	14.4	1.05	13.6	1.06	PV300	5 Hp	768 - 969	3410				
682	9804	9385	1.02	21	1.09	20	1.16	19.3	1.22	19.4	1.28	18.4	1.36	17.8	1.42	17.0	1.47	PV300	6 Hp	814 - 1015	6147	4245			
690	9919	9505	1.05	21	1.12	20	1.20	20	1.26	19.6	1.32	18.9	1.40	18.2	1.46	17.2	1.52	PV300	7 Hp	860 - 1061	6327	4746			
759	10912	10535	1.40	24	1.48	23	1.56	23	1.64	22	1.70	22	1.77	21	1.85	21	1.93	PV300	8 Hp	906 - 1107	7792	6792	5364		
833	11976	11633	1.85	26	1.94	26	2.03	26	2.11	26	2.19	25	2.27	25	2.34	24	2.43	PV300	9 Hp	952 - 1153	8388	7476			
			1.85	26	1.94	26	2.03	26	2.11	26	2.19	25	2.27	25	2.34	24	2.43	PV300	10 Hp	991 - 1192	2.66	22	2.76	21	

RPM	PERFORMANCE DATA												CFM and Sones vs. Static Pressure													
	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"		2.000"			
	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones		
230	5972	4470	0.12	5.6	0.16	4.7																				
282	7327	6127	0.22	7.5	0.26	6.9	0.31	5.9										PV365	1/2 Hp	230 - 345	387	408				
302	7848	6733	0.27	8.4	0.32	7.8	0.36	7.1	0.23	6.1								PV365	3/4 Hp	282 - 399	394	414				
345	8968	8003	0.40	9.9	0.46	9.1	0.52	8.9	0.56	8.0								PV365	1 Hp	302 - 428	401	422				
376	9775	8893	0.52	11.2	0.58	10.4	0.64	10.1	0.70	9.9	0.73	8.4					PV365	1-1/2 Hp	376 - 487	428	449					
399	10373	9543	0.62	12.4	0.68	11.8	0.75	11.0	0.82	7.9	0.86	7.4	0.80	7.7			PV365	2 Hp	419 - 542	424	444					
419	10894	10104	0.71	13.3	0.78	12.8	0.85	12.4	0.93	11.8	0.98	10.6	1.01	12.1			PV365	3 Hp	493 - 616	455	476					
428	11128	10355	0.76	13.5	0.83	12.9	0.90	12.7	0.98	12.0	1.04	11.2	1.08	11.9	0.70	9.8	PV365	5 Hp	601 - 732	466	487					
487	12664	11984	1.12	16.2	1.20	16.8	1.28	15.3	1.37	14.9	1.45	14.3	1.52	13.6	1.58	12.6	1.56	13.9								
493	12820	12149	1.16	16.4	1.24	16.8	1.32	15.5	1.41	15.0	1.50	14.5	1.57	14.1	1.63	13.4	1.64	14.6	0.99	12.1						
542	14095	13485	1.54	18.6	1.63	18.6	1.72	17.2	1.82	17.3	1.91	16.8	2.00	16.5	2.08	16.0	2.15	15.3	2.18	14.4						
601	15631	15080	2.10	21	2.20	21	2.30	20	2.40	20	2.51	19.4	2.61	19.3	2.72	18.8	2.81	18.6	2.88	18.1	2.98	20				
616	16021	15484	2.26	22	2.36	22	2.47	21	2.57	21	2.68	20	2.78	20	2.89	19.5	3.00	19.3	3.08	18.9	3.20	19.0	2.87	17.0		
732	19040	18587	3.80	28	3.92	27	4.04	28	4.16	26	4.28	26	4.41	26	4.54	26	4.67	25	4.79	25	5.04	24	5.23	23	5.28	21

Performance certified is for Installation Type A: Free Inlet, Free Outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating (BHP) does not include transmission losses. The sound ratings shown are loudness values in hemispherical sones at 1.5 m (5ft) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet hemispherical sone levels. The brake horsepower capability of an exhausta motor is dependent on the degree of cooling the motor receives from the air moving through the motor. The motor loading beyond the motor nameplate rating does not overheat the motor and is in accordance with the motor manufacturer's recommendations. It is therefore not detrimental to the motor and is economically desirable.

