



고효율기자재



KS인증

KSA

ISO9001인증기업



KAB

INNOBIZ

이노비즈인증기업



벤처기업인증



클린사업장



경기유망중소기업

DAELIM *Wind Power*



**Air Foil Fan
"DLAF" Series
July 2014**



[주]대림풍력



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"DLAF" SERIES (AIR FOIL FAN)

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▶▶▶ GREETINGS



귀사의 무궁한 발전을 기원합니다.
 폐사는 송풍기(BLOWER) 전문업체로서 날로 고도화 되어
 가는 기계 산업사회의 일익을 담당코자 성실과 인내로
 끊임없이 노력하고 있습니다.
 구르는 돌이 이끼가 끼지 않듯이 그동안 축적해온 경험과
 기술을 바탕으로 설비기계의 성능, 내구성, 안전성 등
 기계제품 만들기에 정성을 다하고 있습니다.
 여러분의 성원에 보답하겠습니다. 감사합니다.

(주)대림풍력 임직원 일동



(주)대림풍력이 획득한 DLAF SERIES AIR FOIL FAN 의
 AMCA SEAL에 대한 내용입니다.
 등급표시는 AMCA 211과 AMCA 311에 의거 테스트 및
 절차에 따른 것 이며, AMCA 보증프로그램의 요구사항과
 일치합니다.

DAE LIM PUNG RYUCK Co.,LTD certifies that the type
 "DLAF" airfoil Fans shown here in 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.

SINGLE SUCTION

● 구조 및 형상

날개의 끝 부분이 회전방향의 뒤쪽으로 굽은 BACK WARD CURVE TYPE (後曲形) 구조로 박판을 접어서 유선형으로 형성됨.



● 대림풍력 AIR FOIL FAN 의 특징

1) 고효율 (High efficiency)

원심형 송풍기 중 가장 높은 효율을 가지며 50 ~ 300mmAq의 압력에 적합하도록 설계 되었다.

2) 저소음 (Low level sound)

유압 프레스에 의한 벨마우스 구조로 성형되고 IMPELLER로부터 CASING 토출구까지의 STREAM LINE은 이상적인 형상으로 제작되어있어 종래의 제품보다 소음이 낮다.

3) 설치공간 (Small space)

타 원심식 송풍기와 비교하여 동일 용량에 대한 크기가 가장 작아서 설치 면적이 작다.

4) 성능특성 (Special performance)

특성 곡선상의 정압 곡선이 다른 원심 송풍기에 비하여 완만하기 때문에 풍량 변동에 따른 변화가 적다. 따라서 여러 개의 급,배기구에서 급,배기할 경우 그 일부를 폐쇄 하여도 큰 영향을 받지 않는다.

● MODEL & TYPE

- 구동방식 : V - BELT 구동형 (V-BELT Driven type)
직결식 (Direct driven type - with coupling)
- 흡입방식 : 편흡입형 (Single Suction), 양흡입형 (Double Suction)
- 크 기 : 임펠러 킷 바깥지름 기준 (#2.5호 ~ #18호)
- 베어링 지지방식 : 양축지지형, 편축지지형
- 부속장치 (Option) : SOUND CHAMBER, SUCTION GUIDE VANE
- 재 질 : STEEL, STS

● 주요 용도

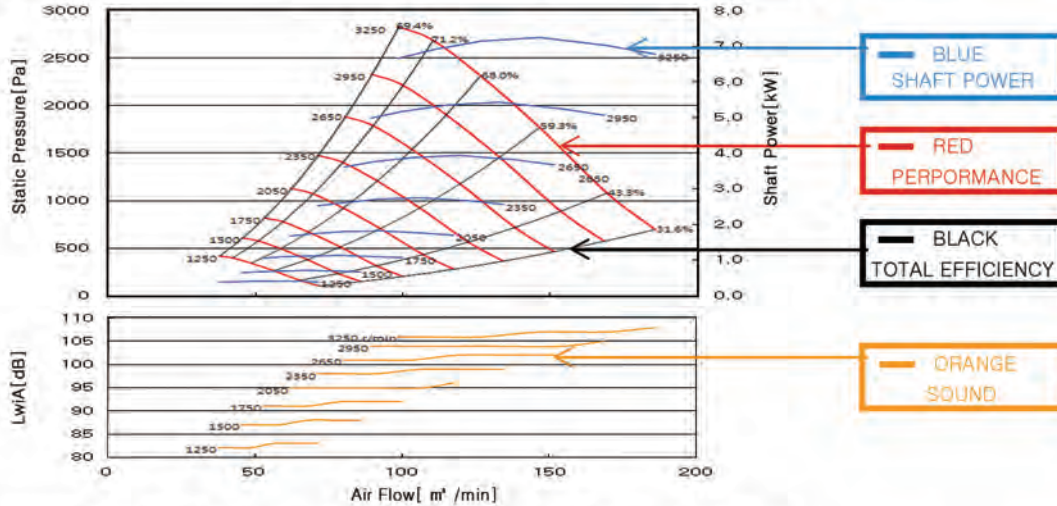
- 빌딩, 공장의 냉난방, 일반 환기용, 열풍건조기용, 냉동장치용, 집진용
- CLEAN ROOM BOOTH 배기, 급기용
- 건조장치 및 원자력발전소, 국소 환기용
- 지하철 유막 급·배기용, AIR WASHER용
- 공기조화기 SUPPLY용
- 기타 일반산업용 강제 송풍장치 등

FAN SELECT METHOD

a. FAN 선정방법 예제 (Select Method Example)

ex)

AIR VOLUME	STATIC PRESSURE	FAN SPEED	TOTAL EFFICIENCY	SHAFT POWER	SOUND
781 CMM	80.6 mmAq	1500 rpm	71.2 %	1.47 kW	91 dB



Det	N	Ps	Q	H	etas	LwA	Det	N	Ps	Q	H	etas	LwA
	[r/min]	[Pa]	[m³/min]	[Kw]	[%]	[dB]		[r/min]	[Pa]	[m³/min]	[Kw]	[%]	[dB]
1	103	71.2	0.386	31.6	83	1	148	85.4	0.668	31.6	88		
2	160	65.0	0.400	43.3	83	2	230	77.9	0.691	43.3	88		
3	262	56.2	0.413	59.3	83	3	377	67.4	0.713	59.3	88		
4	342	48.6	0.407	68.0	82	4	493	58.3	0.703	68.0	87		
5	398	42.3	0.393	71.2	82	5	574	50.8	0.679	71.2	87		
6	419	37.9	0.380	69.4	82	6	603	45.4	0.656	69.4	87		
1	202	99.7	1.060	31.6	92	1	277	116.8	1.704	31.6	96		
2	314	90.9	1.097	43.3	92	2	430	106.5	1.763	43.3	95		
3	513	78.7	1.133	59.3	92	3	704	92.2	1.821	59.3	95		
4	670	68.0	1.116	68.0	91	4	920	79.7	1.794	68.0	95		
5	781	59.2	1.079	71.2	91	5	1073	69.4	1.734	71.2	95		
6	821	53.0	1.042	69.4	91	6	1127	62.1	1.675	69.4	95		
1	364	133.9	2.567	31.6	99	1	463	150.9	3.681	31.6	102		
2	566	122.1	2.656	43.3	99	2	719	137.7	3.809	43.3	102		
3	926	105.7	2.744	59.3	99	3	1177	119.1	3.934	59.3	102		
4	1209	91.3	2.702	68.0	98	4	1537	103.0	3.875	68.0	101		
5	1408	79.5	2.613	71.2	98	5	1790	89.7	3.747	71.2	101		
6	1481	71.2	2.523	69.4	98	6	1883	80.3	3.618	69.4	101		
1	574	168.0	5.078	31.6	105	1	696	183.1	6.790	31.6	108		
2	891	153.3	5.255	43.3	104	2	1082	168.9	7.027	43.3	107		
3	1459	132.6	5.427	59.3	104	3	1771	146.1	7.257	59.3	107		
4	1905	114.7	5.346	68.0	104	4	2312	126.3	7.148	68.0	106		
5	2218	99.8	5.169	71.2	104	5	2692	110.0	6.911	71.2	106		
6	2333	89.3	4.991	69.4	104	6	2832	98.4	6.674	69.4	106		

1	1500	RPM
2	m³/min	AIR VOLUME
3	mmAq	STATIC PRESSURE
4	Kw	SHAFT POWER
5	%	TOTAL EFFICIENCY

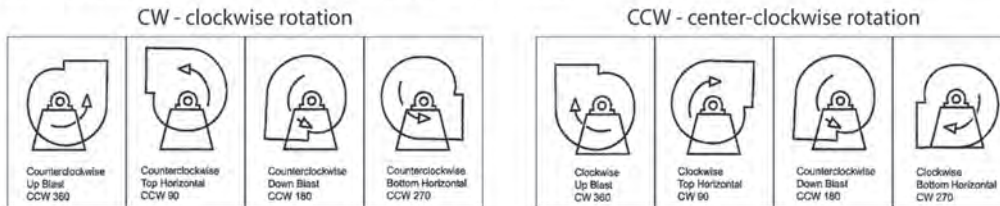
b. 팬 회전 과 토출방향 (Fan Rotation and Discharge)

팬의 회전과 토출방향은 AMCA 표준 99-2406-03에 따릅니다.

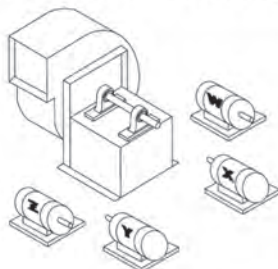
회전 방향은 팬의 구동 측으로 부터 결정됩니다 :

The rotation and discharge of the fan is in accordance with AMCA standard 99-2406-03.w

The direction of rotation is determined from the drive side of the fan :



모터 위치 (Motor Position)



