



# FAN & BLOWER

## CENTRIFUGAL FANS

Sirocco Fan Double Suction / "SWSFD" Series

'March 2021

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(주)서원에어테크는 공조용 송풍기, 산업용 송풍기, 주차장 환기시스템 제조업체로서 보다 체계화된 품질관리, 제품연구개발, 표준화 작업을 통해 고객여러분이 만족할수 있는 제품과 서비스를 제공하기 위해 노력하고 있습니다.

이에 명실상부한 송풍기(FAN)전문 메이커로서 정상에 우뚝 서고자 심혈을 기울여 최선을 다 할 것을 우리 임직원 일동은 약속드립니다.

(주)서원에어테크의 제품 및 서비스

01. 다양한 모델라인을 구축함으로써 고객이 요구가흔 모든 사양조건에 적합한 제품을 공급할 수 있습니다.
02. 고객이 요구하는 성능과 기능을 만족시키기 위해 항상 제품연구개발에 노력하여 발전하고 변화하는 제품을 생산합니다.
03. 철저한 사내품질 관리시스템을 통해 제품 품질에 만전을 기하고 있습니다.
04. 환기설계, 최적사양 및 장비선정 등 기술서비스를 제공합니다.



(주)서원에어테크가 획득한 SWAF SERIES AIRFOIL FAN 의 AMCA seal에 대한 내용입니다.

등급표시는 AMCA 211과 AMCA 311에 의거 테스트 및 절차에 따른 것이며, AMCA 보증프로그램의 요구사항과 일치합니다.

SeoWonAIRRTECH certifies that the type "SWSF" Sirocco Fans shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

# Sirocco Fans

## 대풍량(Large Air Volume)

같은 주속도의 다른 Fan 보단 많은 풍량을 낼수 있으며, 10~80mmAq의 압력에 적합합니다.

## 저소음(Low Level Sound)

동일용량에 대하여 다른 형식에 비해 회전수가 상당히 적어 정숙한 운전이 가능합니다.

## 설치공간(Small Space)

타 원심식 송풍기와 비교하여 동일 용량에 대한 크기가 가장 작으므로 설치 면적이 작습니다.

## 성능특성(Special Performance)

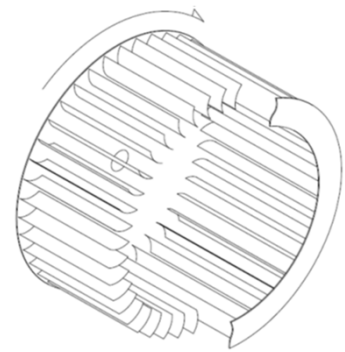
특성 곡선 상의 정압곡선이 다른 원심송풍기에 비하여 완만하기 때문에 풍량변동에 따른 풍압의 변화가 적다. 따라서 여러 개의 급, 배기구에서 급, 배기할 경우 그 일부를 패쇄하여도 큰 영향을 받지 않습니다.

## 저렴한 가격(Low Price)

다른 원심 송풍기에 비하여 가격이 저렴합니다.

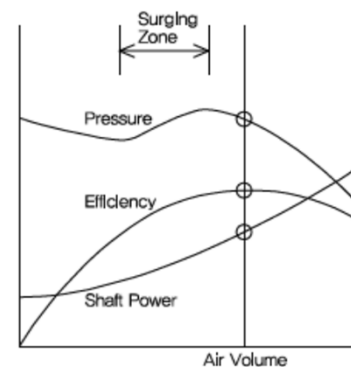
## Structure of Impeller

익현길이가 짧으며 날개폭이 넓고 날개익수가 많습니다. 날개의 끝부분이 회전방향으로 굽은 적곡형(Forward Curve) 구조입니다.



## Characteristic Curve

다른형식의 송풍기에 비해 낮은 속도에서 운전 되며, 낮은 압력에서 많은 공기량이 요구될 때 주로 사용됩니다.



