



PRLS

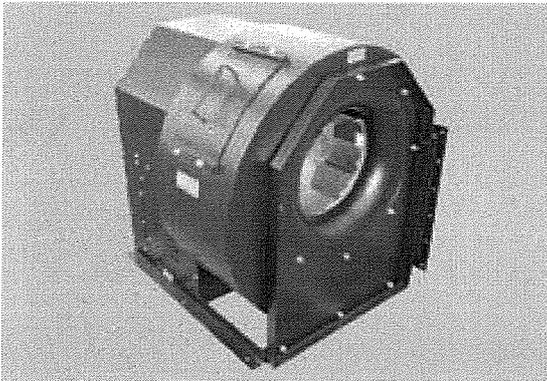
Centrifugal Utility Fans



DYNAIR®

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PRODUCT FEATURES

Performance range

Impeller Diameter: 300 - 1000 mm

Easy access of pulley speed

Maximum Volume: 55,000m³/hr

Maximum Static Pressure: 1100 Pa

Fan Structure

Rigid welding housing

Rigid welding structure

Fan Application

Outdoor Installation with weather cover

High Temperature atmosphere

Compact Design

Reduced Fan size

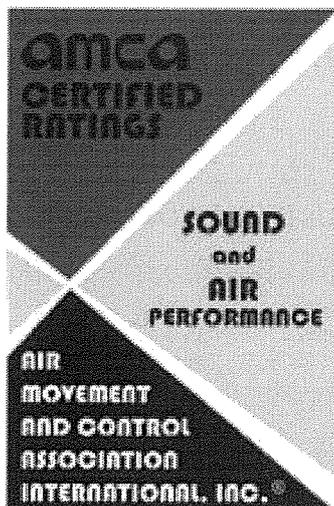
Spacious Mechanical Drive Room

Belt Length reduced and increases belt life

Easy Maintenance

Motor chamber access door

Scroll access door available



AMCA Sound & Air Performance Seal

Dynaair Gulf FZCO Certifies that the model PRLS shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed with AMCA Publication 211 and AMCA 311 and comply with the requirements of the AMCA Certified Ratings Program

**PRODUCT SPECIFICATION****Belt Driven**

PRLS series fans are designed for ducted system. These fans shall be single inlet centrifugal type and are suitable for return-air applications with clean air.

Casing:

The casing shall be constructed of steel, the thickness shall be adequate to support drive and motor. The scroll shall be fully welded. The fan surface shall be alkali cleaned and phosphated, electrostatically black epoxy powder applied [options: colour changes are available].

Impeller:

The impeller is backward curved centrifugal type and its directly inclined to airflow. The inlet cone guides the airflow smoothly with low noise at inlet. The impeller is balanced statically and dynamically to level G2.5 as per ISO standards NO. 1940.

Shaft (Belt Driven Model):

The fan shaft shall be heat treated through soaking furnace to the hardness level of HB370, and the surface shall be hard film corrosion treated. The fan shaft shall be balanced together with the wheel and the shaft design speed shall at least exceed 25% of the maximum fan operation speed.

Pulleys (Belt Driven Model):

The fan pulleys shall be sized for a minimum of 150% of driven horsepower. Pulleys shall be of cast iron type, keyed and securely attached to the wheel and motor shafts. Motor pulleys shall be adjustable for final system balancing. Conical (QD) type bushings shall be equipped for easy removal of the pulleys.

Bearings:

The bearings shall be selected for a minimum (L-10) life in excess of 80,000 hours at maximum cataloged operating speed. Bearing type shall be permanently sealed, re-lubricable pillow block metal ball bearings

Drive Support:

Drive assemblies shall be supported by heavy gauge powder coated steel, mounted on vibration isolators. The belt tension shall be adjusted through motor support plate, the design shall make sure the fan shaft and motor shaft is always parallel.

Protection Cover:

A shaft/bearing cover and a belt cover shall be provided as standard configuration for indoor application. If the fan is outdoor installed, the motor and other drive parts shall be covered by weatherhood to assure lasting durability.

Motor:

Motor shall be carefully matched to the fan load, IP 55, and insulation class F. The motor bearings shall be re-lubricable ball type.

Quality Standards:

SWSI Centrifugal fans shall be tested and approved according to AMCA Standards 210 & 300. Each fan shall have AMCA Sound & Air Performance Seal.



PRLS



OPTIONAL ACCESSORIES

Inlet / Outlet Safety Screen

Metal safety screen can be installed either on inlet or outlet of the fan. The screen with rigid strength can prevent debris into the fan and duct. The density of the screen is also qualified for labour protection. Either inlet or outlet screen can be ordered separately.

Weather Hood

PRLS belt drive fans are equipped for indoor installation, which include a shaft/bearing cover as well as belt cover. When the fan is outdoor installed, weatherhood shall be selected to prevent motor, pulley and bearing from sunshine, rain.

Drain

Located on the bottom of scroll to discharge contaminated substance such as condensed water, grease etc.

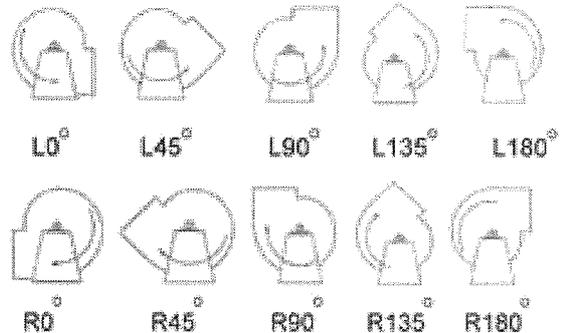
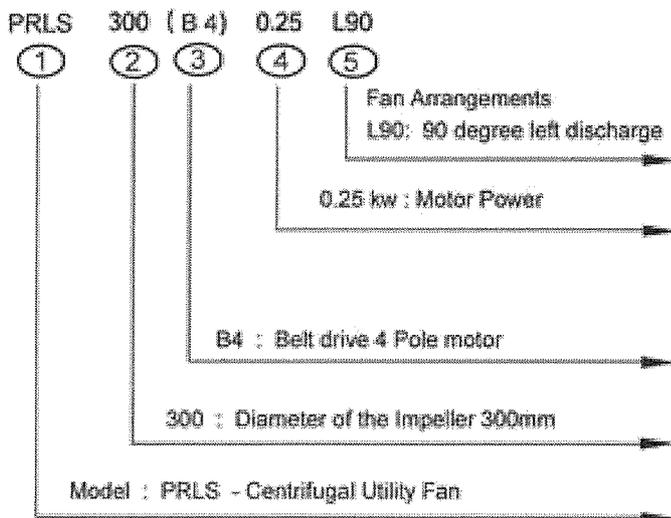
Inlet/Outlet Flange

The companion flanges are attached to the ductwork to provide an exact mate to the flanged connection on the fan.

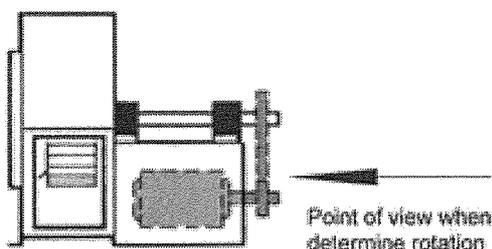
Coating

Poly-fluoro ethylene is done for special application on either impeller or complete fan.

REFERENCE CODE



Dwg. No.		L0	L45	L90	L135	L180
GB	L	0°	5°	90°	135°	180°
EUROPE	L/R	270	315	0	45	90
AMCA	CCW	BH	BAU	UB	TAU	Tie



Note:
The rotation is identified from the view of motor side For example, a PRLS-300-2.2 with CCW-BH(AMCA) rotation



EXAMPLE OF CURVE READING

Terminology of Performance curve

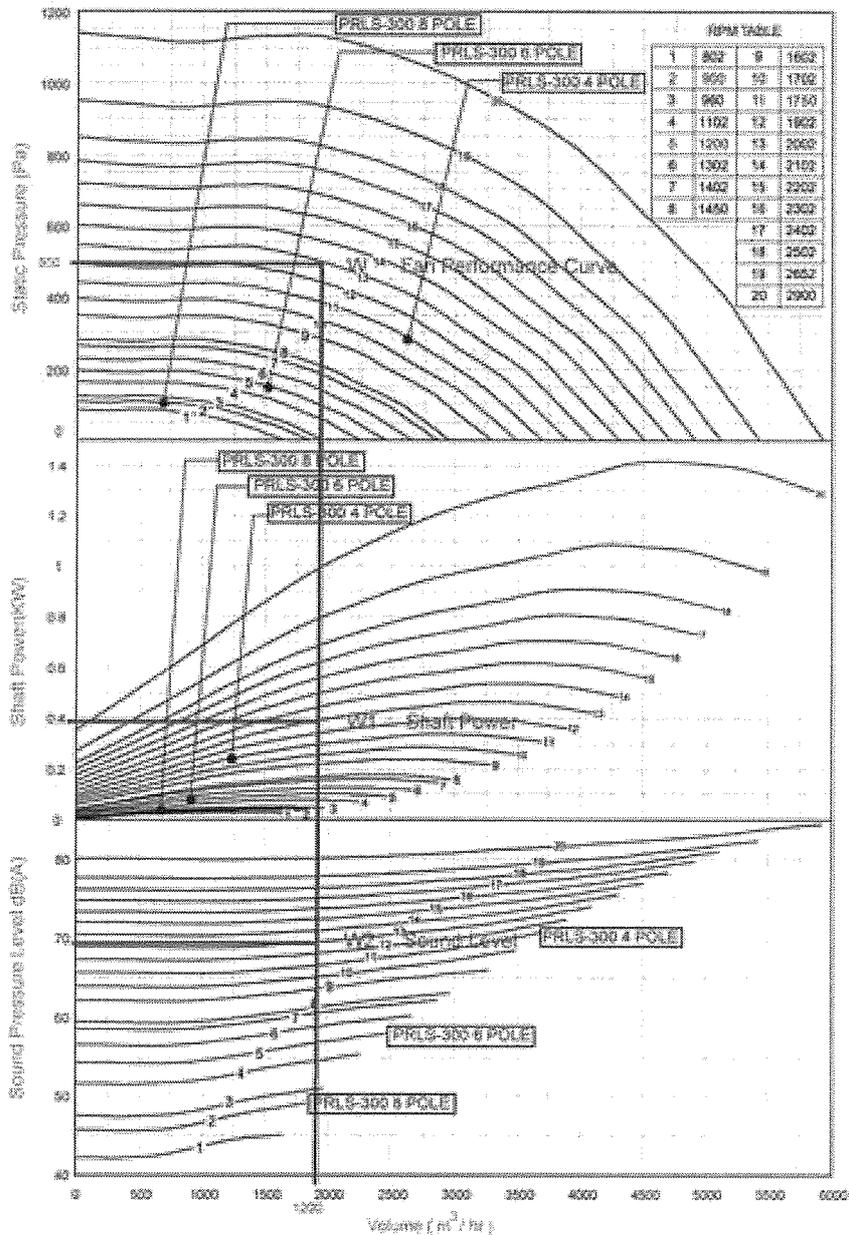
Each Fan performance curve shows a group of different RPM.