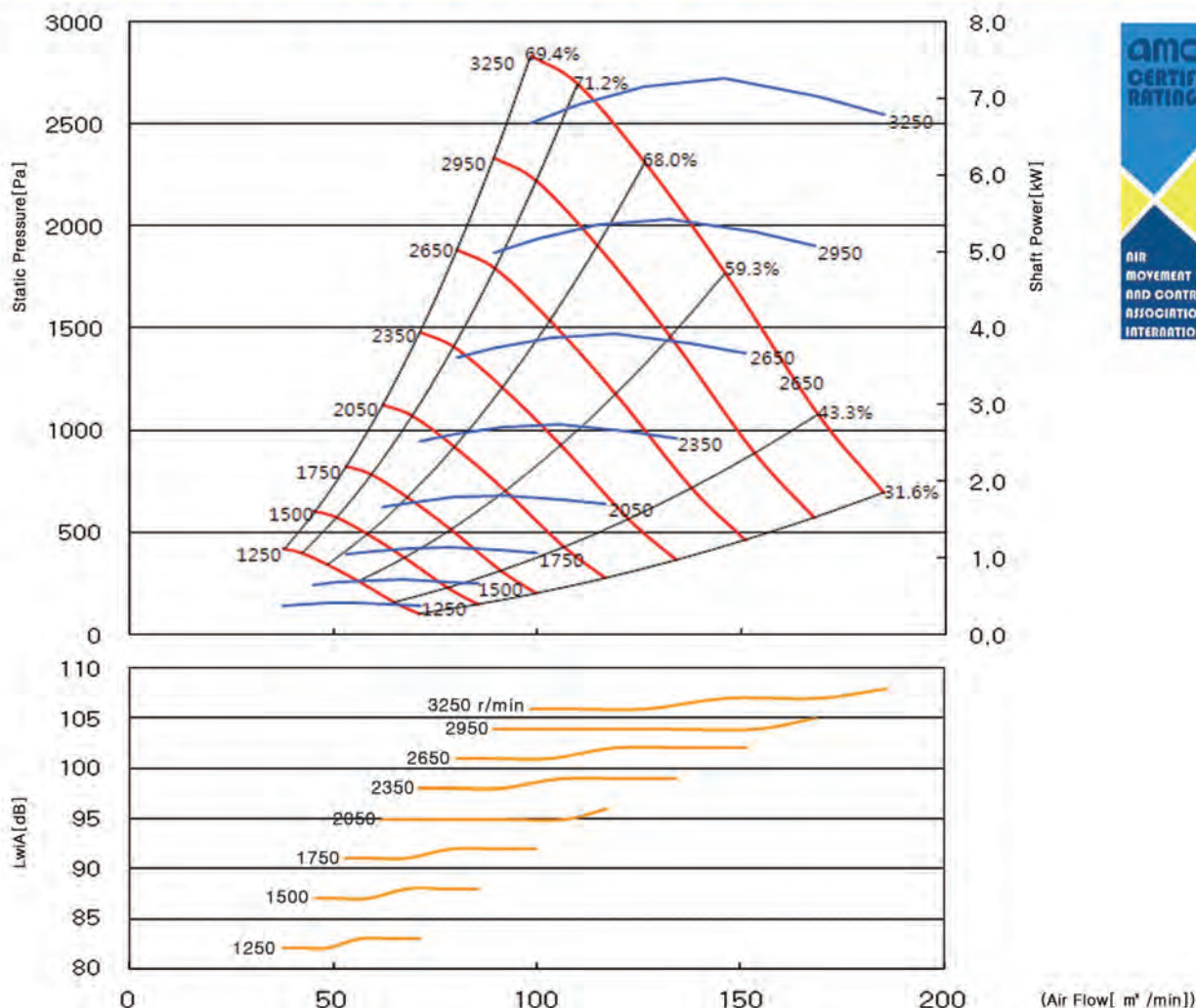
벨트 구동 원심형 팬의 모터 방향은 AMCA 표준 99-2407-03에 따릅니다.

모터의 위치는 팬의 구동측 면과 지정된 위치인 W, X, Y, Z로 결정됩니다.

The position of the motor for belt drive centrifugal fan is in accordance with AMCA standard 99-2407-03.

Location of motor is determined by facing the drive side of fan and designating the positions by letters W, X, Y, or Z.

AIR PERFORMANCE AND SOUND DATA - DLAF #3SS

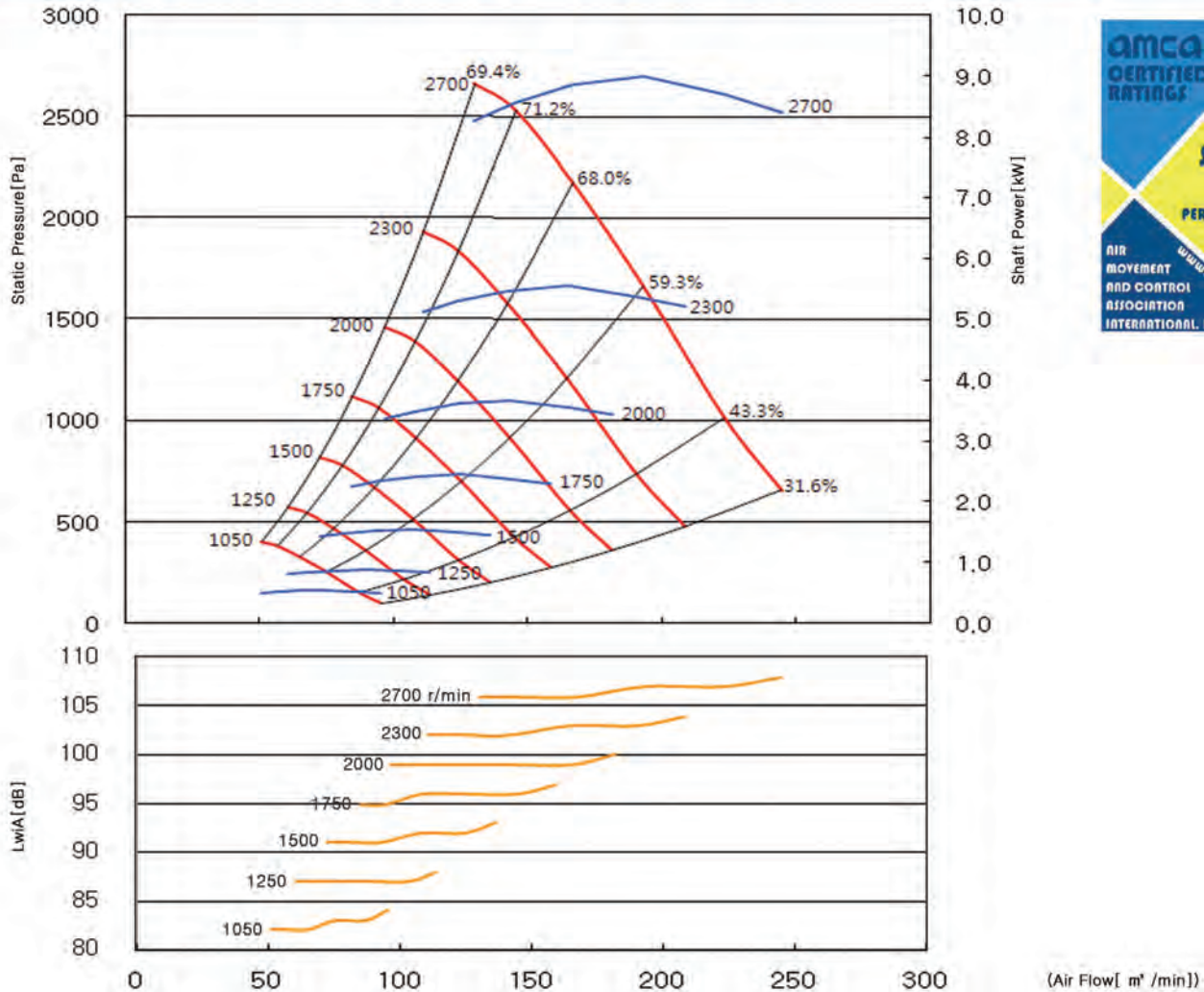


Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]	Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]
1	1250	103	71.2	0.386	31.6	83	1	1500	148	85.4	0.668	31.6	88
2		160	65.0	0.400	43.3	83	2		230	77.9	0.691	43.3	88
3		262	56.2	0.413	59.3	83	3		377	67.4	0.713	59.3	88
4		342	48.6	0.407	68.0	82	4		493	58.3	0.703	68.0	87
5		398	42.3	0.393	71.2	82	5		574	50.8	0.679	71.2	87
6		419	37.9	0.380	69.4	82	6		603	45.4	0.656	69.4	87
1	1750	202	99.7	1.060	31.6	92	1	2050	277	116.8	1.704	31.6	96
2		314	90.9	1.097	43.3	92	2		430	106.5	1.763	43.3	95
3		513	78.7	1.133	59.3	92	3		704	92.2	1.821	59.3	95
4		670	68.0	1.116	68.0	91	4		920	79.7	1.794	68.0	95
5		781	59.2	1.079	71.2	91	5		1071	69.4	1.734	71.2	95
6		821	53.0	1.042	69.4	91	6		1127	62.1	1.675	69.4	95
1	2350	364	133.9	2.567	31.6	99	1	2650	463	150.9	3.681	31.6	102
2		566	122.1	2.656	43.3	99	2		719	137.7	3.809	43.3	102
3		926	105.7	2.744	59.3	99	3		1177	119.1	3.934	59.3	102
4		1209	91.3	2.702	68.0	98	4		1537	103.0	3.875	68.0	101
5		1408	79.5	2.613	71.2	98	5		1790	89.7	3.747	71.2	101
6		1481	71.2	2.523	69.4	98	6		1883	80.3	3.618	69.4	101
1	2950	574	168.0	5.078	31.6	105	1	3250	696	185.1	6.790	31.6	108
2		891	153.3	5.255	43.3	104	2		1082	168.9	7.027	43.3	107
3		1459	132.6	5.427	59.3	104	3		1771	146.1	7.257	59.3	107
4		1905	114.7	5.346	68.0	104	4		2312	126.3	7.148	68.0	106
5		2218	99.8	5.169	71.2	104	5		2692	110.0	6.911	71.2	106
6		2333	89.3	4.991	69.4	104	6		2832	98.4	6.674	69.4	106

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet, Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances(accessories)
- Power rating (KW) does not include transmission losses
- Values shown are for(inlet LwA) sound power levels for installation Type B : free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.

SINGLE SUCTION

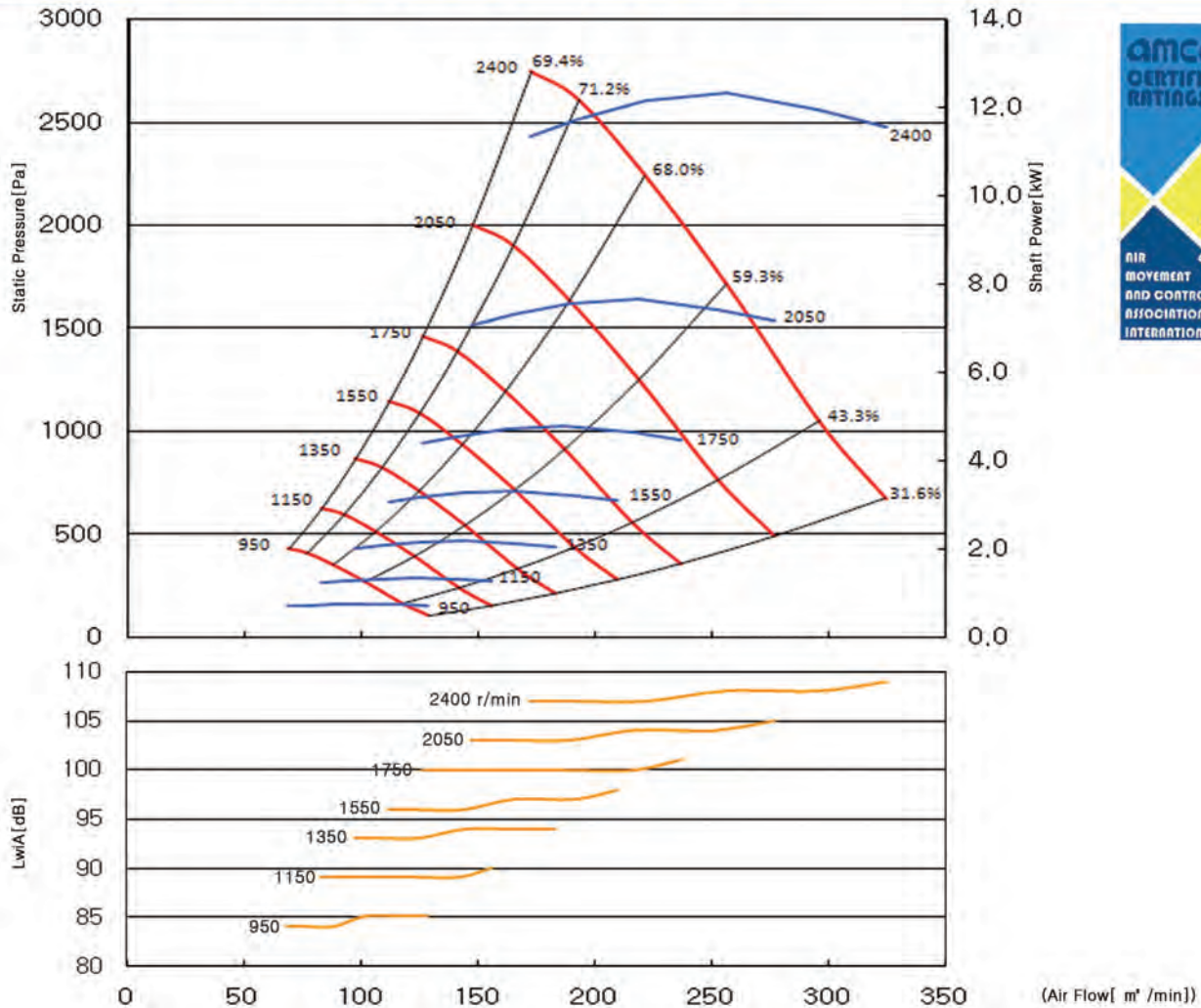
AIR PERFORMANCE AND SOUND DATA - DLAF #3.5SS



Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]	Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]
1	1050	99	95.0	0.495	31.6	84	1	1250	140	113.1	0.835	31.6	88
2		154	86.6	0.512	43.3	83	2		218	103.1	0.864	43.3	87
3		252	75.0	0.529	59.3	83	3		357	89.2	0.892	59.3	87
4		328	64.8	0.521	68.0	82	4		466	77.2	0.879	68.0	87
5		382	56.4	0.504	71.2	82	5		542	67.2	0.850	71.2	87
6		402	50.5	0.486	69.4	82	6		570	60.1	0.821	69.4	87
1	1500	202	135.7	1.443	31.6	93	1	1750	275	158.3	2.291	31.6	97
2		314	123.8	1.493	43.3	92	2		427	144.4	2.371	43.3	96
3		513	107.1	1.542	59.3	92	3		699	124.9	2.449	59.3	96
4		670	92.6	1.519	68.0	91	4		912	108.0	2.412	68.0	96
5		781	80.6	1.469	71.2	91	5		1062	94.0	2.332	71.2	95
6		821	72.1	1.418	69.4	91	6		1117	84.2	2.252	69.4	95
1	2000	359	180.9	3.420	31.6	100	1	2300	475	208.0	5.201	31.6	104
2		558	165.0	3.539	43.3	99	2		737	189.8	5.383	43.3	103
3		913	142.8	3.655	59.3	99	3		1207	164.2	5.559	59.3	103
4		1192	123.4	3.601	68.0	99	4		1576	142.0	5.476	68.0	102
5		1388	107.5	3.481	71.2	99	5		1835	123.6	5.294	71.2	102
6		1460	96.2	3.362	69.4	99	6		1930	110.6	5.113	69.4	102
1	2700	654	244.2	8.414	31.6	108	1	-	-	-	-	-	-
2		1016	222.8	8.708	43.3	107	2	-	-	-	-	-	-
3		1663	192.8	8.994	59.3	107	3	-	-	-	-	-	-
4		2172	166.6	8.859	68.0	106	4	-	-	-	-	-	-
5		2529	145.1	8.565	71.2	106	5	-	-	-	-	-	-
6		2660	129.9	8.271	69.4	106	6	-	-	-	-	-	-

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet, Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances(accessories)
- Power rating (KW) does not include transmission losses
- Values shown are for (inlet LwA) sound power levels for installation Type B : free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.

AIR PERFORMANCE AND SOUND DATA - DLAF #45S

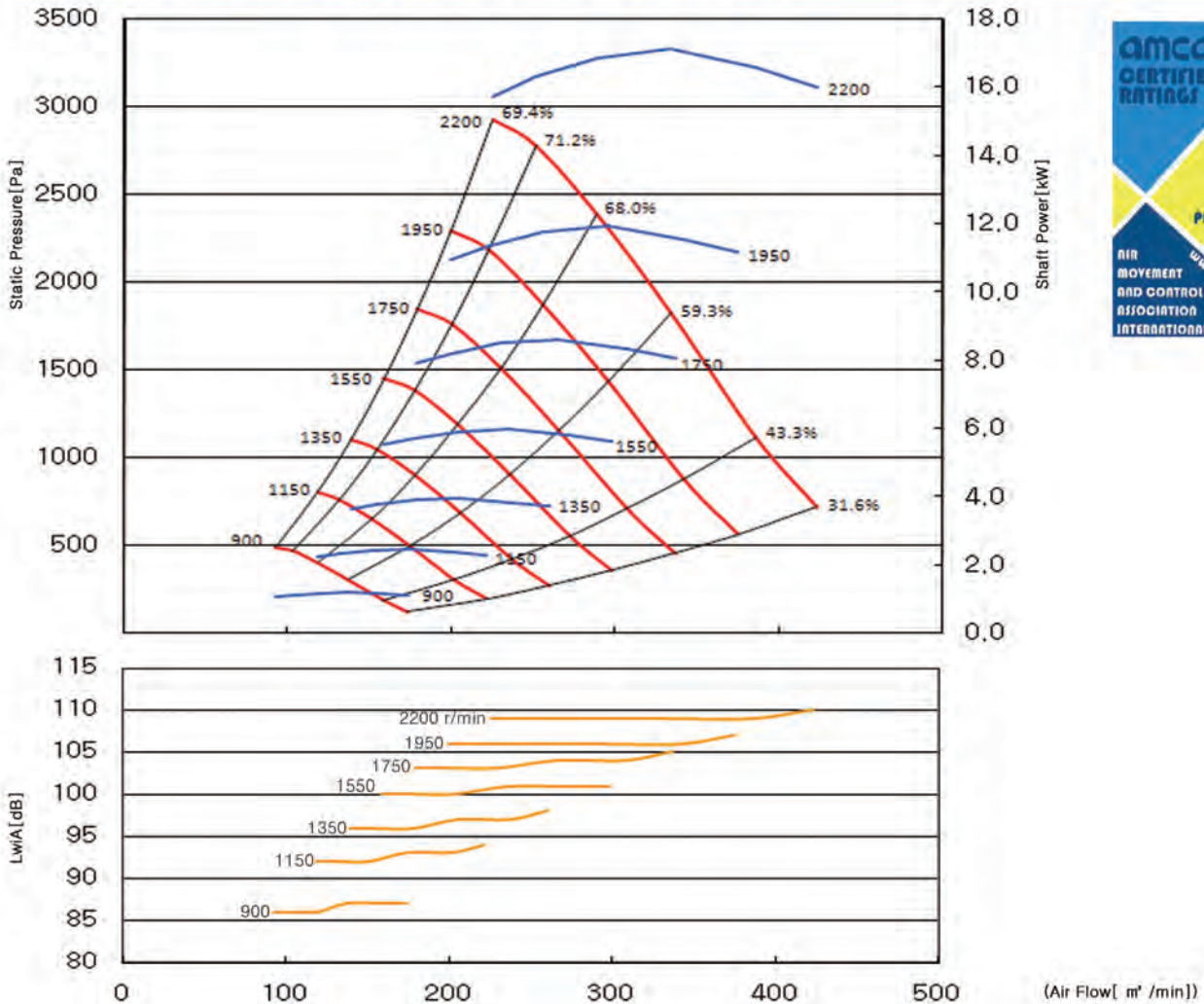


Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]	Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]
1	950	106	128.3	0.715	31.6	85	1	1150	155	155.3	1.268	31.6	90
2		164	117.0	0.740	43.3	85	2		241	141.6	1.312	43.3	89
3		269	101.2	0.764	59.3	85	3		394	122.6	1.355	59.3	89
4		351	87.5	0.752	68.0	84	4		515	106.0	1.335	68.0	89
5		409	76.2	0.727	71.2	84	5		599	92.2	1.290	71.2	89
6		430	68.2	0.702	69.4	84	6		630	82.6	1.246	69.4	89
1	1350	214	182.3	2.051	31.6	94	1	1550	282	209.3	3.104	31.6	98
2		332	166.3	2.122	43.3	94	2		437	190.9	3.212	43.3	97
3		543	143.9	2.192	59.3	94	3		716	165.2	3.317	59.3	97
4		709	124.4	2.159	68.0	93	4		935	142.8	3.268	68.0	96
5		826	108.3	2.087	71.2	93	5		1089	124.3	3.159	71.2	96
6		869	96.9	2.016	69.4	93	6		1145	111.3	3.051	69.4	96
1	1750	359	236.3	4.467	31.6	101	1	2050	493	276.8	7.180	31.6	105
2		558	215.5	4.623	43.3	100	2		765	252.5	7.431	43.3	104
3		913	186.5	4.774	59.3	100	3		1252	218.5	7.675	59.3	104
4		1192	161.2	4.703	68.0	100	4		1635	188.9	7.560	68.0	103
5		1388	140.4	4.547	71.2	100	5		1904	164.4	7.309	71.2	103
6		1460	125.6	4.391	69.4	100	6		2003	147.2	7.058	69.4	103
1	2400	675	324.0	11.522	31.6	109	1	-	-	-	-	-	-
2		1049	295.6	11.924	43.3	108	2	-	-	-	-	-	-
3		1717	255.8	12.315	59.3	108	3	-	-	-	-	-	-
4		2242	221.1	12.130	68.0	107	4	-	-	-	-	-	-
5		2610	192.5	11.728	71.2	107	5	-	-	-	-	-	-
6		2745	172.3	11.326	69.4	107	6	-	-	-	-	-	-

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances (accessories)
- Power rating (KW) does not include transmission losses
- Values shown are for (inlet LwA) sound power levels for installation Type B : free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.