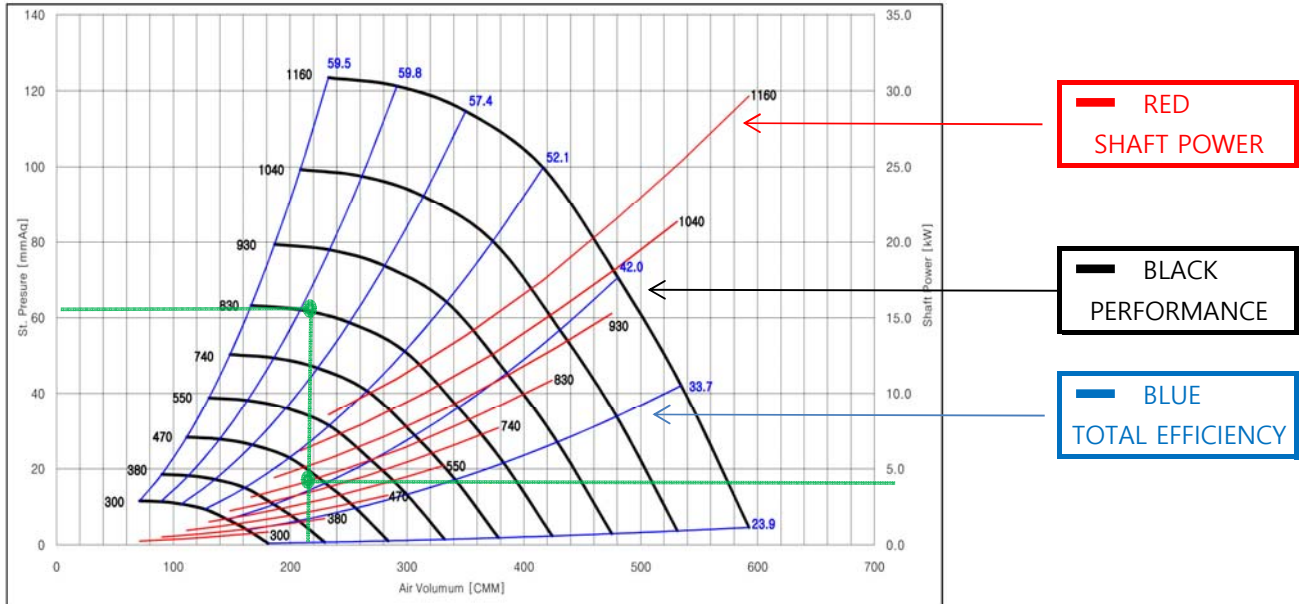
\*Surging : 풍량이 감소하면서 압력이 감소하고, 압력의 감소로 또다시 풍량이 감소하는 불안정한 운전상태

## FAN SELECT METHOD

### a. FAN 선정방법 예제 (Select Method Example)

ex)

AIR VOLUME	STATIC PRESSURE	FAN SPEED	TOTAL EFFICIENCY	SHAFT POWER	SOUND
208 CMM	63 mmAq	830 rpm	59.7%	4.02 kW	



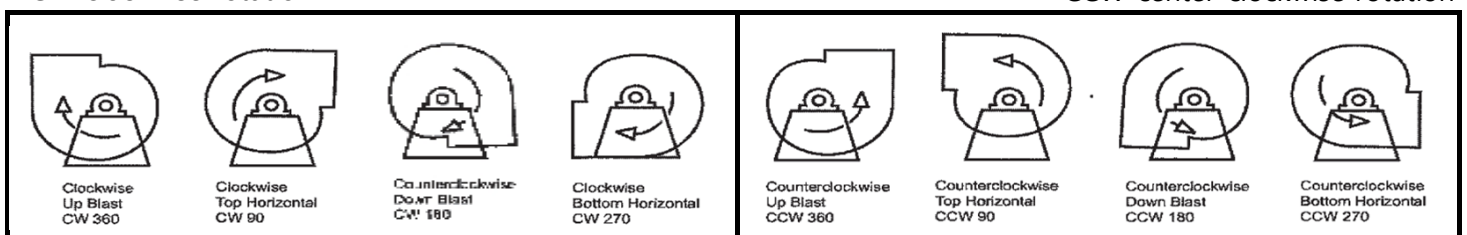
### b. FAN 회전과 토출방향 (Fan Rotation and Discharge)

FAN의 회전과 토출방향은 AMCA표준 99-2406-03을 기준으로 합니다.