The dark curves shows the fan is direct drive which means the motor is fixed directly on the impeller. It is denoted with suffix letter D followed by motor pole number. The attached table shows the motor RPM at different number of poles.

The other curves denotes of belt drive. Belt drive models achieved by variation of RPM using Motor and shaft Pulley, while the motor will be always 4 pole.

Second Table shows the curve of actual power consumption.

Third table shows the curve of noise level at a distance of 1.5 meter.



Example : 1800 m³ / hr , 500 Pa Static Pressure.

Step 1 :From the given Volume (1800 m³ / hr) draw a vertical line upwards and from given static Pressure 500 Pa draw a horizontal line to the right intersection point W is the working point. Find a fan curve close to the point, which be curve No. 13. As in RPM table its is the working point 2002 RPM.

Step 2 :The intersection point between vertical line on the curve No. 13 in shaft Power is W1. Drawing a horizontal line towards shaft power, value will be (approx 0.39 Kw). According to Shaft Power ,motor selected will be 0.55 Kw.

Step 3 :The intersection point the vertical line on the curve will be No. 13 in sound Pressure is W2. Drawing a horizontal line from towards the sound pressure, value will be (approx 69 dB (A)). Its the fan sound Pressure level.

Step 4 :According to above 3 steps, fan selected is (PRLS - 300 - 0.18) ,belt drive and the RPM selected is 2002.

Step 5 :Further the customer has the option of using direct drive (e.g) 4 POLE - 1750 rpm, the nearest rpm curve 11 can give respective static pressure and CFM characteristics.

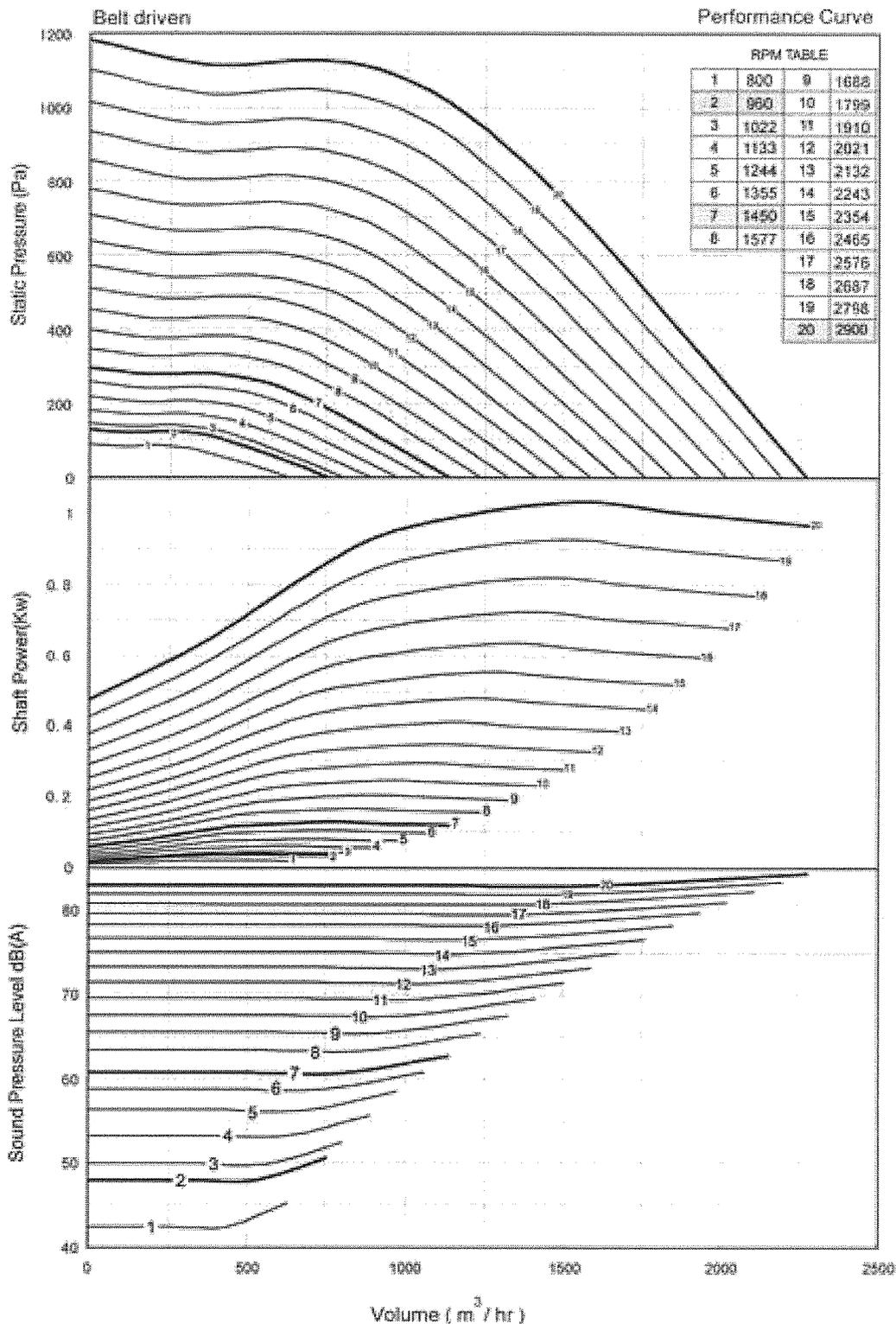


PRLS



PRLS - 300

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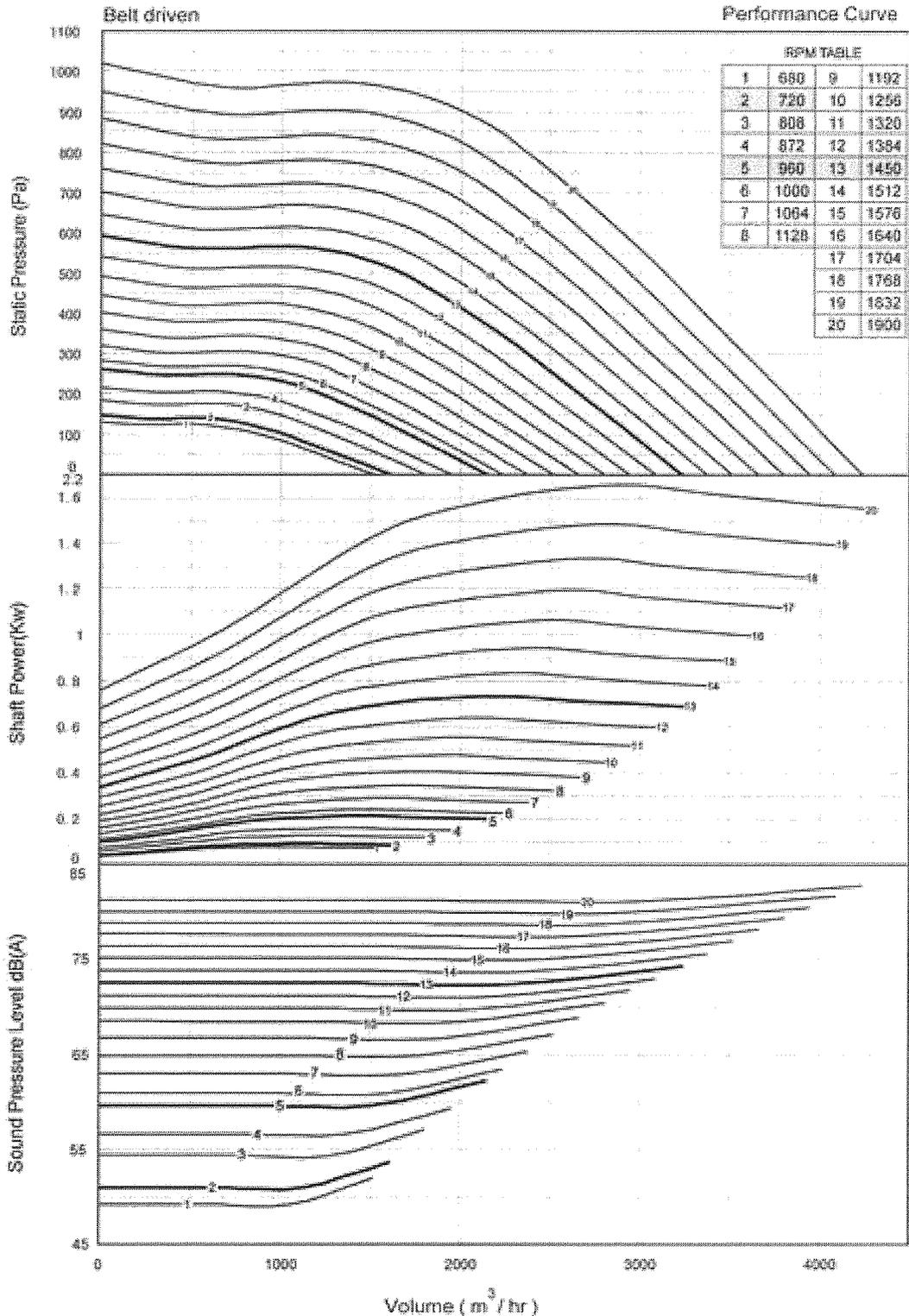


Performance certified is for installation type B - free inlet, duct outlet. Power rating (KW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LWA sound power levels for installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.