PV425

Centrifugal Exhausters

PERFORMANCE DATA																							
CFM and Sones vs. Static Pressure																							
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"		
	BHP	Sones																					
177	7295		4965																				
	0.12	5.4	0.16	3.9																			
212	8743		6861																				
	0.20	7.0	0.26	5.7																			
248	10233		8644		6881																		
	0.32	8.7	0.39	7.7	0.45	6.1																	
265	10936		9456		7863		4815																
	0.39	9.6	0.46	8.3	0.53	7.2	0.50	8.7															
291	12011		10674		9246		7640																
	0.52	11.0	0.60	9.8	0.68	9.1	0.73	8.5															
301	12424		11136		9764		8260		3768														
	0.58	11.6	0.66	11.0	0.74	9.6	0.80	8.4	0.60	8.5													
326	13458		12272		11020		9708		8173														
	0.73	12.8	0.82	12.7	0.91	11.6	0.98	9.7	1.04	11.8													
336	13871		12721		11510		10247		8821														
	0.80	13.5	0.89	12.9	0.98	11.9	1.06	10.4	1.13	12.5													
383	15814		14806		13762		12690		11565		10319		8345										
	1.19	16.1	1.29	15.3	1.39	14.4	1.50	14.0	1.59	12.2	1.67	14.2	1.64	14.9									
384	15855		14850		13809		12740		11619		10381		8498										
	1.20	16.2	1.30	15.3	1.40	14.4	1.51	14.0	1.60	12.6	1.68	14.5	1.66	15.2									
422	17426		16511		15580		14607		13619		12595		11455		10029								
	1.59	18.2	1.70	18.7	1.81	16.8	1.93	16.2	2.04	15.2	2.14	17.2	2.22	18.4	2.24	19.1							
464	19162		18329		17488		16615		15730		14822		13890		12875		11753						
	2.11	21	2.23	21	2.36	19.2	2.48	18.3	2.61	18.3	2.73	17.0	2.83	15.7	2.94	17.6	2.98	18.7					
479	19782		18975		18161		17321		16464		15596		14695		13781		12713		7333				
	2.32	22	2.45	22	2.58	20	2.71	19.4	2.84	18.9	2.96	18.1	3.08	17.2	3.18	19.1	3.27	20	2.72	19.6			
575	23749		23077		22400		21721		21023		20309		19595		18875		18127		16620		14831		
	4.02	27	4.17	27	4.32	26	4.47	26	4.63	25	4.79	24	4.95	24	5.10	23	5.24	22	5.49	25	5.67	27	

PV490

PERFORMANCE DATA																								
CFM and Sones vs. Static Pressure																								
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"		2.000"	
	BHP	Sones																						
168	10376		7273																					
	0.18	5.9	0.25	5.7																				
207	12795		10362		7248																			
	0.33	7.8	0.42	8.0	0.47	7.4																		
239	14778		12675		10405		7211																	
	0.51	9.5	0.62	9.7	0.71	9.3	0.71	8.4																
249	15398		13377		11233		8375																	
	0.57	10.1	0.69	10.4	0.79	10.0	0.82	9.4																
257	15894		13933		11892		9265																	
	0.63	10.7	0.75	11.0	0.86	10.7	0.90	10.1																
276	17071		15240		13393		11209		8330															
	0.78	11.7	0.90	12.4	1.03	11.7	1.11	11.3	1.10	10.3														
288	17814		16056		14301		12323		9725															
	0.88	12.5	1.01	13.2	1.15	12.6	1.25	12.2	1.26	11.5														
310	19177		17541		15924		14172		12114		9489													
	1.10	14.0	1.24	14.8	1.40	14.1	1.52	13.6	1.59	13.4	1.56	14.1												
345	21345		19872		18418		16933		15297		13379		11032											
	1.52	16.0	1.67	16.9	1.84	16.6	2.00	15.9	2.12	15.4	2.19	14.4	2.16	14.2										
371	22956		21585		20226		18868		17433		15835		13929		11725									
	1.89	17.7	2.05	18.3	2.23	18.0	2.41	17.8	2.56	17.3	2.67	16.6	2.72	16.7	2.68	17.5								
398	24628		23350		22075		20281		19525		18114		16569		14755		12695							
	2.33	19.3	2.50	20	2.69	20	2.90	19.9	3.06	19.2	3.22	18.4	3.32	18.6	3.36	17.1	3.31	17.1						
441	27291		26137		24981		23846		22709		21527		20257		18922		17387		13731					
	3.18	22	3.36	23	3.56	23	3.79	23	4.01	23	4.18	21	4.35	22	4.48	21	4.57	21	4.49	22				
474	29334		28261		27182		26119		25067		23994		22888		21687		20462		17447		13928			
	3.94	24	4.14	25	4.35	25	4.59	23	4.83	24	5.05	24	5.24	24	5.42	23	5.55	23	5.67	25	5.56	26		
537	33235		32288		31333		30387		29452		28523		27586		26621		25635		23481		20989		14737	
	5.73	29	5.96	29	6.19	30	6.44	30	6.71	29	6.99	28	7.25	29	7.47	28	7.68	29	8.03	27	8.26	27	8.05	29

