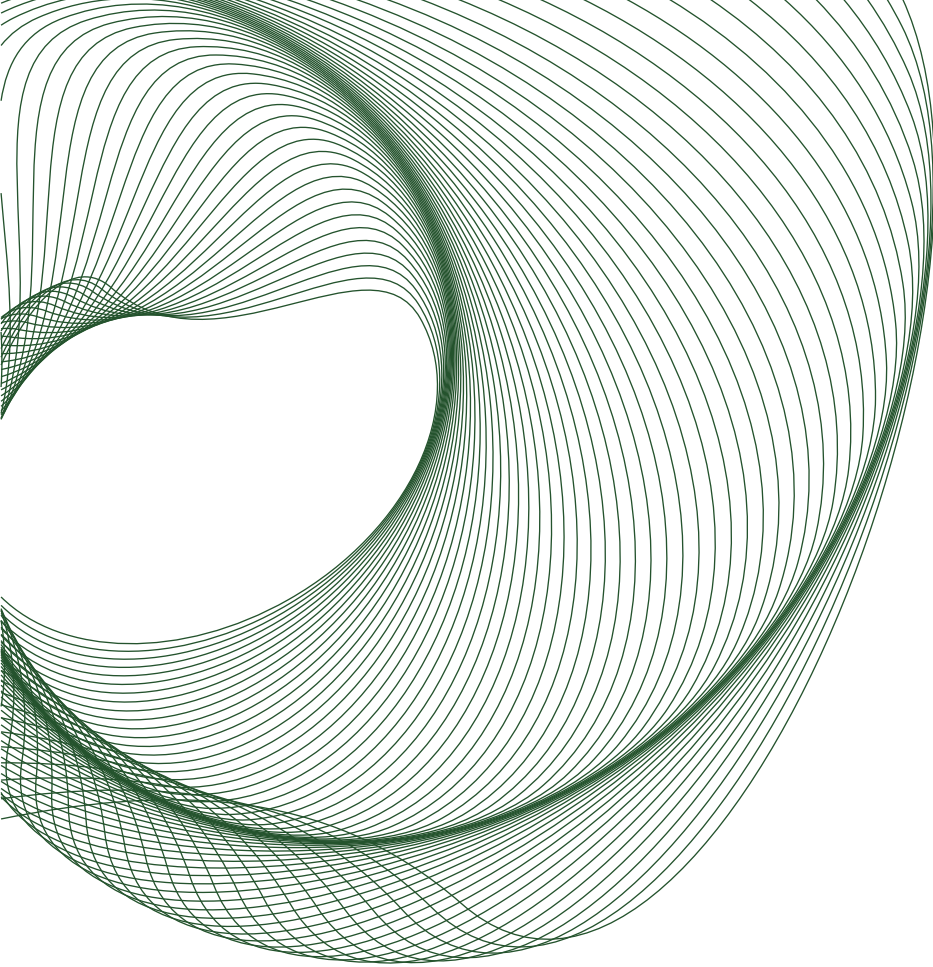
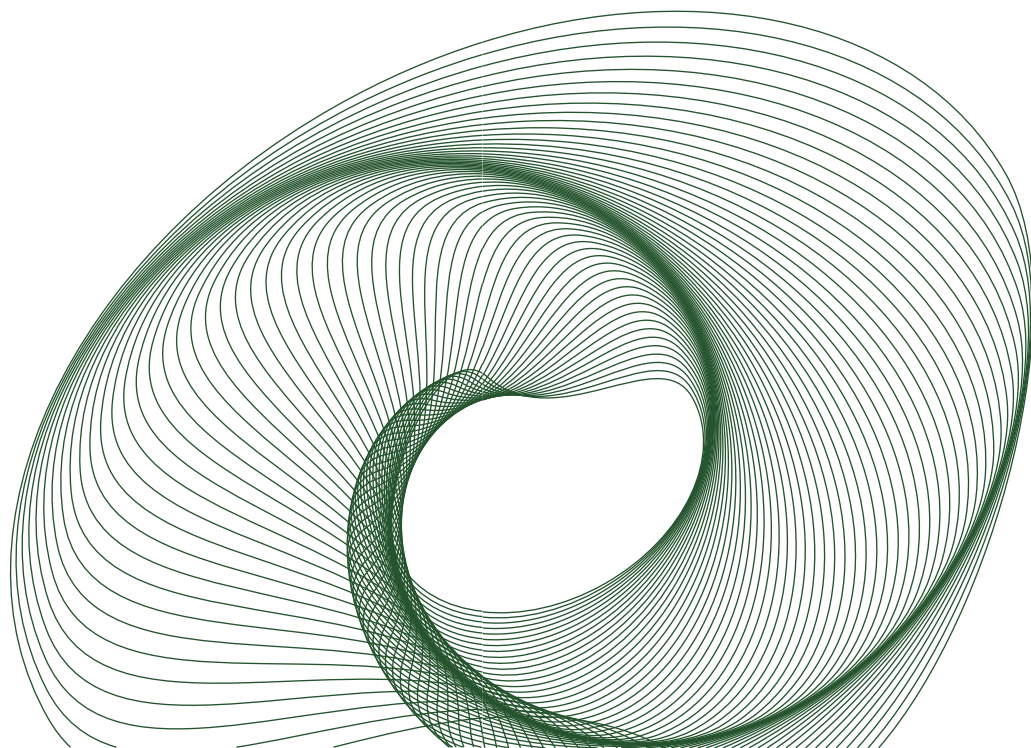




INFINAIR™

- Rango de operación: Caudal de aire de hasta 40,000 m³/h y presión estática de hasta 1,000 Pa.
- Impulsor centrífugo de álabes atrasados fabricado en aluminio, serie "Xiangxin".
- Grado de equilibrado dinámico de hasta G2.5.
- Carcasa totalmente soldada, ideal para la extracción de contaminantes.
- Diseño compacto que optimiza el espacio en el cuarto de máquinas.
- Diseño resistente a la intemperie (a prueba de lluvia) para instalaciones en exteriores.

CUS



G2.5

Company Profile

Yingfei Tongren Fan Co., Ltd. was established in September 2003. It is a high-end system solution and service provider integrating R&D, manufacturing, and sales in the fields of building ventilation, industrial ventilation, heating, and air treatment.

Upholding the future development concepts of “Green Environmental Protection” and “Intelligent Interconnection,” Yingfei Tongren continuously invests in ventilation technology research and development, adheres to the core value of being “customer-centered,” and consistently provides customers with reliable, convenient, energy-efficient, environmentally friendly, and smart-connected products and services.

Shanghai Headquarters:

Yingfei Tongren Fan Co., Ltd.
Building Area: 31,865 m²
Address: No. 55 Jade Road, Jiading District, Shanghai

Haimen Production Base (Wholly-owned Subsidiary):

Yingfei Tongren (Jiangsu) Fan Co., Ltd.
Building Area: 67,841 m²
Address: No. 1833 Guangzhou Road, Economic Development Zone, Haimen District, Nantong City, Jiangsu Province

Service Network:

The company's sales and service network covers major regions across China and worldwide, including Shanghai, Beijing, Guangzhou, Shenzhen, Guangxi, Anhui, Shaanxi, Henan, Hunan, Hubei, Fujian, Chengdu, Qingdao, Tianjin, Chongqing, Nanjing, Suzhou, Xinjiang, as well as Asia, North America, Europe, and the Middle East, providing customers with timely technical support and reliable after-sales service.

(Note: The company was previously known as Shanghai Tongren General Equipment Manufacturing Co., Ltd.)



Yingfei Vision:

To become a trusted professional brand in air transportation, control, and regulation.

Yingfei Mission:

To provide reliable and convenient air transportation, control, and regulation services.

Yingfei Dream:

Exceptional customer experience, a happy life for employees' families, and an entrepreneurial platform for partners.

Honors & Qualifications:

- National-level “Little Giant” Enterprise (Specialized and Innovative SME)
- National High-Tech Enterprise
- Shanghai Famous Trademark: INFINAIR®
- Shanghai Brand Product
- Shanghai Technology-Based SME
- Shanghai “Specialized and Innovative” Enterprise
- Shanghai Enterprise Technology Center
- SGS ISO9001, ISO14001, ISO45001 Management System Certifications

Haimen Production Base (Wholly-owned Subsidiary):

National High-Tech Enterprise



Effect of the 3rd generation Wind-Surfer^{III} wheel series

Effect of the 3rd generation Wind-Surfer wheel series

- Excellent aerodynamic characteristics and noise characteristics
- High-efficient area width without overloading
- Balance quality grade up to G2.5 (Typical products are balanced to G6.3 only)

Air performance design

- Optimized design of CFD flow field simulation, repeatedly validated
- Front disc and inlet venture tube according with flow field characteristic
- Flow passage control: matched each other to restrain the air flow better
- Optimize the blade angles

Structure performance design

- Stress analysis of FEA to Improve performance
- Selected the strengthen structure according to different specifications to improve reliability
- Using riveting technology to avoid stress



Advanced process

- Inlet venture tube & Front disc: spun process to ensure streamlines aerodynamic characteristics
- Inlet venture tube: replace bell mouth to ensure smooth air flow
- Blades: once punch forming to ensure process quality
- Tooling: dedicated fixture to ensure precise install of the blades

Improved wheel

- Continues improvement: The wheel has the 3rd generation
- Compared with the 2nd generation: Performance increased by 5-10%in the same parameters
- Compared with the 2nd generation: Noise reduced 2-3 dB(A) in the same parameters

Product Feature

Wide performance range

- Wheel diameter: 300 ~ 1000mm
- Wide rotation speed range, easy to select
- Pulley can be adjusted turns or replaced, motor is replaceable: fine tone fan performance range easily

Housing can be rotated at jobsite

- Scroll is fixed by 8 housing bolts; housing can be rotated at jobsite within limited angle

Spark B resistant construction

- Aluminum wheel & inlet
Natural explosion resistant
- AMCA standard: Spark B

Continuously Welded Housing

- Continuously welded housing : rigid structure
- Suitable for wet or contaminated air compared with mechanical "Pittsburg" lock-seam housing
- Will not leak when liquid gathered inside the scroll
- Suitable for exhaust wet or grease contaminated air

Easy maintenance

- Access doors are available on both sides of motor chamber
- One screw driver finishes all electrical and mechanical inspection: easily and quickly
- Standard scroll access door available

Compact profile

- Belt drive:AMCA arrangement 10 (motor is under the shaft)
Direct drive:AMCA arrangement 4
- Fan size reduced, expensive mechanical room space saved
- Belt length reduced and belt life extended
- The low center height of scroll leaves more space for duct installation

AMCA Seal: sound and air performance certified

- The sound & air performance is AMCA Certified
- Sound & Air Performance Seal is applied to each fan



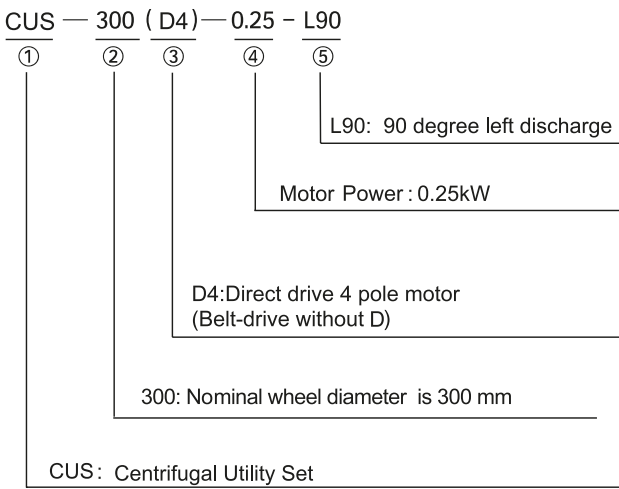
Suitable for outdoor installation

- Optional weather cover: protect the whole drive
- Avoid sunshine, rain, snow directly impact on running parts
- Climate factor on durability and safety of the outdoor-installed fan is reduced