SINGLE SUCTION

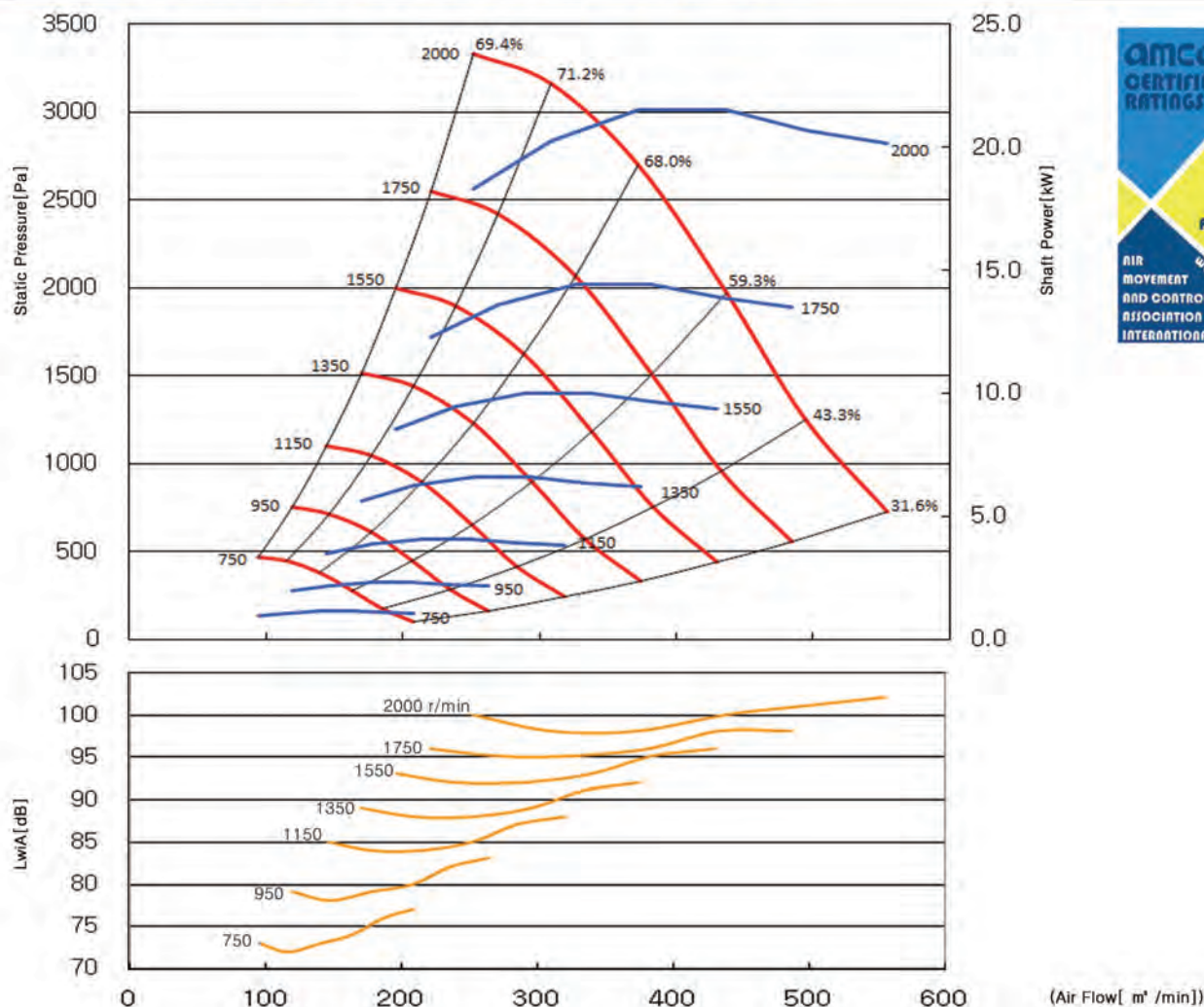
AIR PERFORMANCE AND SOUND DATA - DLAF #4.5SS



Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]	Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]
1	900	120	173.0	1.095	31.6	87	1	1150	196	221.1	2.284	31.6	94
2		187	157.8	1.133	43.3	87	2		305	201.7	2.364	43.3	93
3		306	136.6	1.170	59.3	87	3		499	174.5	2.442	59.3	93
4		399	118.1	1.153	68.0	86	4		651	150.9	2.405	68.0	92
5		465	102.8	1.115	71.2	86	5		758	131.3	2.325	71.2	92
6		489	92.0	1.076	69.4	86	6		798	117.5	2.245	69.4	92
1	1350	270	259.5	3.695	31.6	98	1	1550	356	298.0	5.593	31.6	101
2		420	236.7	3.824	43.3	97	2		554	271.8	5.788	43.3	101
3		687	204.8	3.950	59.3	97	3		906	235.2	5.978	59.3	101
4		898	177.1	3.891	68.0	96	4		1183	203.3	5.888	68.0	100
5		1045	154.2	3.762	71.2	96	5		1378	177.0	5.693	71.2	100
6		1099	138.0	3.633	69.4	96	6		1449	158.4	5.498	69.4	100
1	1750	454	336.4	8.049	31.6	105	1	1950	564	374.9	11.137	31.6	107
2		706	306.9	8.330	43.3	104	2		876	342.0	11.525	43.3	106
3		1155	265.5	8.604	59.3	104	3		1434	295.9	11.904	59.3	106
4		1508	229.6	8.475	68.0	103	4		1873	255.8	11.725	68.0	106
5		1756	199.9	8.194	71.2	103	5		2181	222.7	11.336	71.2	106
6		1847	178.9	7.913	69.4	103	6		2294	199.3	10.947	69.4	106
1	2200	718	422.9	15.992	31.6	110	1	-	-	-	-	-	-
2		1115	385.8	16.551	43.3	109	2	-	-	-	-	-	-
3		1826	333.8	17.094	59.3	109	3	-	-	-	-	-	-
4		2384	288.6	16.837	68.0	109	4	-	-	-	-	-	-
5		2776	251.3	16.279	71.2	109	5	-	-	-	-	-	-
6		2919	224.9	15.721	69.4	109	6	-	-	-	-	-	-

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet, Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances (accessories)
- Power rating (KW) does not include transmission losses
- Values shown are for (inlet LwA) sound power levels for installation Type B: free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.

AIR PERFORMANCE AND SOUND DATA - DLAF #5SS

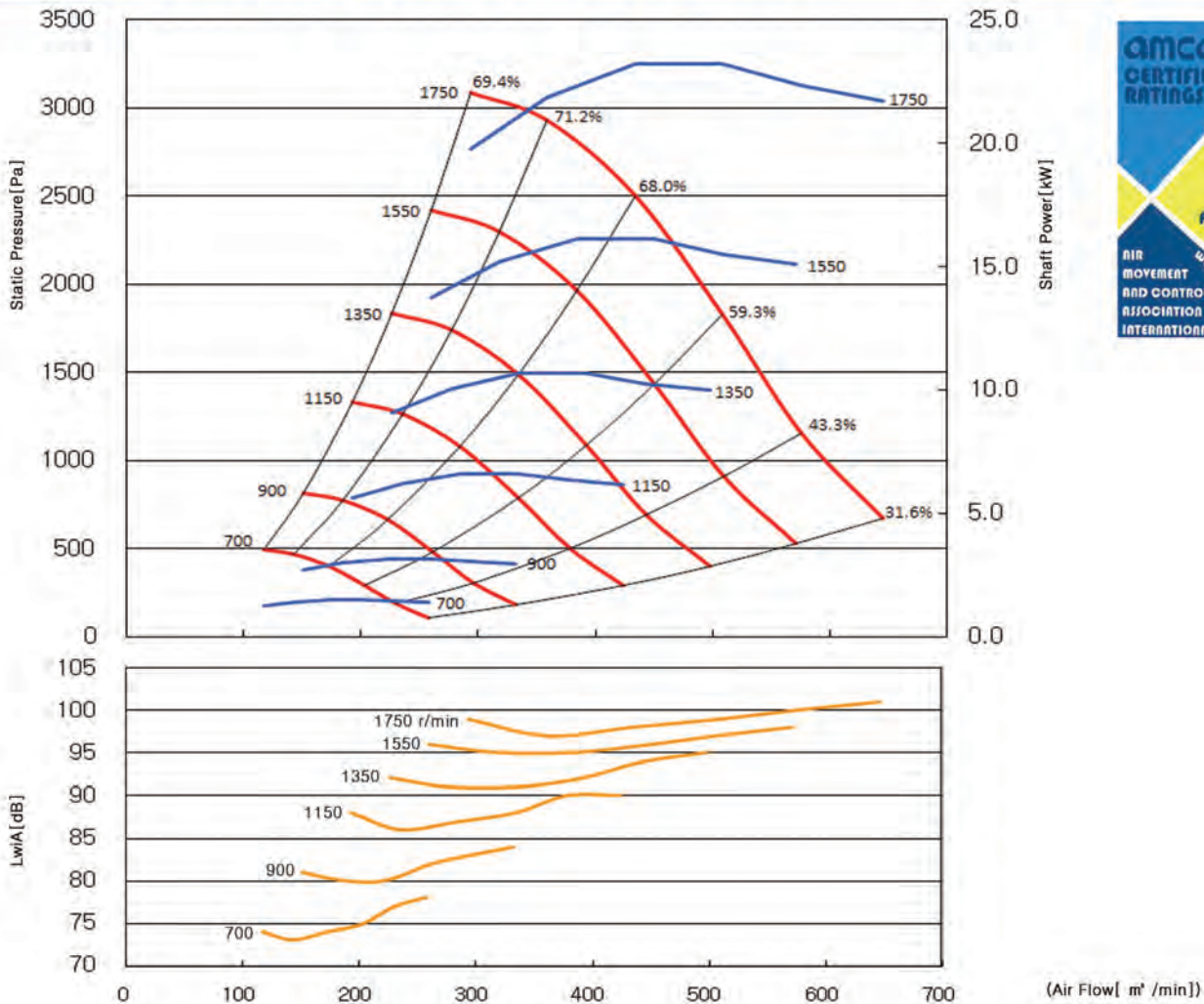


Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]	Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]
1	750	102	208.0	1.061	33.4	77	1	950	164	263.5	2.156	33.4	83
2		176	185.6	1.090	49.7	76	2		282	235.0	2.216	49.7	82
3		277	163.9	1.134	66.5	74	3		445	207.6	2.304	66.5	80
4		380	139.9	1.133	77.6	73	4		609	177.2	2.304	77.6	79
5		444	115.8	1.068	79.7	72	5		712	146.7	2.171	79.7	78
6		468	94.7	0.965	76.0	73	6		751	119.9	1.962	76.0	79
1	1150	240	319.0	3.825	33.4	88	1	1350	331	374.4	6.188	33.4	92
2		413	284.5	3.931	49.7	87	2		569	334.0	6.359	49.7	91
3		652	251.3	4.086	66.5	85	3		898	295.0	6.611	66.5	89
4		892	214.5	4.086	77.6	84	4		1230	251.8	6.610	77.6	88
5		1044	177.6	3.852	79.7	84	5		1439	208.5	6.231	79.7	88
6		1101	145.2	3.480	76.0	85	6		1517	170.4	5.630	76.0	89
1	1550	437	429.9	9.366	33.4	96	1	1750	557	485.4	13.479	33.4	98
2		750	383.5	9.625	49.7	95	2		956	433.0	13.853	49.7	98
3		1184	338.7	10.006	66.5	93	3		1509	382.4	14.400	66.5	96
4		1621	289.1	10.005	77.6	92	4		2067	326.4	14.399	77.6	95
5		1897	239.3	9.431	79.7	92	5		2418	270.2	13.573	79.7	95
6		2000	195.7	8.522	76.0	93	6		2550	220.9	12.265	76.0	96
1	2000	727	554.7	20.121	33.4	102	1	-	-	-	-	-	-
2		1248	494.8	20.678	49.7	101	2	-	-	-	-	-	-
3		1971	437.1	21.495	66.5	100	3	-	-	-	-	-	-
4		2699	373.0	21.494	77.6	98	4	-	-	-	-	-	-
5		3158	308.8	20.261	79.7	98	5	-	-	-	-	-	-
6		3330	252.5	18.308	76.0	100	6	-	-	-	-	-	-

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet, Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances(accessories)
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- Values shown are for(inlet LwA) sound power levels for installation Type B : free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.