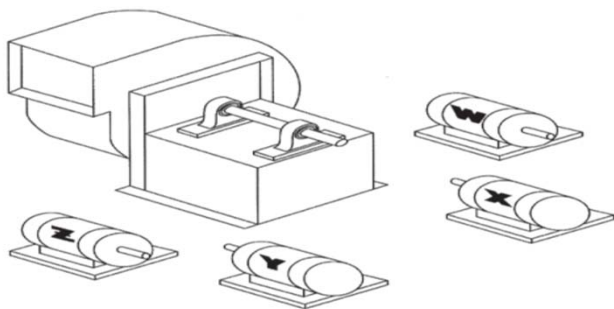
회전방향은 FAN의 구동측으로 부터 결정됩니다.

CW-clockwise rotation

CCW-center-clockwise rotation



### c. 모터 위치 (Motor Position)

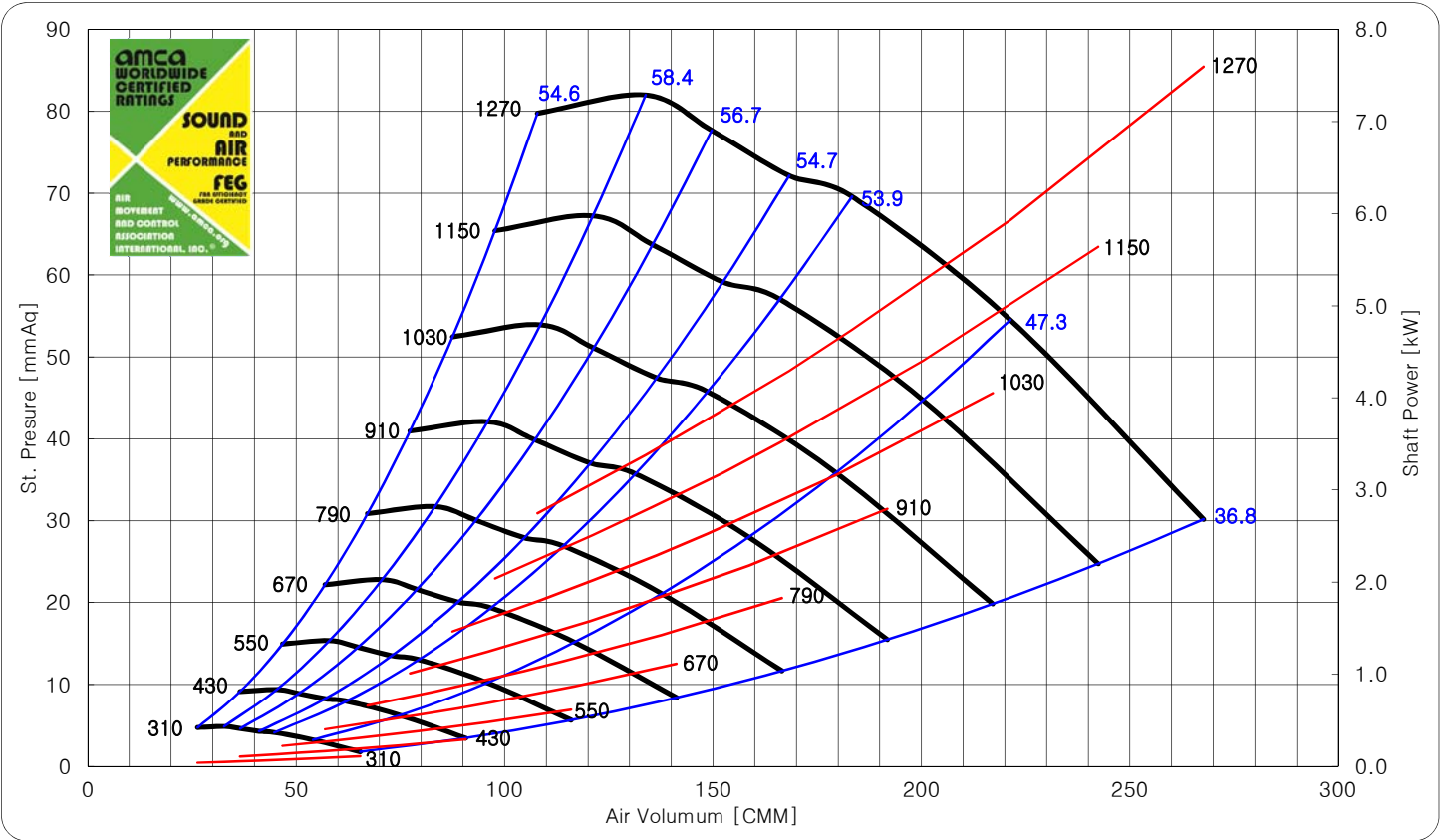


벨트구동 원심형 FAN의 모터방향은 AMCA 표준 99-2407-03을 기준으로 합니다.

모터의 위치는 FAN의 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.