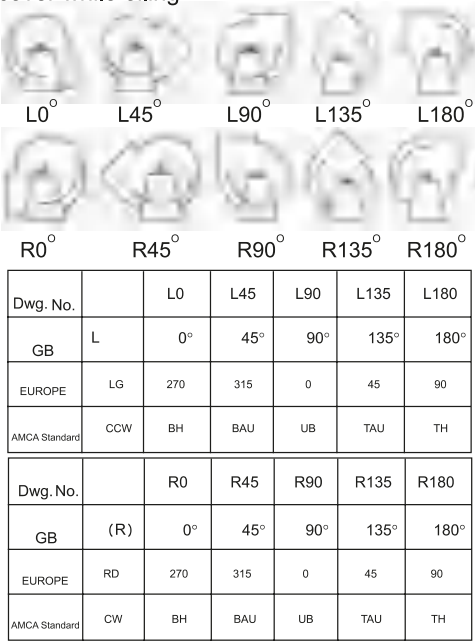
Optional Accesories

- 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 labor protection. Either inlet or outlet screen can be ordered separately.
- Weather hood
Standard belt drive CUS 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 & bearing from sunshine, rain and snow. Direct drive CUS shall be matched with motor weatherhood when the fan is outdoor installed.
- Drain
Located on the bottom of scroll to discharge contaminated substance such as condensed water, grease etc.
- Vibration isolators
Both rubber and spring vibration isolators are available. Isolators provided by INFINAIR are tested and inspected strictly, the performance is guaranteed.
- Inlet/Outlet Companion Flange
The companion flanges are attached to the ductwork to provide an exact mate to the flanged connection on the fan.
- Inlet/Outlet Flexible Duct Connector
Flexible Duct Connectors provide a flexible connection between the fan and the attached ductwork. This reduces the transmission of noise and vibration to the ductwork as well as allowing for slight misalignment.
- Extended lube lines (Apply to belt drive only)
Use extended lube lines for easy maintenance, avoiding removing bearing cover while oiling .

Naming convention



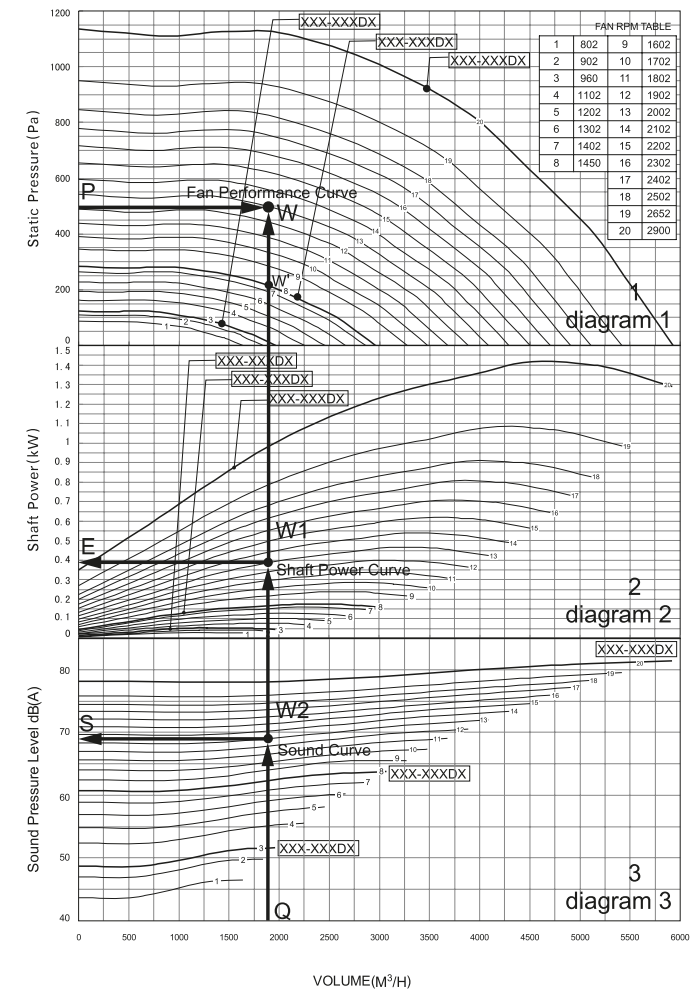
Point of view when determine rotation



Note:
The rotation is identified from the view of motor side, INFINAIR® adopt Chinese National Standard. For example, a CUS-425-2.2 with CCW-BH(AMCA) rotation, or LG270(Europe), please name it as CUS-425-2.2-L0 as per above table.

Catalogue introduction

- Each fan performance is symbolized by a group of curves for different RPM.
- The bolded curves indicate the fan is direct drive which means the wheel is installed on the motor shaft directly. All direct drive models shall have a suffix letter D followed by motor pole number (which is already marked on the drawing). The attached table shows motor RPM at different number of poles.
- The not-bolded curves means the fan is belt drive. The belt drive models establish different RPM by choosing different diameter of the 2 pulleys, while the motor is always 4-pole.
- Shaft Power Curve displays the fan actual power consumption.
- The sound pressure level curve indicated the noise level at 1.5 meter distance.



Example: 1800M³/h, 500Pa Static Pressure

Step 1: From given volume (Point Q: 1800M³/H) draw a vertical line upwards, from given static pressure (Point P: 500Pa) draw a horizontal line to the right, the intersection point W is the working point. Find a fan curve close to the point, which would be curve No. 13. As highlighted in the RPM table, it is 2002 RPM.

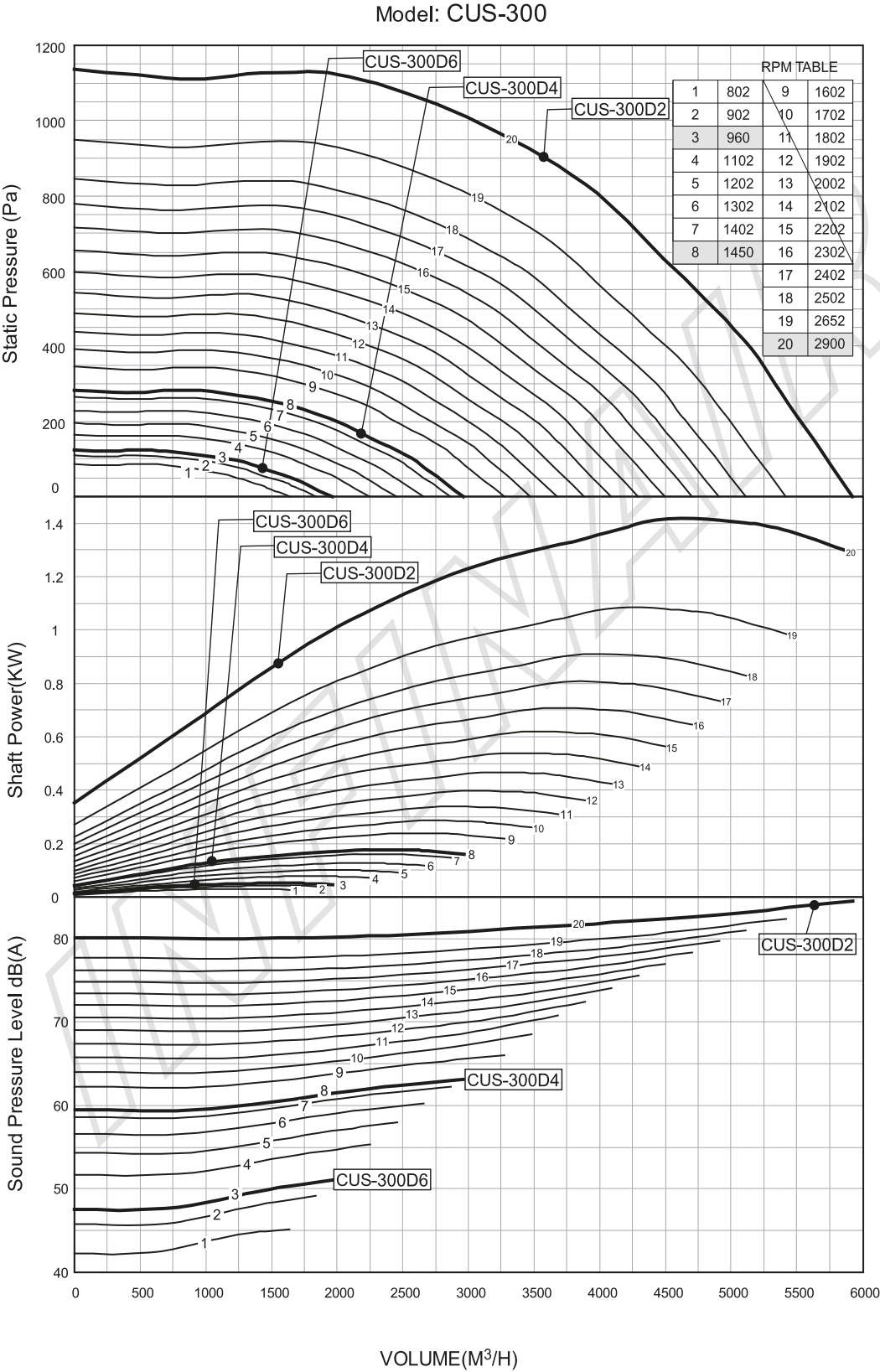
Step 2: The intersection point between the vertical line and the curve No. 13 in diagram 2 is marked as point W1. Draw a horizontal line from point W1 to the left coordinate, which makes point E. The point E (about 0.39kW) is the shaft power. According to the shaft power, a 0.55kW motor shall be equipped.

Step 3: The intersection point between the vertical line and the curve No. 13 in diagram 3 is marked as point W2. Draw a horizontal line from point W2 to the left coordinate, which makes point S (about 69dB(A)). It is the fan sound pressure level.