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PV543

Performance Data																								
CFM and Sones vs. Static Pressure																								
RPM	0.000"		0.125"		0.250"		0.375"		0.500"		0.625"		0.750"		0.875"		1.000"		1.250"		1.500"		2.000"	
	BHP	Sones	BHP	Sones	BHP	Sones																		
166	13930		10807																					
	0.32	7.6	0.42	6.9																Fan Model	HP	RPM Range	Est. Unit Wt. lbs.	Est. Ship Wt. lbs.
168	14099		11023		4817												PV543	1 Hp	166 - 221	873	978			
	0.33	7.8	0.43	7.0	0.37	6.4											PV543	1-1/2 Hp	168 - 257	865	970			
214	17972		15527		12962		8942										PV543	2 Hp	214 - 283	892	997			
	0.68	11.1	0.81	10.8	0.92	9.9	0.91	9.1									PV543	3 Hp	230 - 326	886	991			
221	18561		16182		13761		10268										PV543	5 Hp	297 - 380	942	1058			
	0.75	11.7	0.88	11.5	1.01	10.5	1.02	10.2									PV543	7-1/2 Hp	366 - 437	949	1066			
230	19318		17018		14763		11705										PV543	10 Hp	400 - 483	961	1079			
	0.84	12.4	0.98	11.9	1.12	11.0	1.17	10.7																
257	21590		19492		17588		15285		12155															
	1.18	14.5	1.34	15.1	1.48	13.3	1.61	12.8	1.62	12.4														
283	23778		21865		20100		18225		15884		12874													
	1.57	16.4	1.75	16.4	1.91	15.6	2.08	14.9	2.17	14.6	2.15	25												
297	24956		23129		21428		19741		17677		15121		10843											
	1.82	17.4	2.00	17.3	2.18	16.8	2.34	15.8	2.48	15.5	2.51	15.7	2.27	14.7										
326	27395		25727		24134		22636		20958		19025		16655		13418									
	2.41	19.6	2.61	19.7	2.80	19.1	2.98	18.7	3.18	17.8	3.29	17.8	3.32	17.2	3.19	29								
366	30760		29274		27799		26456		25122		23599		21912		19891		17607							
	3.40	23	3.63	23	3.86	23	4.06	22	4.27	21	4.49	21	4.63	20	4.70	20	4.68	19.9						
380	31937		30506		29082		27769		26484		25117		23522		21758		19726		12758					
	3.81	24	4.05	24	4.28	24	4.50	23	4.71	23	4.93	22	5.13	21	5.23	22	5.26	21	4.58	49				
400	33619		32260		30902		29626		28405		27184		25749		24209		22434		18170					
	4.44	26	4.69	26	4.94	26	5.18	25	5.40	24	5.62	24	5.87	24	6.03	23	6.12	22	6.06	24				
437	36731		35486		34234		33015		31898		30780		29663		28353		26959		23713		19708			
	5.79	28	6.07	29	6.34	28	6.61	28	6.85	28	7.09	28	7.33	27	7.61	26	7.82	26	8.00	26	7.90	24		
483	40599		39473		38338		37221		36152		35141		34130		33119		32022		29502		26554		16985	
	7.82	33	8.12	33	8.43	33	8.73	33	9.01	33	9.28	32	9.54	31	9.81	31	10.10	31	10.59	30	10.79	29	9.60	28

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