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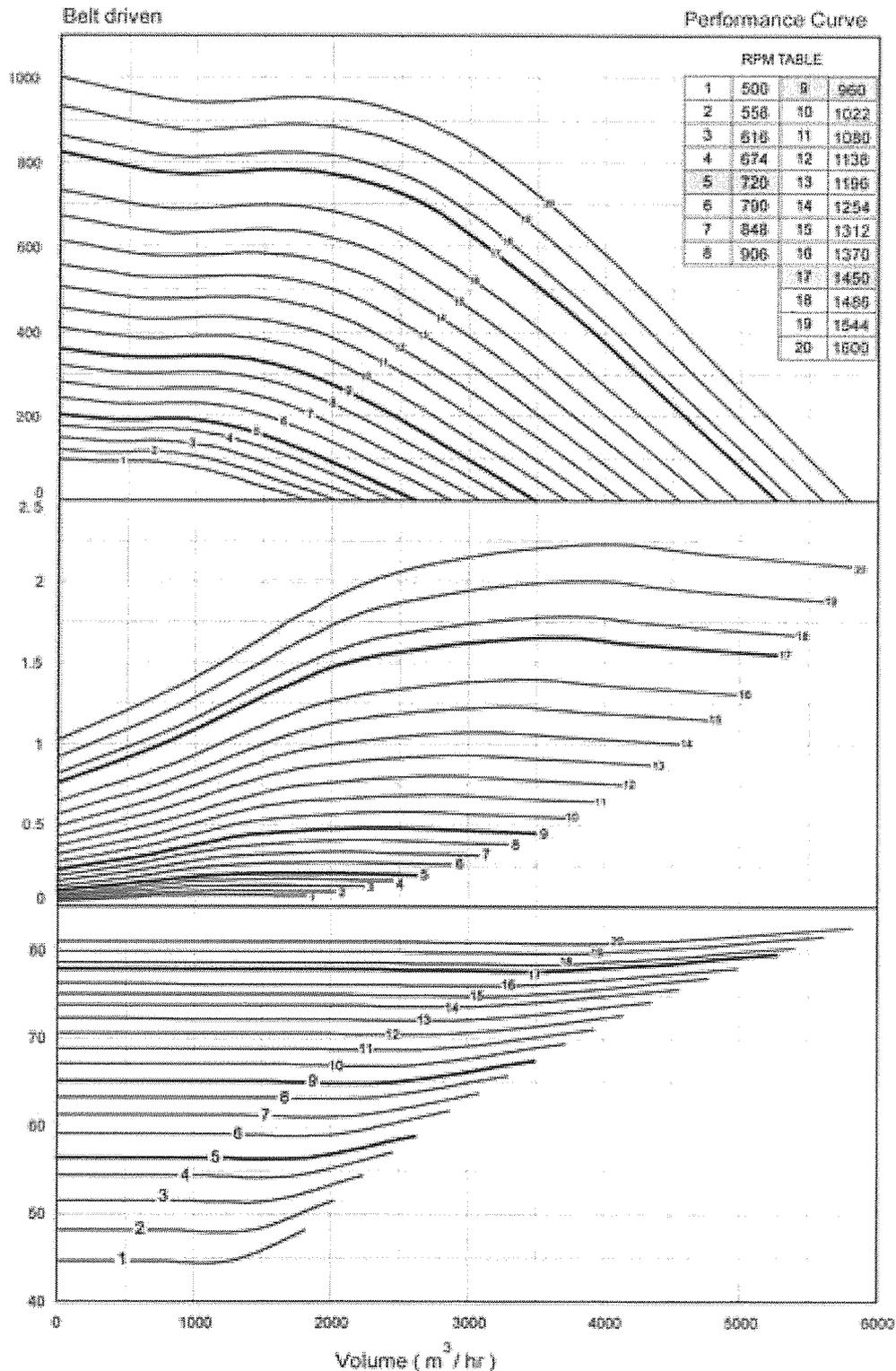
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PRLS



PRLS - 500



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Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

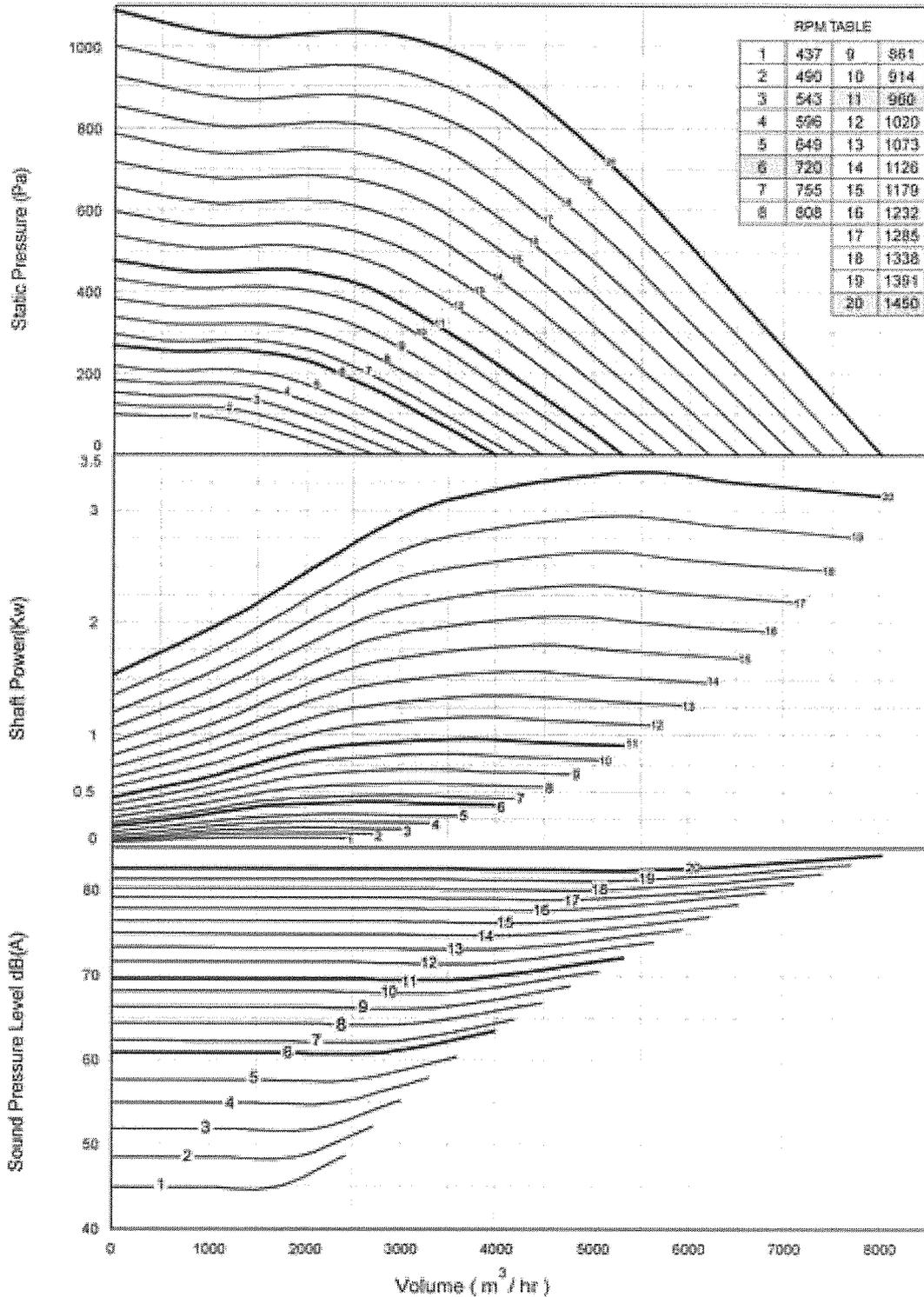


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Belt driven

Performance Curve



Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LWA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.