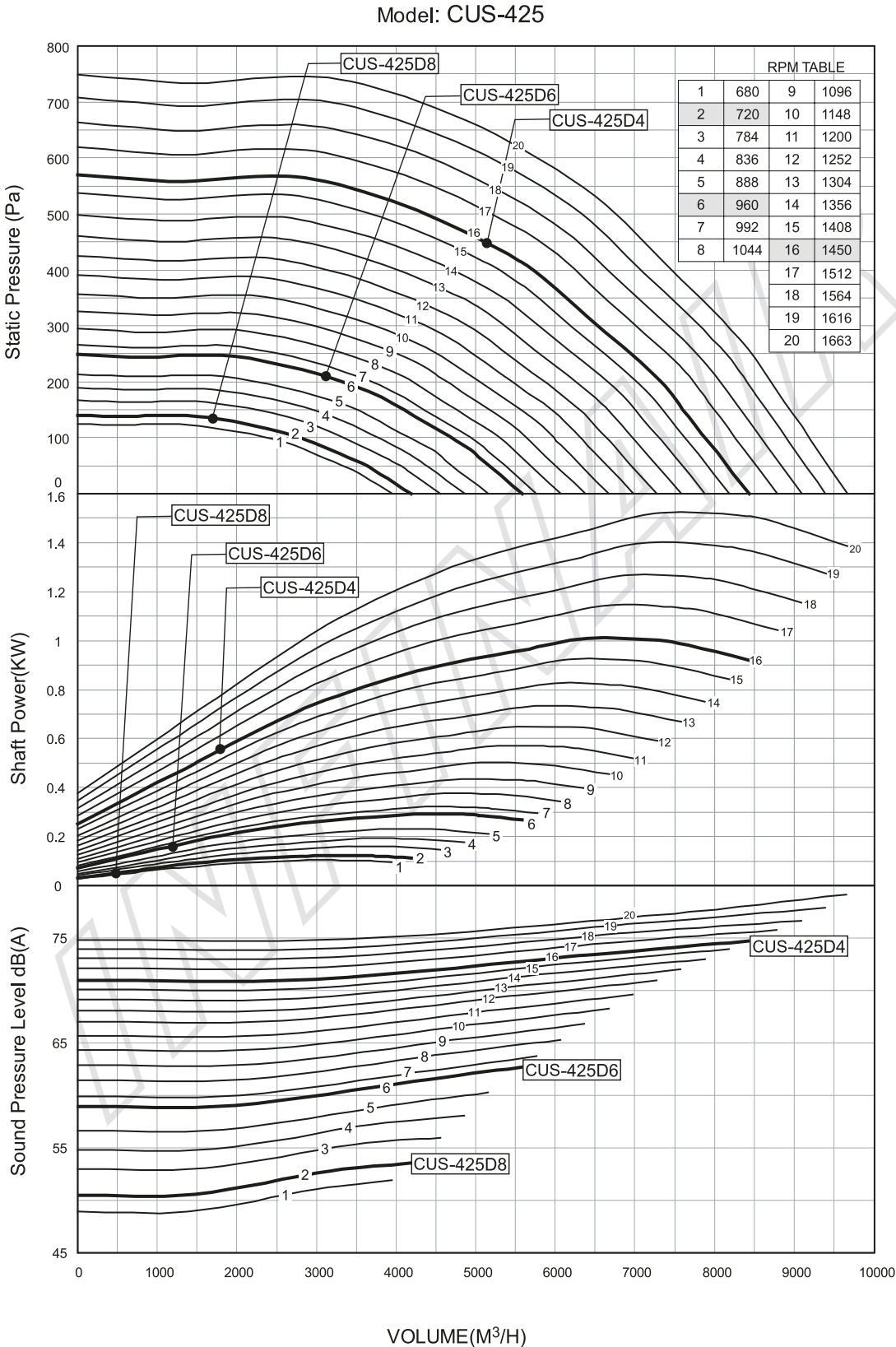
Step 4: According to above steps, the primary model selection would be CUS-300-0.55, belt drive, and factory set to 2002RPM. If lower shaft power or noise is expected, you may compare with another larger fan. However a larger fan would increase primary investment.

Step 5: Furthermore, if customer needs 1800M³/H at 200Pa static pressure, you would find point W' is close to curve No. 8 (bolded, indicates 1450 RPM 4 pole direct drive). Then a direct drive fan (CUS-300D4-0.37) can be selected which would be more economic.

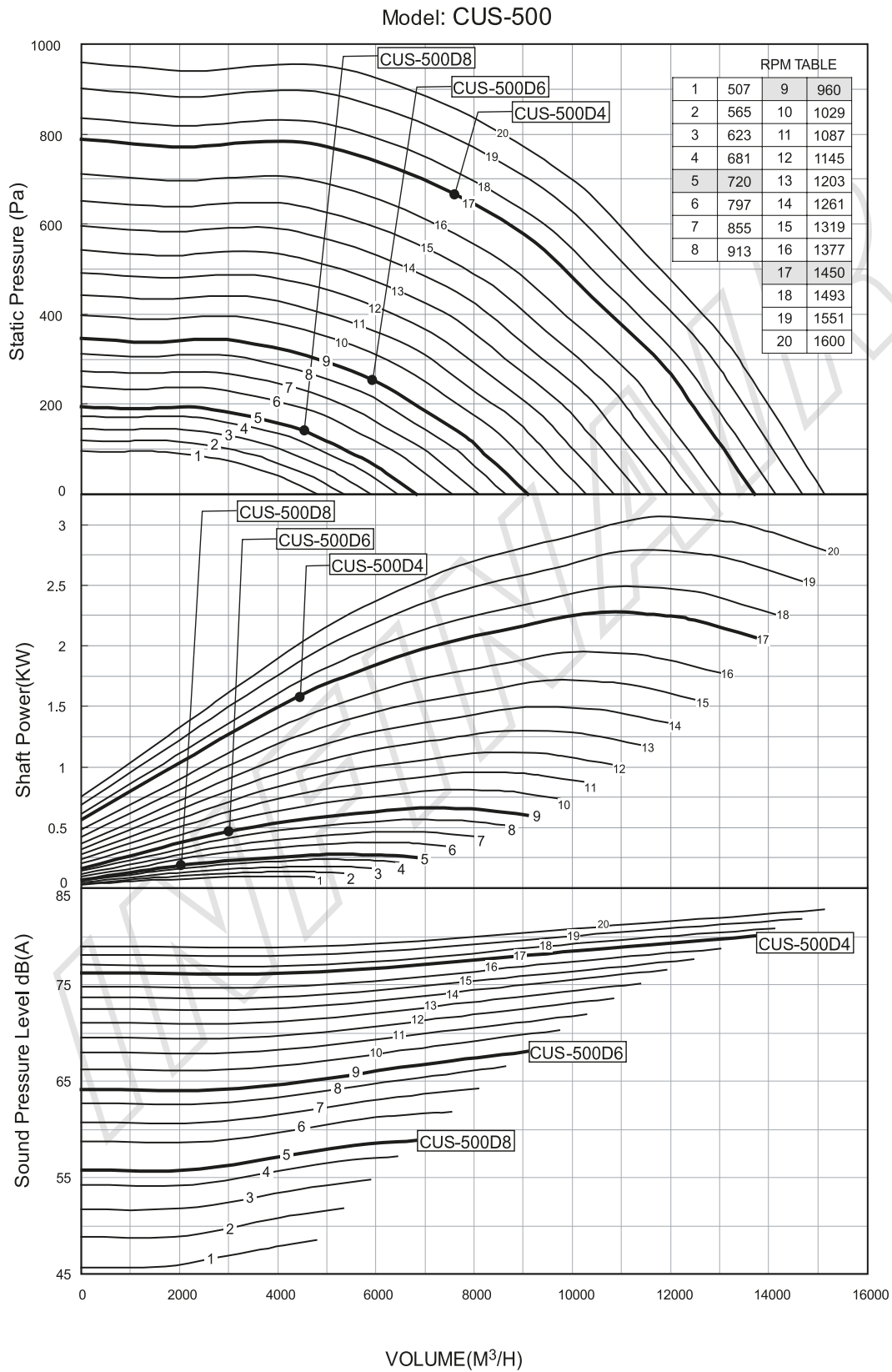
No. of poles	RPM (About)
2	2900
4	1450
6	960
8	720



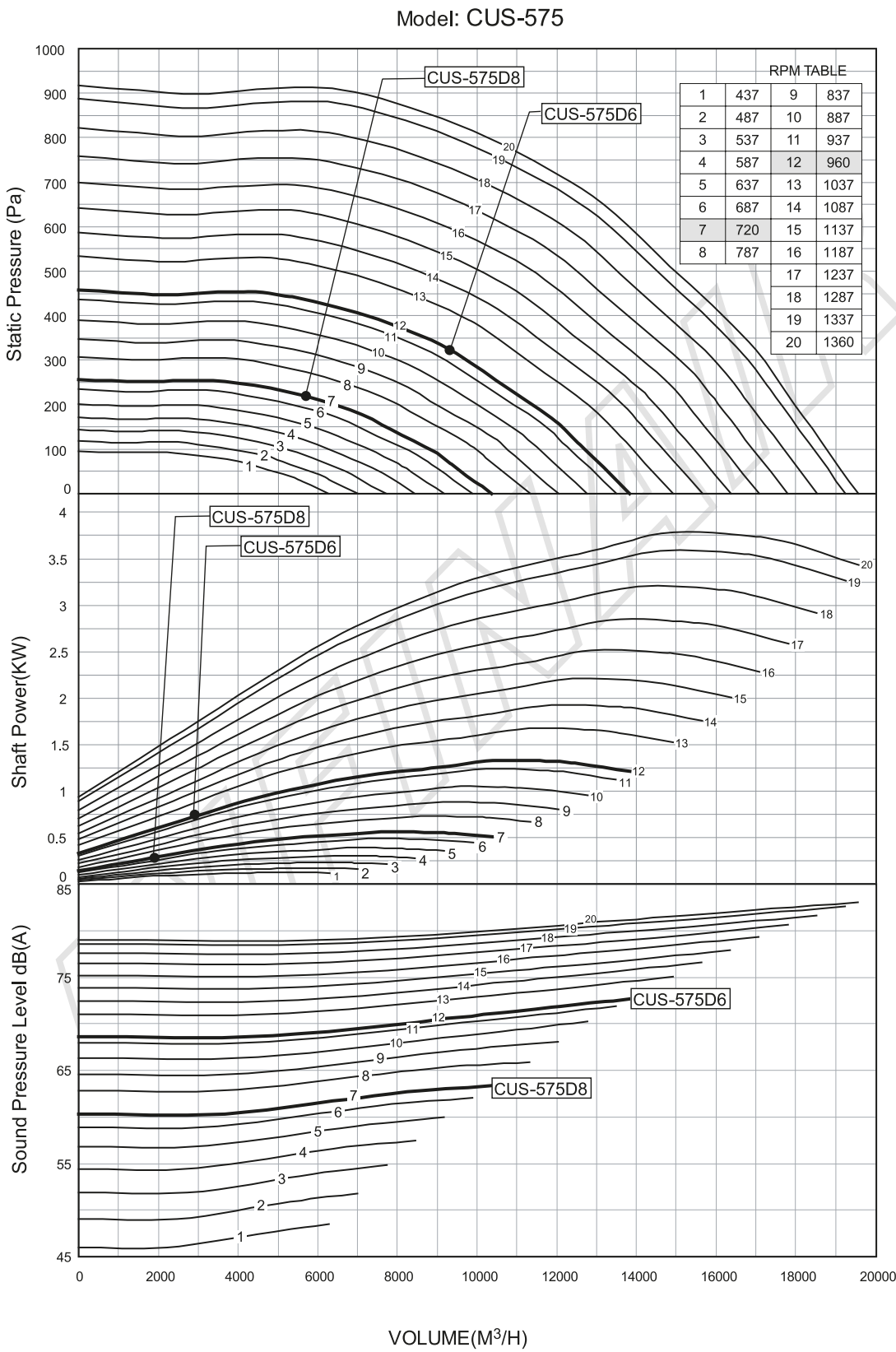
Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10⁻¹² watts, 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.