PERFORMANCE CURVES AND SOUND DATA - SWSF #2.5DS\_FEG60

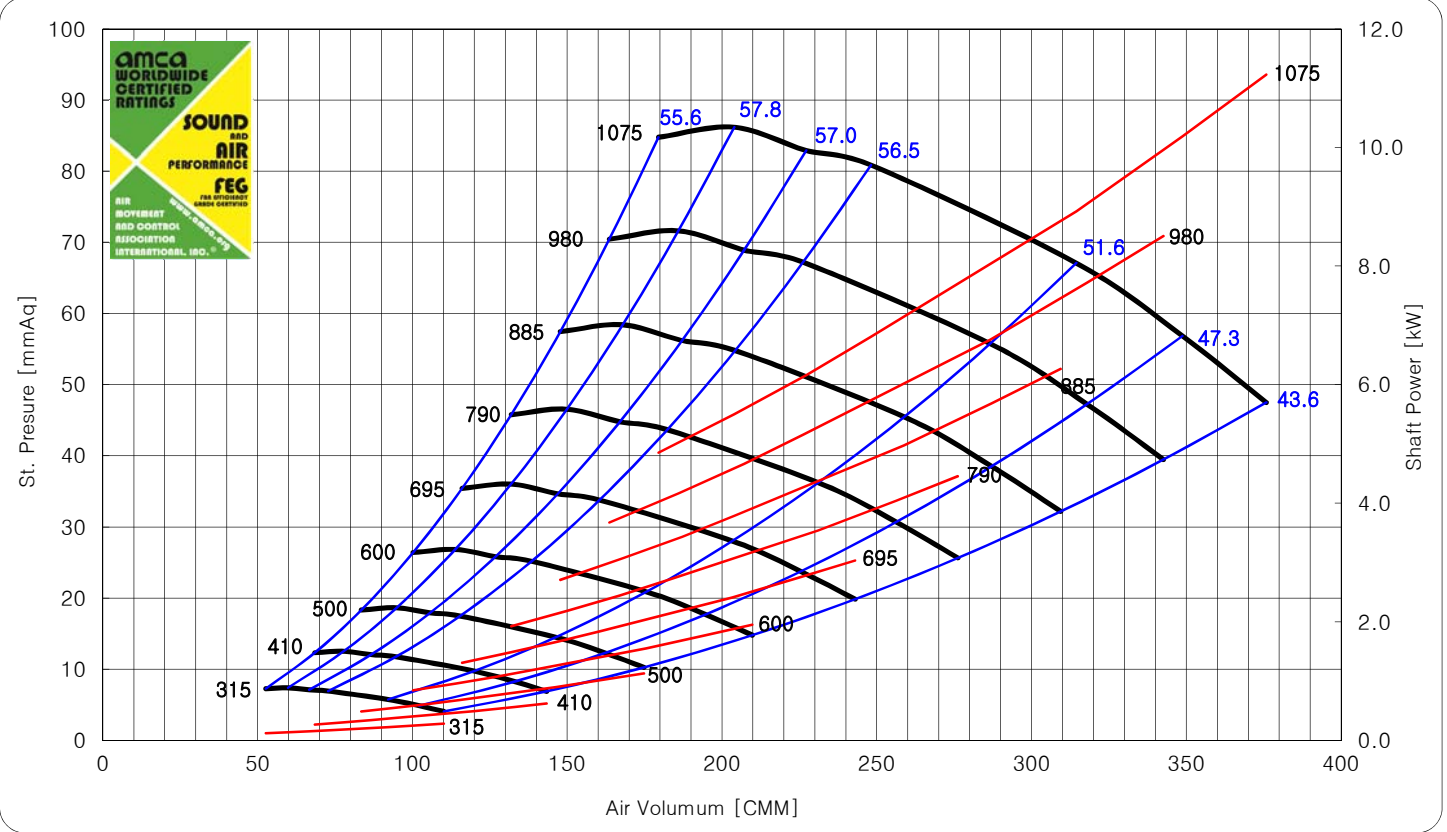


310	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	430	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	550	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	65.34	1.80	0.11	36.79	62	1	90.63	3.46	0.29	36.79	70	1	115.92	5.66	0.62	36.79	76
2	54.02	3.25	0.09	47.27	59	2	74.93	6.25	0.23	47.27	67	2	95.84	10.23	0.48	47.27	73
3	44.75	4.15	0.07	53.91	56	3	62.07	7.98	0.18	53.91	64	3	79.39	13.05	0.38	53.91	70
4	41.07	4.30	0.06	54.66	55	4	56.97	8.27	0.17	54.66	63	4	72.87	13.53	0.35	54.66	69
5	36.53	4.63	0.06	56.73	54	5	50.67	8.91	0.15	56.73	62	5	64.81	14.57	0.31	56.73	68
6	32.67	4.89	0.05	58.38	52	6	45.32	9.40	0.13	58.38	60	6	57.96	15.38	0.27	58.38	67
7	26.33	4.75	0.04	54.60	53	7	36.52	9.15	0.11	54.60	61	7	46.71	14.96	0.22	54.60	67
670	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	790	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	910	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	141.21	8.40	1.12	36.79	81	1	166.50	11.68	1.83	36.79	85	1	191.79	15.50	2.79	36.79	89
2	116.75	15.18	0.87	47.27	77	2	137.66	21.11	1.43	47.27	81	2	158.57	28.00	2.18	47.27	85
3	96.72	19.37	0.70	53.91	75	3	114.04	26.93	1.14	53.91	79	3	131.36	35.73	1.74	53.91	82