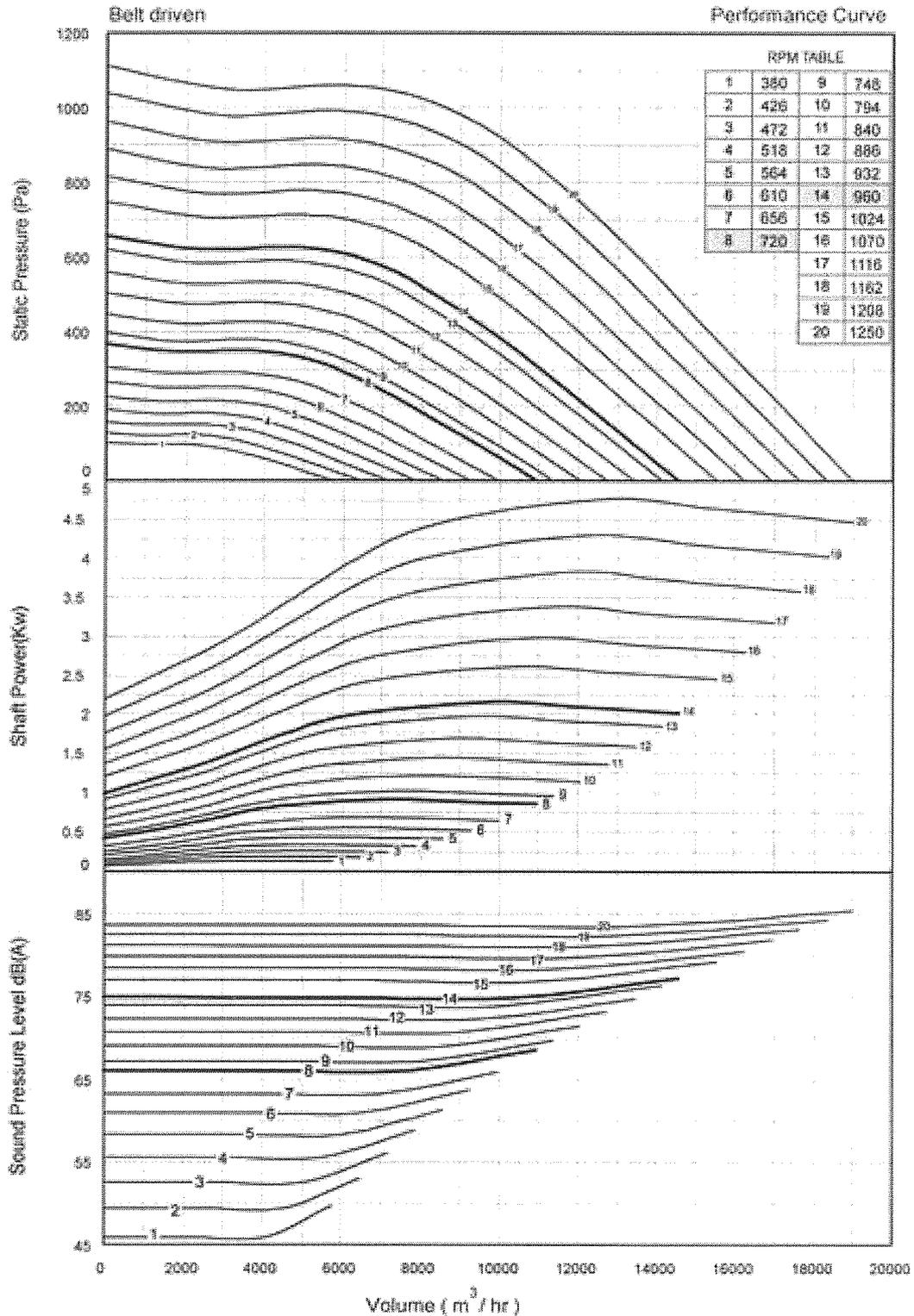


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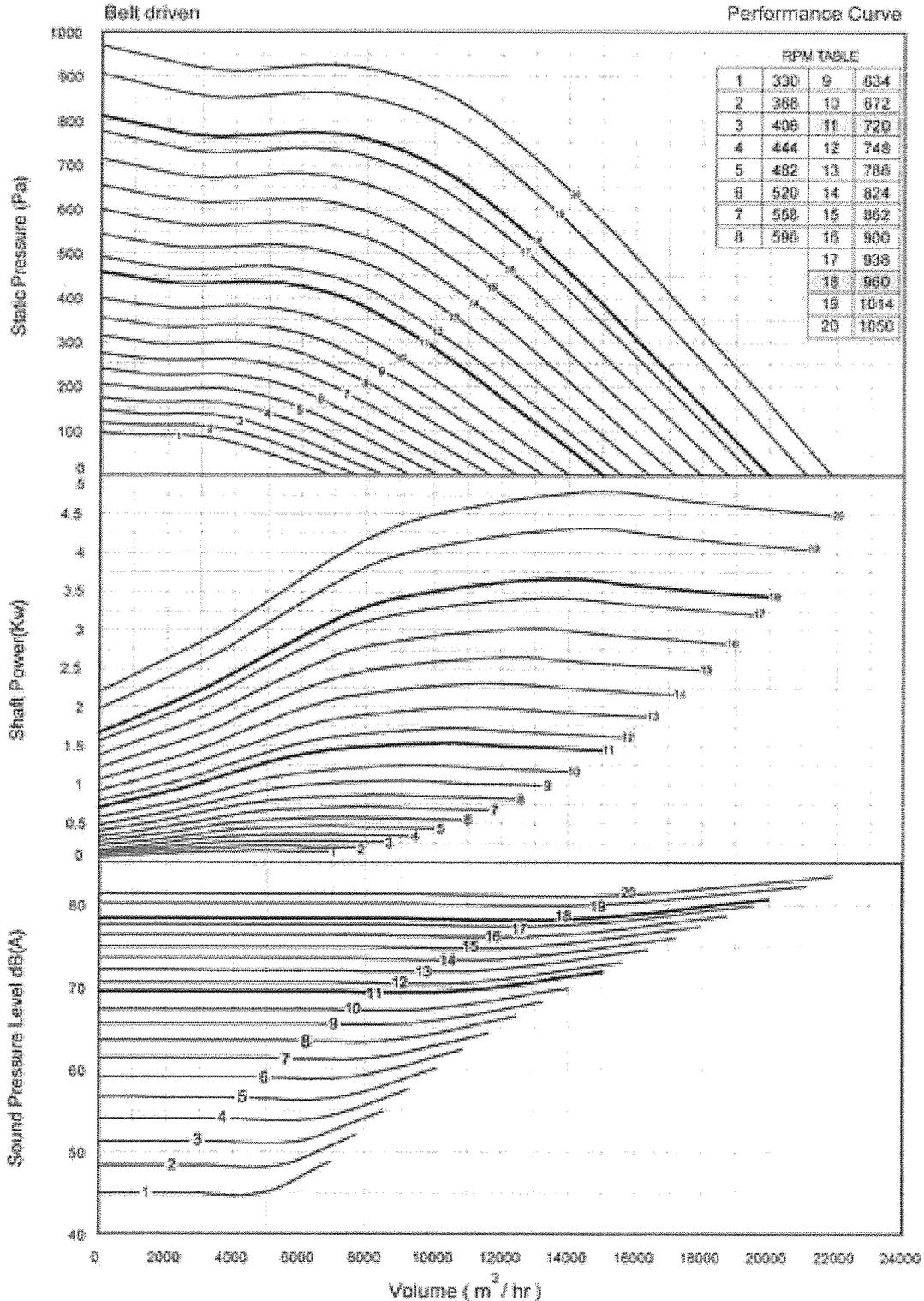


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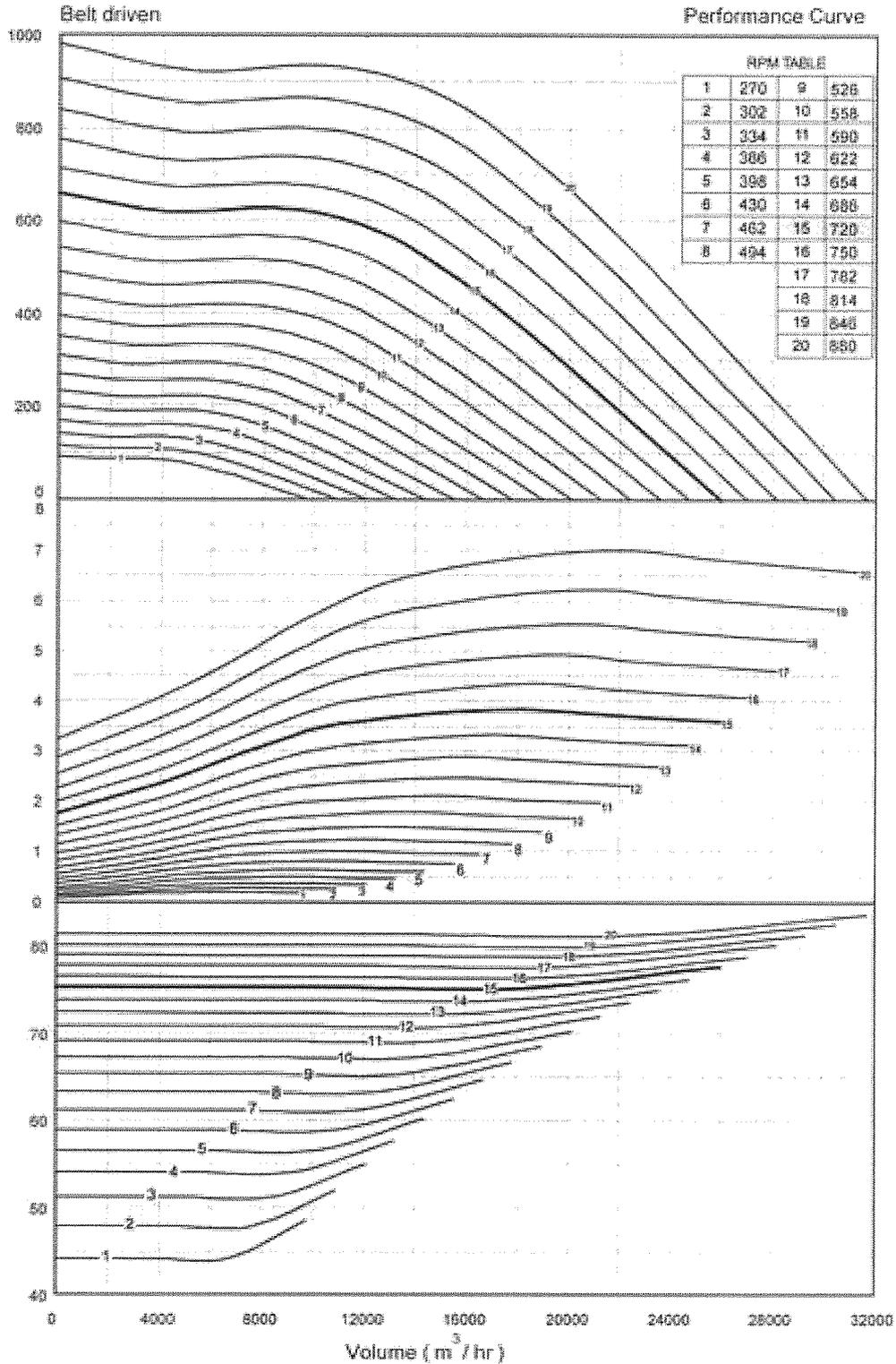
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PRLS



PRLS - 900



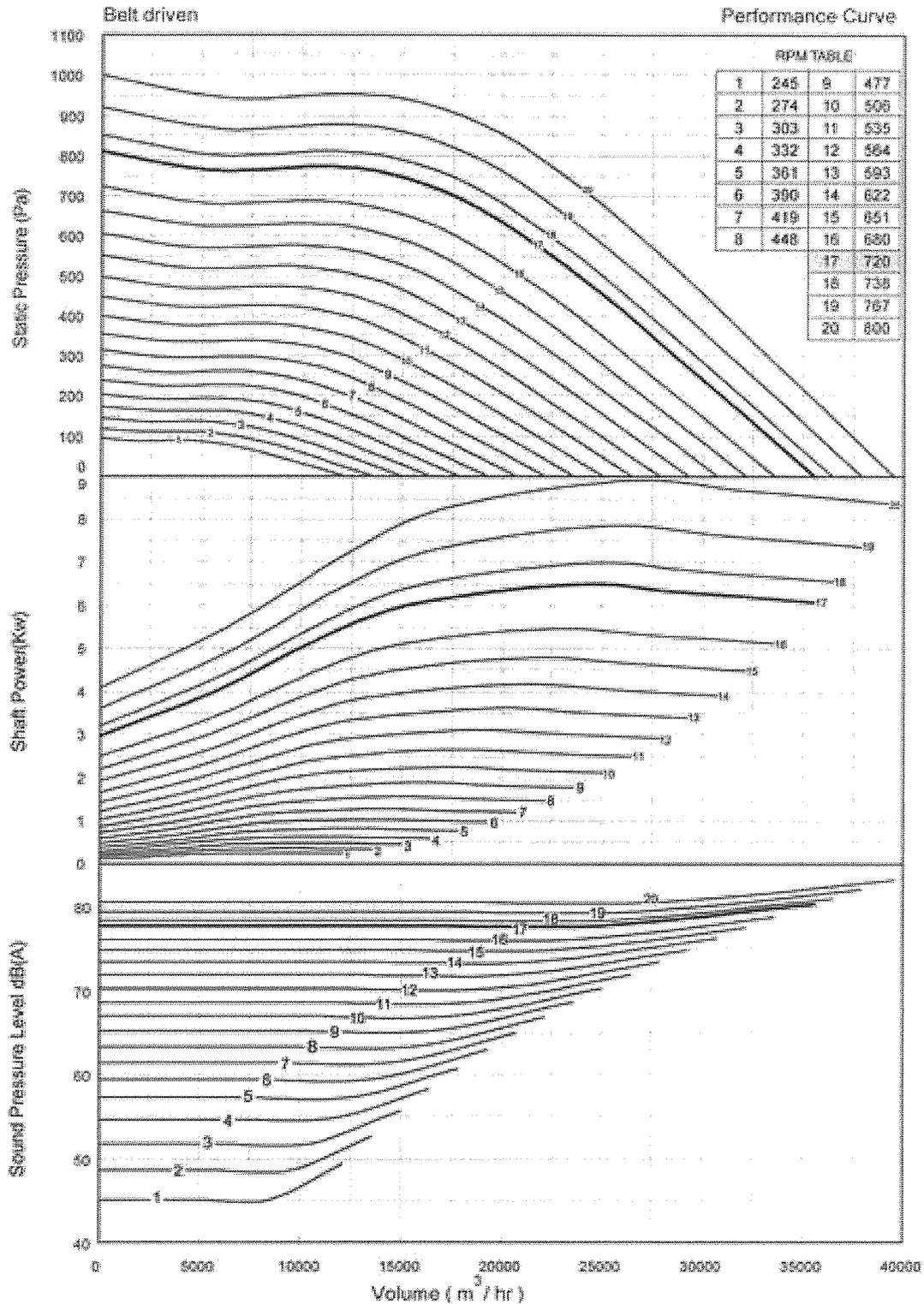
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Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.