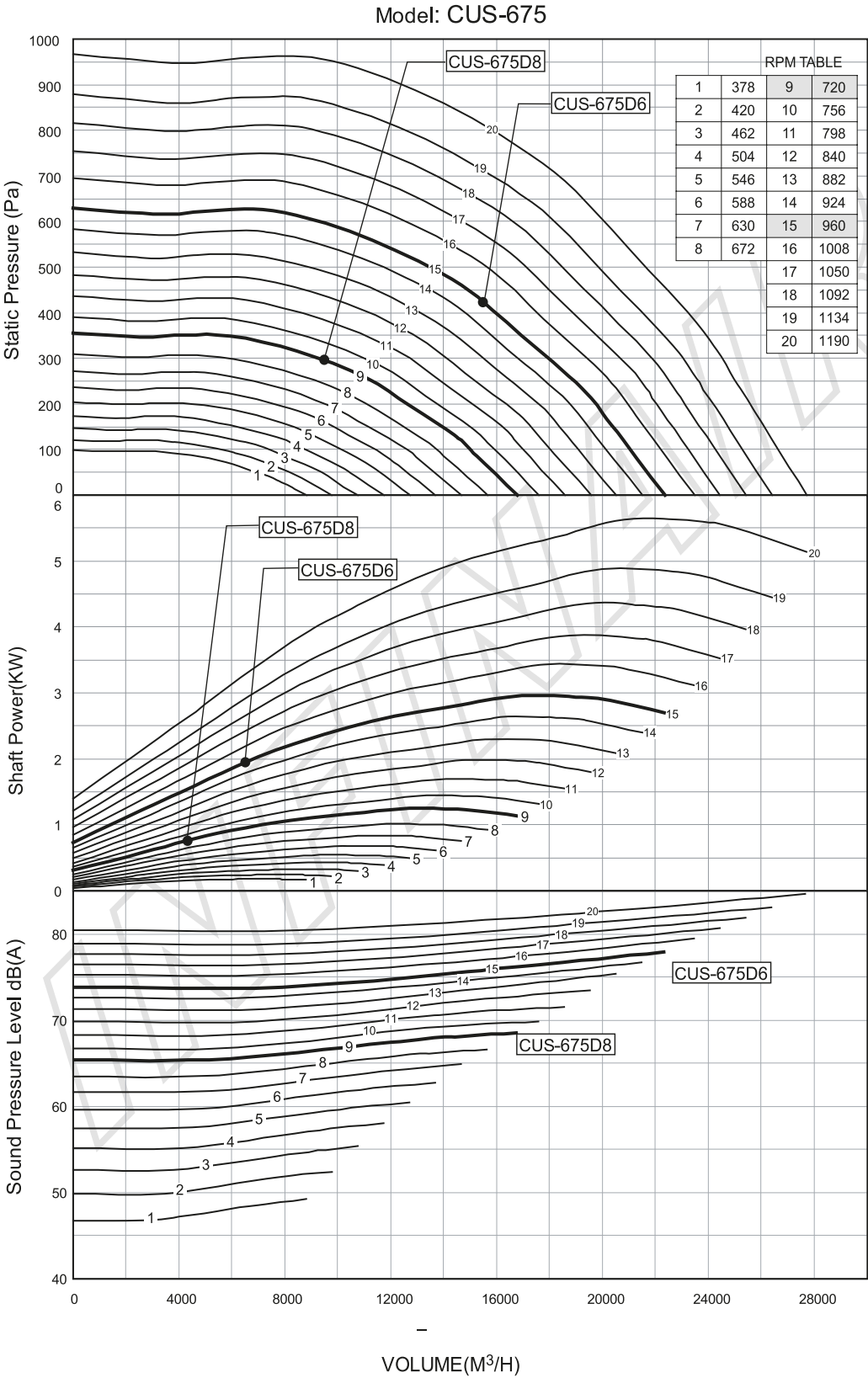
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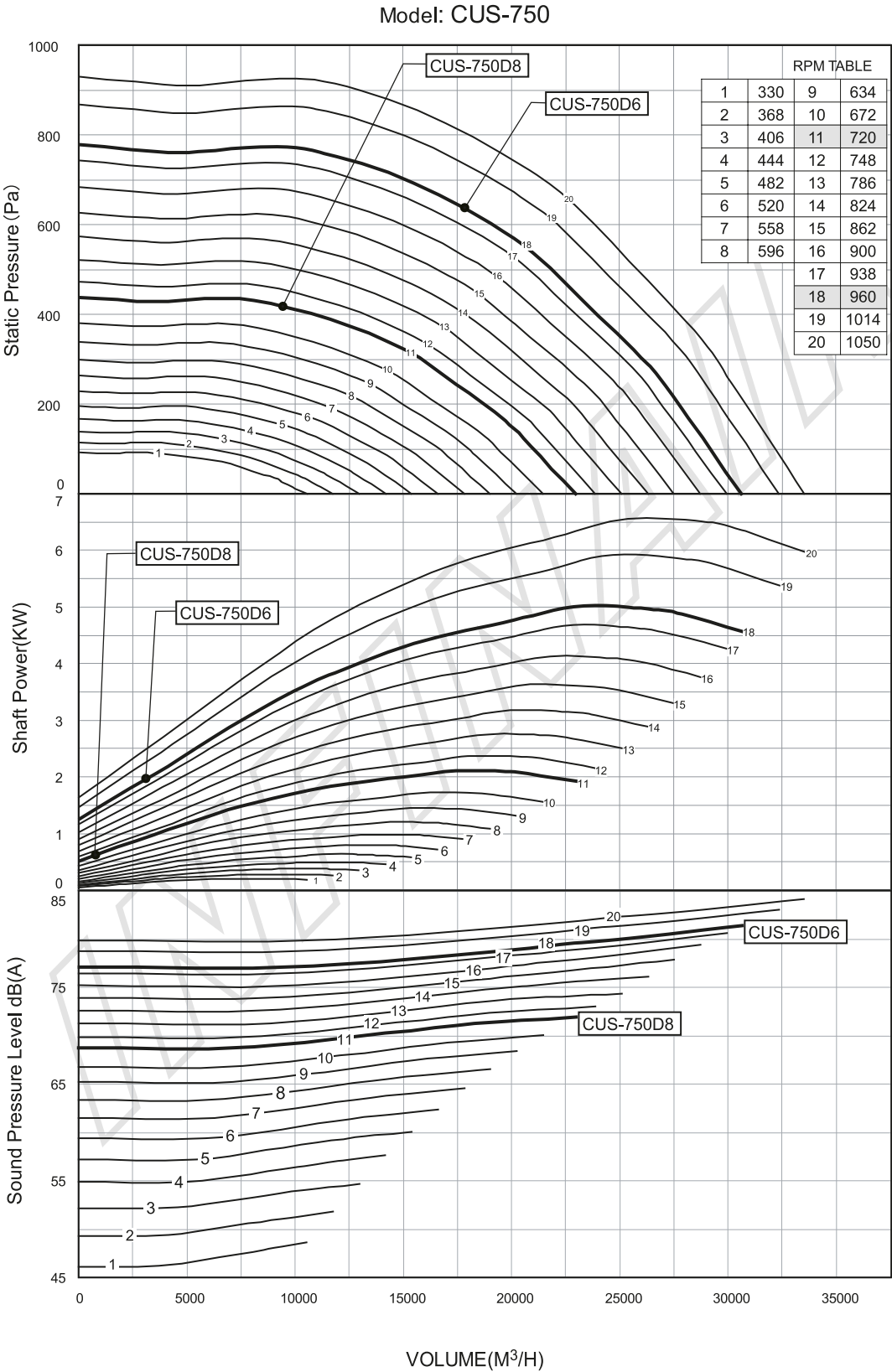
Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10⁻¹² watts, 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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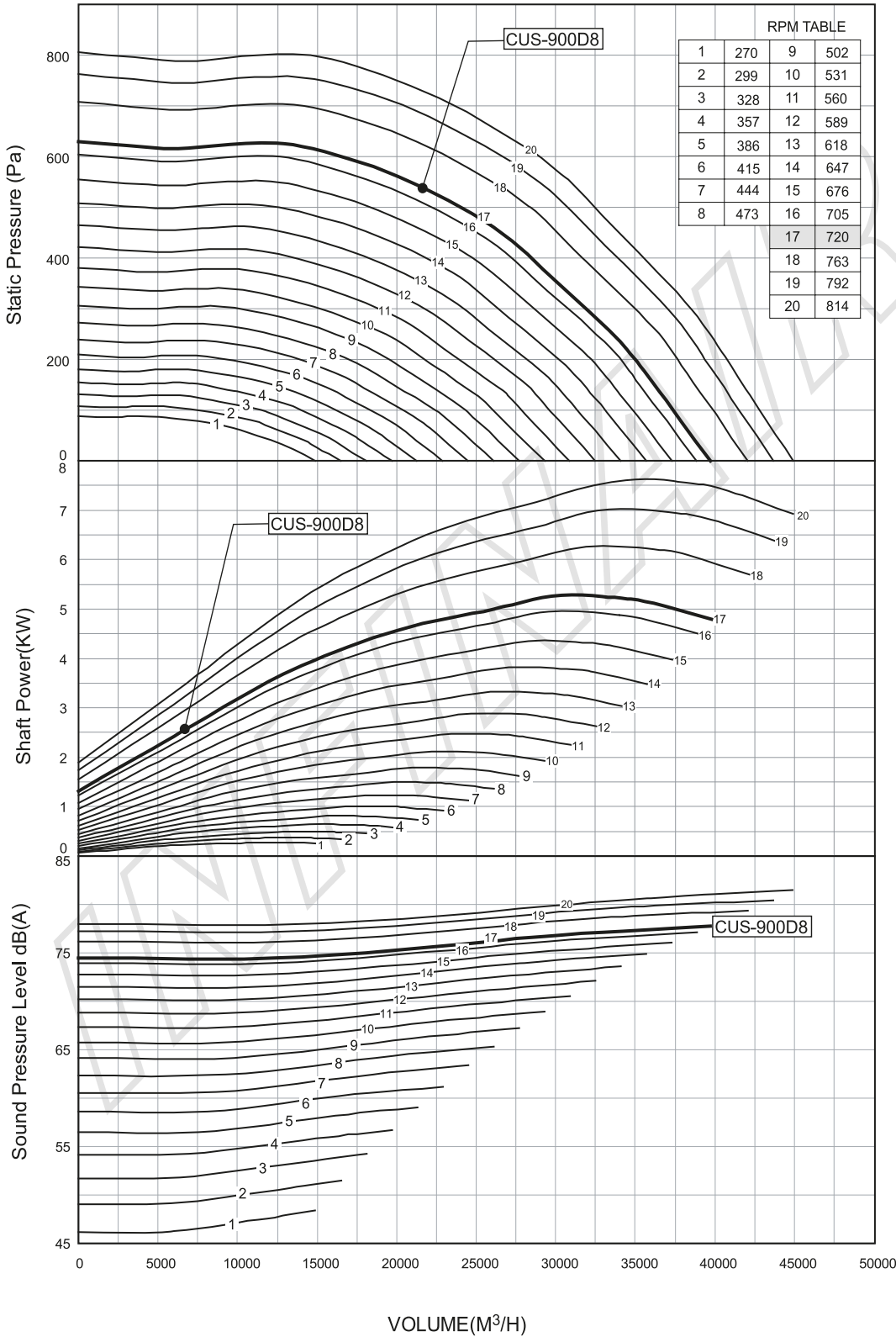


Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10⁻¹² watts, 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.