SINGLE SUCTION

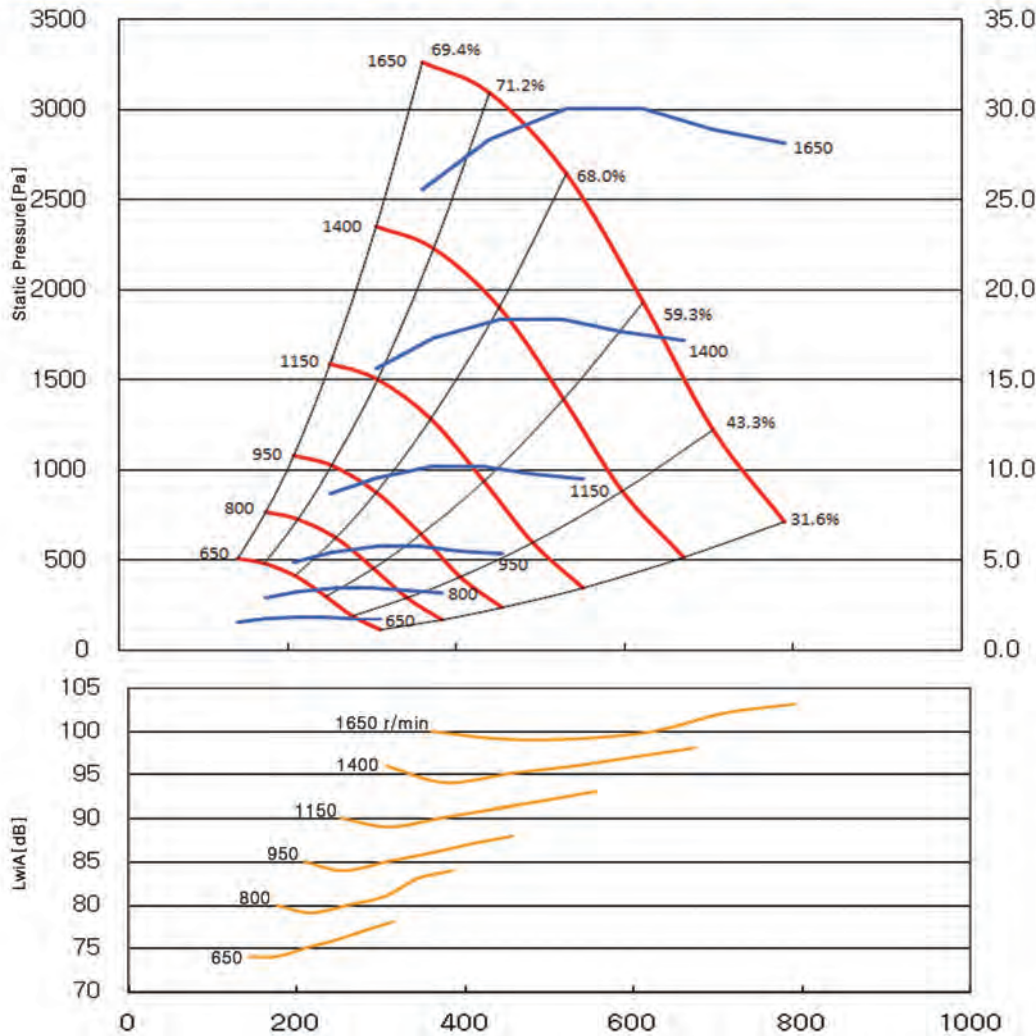
AIR PERFORMANCE AND SOUND DATA - DLAF #5.5S



Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]	Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]
1	700	108	258.4	1.389	33.4	78	1	900	178	332.2	2.953	33.4	84
2		185	230.5	1.428	49.7	77	2		306	296.4	3.035	49.7	83
3		292	203.6	1.484	66.5	75	3		483	261.8	3.155	66.5	82
4		400	173.8	1.484	77.6	74	4		661	223.4	3.154	77.6	80
5		468	143.9	1.399	79.7	73	5		774	185.0	2.973	79.7	80
6		494	117.6	1.264	76.0	74	6		816	151.2	2.687	76.0	81
1	1150	291	424.5	6.160	33.4	90	1	1350	401	498.4	9.966	33.4	95
2		499	378.7	6.331	49.7	90	2		688	444.6	10.242	49.7	94
3		789	334.5	6.581	66.5	88	3		1087	392.7	10.647	66.5	92
4		1080	285.5	6.581	77.6	87	4		1488	335.1	10.646	77.6	91
5		1263	236.4	6.203	79.7	86	5		1741	277.5	10.036	79.7	91
6		1332	193.2	5.605	76.0	88	6		1836	226.8	9.068	76.0	92
1	1550	528	572.2	15.084	33.4	98	1	1750	674	646.0	21.708	33.4	101
2		907	510.4	15.502	49.7	97	2		1156	576.3	22.310	49.7	100
3		1432	450.8	16.114	66.5	96	3		1826	509.0	23.192	66.5	99
4		1962	384.8	16.113	77.6	95	4		2500	434.4	23.190	77.6	98
5		2295	318.6	15.189	79.7	95	5		2925	359.7	21.860	79.7	97
6		2420	260.4	13.725	76.0	96	6		3085	294.1	19.752	76.0	99
1	-	-	-	-	-	-	1	-	-	-	-	-	-
2	-	-	-	-	-	-	2	-	-	-	-	-	-
3	-	-	-	-	-	-	3	-	-	-	-	-	-
4	-	-	-	-	-	-	4	-	-	-	-	-	-
5	-	-	-	-	-	-	5	-	-	-	-	-	-
6	-	-	-	-	-	-	6	-	-	-	-	-	-

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances (accessories)
- Power rating (KW) does not include transmission losses
- Values shown are for (inlet LwA) sound power levels for installation Type B : free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.

AIR PERFORMANCE AND SOUND DATA - DLAF #6SS

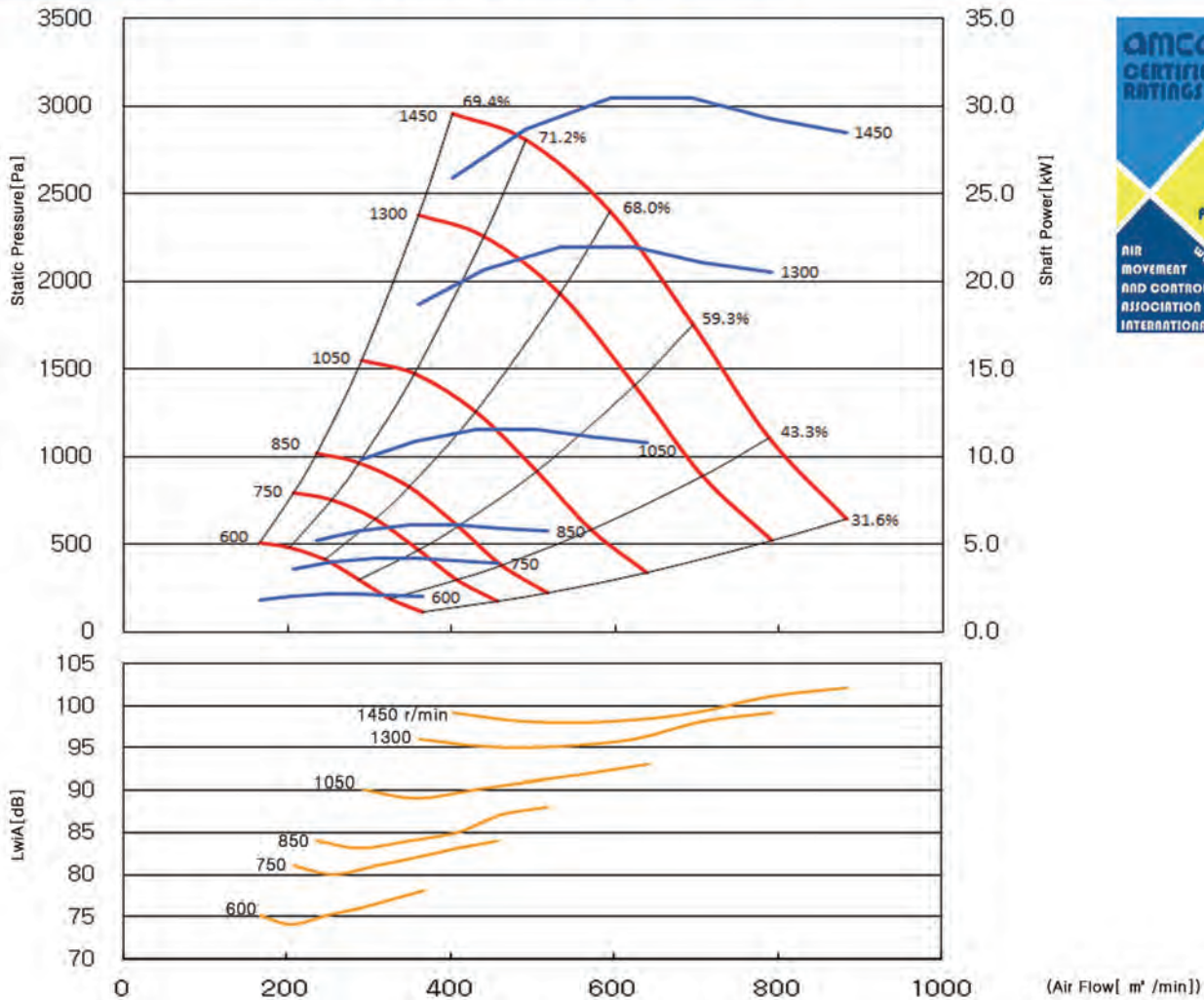


Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]	Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]
1	650	111	311.5	1.719	33.4	78	1	800	168	383.4	3.204	33.4	84
2		190	277.9	1.766	49.7	77	2		288	342.0	3.293	49.7	83
3		300	245.4	1.836	66.5	76	3		454	302.1	3.423	66.5	81
4		411	209.5	1.836	77.6	75	4		622	257.8	3.423	77.6	80
5		480	173.4	1.731	79.7	74	5		728	213.5	3.227	79.7	79
6		507	141.8	1.564	76.0	74	6		767	174.5	2.916	76.0	80
1	950	236	455.3	5.366	33.4	88	1	1150	346	551.2	9.518	33.4	93
2		406	406.1	5.514	49.7	87	2		594	491.6	9.782	49.7	92
3		640	358.7	5.732	66.5	86	3		938	434.3	10.168	66.5	91
4		877	306.2	5.732	77.6	85	4		1285	370.6	10.168	77.6	90
5		1026	253.5	5.403	79.7	84	5		1503	306.8	9.585	79.7	89
6		1082	207.2	4.882	76.0	85	6		1586	250.9	8.660	76.0	90
1	1400	513	671.0	17.173	33.4	98	1	1650	713	790.8	28.113	33.4	103
2		881	598.5	17.649	49.7	97	2		1223	705.4	28.892	49.7	102
3		1391	528.7	18.346	66.5	96	3		1932	623.1	30.034	66.5	100
4		1904	451.2	18.345	77.6	95	4		2645	531.8	30.032	77.6	99
5		2228	373.6	17.293	79.7	94	5		3095	440.3	28.310	79.7	99
6		2350	305.4	15.625	76.0	96	6		3264	359.9	25.580	76.0	100
1	-	-	-	-	-	-	1	-	-	-	-	-	-
2	-	-	-	-	-	-	2	-	-	-	-	-	-
3	-	-	-	-	-	-	3	-	-	-	-	-	-
4	-	-	-	-	-	-	4	-	-	-	-	-	-
5	-	-	-	-	-	-	5	-	-	-	-	-	-
6	-	-	-	-	-	-	6	-	-	-	-	-	-