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Performance certified is for installation type B - free inlet, duct outlet. Power rating (KW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Ratings do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5 m. Note that dB(A) levels are not licensed by AMCA International.



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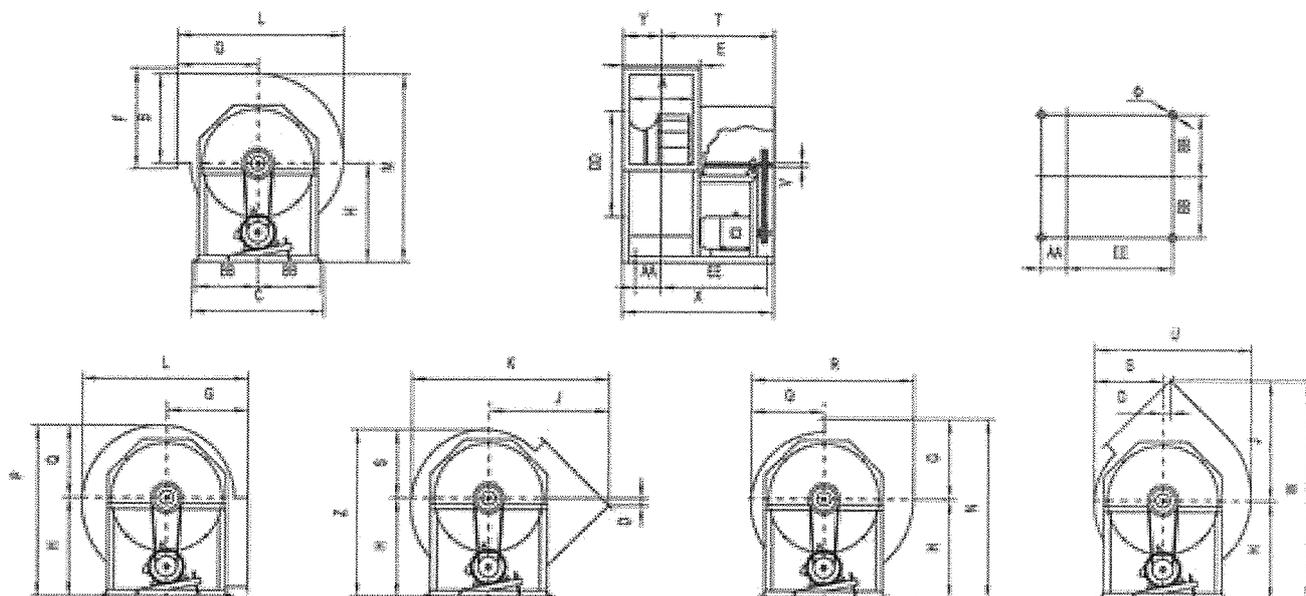


BELT DRIVE

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Fan Arrangements and Dimensions



Model	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V		W	X	Y	Z	AA	BB	DD	EE	Φ	frame	weight kg
																				rad	rpm											
PRLS-300	215	305	430	44	295	385	250	390	398	650	528	688	630	608	228	536	207	470	507	20	1000	778	820	150	587	75	195	380	425	12.5	90S	48
PRLS-300	305	432	650	65	350	555	335	510	540	900	730	930	845	830	220	748	362	540	718	20	1000	1050	735	195	812	100	275	540	475	12.5	90L	76
PRLS-300	355	508	730	48	425	565	410	550	628	1035	850	1028	965	928	270	848	348	630	615	25	1000	1178	840	215	898	125	340	615	550	12.5	112M	98
PRLS-300	413	584	800	58	480	640	480	615	708	1168	965	1158	1075	1040	425	968	400	650	630	25	1000	1323	895	245	1015	150	375	690	575	12.5	112M	150
PRLS-300	485	686	910	65	530	715	525	690	808	1344	1102	1308	1215	1185	485	1113	465	735	1078	25	1000	1498	1005	270	1155	175	430	795	650	12.5	132S	215
PRLS-300	535	762	980	55	575	775	600	750	905	1490	1235	1430	1350	1298	548	1225	516	840	1182	30	1000	1655	1130	290	1268	200	465	870	750	12.5	132M	315
PRLS-300	647	914	1133	55	645	875	700	850	1046	1737	1425	1628	1550	1498	648	1426	618	875	1384	30	1000	1896	1200	325	1488	225	540	1020	775	12.5	132M	440
PRLS-300	719	1016	1233	60	695	950	755	925	1145	1905	1573	1780	1690	1640	715	1570	683	1010	1525	35	1000	2070	1360	350	1608	250	590	1120	875	12.5	160M	550

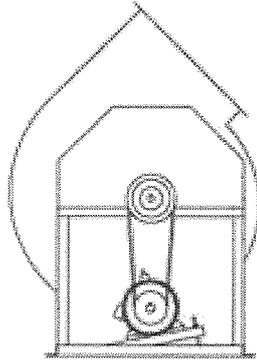
Note : The motor weight is not included in the above table



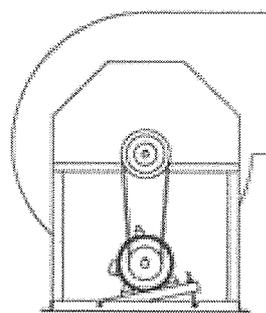
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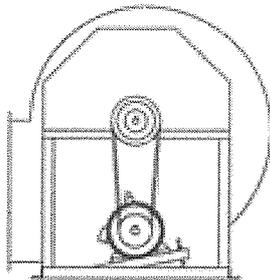
Optional Discharge



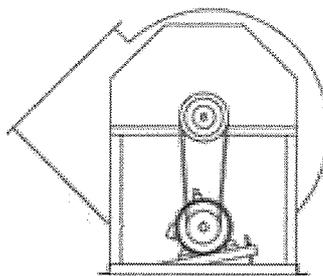
135°



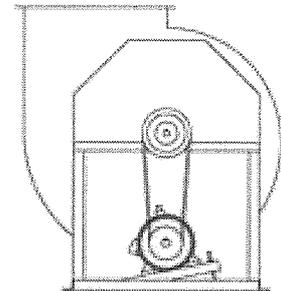
180°



0°



45°



90°

Motor Weight Table

Power (kW)	Motor Weight (kg)			
	2P	4P	6P	8P
0.18	14	13.5	14	16
0.25	14.5	14	14.5	17
0.37	15	14.5	16	24
0.55	15.5	15	17	28
0.75	15	16	22	30
1.1	16	21	24	32
1.5	21	23	32	40
2.2	24	33	41	64
3	33	35	63	78
4	41	41	72	105
5.5	63	65	81	115
7.5	70	76	118	145
11	110	118	145	160



PRLS

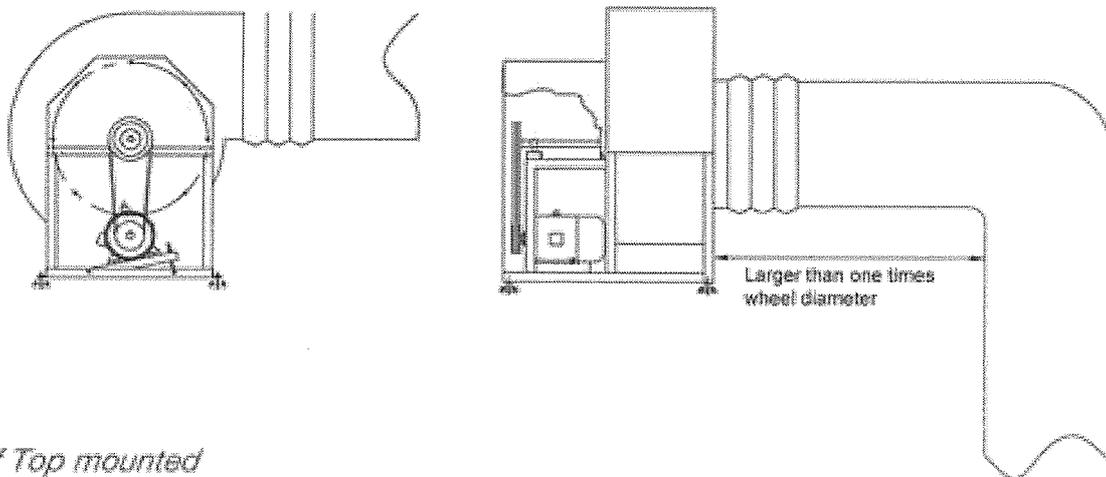


INSTALLATION GUIDELINES

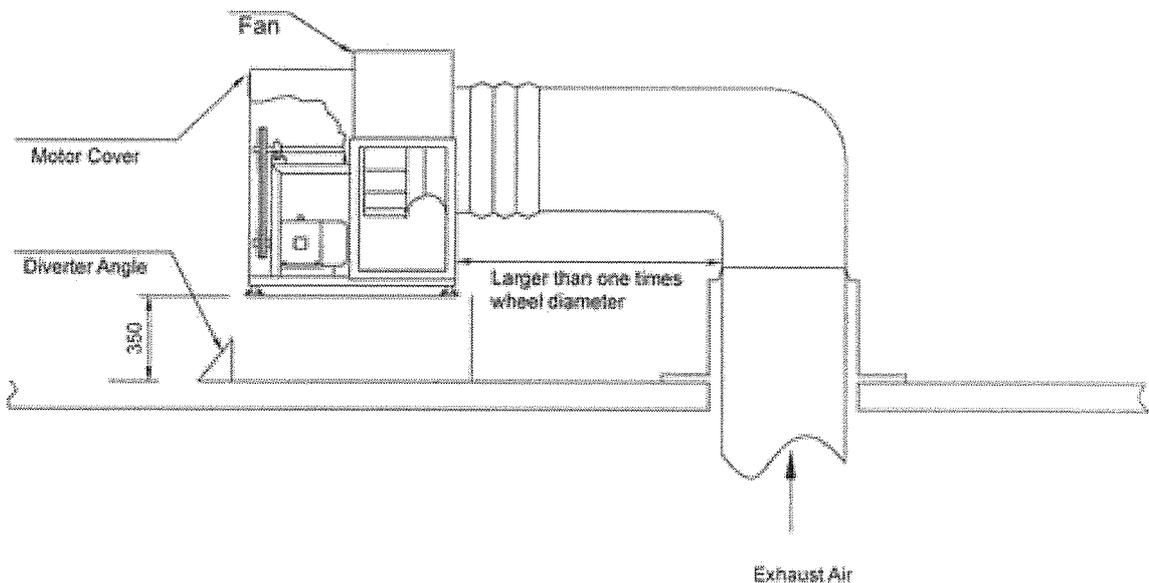
Dynair PRLS series fans are suitable for supply, exhaust and return air application. Tests were conducted to assure safe and reliable fans capable of withstanding severe conditions. Dynair series fans are designed for application ranging from clean air to contaminated air.