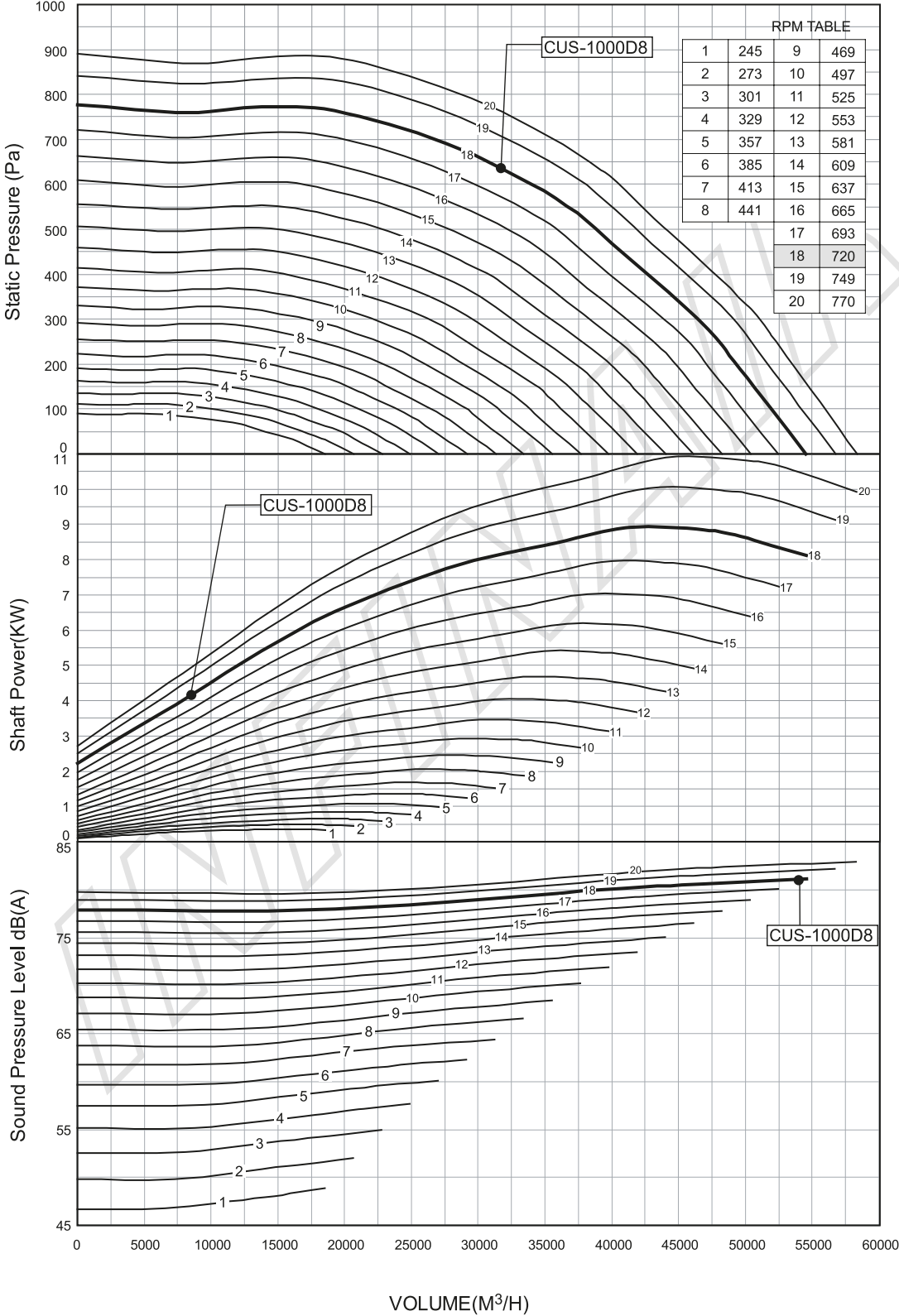
Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10⁻¹² watts, 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.

Model: CUS-900

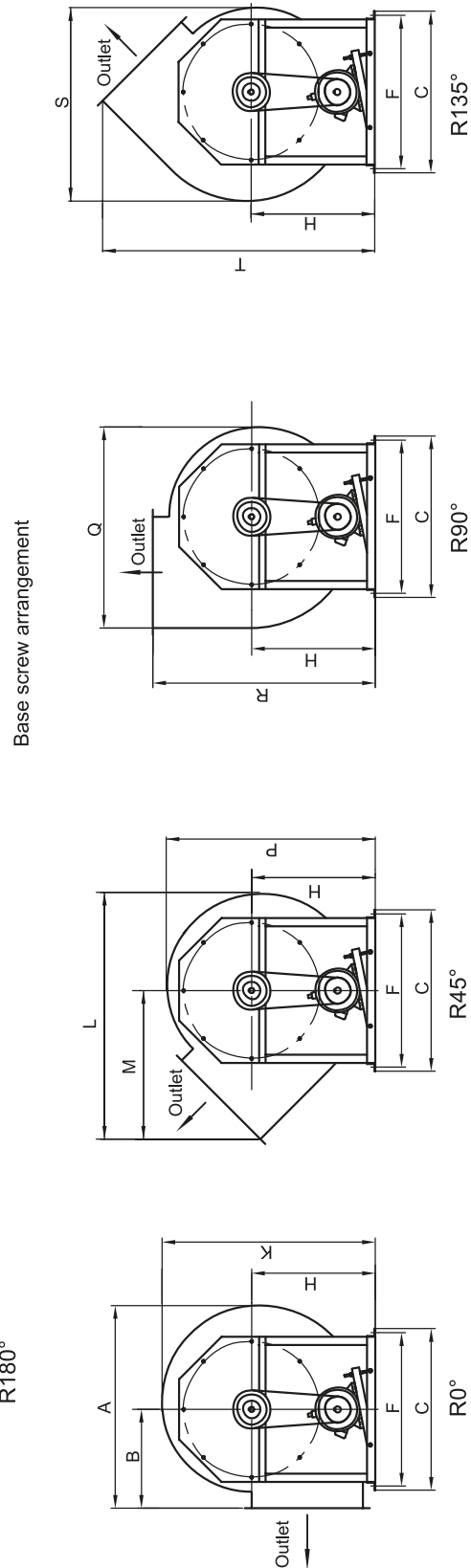


Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10⁻¹² watts, 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.

Model: CUS-1000



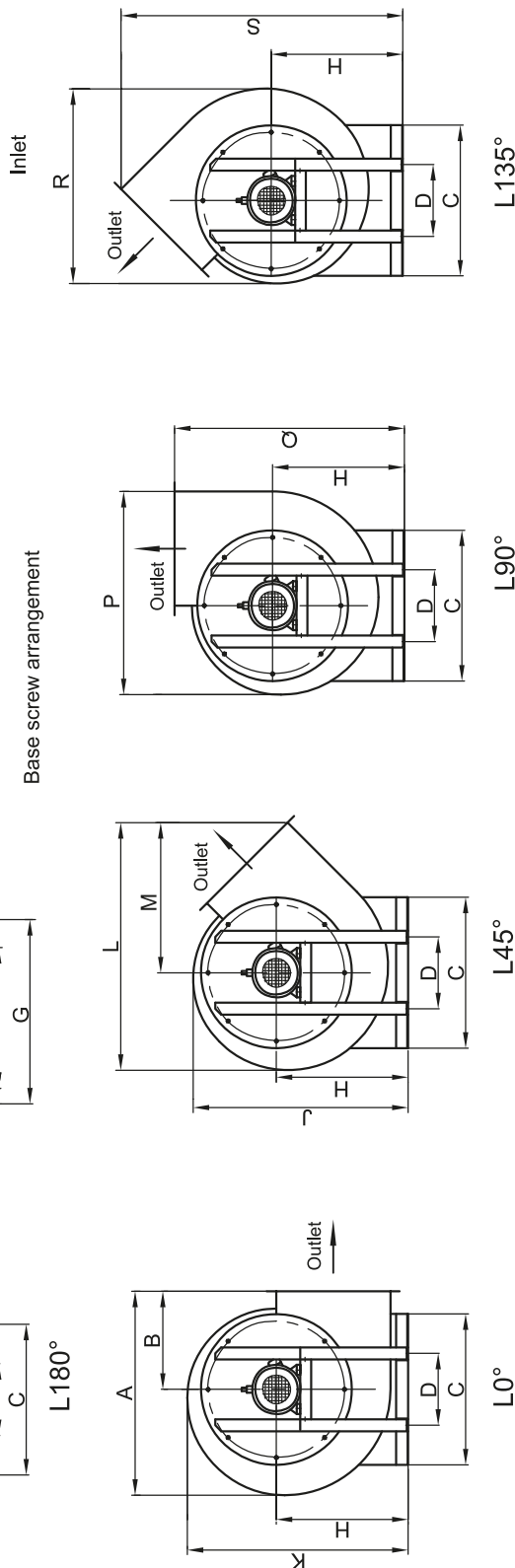
Performance certified is for installation type B - free inlet, duct outlet. Power rating (kW) includes transmission losses. Speed (RPM or RPS) shown is nominal. Performance is based on actual speed of test. Values shown are for inlet LwA sound power levels for Installation Type B: Free inlet, duct outlet. The sound power level ratings shown are in decibels, referred to as 10⁻¹² watts, 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.



MODEL	A	B	C	D	E	F	G	H	K	L	M	P	Q	R	S	T	U	a	b	c	d	e	f	g	h	j	n	q	Kg
CUS-300	528	250	490	688	625	440	500	380	608	650	398	587	536	630	507	778	0	215	305	295	350	9	385	3x115	3x85	12	4	8	49
CUS-425	730	335	650	938	740	600	575	510	830	900	540	812	748	845	718	1050	0	300	428	380	495	9	505	4x117.5	3x115	14	4	8	76
CUS-500	850	410	730	1028	845	690	710	550	920	1035	628	898	848	960	815	1178	355	335	475	425	570	11	565	5x105	3x128.5	16	6	8	98
CUS-575	965	460	800	1158	900	750	725	615	1040	1168	708	1015	968	1075	930	1323	363	380	540	480	645	11	640	5x119	3x145	16	6	8	150
CUS-675	1102	525	910	1308	1010	860	825	690	1185	1344	808	1155	1113	1215	1070	1498	413	430	615	530	750	11	715	5x134	4x121.5	18	6	16	215
CUS750	1235	600	980	1430	1135	930	950	750	1296	1490	905	1266	1225	1350	1182	1655	475	475	675	575	825	11	775	5x145	5x105	20	6	16	315
CUS-900	1435	700	1130	1628	1208	1080	1000	850	1498	1737	1046	1488	1426	1550	1384	1896	500	545	775	645	975	11	875	6x137.5	5x119	22	6	16	440
CUS1000	1573	765	1230	1780	1368	1180	1125	925	1640	1905	1145	1608	1570	1690	1525	2070	563	595	850	695	1075	11	950	6x150	5x129	22	6	16	550

Note: The motor weight is not included in the above table.
Fan right rotation sizes are the same as left rotation sizes.

Technical drawings of the Base screw arrangement for a fan motor. The drawings include a top view, a side view, and a front view. The top view shows a circular fan with dimensions: outer diameter $\varnothing d$, inner diameter $q-M8$, and a central square with side length a . The side view shows the fan's profile with dimensions: total width b , height h , and a central square with side length a . The front view shows the fan's base with dimensions: total width b , height h , and a central square with side length a . The drawings are labeled with 'Inlet' and 'Outlet' arrows.



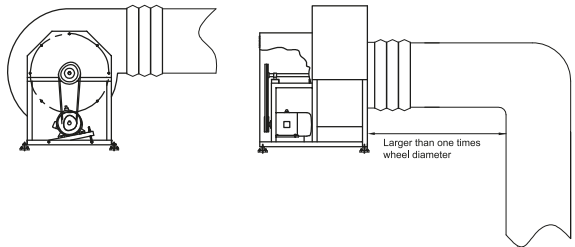
MODEL	A	B	C	D			E	F				G	H	J	K	L	M	P	Q	R	S	T	U		a	b	c	d	e	f	g	h	j	n	q	Kg
				2P	4P	6P		8P	2P	4P	6P												8P	6P												
CUS-300D	528	250	490	280	230	230	688	390	390	390	550	380	587	608	650	398	536	630	507	778	340	215	305	295	350	9	385	3x115	3x85	12	4	8	46			
CUS-425D	730	335	650	270	250	250	938	460	460	460	650	510	812	830	900	540	748	845	718	1050	500	300	428	380	495	9	505	4x17.5	3x115	14	4	8	72			
CUS-500D	850	410	730	300	270	250	1028	580	500	500	750	550	898	920	1035	628	848	960	815	1178	580	335	475	425	570	11	565	5x105	3x128.5	16	6	8	93			
CUS-575D	965	460	800	300	270	1158	1158	570	570	570	800	615	1015	1040	1168	708	968	1075	930	1323	650	380	540	480	645	11	640	5x119	3x145	16	6	8	140			
CUS-675D	1102	525	910	380	380	1308	1308	730	680	920	690	1155	1185	1344	808	1113	1215	1070	1498	750	270	220	430	615	530	750	11	715	5x134	4x121.5	18	6	16	205		
CUS-750D	1235	600	980	420	420	1430	1430	800	760	1000	750	1266	1296	1490	905	1225	1350	1182	1655	800	300	260	475	675	575	825	11	775	5x145	5x105	20	6	16	300		
CUS-900D	1435	700	1130	490	1628	1628	1628	950	1150	850	1468	1498	1737	1046	1426	1550	1384	1896	975	370	545	775	645	975	11	875	6x137.5	5x119	22	6	16	418				
CUS-1000D	1573	765	1230	520	1780	1780	1780	1075	1300	925	1608	1640	1905	1145	1570	1690	1525	2070	1075	450	595	850	695	1075	11	950	6x150	5x129	22	6	16	525				

Note: The motor weight is not included in the above table.
Fan right rotation sizes are the same as left rotation sizes.