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances (accessories)
- Power rating (KW) does not include transmission losses
- Values shown are for (inlet LwA) sound power levels for installation Type B : free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
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SINGLE SUCTION

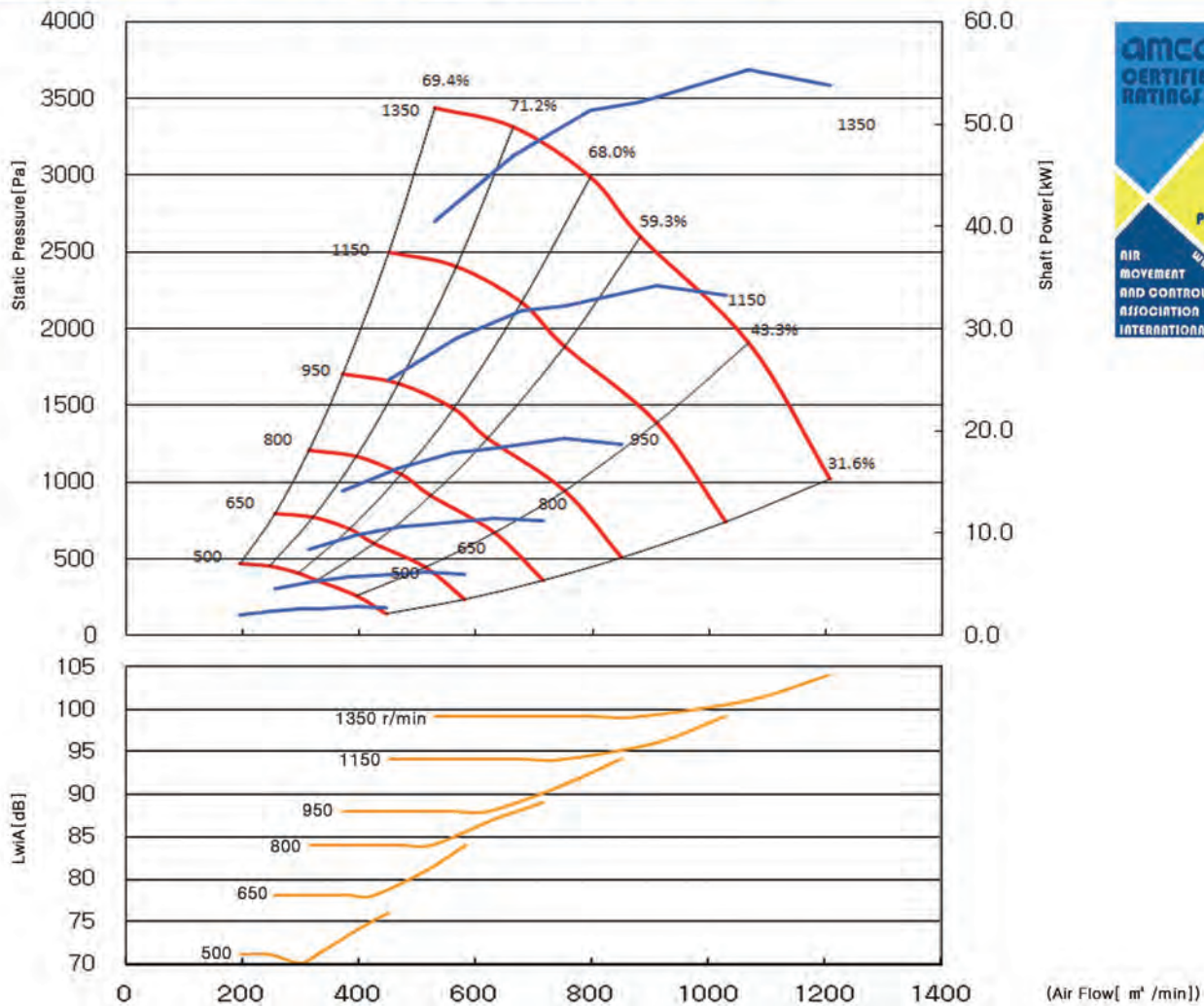
AIR PERFORMANCE AND SOUND DATA - DLAF #6.5SS



Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwIA [dB]	Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwIA [dB]
1	600	111	365.6	2.017	33.4	78	1	750	173	457.0	3.940	33.4	84
2		190	326.1	2.073	49.7	77	2		297	407.7	4.049	49.7	83
3		300	288.1	2.155	66.5	76	3		468	360.1	4.209	66.5	82
4		411	245.9	2.155	77.6	75	4		641	307.3	4.208	77.6	81
5		480	203.5	2.031	79.7	74	5		750	254.4	3.967	79.7	80
6		507	166.4	1.835	76.0	75	6		791	208.0	3.585	76.0	81
1	850	222	517.9	5.735	33.4	88	1	1050	339	639.8	10.810	33.4	93
2		381	462.0	5.894	49.7	87	2		581	570.7	11.110	49.7	92
3		602	408.1	6.127	66.5	85	3		918	504.1	11.549	66.5	91
4		824	348.3	6.126	77.6	84	4		1257	430.3	11.548	77.6	90
5		964	288.4	5.775	79.7	83	5		1471	356.2	10.886	79.7	89
6		1017	235.8	5.218	76.0	84	6		1551	291.2	9.836	76.0	90
1	1300	519	792.1	20.516	33.4	99	1	1450	646	883.5	28.469	33.4	102
2		891	706.6	21.085	49.7	98	2		1109	788.1	29.258	49.7	101
3		1407	624.1	21.918	66.5	96	3		1751	696.2	30.414	66.5	99
4		1927	532.7	21.916	77.6	95	4		2398	594.2	30.412	77.6	98
5		2255	441.0	20.660	79.7	95	5		2805	491.9	28.668	79.7	98
6		2378	360.6	18.668	76.0	96	6		2958	402.2	25.904	76.0	99
1	-	-	-	-	-	-	1	-	-	-	-	-	-
2	-	-	-	-	-	-	2	-	-	-	-	-	-
3	-	-	-	-	-	-	3	-	-	-	-	-	-
4	-	-	-	-	-	-	4	-	-	-	-	-	-
5	-	-	-	-	-	-	5	-	-	-	-	-	-
6	-	-	-	-	-	-	6	-	-	-	-	-	-

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet. Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances(accessories)
- Power rating (KW) does not include transmission losses
- Values shown are for (inlet LwIA) sound power levels for installation Type B : free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.