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Floor mounted



Roof Top mounted



Dynair series fans are designed to meet restaurant, hotel kitchen grease. Fans shall be checked & cleaned before installation to ensure wheels rotate freely. Ventilations shall not interfere with each other. For easy maintenance a reasonable space shall be left for disassembling & replacing wheels & bearings. Outdoor installed fans shall have weatherhood to make electrical equipment weather-protected.

SOUND DATA

PRLS - 300

PRLS - 425

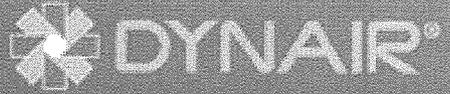
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RPM	VOLTAGE	Pa	SOUND POWER - OCTAVE BANDS										Leq(A)	dB(A)
			1	2	3	4	5	6	7	8	9	10		
800	0	62	58	57	56	52	47	39	31	25	21	18	16	15
	442	62	61	58	56	51	46	38	30	24	18	15	14	13
	884	61	59	56	53	48	40	32	26	20	15	13	12	11
	0	60	57	55	53	48	40	32	26	20	15	13	12	11
900	0	60	56	54	51	46	38	30	24	18	14	12	11	10
	330	57	55	52	49	44	36	28	22	16	13	11	10	9
	660	57	55	52	49	44	36	28	22	16	13	11	10	9
	0	56	54	51	48	43	35	27	21	15	12	10	9	8
1000	0	55	52	50	47	42	34	26	20	14	11	9	8	7
	330	52	50	47	44	39	31	23	17	12	9	8	7	6
	660	52	50	47	44	39	31	23	17	12	9	8	7	6
	0	54	51	49	46	41	33	25	19	13	10	8	7	6
1100	0	53	50	48	45	40	32	24	18	12	9	8	7	6
	330	50	48	45	42	37	29	21	15	11	8	7	6	5
	660	50	48	45	42	37	29	21	15	11	8	7	6	5
	0	51	48	46	43	38	30	22	16	11	8	7	6	5
1200	0	50	47	45	42	37	29	21	15	11	8	7	6	5
	330	47	45	42	39	34	26	18	12	8	7	6	5	4
	660	47	45	42	39	34	26	18	12	8	7	6	5	4
	0	49	46	44	41	36	28	20	14	9	7	6	5	4
1300	0	48	45	43	40	35	27	19	13	9	7	6	5	4
	330	45	43	40	37	32	24	16	10	7	6	5	4	3
	660	45	43	40	37	32	24	16	10	7	6	5	4	3
	0	47	44	42	39	34	26	18	12	8	7	6	5	4
1400	0	47	44	42	39	34	26	18	12	8	7	6	5	4
	330	44	42	39	36	31	23	15	9	7	6	5	4	3
	660	44	42	39	36	31	23	15	9	7	6	5	4	3
	0	46	43	41	38	33	25	17	11	7	6	5	4	3
1500	0	46	43	41	38	33	25	17	11	7	6	5	4	3
	330	43	41	38	35	30	22	14	8	6	5	4	3	2
	660	43	41	38	35	30	22	14	8	6	5	4	3	2
	0	45	42	40	37	32	24	16	10	7	6	5	4	3
1600	0	45	42	40	37	32	24	16	10	7	6	5	4	3
	330	42	40	37	34	29	21	13	7	5	4	3	2	1
	660	42	40	37	34	29	21	13	7	5	4	3	2	1
	0	44	41	39	36	31	23	15	9	6	5	4	3	2
1700	0	44	41	39	36	31	23	15	9	6	5	4	3	2
	330	41	39	36	33	28	20	12	6	4	3	2	1	0
	660	41	39	36	33	28	20	12	6	4	3	2	1	0
	0	43	40	38	35	30	22	14	8	5	4	3	2	1
1800	0	43	40	38	35	30	22	14	8	5	4	3	2	1
	330	40	38	35	32	27	19	11	6	4	3	2	1	0
	660	40	38	35	32	27	19	11	6	4	3	2	1	0
	0	42	39	37	34	29	21	13	7	5	4	3	2	1
1900	0	42	39	37	34	29	21	13	7	5	4	3	2	1
	330	39	37	34	31	26	18	10	5	3	2	1	0	0
	660	39	37	34	31	26	18	10	5	3	2	1	0	0
	0	41	38	36	33	28	20	12	6	4	3	2	1	0
2000	0	41	38	36	33	28	20	12	6	4	3	2	1	0
	330	38	36	33	30	25	17	9	5	3	2	1	0	0
	660	38	36	33	30	25	17	9	5	3	2	1	0	0
	0	40	37	35	32	27	19	11	6	4	3	2	1	0

RPM	VOLTAGE	Pa	SOUND POWER - OCTAVE BANDS										Leq(A)	dB(A)
			1	2	3	4	5	6	7	8	9	10		
600	0	58	54	53	50	45	37	29	23	17	13	11	10	9
	442	58	57	54	52	47	39	31	25	19	14	12	11	10
	884	57	55	52	49	44	36	28	22	16	12	10	9	8
	0	56	53	51	48	43	35	27	21	15	11	9	8	7
700	0	57	53	51	48	43	35	27	21	15	11	9	8	7
	330	54	52	49	46	41	33	25	19	13	10	8	7	6
	660	54	52	49	46	41	33	25	19	13	10	8	7	6
	0	55	52	50	47	42	34	26	20	14	10	8	7	6
800	0	55	52	50	47	42	34	26	20	14	10	8	7	6
	330	52	50	47	44	39	31	23	17	12	9	8	7	6
	660	52	50	47	44	39	31	23	17	12	9	8	7	6
	0	54	51	49	46	41	33	25	19	13	9	8	7	6
900	0	54	51	49	46	41	33	25	19	13	9	8	7	6
	330	51	49	46	43	38	30	22	16	11	8	7	6	5
	660	51	49	46	43	38	30	22	16	11	8	7	6	5
	0	53	50	48	45	40	32	24	18	12	8	7	6	5
1000	0	53	50	48	45	40	32	24	18	12	8	7	6	5
	330	50	48	45	42	37	29	21	15	10	7	6	5	4
	660	50	48	45	42	37	29	21	15	10	7	6	5	4
	0	52	49	47	44	39	31	23	17	11	8	7	6	5
1100	0	52	49	47	44	39	31	23	17	11	8	7	6	5
	330	49	47	44	41	36	28	20	14	9	7	6	5	4
	660	49	47	44	41	36	28	20	14	9	7	6	5	4
	0	51	48	46	43	38	30	22	16	10	7	6	5	4
1200	0	51	48	46	43	38	30	22	16	10	7	6	5	4
	330	48	46	43	40	35	27	19	13	8	6	5	4	3
	660	48	46	43	40	35	27	19	13	8	6	5	4	3
	0	50	47	45	42	37	29	21	15	9	7	6	5	4
1300	0	50	47	45	42	37	29	21	15	9	7	6	5	4
	330	47	45	42	39	34	26	18	12	7	5	4	3	2
	660	47	45	42	39	34	26	18	12	7	5	4	3	2
	0	49	46	44	41	36	28	20	14	8	6	5	4	3
1400	0	49	46	44	41	36	28	20	14	8	6	5	4	3
	330	46	44	41	38	33	25	17	10	6	4	3	2	1
	660	46	44	41	38	33	25	17	10	6	4	3	2	1
	0	48	45	43	40	35	27	19	13	7	5	4	3	2
1500	0	48	45	43	40	35	27	19	13	7	5	4	3	2
	330	45	43	40	37	32	24	16	9	6	4	3	2	1
	660	45	43	40	37	32	24	16	9	6	4	3	2	1
	0	47	44	42	39	34	26	18	12	7	5	4	3	2
1600	0	47	44	42	39	34	26	18	12	7	5	4	3	2
	330	44	42	39	36	31	23	15	8	5	3	2	1	0
	660	44	42	39	36	31	23	15	8	5	3	2	1	0
	0	46	43	41	38	33	25	17	10	6	4	3	2	1
1700	0	46	43	41	38	33	25	17	10	6	4	3	2	1
	330	43	41	38	35	30	22	14	7	4	3	2	1	0
	660	43	41	38	35	30	22	14	7	4	3	2	1	0
	0	45	42	40	37	32								