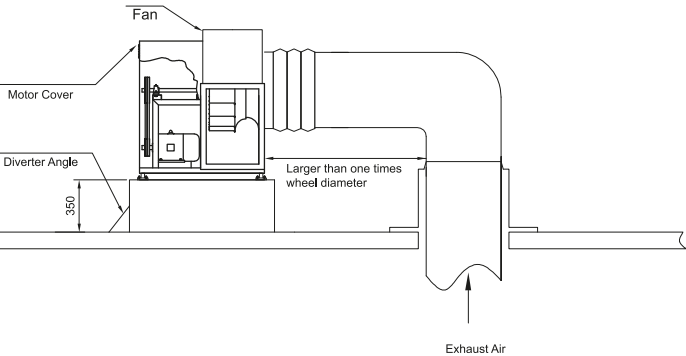
Installation guidelines

Infinair CUS 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. CUS series fans are designed for application ranging from clean air to contaminated air.

Floor mounted

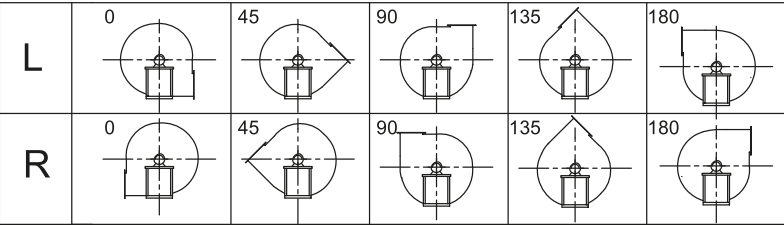


Roof top mounted



CUS 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.

Optional discharge



The rotation is identified from the view of motor side. The fan rotation must be specified before ordering; otherwise the fan is difficult to be installed if the discharge direction is inconsistent with the design.

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

CUS-300

Fan Speed	Airflow	Static Pressure	SOUND POWER								Sound Power Level	Sound Pressure Level
			OCTAVE BANDS									
RPM	VOLUME	Ps	1	2	3	4	5	6	7	8	Lw(A)	dB(A)
802	0	87	59	54	54	53	48	46	39	32	54	42
	580	85	59	55	54	53	48	46	39	32	54	42
	1242	48	59	57	57	56	50	46	39	32	57	45
	1639	0	62	61	58	56	51	47	41	34	57	45
902	0	110	63	57	57	57	51	49	43	36	58	46
	650	108	63	57	57	57	51	49	43	36	58	46
	1397	61	63	59	60	60	53	50	43	36	60	48
	1840	0	63	67	64	58	55	50	45	38	61	49
960	0	124	64	59	60	59	53	51	45	38	60	48
	694	122	64	60	60	59	53	51	45	38	60	48
	1486	69	65	62	63	61	55	51	45	38	62	50
	1961	0	65	69	66	60	57	52	47	40	63	51
1102	0	164	67	65	65	62	57	54	49	42	64	52
	796	161	67	65	65	62	57	54	49	42	64	52
	1706	91	68	67	68	65	60	55	49	42	66	54
	2250	0	69	73	71	64	61	55	51	44	67	55
1202	0	195	69	68	68	64	60	56	52	45	66	54
	887	192	69	68	68	65	60	56	52	45	66	54
	1861	109	70	70	71	67	63	57	52	45	69	57
	2456	0	72	75	74	67	64	58	54	47	70	58
1302	0	229	70	71	70	67	63	58	54	47	69	57
	941	225	71	71	70	67	63	58	54	47	69	57
	2016	127	72	72	73	70	65	60	54	47	71	59
	2660	0	74	77	76	69	66	60	56	49	72	60
1402	0	265	72	74	71	68	65	60	57	50	71	59
	1013	261	72	74	72	69	65	60	57	50	71	59
	2170	148	74	75	74	71	68	62	57	50	73	61
	2865	0	76	79	77	72	68	62	59	52	74	62
1450	0	284	73	76	72	69	66	61	58	51	72	60
	1048	279	73	76	72	69	66	61	58	51	72	60
	2245	158	75	76	75	72	69	63	58	51	74	62
	2963	0	77	80	78	73	69	63	60	53	75	63
1602	0	347	75	79	74	72	69	63	61	54	74	62
	1158	340	75	79	74	72	70	63	61	54	74	62
	2480	193	77	80	76	75	72	65	61	54	77	65
	3273	0	80	82	80	76	72	66	63	56	78	66
1702	0	391	76	82	75	74	71	65	63	56	76	64
	1230	385	76	82	75	74	71	65	63	56	76	64
	2635	218	79	82	77	77	74	67	63	56	79	67
	3478	0	80	83	84	79	73	69	64	58	81	69
1802	0	440	77	83	76	75	73	66	65	58	78	66
	1302	431	77	84	76	75	73	66	65	58	78	66
	2790	244	80	84	79	78	76	69	65	58	80	68
	3682	0	80	84	87	82	74	71	65	60	83	71
1902	0	488	78	85	78	77	74	68	66	60	79	67
	1374	480	78	85	79	77	75	68	66	60	79	67
	2945	272	81	85	81	80	77	71	66	59	82	70
	3886	0	81	85	88	83	76	72	67	61	84	72
2002	0	541	79	86	80	79	76	70	67	61	81	69
	1447	532	79	86	81	79	76	70	67	61	81	69
	3100	301	82	86	83	82	79	72	68	61	83	71
	4090	0	82	87	89	85	77	74	68	63	86	74
2102	0	597	80	87	82	81	77	71	68	63	83	71
	1519	587	80	87	82	81	77	71	68	63	83	71
	3255	332	83	87	84	84	80	74	69	63	85	73
	4295	0	83	88	91	87	79	75	69	65	88	76
2202	0	655	80	87	84	83	78	73	69	64	84	72
	1591	644	80	87	84	83	78	73	69	64	84	72
	3410	364	83	88	86	86	81	75	70	64	87	75
	4499	0	84	90	92	89	80	77	71	66	89	77
2302	0	716	81	88	86	84	79	74	70	66	85	73
	1663	704	81	88	86	85	80	74	71	66	86	74
	3564	398	84	89	87	87	82	77	71	66	88	76
	4703	0	85	91	93	90	82	78	72	67	90	78
2402	0	779	82	89	88	86	81	76	71	67	87	75
	1736	766	82	89	88	86	81	76	72	67	87	75
	3719	434	85	91	89	89	84	78	73	67	89	77
	4908	0	85	92	94	92	83	79	73	69	92	80
2502	0	845	83	90	89	88	82	77	72	68	88	76
	1808	831	83	90	89	88	82	77	73	68	88	76
	3874	470	86	92	90	90	85	80	74	68	91	79
	5112	0	86	93	95	93	84	81	74	70	93	81
2652	0	950	84	91	91	89	83	79	74	70	90	78
	1916	934	84	91	91	89	83	79	74	70	90	78
	4106	528	87	93	92	91	86	82	75	70	92	80
	5419	0	87	95	97	94	86	82	76	72	94	82
2900	0	1136	85	93	95	90	86	82	76	73	92	80
	2095	1117	85	93	95	90	86	82	76	73	92	80
	4490	632	88	95	96	93	89	85	78	73	94	82
	5925	0	89	98	99	96	89	85	78	75	96	84

CUS-425

Fan Speed	Airflow	Static Pressure	SOUND POWER								Sound Power Level	Sound Pressure Level
			OCTAVE BANDS									
RPM	VOLUME	Ps	1	2	3	4	5	6	7	8	Lw(A)	dB(A)
680	3950	0	71	70	65	63	57	53	46	39	64	52
	2994	70	67	67	65	62	56	51	44	37	63	51
	1397	123	66	65	62	59	55	51	44	37	61	49
	0	125	66	65	62	59	55	51	44	37	61	49
720	4183	0	73	71	67	64	58	55	48	41	66	54
	3170	78	69	68	66	64	58	53	46	39	65	53
	1479	138	68	66	64	61	56	53	46	39	63	51
	0	141	68	66	63	61	56	53	46	39	63	51
784	4554	0	75	72	69	67	61	58	51	44	68	56
	3451	93	72	70	69	67	60	56	49	42	67	55
	1611	164	71	67	66	64	58	56	49	42	65	53
	0	167	71	67	66	64	58	56	49	42	65	53
836	4856	0	76	76	72	68	63	59	53	46	70	58
	3680	105	74	71	70	69	62	58	51	44	69	57
	1717	186	74	68	67	66	60	58	51	44	67	55
	0	189	74	68	67	66	60	58	51	44	67	55
888	5158	0	76	80	75	69	66	60	55	48	72	60
	3909	119	76	72	72	71	64	60	53	46	71	59
	1824	210	76	70	69	68	61	60	53	46	69	57
	0	214	76	69	69	68	61	60	53	46	69	57
960	5577	0	79	82	78	71	68	62	57	50	75	63
	4226	139	78	75	75	73	66	62	55	48	73	61
	1972	246	78	73	72	70	64	62	55	48	71	59
	0	250	78	72	72	70	64	62	55	48	71	59
992	5763	0	79	83	79	72	69	63	58	51	76	64
	4367	148	79	76	74	74	67	63	56	49	74	62
	2038	262	78	74	73	71	65	62	56	49	72	60
	0	267	78	74	73	71	65	62	56	49	72	60
1044	6065	0	81	84	81	74	70	65	60	53	77	65
	4596	164	80	78	78	75	69	64	58	51	76	64
	2145	291	79	76	75	72	66	64	58	51	74	62
	0	295	79	76	75	72	66	64	58	51	73	61
1096	6367	0	82	85	83	75	72	66	61	54	79	67
	4825	181	81	79	80	76	71	66	60	53	77	65
	2252	320	80	78	77	74	68	65	60	53	75	63
	0	326	80	78	77	73	68	65	60	53	75	63
1148	6669	0	84	87	84	77	73	67	63	56	80	68
	5054	199	82	81	81	78	72	67	61	54	79	67
	2358	351	81	79	79	75	70	66	61	54	76	64
	0	357	81	79	79	75	69	66	61	54	76	64
1200	6971	0	85	88	86	78	75	69	64	57	82	70
	5283	217	83	83	83	79	74	68	62	55	80	68
	2465	384	82	81	80	76	71	67	62	55	78	66
	0	390	82	81	80	76	71	67	62	55	78	66
1252	7273	0	86	89	87	79	76	70	66	59	83	71
	5512	236	84	84	84	80	75	69	64	57	81	69
	2572	418	83	83	82	77	72	68	64	57	79	67
	0	425	83	83	82	77	72	68	64	57	79	67
1304	7575	0	88	90	88	81	77	71	67	60	84	72
	5741	256	85	85	85	81	76	70	65	58	83	71
	2679	453	84	84	83	78	74	69	65	58	80	68
	0	461	84	84	82	78	74	69	65	58	80	68
1356	7877	0	89	91	89	82	78	72	68	61	85	73
	5970	277	86	87	86	82	78	71	66	59	84	72
	2786	490	85	86	83	79	75	70	66	59	81	69
	0	498	85	86	83	79	75	70	66	59	81	69
1408	8179	0	90	92	89	83	79	73	69	62	86	74
	6198	299	87	88	86	83	79	73	68	60	85	73
	2893	528	85	87	84	80	76	71	68	61	82	70
	0	537	85	87	84	80	76	71	68	61	82	70
1450	8423	0	91	93	90	84	80	74	70	63	87	75
	6383	317	88	89	87	84	80	73	68	61	85	73
	2979	560	86	89	84	81	77	72	68	61	83	71
	0	570	86	88	84	81	77	71	68	61	83	71
1512	8783	0	92	94	91	85	81	75	72	65	88	76
	6656	345	89	91	88	85	81	74	70	63	87	75
	3106	609	87	90	85	82	78	73	70	63	84	72
	0	620	87	90	85	82	78	72	70	63	84	72
1564	9085	0	93	95	91	86	82	76	73	66	89	77
	6885	369	90	92	88	86	82	75	71	64	87	75
	3213	652	87	91	86	83	80	73	71	64	85	73
	0	663	87	91	86	83	79	73	71	64	85	73
1616	9388	0	93	95	93	88	83	77	73	67	90	78
	7114	394	91	93	89	87	83	76	72	65	88	76
	3320	696	88	93	86	84	81	74	72	65	86	74
	0	708	88	93	86	84	81	74	72	65	86	74
1663	9661	0	93	95	95	89	83	78	74	68	91	79
	7321	417	91	94	89	87	84	77	73	66	89	77
	3417	737	89	94	87	84	82	75	73	66	87	75
	0	750	89	94	87	84	81	75	73	66	87	75