AIR PERFORMANCE AND SOUND DATA - DLAF #7SS

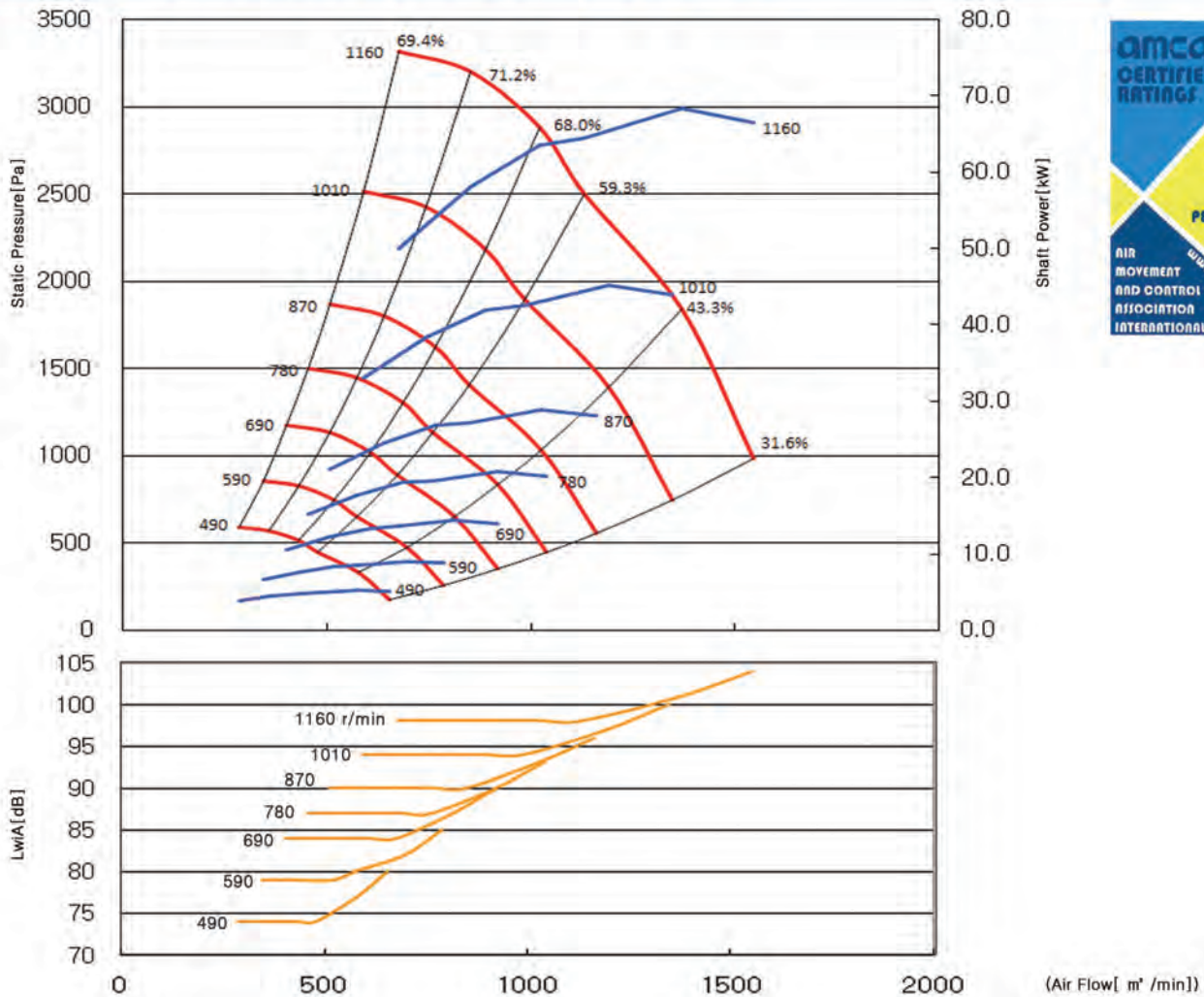


Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwiA [dB]	Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwiA [dB]
1	500	140	447.0	2.730	38.2	76	1	650	237	581.1	5.997	38.2	84
2		262	395.7	2.808	61.3	74	2		442	514.4	6.169	61.3	81
3		356	327.0	2.647	73.0	71	3		601	425.1	5.817	73.0	78
4		410	295.5	2.610	77.0	70	4		692	384.1	5.734	77.0	78
5		455	246.5	2.384	78.1	71	5		769	320.4	5.237	78.1	78
6		472	196.1	2.055	74.7	71	6		797	255.0	4.515	74.7	78
1	800	359	715.2	11.181	38.2	89	1	950	506	849.3	18.723	38.2	94
2		670	633.1	11.501	61.3	87	2		944	751.8	19.259	61.3	91
3		911	523.2	10.844	73.0	84	3		1285	621.3	18.159	73.0	88
4		1049	472.8	10.690	77.0	84	4		1479	561.4	17.900	77.0	88
5		1164	394.4	9.763	78.1	84	5		1642	468.3	16.349	78.1	88
6		1207	313.8	8.418	74.7	84	6		1703	372.7	14.096	74.7	88
1	1150	742	1028.1	33.213	38.2	99	1	1350	1022	1206.9	53.730	38.2	104
2		1384	910.1	34.163	61.3	96	2		1907	1068.4	55.267	61.3	101
3		1882	752.1	32.212	73.0	94	3		2594	882.9	52.111	73.0	99
4		2167	679.6	31.753	77.0	94	4		2986	797.8	51.368	77.0	99
5		2406	566.9	29.001	78.1	94	5		3316	665.5	46.916	78.1	99
6		2495	451.1	25.004	74.7	94	6		3438	529.6	40.450	74.7	99
1	-	-	-	-	-	-	1	-	-	-	-	-	-
2	-	-	-	-	-	-	2	-	-	-	-	-	-
3	-	-	-	-	-	-	3	-	-	-	-	-	-
4	-	-	-	-	-	-	4	-	-	-	-	-	-
5	-	-	-	-	-	-	5	-	-	-	-	-	-
6	-	-	-	-	-	-	6	-	-	-	-	-	-

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet, Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances (accessories)
- Power rating (KW) does not include transmission losses
- Values shown are for (inlet LwiA) sound power levels for installation Type B : free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.

SINGLE SUCTION

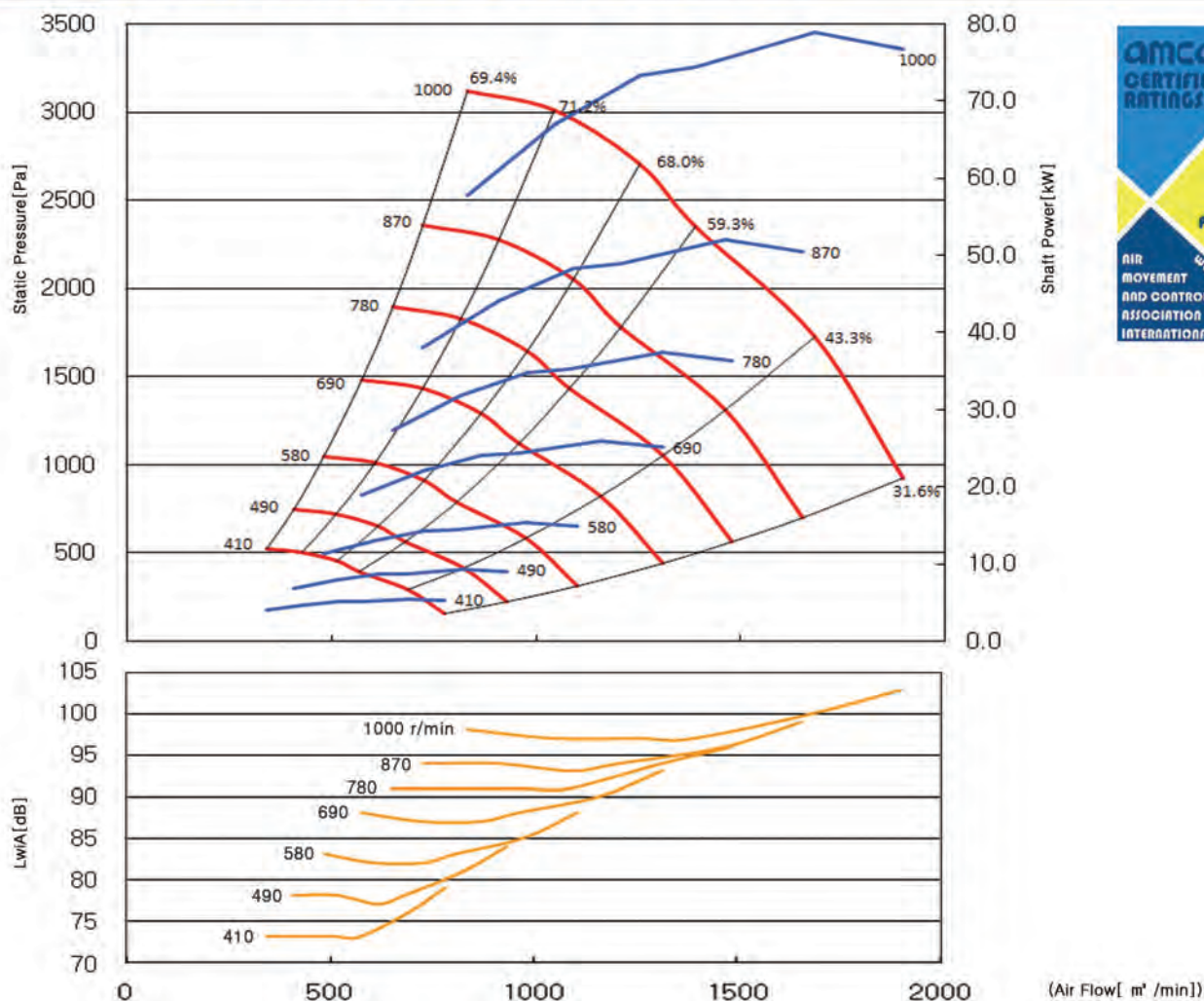
AIR PERFORMANCE AND SOUND DATA - DLAF #8SS



Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwiA [dB]	Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwiA [dB]
1	490	176	653.9	5.009	38.2	80	1	590	255	787.3	8.744	38.2	85
2		328	578.9	5.152	61.3	77	2		476	697.0	8.995	61.3	82
3		446	478.4	4.858	73.0	74	3		647	576.0	8.481	73.0	80
4		514	432.2	4.789	77.0	74	4		745	520.4	8.360	77.0	79
5		571	360.6	4.374	78.1	74	5		827	434.2	7.635	78.1	79
6		592	286.9	3.771	74.7	74	6		858	345.5	6.583	74.7	79
1	690	349	920.8	13.987	38.2	90	1	780	446	1040.9	20.205	38.2	93
2		651	815.1	14.387	61.3	87	2		831	921.5	20.783	61.3	90
3		885	673.6	13.565	73.0	84	3		1131	761.5	19.596	73.0	87
4		1019	608.7	13.372	77.0	84	4		1302	688.0	19.317	77.0	87
5		1131	507.8	12.213	78.1	84	5		1446	574.0	17.643	78.1	87
6		1173	404.0	10.530	74.7	84	6		1499	456.7	15.211	74.7	87
1	870	554	1161.0	28.037	38.2	96	1	1010	747.9	1347.8	43.867	38.2	100
2		1034	1027.8	28.839	61.3	93	2		1394	1193.2	45.122	61.3	97
3		1407	849.3	27.192	73.0	90	3		1896	986.0	42.545	73.0	94
4		1620	767.4	26.805	77.0	90	4		2183	890.9	41.939	77.0	94
5		1799	640.2	24.481	78.1	90	5		2424	743.2	38.304	78.1	94
6		1865	509.4	21.107	74.7	90	6		2513	591.4	33.025	74.7	94
1	1160	986	1548.0	66.458	38.2	104	1	-	-	-	-	-	-
2		1839	1370.4	68.359	61.3	101	2	-	-	-	-	-	-
3		2501	1132.4	64.455	73.0	98	3	-	-	-	-	-	-
4		2879	1023.2	63.537	77.0	98	4	-	-	-	-	-	-
5		3198	853.6	58.030	78.1	98	5	-	-	-	-	-	-
6		3315	679.2	50.032	74.7	98	6	-	-	-	-	-	-

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet, Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances(accessories)
- Power rating (KW) does not include transmission losses
- Values shown are for(inlet LwiA) sound power levels for installation Type B : free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Total Efficiency is not AMCA Licensed.