PRLS



SOUND DATA

PRLS - 500

Table with columns: RPM, VOLU, Fq, 1, 2, 3, 4, 5, 6, 7, 8, LWA, (dB(A)). Rows include model numbers like 500, 508, 616, 674, 720, 790, 846, 906, 960, 1020, 1080, 1138, 1196, 1254, 1312, 1370, 1428, 1486, 1544, 1602, 1660, 1718, 1776, 1834, 1892, 1950, 2008, 2066, 2124, 2182, 2240, 2298, 2356, 2414, 2472, 2530, 2588, 2646, 2704, 2762, 2820, 2878, 2936, 2994, 3052, 3110, 3168, 3226, 3284, 3342, 3400, 3458, 3516, 3574, 3632, 3690, 3748, 3806, 3864, 3922, 3980, 4038, 4096, 4154, 4212, 4270, 4328, 4386, 4444, 4502, 4560, 4618, 4676, 4734, 4792, 4850, 4908, 4966, 5024, 5082, 5140, 5198, 5256, 5314, 5372, 5430, 5488, 5546, 5604, 5662, 5720, 5778, 5836, 5894, 5952, 6010, 6068, 6126, 6184, 6242, 6300, 6358, 6416, 6474, 6532, 6590, 6648, 6706, 6764, 6822, 6880, 6938, 6996, 7054, 7112, 7170, 7228, 7286, 7344, 7402, 7460, 7518, 7576, 7634, 7692, 7750, 7808, 7866, 7924, 7982, 8040, 8098, 8156, 8214, 8272, 8330, 8388, 8446, 8504, 8562, 8620, 8678, 8736, 8794, 8852, 8910, 8968, 9026, 9084, 9142, 9200, 9258, 9316, 9374, 9432, 9490, 9548, 9606, 9664, 9722, 9780, 9838, 9896, 9954, 10012, 10070, 10128, 10186, 10244, 10302, 10360, 10418, 10476, 10534, 10592, 10650, 10708, 10766, 10824, 10882, 10940, 10998, 11056, 11114, 11172, 11230, 11288, 11346, 11404, 11462, 11520, 11578, 11636, 11694, 11752, 11810, 11868, 11926, 11984, 12042, 12100, 12158, 12216, 12274, 12332, 12390, 12448, 12506, 12564, 12622, 12680, 12738, 12796, 12854, 12912, 12970, 13028, 13086, 13144, 13202, 13260, 13318, 13376, 13434, 13492, 13550, 13608, 13666, 13724, 13782, 13840, 13898, 13956, 14014, 14072, 14130, 14188, 14246, 14304, 14362, 14420, 14478, 14536, 14594, 14652, 14710, 14768, 14826, 14884, 14942, 15000, 15058, 15116, 15174, 15232, 15290, 15348, 15406, 15464, 15522, 15580, 15638, 15696, 15754, 15812, 15870, 15928, 15986, 16044, 16102, 16160, 16218, 16276, 16334, 16392, 16450, 16508, 16566, 16624, 16682, 16740, 16798, 16856, 16914, 16972, 17030, 17088, 17146, 17204, 17262, 17320, 17378, 17436, 17494, 17552, 17610, 17668, 17726, 17784, 17842, 17900, 17958, 18016, 18074, 18132, 18190, 18248, 18306, 18364, 18422, 18480, 18538, 18596, 18654, 18712, 18770, 18828, 18886, 18944, 19002, 19060, 19118, 19176, 19234, 19292, 19350, 19408, 19466, 19524, 19582, 19640, 19698, 19756, 19814, 19872, 19930, 19988, 20046, 20104, 20162, 20220, 20278, 20336, 20394, 20452, 20510, 20568, 20626, 20684, 20742, 20800, 20858, 20916, 20974, 21032, 21090, 21148, 21206, 21264, 21322, 21380, 21438, 21496, 21554, 21612, 21670, 21728, 21786, 21844, 21902, 21960, 22018, 22076, 22134, 22192, 22250, 22308, 22366, 22424, 22482, 22540, 22598, 22656, 22714, 22772, 22830, 22888, 22946, 23004, 23062, 23120, 23178, 23236, 23294, 23352, 23410, 23468, 23526, 23584, 23642, 23700, 23758, 23816, 23874, 23932, 23990, 24048, 24106, 24164, 24222, 24280, 24338, 24396, 24454, 24512, 24570, 24628, 24686, 24744, 24802, 24860, 24918, 24976, 25034, 25092, 25150, 25208, 25266, 25324, 25382, 25440, 25498, 25556, 25614, 25672, 25730, 25788, 25846, 25904, 25962, 26020, 26078, 26136, 26194, 26252, 26310, 26368, 26426, 26484, 26542, 26600, 26658, 26716, 26774, 26832, 26890, 26948, 27006, 27064, 27122, 27180, 27238, 27296, 27354, 27412, 27470, 27528, 27586, 27644, 27702, 27760, 27818, 27876, 27934, 27992, 28050, 28108, 28166, 28224, 28282, 28340, 28398, 28456, 28514, 28572, 28630, 28688, 28746, 28804, 28862, 28920, 28978, 29036, 29094, 29152, 29210, 29268, 29326, 29384, 29442, 29500, 29558, 29616, 29674, 29732, 29790, 29848, 29906, 29964, 30022, 30080, 30138, 30196, 30254, 30312, 30370, 30428, 30486, 30544, 30602, 30660, 30718, 30776, 30834, 30892, 30950, 31008, 31066, 31124, 31182, 31240, 31298, 31356, 31414, 31472, 31530, 31588, 31646, 31704, 31762, 31820, 31878, 31936, 32000, 32060, 32120, 32180, 32240, 32300, 32360, 32420, 32480, 32540, 32600, 32660, 32720, 32780, 32840, 32900, 32960, 33020, 33080, 33140, 33200, 33260, 33320, 33380, 33440, 33500, 33560, 33620, 33680, 33740, 33800, 33860, 33920, 33980, 34040, 34100, 34160, 34220, 34280, 34340, 34400, 34460, 34520, 34580, 34640, 34700, 34760, 34820, 34880, 34940, 35000, 35060, 35120, 35180, 35240, 35300, 35360, 35420, 35480, 35540, 35600, 35660, 35720, 35780, 35840, 35900, 35960, 36020, 36080, 36140, 36200, 36260, 36320, 36380, 36440, 36500, 36560, 36620, 36680, 36740, 36800, 36860, 36920, 36980, 37040, 37100, 37160, 37220, 37280, 37340, 37400, 37460, 37520, 37580, 37640, 37700, 37760, 37820, 37880, 37940, 38000, 38060, 38120, 38180, 38240, 38300, 38360, 38420, 38480, 38540, 38600, 38660, 38720, 38780, 38840, 38900, 38960, 39020, 39080, 39140, 39200, 39260, 39320, 39380, 39440, 39500, 39560, 39620, 39680, 39740, 39800, 39860, 39920, 39980, 40040, 40100, 40160, 40220, 40280, 40340, 40400, 40460, 40520, 40580, 40640, 40700, 40760, 40820, 40880, 40940, 41000, 41060, 41120, 41180, 41240, 41300, 41360, 41420, 41480, 41540, 41600, 41660, 41720, 41780, 41840, 41900, 41960, 42020, 42080, 42140, 42200, 42260, 42320, 42380, 42440, 42500, 42560, 42620, 42680, 42740, 42800, 42860, 42920, 42980, 43040, 43100, 43160, 43220, 43280, 43340, 43400, 43460, 43520, 43580, 43640, 43700, 43760, 43820, 43880, 43940, 44000, 44060, 44120, 44180, 44240, 44300, 44360, 44420, 44480, 44540, 44600, 44660, 44720, 44780, 44840, 44900, 44960, 45020, 45080, 45140, 45200, 45260, 45320, 45380, 45440, 45500, 45560, 45620, 45680, 45740, 45800, 45860, 45920, 45980, 46040, 46100, 46160, 46220, 46280, 46340, 46400, 46460, 46520, 46580, 46640, 46700, 46760, 46820, 46880, 46940, 47000, 47060, 47120, 47180, 47240, 47300, 47360, 47420, 47480, 47540, 47600, 47660, 47720, 47780, 47840, 47900, 47960, 48020, 48080, 48140, 48200, 48260, 48320, 48380, 48440, 48500, 48560, 48620, 48680, 48740, 48800, 48860, 48920, 48980, 49040, 49100, 49160, 49220, 49280, 49340, 49400, 49460, 49520, 49580, 49640, 49700, 49760, 49820, 49880, 49940, 50000.

PRLS - 575

Table with columns: RPM, VOLU, Fq, 1, 2, 3, 4, 5, 6, 7, 8, LWA, (dB(A)). Rows include model numbers like 500, 508, 616, 674, 720, 790, 846, 906, 960, 1020, 1080, 1138, 1196, 1254, 1312, 1370, 1428, 1486, 1544, 1602, 1660, 1718, 1776, 1834, 1892, 1950, 2008, 2066, 2124, 2182, 2240, 2298, 2356, 2414, 2472, 2530, 2588, 2646, 2704, 2762, 2820, 2878, 2936, 2994, 3052, 3110, 3168, 3226, 3284, 3342, 3400, 3458, 3516, 3574, 3632, 3690, 3748, 3806, 3864, 3922, 3980, 4038, 4096, 4154, 4212, 4270, 4328, 4386, 4444, 4502, 4560, 4618, 4676, 4734, 4792, 4850, 4908, 4966, 5024, 5082, 5140, 5198, 5256, 5314, 5372, 5430, 5488, 5546, 5604, 5662, 5720, 5778, 5836, 5894, 5952, 6010, 6068, 6126, 6184, 6242, 6300, 6358, 6416, 6474, 6532, 6590, 6648, 6706, 6764, 6822, 6880, 6938, 6996, 7054, 7112, 7170, 7228, 7286, 7344, 7402, 7460, 7518, 7576, 7634, 7692, 7750, 7808, 7866, 7924, 7982, 8040, 8098, 8156, 8214, 8272, 8330, 8388, 8446, 8504, 8562, 8620, 8678, 8736, 8794, 8852, 8910, 8968, 9026, 9084, 9142, 9200, 9258, 9316, 9374, 9432, 9490, 9548, 9606, 9664, 9722, 9780, 9838, 9896, 9954, 10012, 10070, 10128, 10186, 10244, 10302, 10360, 10418, 10476, 10534, 10592, 10650, 10708, 10766, 10824, 10882, 10940, 10998, 11056, 11114, 11172, 11230, 11288, 11346, 11404, 11462, 11520, 11578, 11636, 11694, 11752, 11810, 11868, 11926, 11984, 12042, 12100, 12158, 12216, 12274, 12332, 12390, 12448, 12506, 12564, 12622, 12680, 12738, 12796, 12854, 12912, 12970, 13028, 13086, 13144, 13202, 13260, 13318, 13376, 13434, 13492, 13550, 13608, 13666, 13724, 13782, 13840, 13898, 13956, 14014, 14072, 14130, 14188, 14246, 14304, 14362, 14420, 14478, 14536, 14594, 14652, 14710, 14768, 14826, 14884, 14942, 15000, 15058, 15116, 15174, 15232, 15290, 15348, 15406, 15464, 15522, 15580, 15638, 15696, 15754, 15812, 15870, 15928, 15986, 16044, 16102, 16160, 16218, 16276, 16334, 16392, 16450, 16508, 16566, 16624, 16682, 16740, 16798, 16856, 16914, 16972, 17030, 17088, 17146, 17204, 17262, 17320, 17378, 17436, 17494, 17552, 17610, 17668, 17726, 17784, 17842, 17900, 17958, 18016, 18074, 18132, 18190, 18248, 18306, 18364, 18422, 18480, 18538, 18596, 18654, 18712, 18770, 18828, 18886, 18944, 19002, 19060, 19118, 19176, 19234, 19292, 19350, 19408, 19466, 19524, 19582, 19640, 19698, 19756, 19814, 19872, 19930, 19988, 20046, 20104, 20162, 20220, 20278, 20336, 20394, 20452, 20510, 20568, 20626, 20684, 20742, 20800, 20858, 20916, 20974, 21032, 21090, 21148, 21206, 21264, 21322, 21380, 21438, 21496, 21554, 21612, 21670, 21728, 21786, 21844, 21902, 21960, 22018, 22076, 22134, 22192, 22250, 22308, 22366, 22424, 22482, 22540, 22598, 22656, 22714, 22772, 22830, 22888, 22946, 23004, 23062, 23120, 23178, 23236, 23294, 23352, 23410, 23468, 23526, 23584, 23642, 23700, 23758, 23816, 23874, 23932, 23990, 24048, 24106, 24164, 24222, 24280, 24338, 24396, 24454, 24512, 24570, 24628, 24686, 24744, 24802, 24860, 24918, 24976, 25034, 25092, 25150, 25208, 25266, 25324, 25382, 25440, 25498, 25556, 25614, 25672, 25730, 25788, 25846, 25904, 25962, 26020, 26078, 26136, 26194, 26252, 26310, 26368, 26426, 26484, 26542, 26600, 26658, 26716, 26774, 26832, 26890, 26948, 27006, 27064, 27122, 27180, 27238, 27296, 27354, 27412, 27470, 27528, 27586, 27644, 27702, 27760, 27818, 27876, 27934, 27992, 28050, 28108, 28166, 28224, 28282, 28340, 28398, 28456, 28514, 28572, 28630, 28688, 28746, 28804, 28862, 28920, 28978, 29036, 29094, 29152, 29210, 29268, 29326, 29384, 29442, 29500, 29558, 29616, 29674, 29732, 29790, 29848, 29906, 29964, 30022, 30080, 30138, 30196, 30254, 30312, 30370, 30428, 30486, 30544, 30602, 30660, 30718, 30776, 30834, 30892, 30950, 31008, 31066, 31124, 31182, 31240, 31298, 31356, 31414, 31472, 31530, 31588, 31646, 31704, 31762, 31820, 31878, 31936, 31994, 32052, 32110, 32168, 32226, 32284, 32342, 32400, 32458, 32516, 32574, 32632, 32690, 32748, 32806, 32864, 32922, 32980, 33038, 33096, 33154, 33212, 33270, 33328, 33386, 33444, 33502, 33560, 33618, 33676, 33734, 33792, 33850, 33908, 33966, 34024, 34082, 34140, 34198, 34256, 34314, 34372, 34430, 34488, 34546, 34604, 34662, 34720, 34778, 34836, 34894, 34952, 35010, 35068, 35126, 35184, 35242, 35300, 35358, 35416, 35474, 35532, 35590, 35648, 35706, 35764, 35822, 35880, 35938, 35996, 36054, 36112, 36170, 36228, 36286, 36344, 36402, 36460, 36518, 36576, 36634, 36692, 36750, 36808, 36866, 36924, 36982, 37040, 37098, 37156, 37214, 37272, 37330, 37388, 37446, 37504, 37562, 37620, 37678, 37736, 37794, 37852, 37910, 37968, 38026, 38084, 38142, 38200, 38258, 38316, 38374, 38432, 38490, 38548, 38606, 38664, 38722, 38780, 38838, 38896, 38954, 39012, 39070, 39128, 39186, 39244, 39302, 39360, 39418, 39476, 39534, 39592, 39650, 39708, 39766, 39824, 39882, 39940, 40000.