Sound Data

CUS-500

Fan Speed	Airflow	Static Pressure	SOUND POWER								Sound Power Level	Sound Pressure Level
			OCTAVE BANDS									
RPM	VOLUME	Ps	1	2	3	4	5	6	7	8	LwIA	dB(A)
507	4796	0	69	67	61	59	54	49	42	35	60	48
	3634	54	63	64	63	58	53	47	40	33	60	48
	1696	95	61	61	60	55	53	47	40	33	58	46
	0	96	61	61	60	55	53	47	40	33	58	46
565	5344	0	72	71	65	62	57	52	45	38	64	52
	4050	67	66	68	66	61	56	50	43	36	63	51
	1890	118	65	65	63	59	55	50	43	36	61	49
	0	120	65	65	63	58	55	50	43	36	61	49
623	5893	0	75	74	68	65	59	55	48	41	67	55
	4466	81	70	71	68	64	59	53	46	39	66	54
	2084	143	69	69	65	62	58	53	47	39	64	52
	0	146	69	69	65	62	58	54	47	39	64	52
681	6442	0	77	76	70	68	62	58	51	44	69	57
	4882	97	73	73	71	67	61	56	49	42	68	56
	2278	171	72	71	68	65	60	56	49	42	66	54
	0	174	72	71	68	64	60	56	49	42	66	54
720	6811	0	79	77	72	70	63	60	53	46	71	59
	5161	108	75	74	72	69	63	58	51	44	70	58
	2409	191	74	72	69	66	61	58	51	44	68	56
	0	194	74	71	69	66	61	58	51	44	68	56
797	7539	0	81	79	76	72	66	63	56	49	74	62
	5713	133	79	76	75	73	66	61	54	47	73	61
	2666	234	78	73	72	70	64	61	54	47	71	59
	0	238	78	73	72	70	63	61	54	47	71	59
855	8088	0	82	84	79	73	69	64	58	51	76	64
	6129	153	81	77	77	75	68	64	57	50	75	63
	2860	270	81	75	74	72	65	64	57	50	73	61
	0	274	81	74	74	72	65	64	57	50	73	61
913	8636	0	83	86	82	75	72	66	61	53	79	67
	6545	174	83	79	79	77	70	65	59	52	77	65
	3054	308	83	77	76	74	67	65	59	52	75	63
	0	313	83	76	76	74	67	65	59	52	75	63
960	9081	0	85	88	84	77	73	67	62	55	80	68
	6882	192	84	81	80	78	71	67	60	53	79	67
	3211	340	84	78	78	75	69	67	60	53	76	64
	0	346	84	78	78	75	69	67	60	53	76	64
1029	9733	0	87	90	86	79	75	69	64	57	82	70
	7376	221	86	83	83	80	74	69	62	55	81	69
	3442	391	85	81	80	77	71	68	63	55	78	66
	0	397	85	81	80	77	71	68	63	55	78	66
1087	10282	0	88	91	88	80	77	71	66	59	84	72
	7792	247	87	85	85	81	75	70	64	57	82	70
	3636	436	86	83	82	78	73	70	64	57	80	68
	0	443	86	83	82	78	73	70	64	57	80	68
1145	10831	0	90	93	90	82	78	72	68	61	86	74
	8208	274	89	87	87	83	77	72	66	59	84	72
	3830	484	87	85	84	80	74	71	66	59	82	70
	0	492	87	85	84	80	74	71	66	59	82	70
1203	11379	0	91	94	91	83	80	74	69	62	87	75
	8624	302	90	89	89	84	79	73	67	60	86	74
	4024	534	88	87	86	81	76	72	67	60	83	71
	0	543	88	87	86	81	76	72	67	60	83	71
1261	11928	0	93	95	93	85	81	75	71	64	89	77
	9039	332	91	90	90	85	80	74	69	62	87	75
	4218	587	89	89	88	82	78	73	69	62	85	73
	0	596	89	89	87	82	77	73	69	62	84	72
1319	12477	0	94	96	94	86	82	76	72	65	90	78
	9455	363	92	92	91	86	82	76	70	63	88	76
	4412	642	90	91	88	84	79	74	70	63	86	74
	0	653	90	91	88	83	79	74	70	63	86	74
1377	13025	0	95	97	94	88	84	77	74	67	91	79
	9871	396	93	93	92	88	83	77	72	65	89	77
	4606	699	91	92	89	85	80	75	72	65	87	75
	0	711	91	92	89	85	80	75	72	65	87	75
1450	13716	0	97	99	95	89	85	79	75	68	92	80
	10394	439	94	95	92	89	85	78	73	66	91	79
	4851	776	92	94	90	86	82	77	73	66	88	76
	0	789	92	94	90	86	82	76	73	66	88	76
1493	14123	0	98	100	96	90	86	80	76	69	93	81
	10703	465	95	96	93	90	86	79	74	67	91	79
	4995	822	93	96	91	87	83	77	74	67	89	77
	0	836	93	96	90	87	83	77	74	67	89	77
1551	14671	0	99	101	97	91	87	81	77	70	94	82
	11118	502	96	98	94	91	87	80	76	69	93	81
	5189	887	93	97	91	88	84	78	76	69	90	78
	0	902	93	97	91	88	84	78	76	69	90	78
1600	15135	0	99	101	98	93	88	82	78	71	95	83
	11470	534	97	99	94	92	88	81	77	70	93	81
	5352	944	94	98	92	89	85	79	77	70	91	79
	0	960	94	98	92	89	85	79	77	70	91	79

CUS-575

Fan Speed	Airflow	Static Pressure	SOUND POWER								Sound Power Level	Sound Pressure Level
RPM	VOLUME	Ps	OCTAVE BANDS								Lw(A)	dB(A)
			1	2	3	4	5	6	7	8		
437	6287	0	70	67	62	59	54	48	41	34	61	49
	4764	53	63	64	64	57	53	46	39	32	60	48
	2223	93	61	61	61	55	53	46	39	32	58	46
	0	95	60	61	61	55	53	46	39	32	58	46
487	7006	0	74	71	65	62	57	52	45	38	64	52
	5309	65	67	68	66	61	56	50	43	36	63	51
	2478	116	64	65	64	58	56	50	43	36	61	49
	0	118	64	65	63	58	56	50	43	36	61	49
537	7725	0	76	74	68	65	59	55	48	41	67	55
	5855	80	70	71	69	64	59	53	46	39	66	54
	2732	141	68	69	66	61	58	53	46	39	64	52
	0	143	68	68	66	61	58	53	46	39	64	52
587	8445	0	79	77	71	68	62	58	51	44	70	58
	6400	95	73	74	71	67	61	56	49	42	69	57
	2987	168	72	72	68	64	60	56	49	42	67	55
	0	171	72	72	68	64	60	56	49	42	66	54
637	9164	0	81	80	73	70	64	60	53	46	72	60
	6945	112	76	77	73	70	64	58	51	44	71	59
	3241	198	75	75	71	67	62	58	51	44	69	57
	0	201	75	74	70	67	62	58	51	44	69	57
687	9883	0	83	81	75	73	66	63	56	49	74	62
	7490	130	79	78	75	72	66	61	54	47	73	61
	3495	230	78	76	73	69	64	61	54	47	71	59
	0	234	78	76	72	69	64	61	54	47	71	59
720	10358	0	84	82	77	74	68	64	57	50	75	63
	7850	143	80	79	77	74	67	62	55	48	75	63
	3663	253	80	77	74	71	65	62	55	48	72	60
	0	257	80	77	74	71	65	62	55	48	72	60
787	11322	0	86	84	80	77	70	67	60	53	78	66
	8580	171	83	81	79	77	70	65	58	51	77	65
	4004	302	83	78	76	74	68	65	58	51	75	63
	0	307	83	78	76	74	67	65	58	51	75	63
837	12041	0	87	87	83	78	73	68	62	55	80	68
	9125	193	86	82	81	79	71	67	60	53	79	67
	4258	342	85	79	78	76	69	67	60	53	77	65
	0	348	85	79	78	76	69	67	60	53	77	65
887	12761	0	88	91	86	79	75	69	64	57	82	70
	9670	217	88	83	82	80	73	69	62	55	81	69
	4513	384	88	80	79	78	70	69	62	55	78	66
	0	390	88	80	79	77	70	69	62	55	78	66
937	13480	0	89	92	87	80	77	71	66	59	84	72
	10215	242	89	85	84	82	75	70	64	57	82	70
	4767	428	89	83	81	79	72	70	64	57	80	68
	0	436	89	83	81	79	72	70	64	57	80	68
960	13811	0	90	93	88	81	77	72	66	59	85	73
	10466	254	90	86	85	83	76	71	65	57	83	71
	4884	450	89	84	82	80	73	71	65	58	81	69
	0	457	89	83	82	80	73	71	65	58	81	69
1037	14919	0	92	95	91	83	80	74	69	62	87	75
	11306	297	91	88	88	85	78	73	67	60	85	73
	5276	525	91	87	85	82	76	73	67	60	83	71
	0	533	91	86	85	82	75	73	67	60	83	71
1087	15638	0	94	96	93	85	81	75	70	63	89	77
	11851	326	93	90	90	86	80	75	68	61	87	75
	5530	576	92	88	87	83	77	74	69	61	85	73
	0	586	92	88	87	83	77	74	69	61	84	72
1137	16357	0	95	97	94	86	82	76	72	65	90	78
	12396	357	94	92	91	87	81	76	70	63	88	76
	5785	631	93	90	89	84	79	75	70	63	86	74
	0	641	93	90	89	84	78	75	70	63	86	74
1187	17076	0	96	99	96	87	84	77	73	66	91	79
	12941	389	95	93	93	88	83	77	71	64	90	78
	6039	687	93	92	90	85	80	76	71	64	87	75
	0	699	93	92	90	85	80	76	71	64	87	75
1237	17796	0	97	100	97	89	85	79	74	67	93	81
	13486	422	96	95	94	89	84	78	73	66	91	79
	6294	747	94	93	92	86	81	77	73	66	89	77
	0	759	94	93	92	86	81	77	73	66	88	76
1287	18515	0	99	101	98	90	86	80	76	69	94	82
	14031	457	97	96	95	90	85	79	74	67	92	80
	6548	808	95	95	93	87	83	78	74	67	90	78
	0	822	95	95	93	87	82	78	74	67	90	78
1337	19234	0	100	102	99	91	87	81	77	70	95	83
	14576	493	98	97	96	91	87	80	75	68	93	81
	6802	872	96	96	93	88	84	79	75	68	91	79
	0	887	96	96	93	88	84	79	75	68	91	79
1360	19565	0	100	102	99	92	88	81	77	70	95	83
	14827	511	98	98	96	92	87	81	76	69	93	81
	6919	902	96	97	94	89	84	79	76	69	91	79
	0	918	96	97	94	89	84	79	76	69	91	79