AIR PERFORMANCE AND SOUND DATA - DLAF #9SS

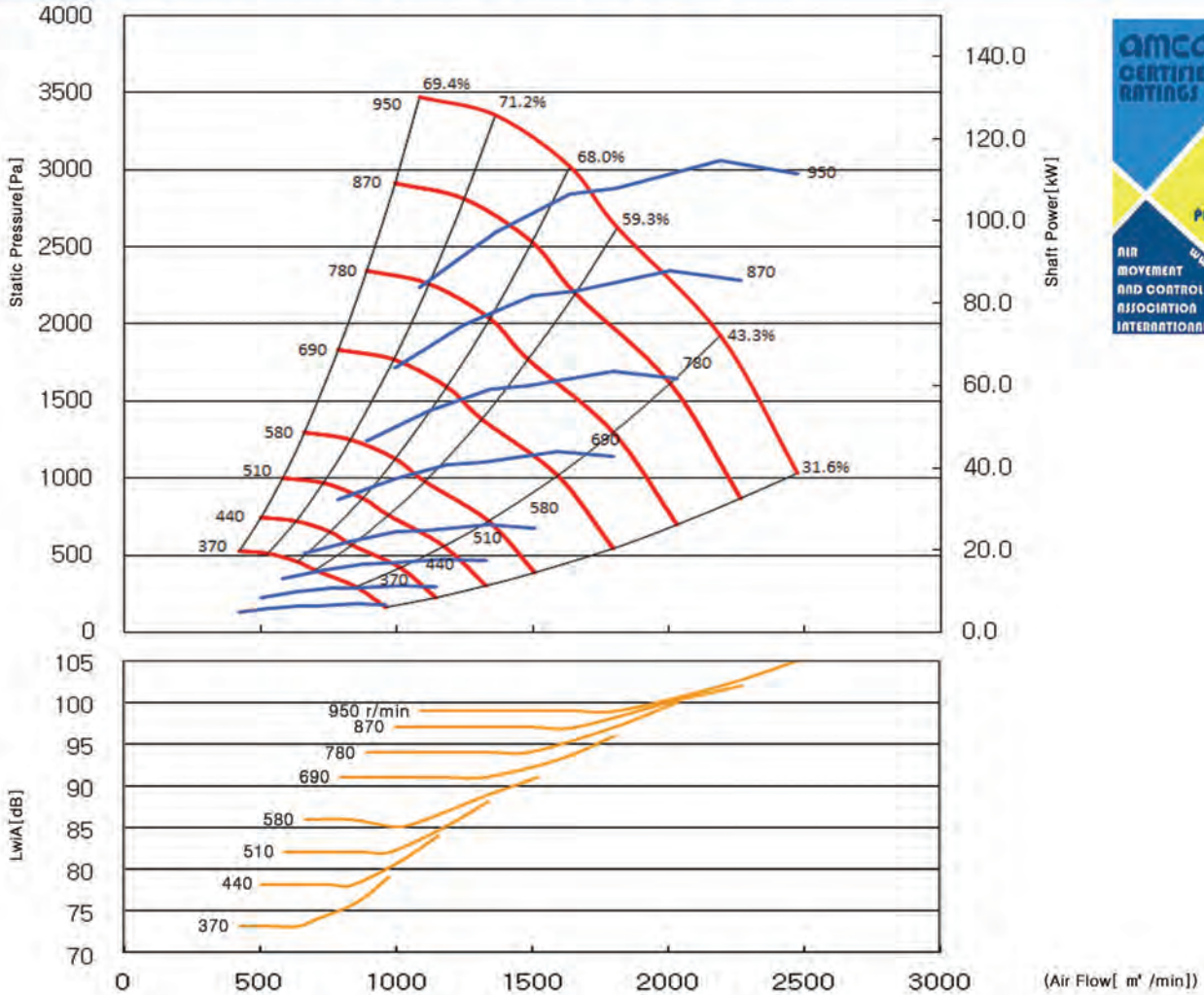


Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwIA [dB]	Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwIA [dB]
1	410	156	779.0	5.288	38.2	79	1	490	223	931.0	9.027	38.2	84
2		291	689.6	5.439	61.3	76	2		415	824.2	9.285	61.3	81
3		396	569.9	5.129	73.0	73	3		565	681.1	8.755	73.0	78
4		455	514.9	5.056	77.0	73	4		650	615.4	8.630	77.0	77
5		506	429.6	4.617	78.1	73	5		722	513.4	7.882	78.1	78
6		524	341.8	3.981	74.7	73	6		749	408.5	6.796	74.7	78
1	580	312	1102.0	14.970	38.2	88	1	441	1311.0	25.205	38.2	93	
2		582	975.6	15.398	61.3	85	2	823	1160.6	25.926	61.3	90	
3		791	806.2	14.519	73.0	83	3	1120	959.1	24.445	73.0	88	
4		911	728.5	14.312	77.0	82	4	1289	866.6	24.097	77.0	87	
5		1012	607.7	13.072	78.1	82	5	1432	723.0	22.008	78.1	87	
6		1049	483.6	11.270	74.7	83	6	1485	575.3	18.975	74.7	88	
1	780	564	1482.0	36.410	38.2	96	1	702	1653.0	50.524	38.2	99	
2		1052	1312.0	37.451	61.3	94	2	1309	1463.4	51.969	61.3	96	
3		1431	1084.2	35.313	73.0	91	3	1781	1209.3	49.001	73.0	94	
4		1648	979.6	34.809	77.0	91	4	2050	1092.7	48.303	77.0	93	
5		1830	817.3	31.793	78.1	91	5	2276	911.6	44.116	78.1	94	
6		1897	650.3	27.411	74.7	91	6	2360	725.3	38.036	74.7	94	
1	1000	927	1900.0	76.725	38.2	103	1	-	-	-	-	-	-
2		1729	1682.1	78.920	61.3	100	2	-	-	-	-	-	-
3		2353	1390.0	74.413	73.0	97	3	-	-	-	-	-	-
4		2708	1256.0	73.352	77.0	97	4	-	-	-	-	-	-
5		3008	1047.8	66.995	78.1	97	5	-	-	-	-	-	-
6		3118	833.7	57.761	74.7	98	6	-	-	-	-	-	-

- Efficiency ratings are fan static (or fan total) and include (or exclude) bearing and or Power Transmission Losses.
- Performance certified is for installation type B - Free inlet, Ducted outlet, Rating Method "A" (Constant Speed, Transmission Loss Not Included)
- Performance ratings do not include the effects of appurtenances (accessories)
- Power rating (KW) does not include transmission losses
- Values shown are for (inlet LwIA) sound power levels for installation Type B: free inlet, ducted outlet The A-weighted sound ratings shown have been calculated per AMCA standard 301.
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SINGLE SUCTION

AIR PERFORMANCE AND SOUND DATA - DLAF #10SS

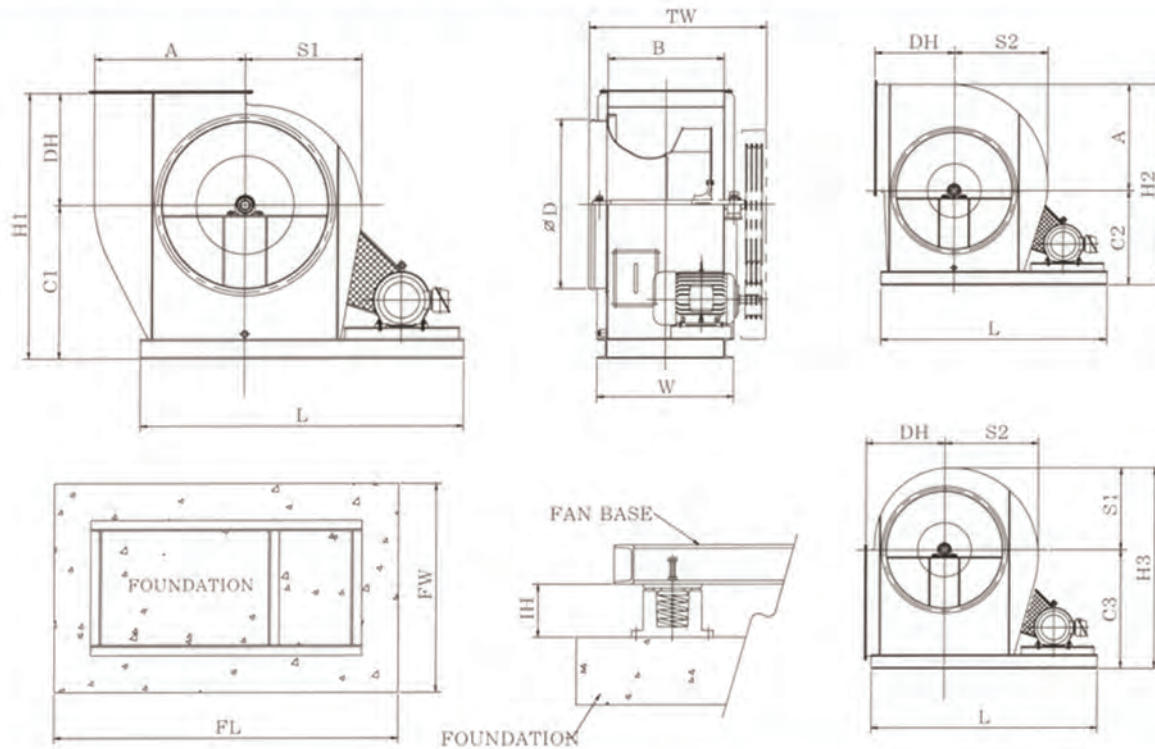


Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]	Det.	N [r/min]	Ps [Pa]	Q [m³/min]	H [Kw]	etas [%]	LwA [dB]
1	370	157	964.3	6.582	38.2	79	1	440	222	1146.8	11.068	38.2	84
2		292	853.7	6.770	61.3	76	2		413	1015.2	11.385	61.3	81
3		398	705.5	6.383	73.0	74	3		562	839.0	10.735	73.0	78
4		458	637.5	6.292	77.0	73	4		647	758.1	10.582	77.0	78
5		508	531.8	5.747	78.1	73	5		719	632.4	9.665	78.1	78
6		527	423.2	4.955	74.7	73	6		745	503.2	8.333	74.7	78
1	510	298	1329.2	17.236	38.2	88	1	580	385	1511.7	25.352	38.2	91
2		555	1176.7	17.729	61.3	85	2		718	1338.3	26.077	61.3	89
3		756	972.4	16.716	73.0	82	3		977	1105.9	24.588	73.0	86
4		870	878.7	16.478	77.0	82	4		1125	999.3	24.237	77.0	85
5		966	733.0	15.050	78.1	82	5		1249	833.6	22.137	78.1	86
6		1001	583.3	12.976	74.7	82	6		1295	663.3	19.086	74.7	86
1	690	545	1798.4	42.685	38.2	96	1	780	696	2032.9	61.661	38.2	100
2		1016	1592.1	43.906	61.3	93	2		1299	1799.7	63.424	61.3	97
3		1383	1315.6	41.398	73.0	91	3		1767	1487.2	59.802	73.0	94
4		1592	1188.8	40.808	77.0	91	4		2034	1343.8	58.950	77.0	94
5		1768	991.7	37.271	78.1	91	5		2259	1121.1	53.841	78.1	94
6		1833	789.1	32.135	74.7	91	6		2342	892.1	46.420	74.7	94
1	870	866	2267.5	85.562	38.2	102	1	950	1033	2476.0	114.403	38.2	105
2		1616	2007.4	88.010	61.3	100	2		1927	2192.0	114.589	61.3	102
3		2199	1658.8	82.983	73.0	97	3		2621	1811.4	108.045	73.0	99
4		2531	1498.9	81.801	77.0	97	4		3018	1636.7	106.505	77.0	99
5		2810	1250.4	74.711	78.1	97	5		3351	1365.4	97.275	78.1	99
6		2914	995.0	64.414	74.7	97	6		3475	1086.5	83.868	74.7	99

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SINGLE SUCTION

OVERALL DIMENSION - "DLAF" SERIES



MODEL		#3	#3.5	#4	#4.5	#5	#5.5	#6	#6.5	#7	#8	#9	#10
Inlet	D	470	550	620	700	780	850	930	1000	1100	1250	1400	1550
	A	450	525	600	675	750	825	900	975	1030	1177	1324	1471
Outlet	B	320	373	427	480	530	583	636	689	740	846	951	1057
	L	1050	1150	1300	1400	1600	1650	1800	1900	2000	2200	2400	2600
BASE	W	400	453	507	560	610	663	716	789	840	946	1081	1187
	H1	785	875	1015	1145	1295	1410	1535	1630	1725	2035	2280	2505
Total Height	H2	845	965	1105	1230	1390	1520	1660	1740	1830	2160	2470	2765
	H3	900	985	1115	1255	1414	1565	1685	1810	1931	2260	2495	2800
Center Height	C1	435	495	555	625	715	770	835	875	915	1095	1320	1455
	C2	395	440	505	555	640	695	750	790	830	1060	1100	1240
	C3	540	568	655	730	827	930	985	1070	1160	1330	1485	1640
Width	TW	543	638	678	713	777	882	995	1100	1202	1345	1600	1760
	DH	350	400	460	520	580	640	700	755	810	940	960	1050
Casing	S1	360	417	466	525	587	635	700	710	720	932	1010	1125
	S2	404	467	525	588	650	720	785	830	870	1050	1180	1300
Fan Pad	FL	1350	1450	1600	1700	1900	1950	2100	2200	2300	2500	2700	2900
Isolator	FW	700	753	807	860	910	963	1016	1089	1140	1246	1381	1487
	IH	110	110	110	135	135	135	135	135	135	135	145	145



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