Section 5 page 17

Values shown are for inlet LWA sound power levels for installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10-12 watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Rating do not include the effects of duct end correction. dB(A) A-weighted sound pressure level is based on 11.5 dB sound attenuation per octave band at 1.5m. Note that dB(A) levels are not licensed by AMCA International.



PRLS



SOUND DATA

PRLS - 900

PRLS - 1000

RPM	VOLTAGE	Pa	SOUND POWER - OCTAVE BANDS									Leq(A)	dBA
			1	2	3	4	5	6	7	8	9		
370	0	69	66	64	62	61	60	59	58	57	56	55	54
	1042	61	60	64	61	63	65	70	57	55	56	58	61
	0	62	60	64	61	63	65	70	57	55	56	58	61
390	0	72	69	67	65	64	63	62	61	60	59	58	57
	1042	64	72	67	65	63	63	62	61	60	59	58	57
	0	72	69	67	65	64	63	62	61	60	59	58	57
410	0	75	72	70	68	67	66	65	64	63	62	61	60
	1042	67	75	70	68	66	66	65	64	63	62	61	60
	0	75	72	70	68	67	66	65	64	63	62	61	60
430	0	78	75	73	71	70	69	68	67	66	65	64	63
	1042	70	78	73	71	69	69	68	67	66	65	64	63
	0	78	75	73	71	70	69	68	67	66	65	64	63
450	0	81	78	76	74	73	72	71	70	69	68	67	66
	1042	73	81	76	74	72	72	71	70	69	68	67	66
	0	81	78	76	74	73	72	71	70	69	68	67	66
470	0	84	81	79	77	76	75	74	73	72	71	70	69
	1042	76	84	79	77	75	75	74	73	72	71	70	69
	0	84	81	79	77	76	75	74	73	72	71	70	69
490	0	87	84	82	80	79	78	77	76	75	74	73	72
	1042	79	87	82	80	78	78	77	76	75	74	73	72
	0	87	84	82	80	79	78	77	76	75	74	73	72
510	0	90	87	85	83	82	81	80	79	78	77	76	75
	1042	82	90	85	83	81	81	80	79	78	77	76	75
	0	90	87	85	83	82	81	80	79	78	77	76	75
530	0	93	90	88	86	85	84	83	82	81	80	79	78
	1042	85	93	88	86	84	84	83	82	81	80	79	78
	0	93	90	88	86	85	84	83	82	81	80	79	78
550	0	96	93	91	89	88	87	86	85	84	83	82	81
	1042	88	96	91	89	87	87	86	85	84	83	82	81
	0	96	93	91	89	88	87	86	85	84	83	82	81
570	0	99	96	94	92	91	90	89	88	87	86	85	84
	1042	91	99	94	92	90	90	89	88	87	86	85	84
	0	99	96	94	92	91	90	89	88	87	86	85	84
590	0	102	99	97	95	94	93	92	91	90	89	88	87
	1042	94	102	97	95	93	93	92	91	90	89	88	87
	0	102	99	97	95	94	93	92	91	90	89	88	87
610	0	105	102	100	98	97	96	95	94	93	92	91	90
	1042	97	105	100	98	96	96	95	94	93	92	91	90
	0	105	102	100	98	97	96	95	94	93	92	91	90
630	0	108	105	103	101	100	99	98	97	96	95	94	93
	1042	100	108	103	101	99	99	98	97	96	95	94	93
	0	108	105	103	101	100	99	98	97	96	95	94	93
650	0	111	108	106	104	103	102	101	100	99	98	97	96
	1042	103	111	106	104	102	102	101	100	99	98	97	96
	0	111	108	106	104	103	102	101	100	99	98	97	96
670	0	114	111	109	107	106	105	104	103	102	101	100	99
	1042	106	114	109	107	105	105	104	103	102	101	100	99
	0	114	111	109	107	106	105	104	103	102	101	100	99
690	0	117	114	112	110	109	108	107	106	105	104	103	102
	1042	109	117	112	110	108	108	107	106	105	104	103	102
	0	117	114	112	110	109	108	107	106	105	104	103	102

RPM	VOLTAGE	Pa	SOUND POWER - OCTAVE BANDS									Leq(A)	dBA
			1	2	3	4	5	6	7	8	9		
345	0	70	67	65	63	62	61	60	59	58	57	56	55
	1042	62	70	65	63	61	61	60	59	58	57	56	55
	0	70	67	65	63	62	61	60	59	58	57	56	55
374	0	74	71	69	67	66	65	64	63	62	61	60	59
	1042	66	74	69	67	65	65	64	63	62	61	60	59
	0	74	71	69	67	66	65	64	63	62	61	60	59
393	0	77	74	72	70	69	68	67	66	65	64	63	62
	1042	69	77	72	70	68	68	67	66	65	64	63	62
	0	77	74	72	70	69	68	67	66	65	64	63	62
413	0	80	77	75	73	72	71	70	69	68	67	66	65
	1042	72	80	75	73	71	71	70	69	68	67	66	65
	0	80	77	75	73	72	71	70	69	68	67	66	65
433	0	83	80	78	76	75	74	73	72	71	70	69	68
	1042	75	83	78	76	74	74	73	72	71	70	69	68
	0	83	80	78	76	75	74	73	72	71	70	69	68
453	0	86	83	81	79	78	77	76	75	74	73	72	71
	1042	78	86	81	79	77	77	76	75	74	73	72	71
	0	86	83	81	79	78	77	76	75	74	73	72	71
473	0	89	86	84	82	81	80	79	78	77	76	75	74
	1042	81	89	84	82	80	80	79	78	77	76	75	74
	0	89	86	84	82	81	80	79	78	77	76	75	74
493	0	92	89	87	85	84	83	82	81	80	79	78	77
	1042	84	92	87	85	83	83	82	81	80	79	78	77
	0	92	89	87	85	84	83	82	81	80	79	78	77
513	0	95	92	90	88	87	86	85	84	83	82	81	80
	1042	87	95	90	88	86	86	85	84	83	82	81	80
	0	95	92	90	88	87	86	85	84	83	82	81	80
533	0	98	95	93	91	90	89	88	87	86	85	84	83
	1042	90	98	93	91	89	89	88	87	86	85	84	83
	0	98	95	93	91	90	89	88	87	86	85	84	83
553	0	101	98	96	94	93	92	91	90	89	88	87	86
	1042	93	101	96	94	92	92	91	90	89	88	87	86
	0	101	98	96	94	93	92	91	90	89	88	87	86
573	0	104	101	99	97	96	95	94	93	92	91	90	89
	1042	96	104	99	97	95	95	94	93	92	91	90	89
	0	104	101	99	97	96	95	94	93	92	91	90	89
593	0	107	104	102	100	99	98	97	96	95	94	93	92
	1042	99	107	102	100	98	98	97	96	95	94	93	92
	0	107	104	102	100	99	98	97	96	95	94	93	92
613	0	110	107	105	103	102	101	100	99	98	97	96	95
	1042	102	110	105	103	101	101	100	99	98	97	96	95
	0	110	107	105	103	102	101	100	99	98	97	96	95
633	0	113	110	108	106	105	104	103	102	101	100	99	98
	1042	105	113	108	106	104	104	103	102	101	100	99	98
	0	113	110	108	106	105	104	103	102	101	100	99	98
653	0	116	113	111	109	108	107	106	105	104	103	102	101
	1042	108	116	111	109	107	107	106	105	104	103	102	101
	0	116	113	111	109	108	107	106	105	104	103	102	101
673	0	119	116	114	112	111	110	109	108	107	106	105	104
	1042												