Sound Data

CUS-900

Fan Speed RPM	Airflow VOLUME	Static Pressure Ps	SOUND POWER OCTAVE BANDS								Sound Power Level Lw(A)	Sound Pressure Level dB(A)
			1	2	3	4	5	6	7	8		
270	14895	0	71	66	64	58	54	47	40	33	60	48
	11288	49	68	67	62	58	52	45	38	31	59	47
	5268	87	66	64	60	57	52	45	38	31	58	46
	0	89	66	64	60	57	52	45	38	31	58	46
299	16495	0	75	69	67	61	57	50	43	36	63	51
	12500	60	72	70	66	61	55	48	41	34	63	51
	5833	107	70	67	63	59	55	48	41	34	61	49
	0	109	69	67	63	59	55	48	41	34	61	49
328	18094	0	78	72	69	64	60	53	46	39	66	54
	13713	73	75	72	69	63	58	51	44	37	65	53
	6399	129	72	69	66	62	58	51	44	37	64	52
	0	131	72	69	66	62	58	51	44	37	64	52
357	19694	0	79	74	72	66	62	55	48	41	69	57
	14925	86	76	74	71	65	61	54	47	40	68	56
	6965	152	74	71	69	64	61	54	47	40	66	54
	0	155	74	71	69	64	61	54	47	40	66	54
386	21294	0	80	77	74	68	65	58	51	44	71	59
	16137	101	77	76	74	68	63	56	49	42	70	58
	7531	178	75	73	71	66	63	56	49	42	69	57
	0	181	75	73	71	66	63	56	49	42	68	56
415	22894	0	84	80	76	71	67	60	53	46	73	61
	17350	116	79	78	76	70	65	58	51	44	72	60
	8097	206	76	75	74	67	65	58	51	44	71	59
	0	209	76	75	74	67	65	58	51	44	71	59
444	24494	0	88	83	77	74	68	62	55	48	75	63
	18562	133	80	80	79	72	67	61	54	47	74	62
	8662	236	78	77	76	69	67	61	54	47	73	61
	0	240	77	77	76	69	67	61	54	47	73	61
473	26093	0	90	86	79	75	70	64	57	50	77	65
	19774	151	82	82	80	74	69	63	56	49	76	64
	9228	267	80	80	77	71	69	63	56	49	74	62
	0	272	80	80	77	71	69	63	56	49	74	62
502	27693	0	91	88	81	77	71	66	59	52	79	67
	20987	170	84	85	82	76	71	64	57	50	78	66
	9794	301	82	82	79	73	70	65	58	50	76	64
	0	306	82	82	79	73	70	65	58	50	76	64
531	29293	0	93	90	82	79	73	68	61	54	81	69
	22199	191	86	87	83	77	72	66	59	52	80	68
	10360	337	84	84	80	75	72	66	59	52	78	66
	0	343	84	84	80	75	72	66	59	52	78	66
560	30893	0	94	92	84	80	74	70	63	56	83	71
	23412	212	88	88	85	79	74	68	61	54	81	69
	10925	375	87	86	82	77	73	68	61	54	79	67
	0	381	86	86	82	77	73	68	61	54	79	67
589	32493	0	95	93	85	82	76	71	64	57	84	72
	24624	235	90	90	86	81	75	70	63	56	83	71
	11491	415	88	88	83	78	74	70	63	56	81	69
	0	422	88	88	83	78	74	70	63	56	81	69
618	34093	0	97	95	87	83	77	73	66	59	86	74
	25836	258	92	92	87	83	77	71	64	57	84	72
	12057	456	90	90	84	80	75	71	64	57	82	70
	0	464	90	89	84	80	75	71	64	57	82	70
647	35692	0	98	96	88	85	78	74	67	60	87	75
	27049	283	93	93	89	84	78	73	66	59	86	74
	12623	500	92	91	86	81	77	73	66	59	84	72
	0	509	92	90	86	81	76	73	66	59	84	72
676	37292	0	99	97	90	86	80	76	69	62	88	76
	28261	309	95	94	90	85	79	74	67	60	87	75
	13189	546	94	91	87	83	78	74	67	60	85	73
	0	555	94	91	87	83	78	74	67	60	85	73
705	38892	0	100	97	91	87	81	77	70	63	89	77
	29474	336	96	95	91	87	80	75	68	61	88	76
	13754	594	95	92	88	84	79	75	68	61	86	74
	0	604	95	92	88	84	79	75	68	61	86	74
720	39719	0	101	98	92	88	81	78	71	64	90	78
	30101	351	97	95	91	88	81	76	69	62	89	77
	14047	620	96	92	88	85	79	76	69	62	87	75
	0	630	96	92	88	85	79	76	69	62	86	74
763	42092	0	102	99	93	90	83	80	73	66	91	79
	31898	394	99	96	93	89	82	78	71	64	90	78
	14886	696	99	93	90	87	80	78	71	64	88	76
	0	708	98	93	90	87	80	78	71	64	88	76
792	43691	0	103	100	95	91	84	81	74	67	92	80
	33111	424	100	97	94	91	83	79	72	65	92	80
	15452	750	100	94	91	88	81	79	72	65	89	77
	0	762	100	94	91	88	81	79	72	65	89	77
814	44905	0	104	102	96	91	85	81	75	68	93	81
	34030	448	101	97	95	92	84	80	73	66	92	80
	15881	792	101	95	92	89	82	80	73	66	90	78
	0	805	101	94	92	89	82	80	73	66	90	78

CUS-1000

Fan Speed RPM	Airflow VOLUME	Static Pressure Ps	SOUND POWER OCTAVE BANDS								Sound Power Level Lw(A)	Sound Pressure Level dB(A)
			1	2	3	4	5	6	7	8		
245	18540	0	72	67	64	59	54	47	40	33	61	49
	14050	50	69	68	62	58	52	45	38	31	60	48
	6557	89	66	65	60	58	52	45	38	31	59	47
	0	90	66	65	60	58	52	45	38	31	59	47
273	20659	0	76	70	67	62	57	50	43	36	64	52
	15656	62	73	71	66	61	55	48	41	34	63	51
	7306	110	70	68	63	61	55	48	41	34	62	50
	0	112	70	68	63	61	55	48	41	34	62	50
301	22778	0	79	73	70	64	60	53	46	39	67	55
	17262	76	76	73	69	64	58	51	44	37	66	54
	8055	134	74	71	67	63	58	51	44	37	65	53
	0	136	74	70	66	63	58	51	44	37	65	53
329	24897	0	81	76	73	67	63	56	49	42	70	58
	18867	90	79	76	72	66	61	54	47	40	69	57
	8805	160	76	73	69	65	61	54	47	40	67	55
	0	162	76	73	69	65	61	54	47	40	67	55
357	27015	0	83	78	75	69	66	59	52	45	72	60
	20473	106	80	78	75	69	64	57	50	43	71	59
	9554	188	78	75	72	67	64	57	50	43	70	58
	0	191	77	75	72	67	64	57	50	43	69	57
385	29134	0	84	80	77	71	68	61	54	47	74	62
	22079	124	81	80	77	71	66	59	52	45	73	61
	10303	219	79	77	75	69	66	59	52	45	72	60
	0	222	79	77	74	69	66	59	52	45	72	60
413	31253	0	87	84	79	74	70	63	56	49	76	64
	23685	142	83	82	80	73	68	61	54	47	76	64
	11053	252	80	79	77	71	68	62	54	47	74	62
	0	256	80	79	77	70	68	62	55	47	74	62
441	33372	0	91	87	80	77	71	65	58	51	79	67
	25290	162	84	83	82	75	70	64	57	50	78	66
	11802	287	81	81	79	72	71	64	57	50	76	64
	0	292	81	81	79	72	71	64	57	50	76	64
469	35491	0	93	89	82	78	73	67	60	53	80	68
	26896	184	86	86	83	77	72	66	59	51	79	67
	12551	325	83	83	81	74	72	66	59	52	78	66
	0	330	83	83	80	74	72	66	59	52	77	65
497	37610	0	95	91	84	80	74	69	62	55	82	70
	28502	206	88	88	85	79	74	67	60	53	81	69
	13301	364	86	85	82	76	73	67	60	53	79	67
	0	371	86	85	82	76	73	67	60	53	79	67
525	39729	0	96	93	85	82	76	71	64	57	84	72
	30108	230	90	90	86	80	75	69	62	55	83	71
	14050	407	88	87	84	78	75	69	62	55	81	69
	0	414	88	87	83	78	75	69	62	55	81	69
553	41847	0	98	95	87	83	77	73	66	59	86	74
	31713	255	92	92	88	82	77	71	64	57	84	72
	14800	451	90	89	85	79	76	71	64	57	82	70
	0	459	90	89	85	79	76	71	64	57	82	70
581	43966	0	99	96	88	85	79	74	67	60	87	75
	33319	282	93	93	89	84	78	72	65	58	86	74
	15549	498	92	91	86	81	77	72	65	58	84	72
	0	507	92	91	86	81	77	72	65	58	84	72
609	46085	0	100	98	90	86	80	76	69	62	88	76
	34925	310	95	95	90	85	79	74	67	60	87	75
	16298	547	94	93	87	83	78	74	67	60	85	73
	0	557	94	93	87	83	78	74	67	60	85	73
637	48204	0	101	99	91	88	81	77	70	63	90	78
	36530	339	97	96	91	87	81	75	68	61	89	77
	17048	599	95	94	89	84	79	75	68	61	87	75
	0	609	95	94	89	84	79	75	68	61	86	74
665	50323	0	102	100	92	89	82	79	71	64	91	79
	38136	369	98	97	93	88	82	77	70	63	90	78
	17797	653	97	95	90	85	80	77	70	63	88	76
	0	664	97	95	90	85	80	77	70	63	88	76
693	52442	0	104	101	94	90	83	80	73	66	92	80
	39742	401	99	98	94	90	83	78	71	64	91	79
	18546	709	99	95	91	87	81	78	71	64	89	77
	0	721	99	95	91	87	81	78	71	64	89	77
720	54561	0	105	101	95	91	85	81	74	67	93	81
	41348	434	101	99	95	91	84	79	72	65	92	80
	19296	767	100	96	92	88	82	79	72	65	90	78
	0	780	100	96	92	88	82	79	72	65	90	78
749	56679	0	106	102	96	92	86	82	75	68	94	82
	42953	468	102	99	96	92	85	80	73	66	93	81
	20045	828	102	97	93	89	83	80	73	66	91	79
	0	842	102	97	93	89	83	80	73	66	91	79
770	58269	0	106	103	97	93	86	83	76	69	95	83
	44158	495	103	100	96	93	86	81	74	67	94	82
	20607	875	103	97	94	90	84	81	74	67	92	80
	0	890	103	97	93	90	84	81	74	67	92	80