4	88.77	20.08	0.63	54.66	74	4	104.67	27.91	1.03	54.66	78	4	120.57	37.03	1.58	54.66	82
5	78.95	21.62	0.56	56.73	73	5	93.08	30.06	0.91	56.73	77	5	107.22	39.88	1.40	56.73	81
6	70.61	22.82	0.50	58.38	72	6	83.26	31.73	0.81	58.38	76	6	95.90	42.10	1.24	58.38	80
7	56.90	22.20	0.40	54.60	72	7	67.09	30.87	0.66	54.60	77	7	77.28	40.96	1.01	54.60	80
1030	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	1150	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	1270	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	217.08	19.85	4.05	36.79	92	1	242.38	24.75	5.64	36.79	94	1	267.67	30.19	7.60	36.79	97
2	179.48	35.88	3.16	47.27	88	2	200.39	44.72	4.40	47.27	91	2	221.30	54.54	5.93	47.27	93
3	148.68	45.77	2.53	53.91	86	3	166.01	57.06	3.52	53.91	88	3	183.33	69.59	4.74	53.91	91
4	136.47	47.45	2.29	54.66	85	4	152.37	59.15	3.19	54.66	88	4	168.27	72.13	4.29	54.66	91
5	121.36	51.10	2.03	56.73	84	5	135.50	63.70	2.82	56.73	87	5	149.64	77.68	3.80	56.73	90
6	108.55	53.94	1.80	58.38	83	6	121.20	67.24	2.51	58.38	86	6	133.85	82.01	3.38	58.38	89
7	87.47	52.47	1.47	54.60	84	7	97.66	65.41	2.04	54.60	87	7	107.85	79.77	2.75	54.60	89

\* Performance certified is for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses. Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.

PERFORMANCE CURVES AND SOUND DATA - SWSF #3DS\_FEG60



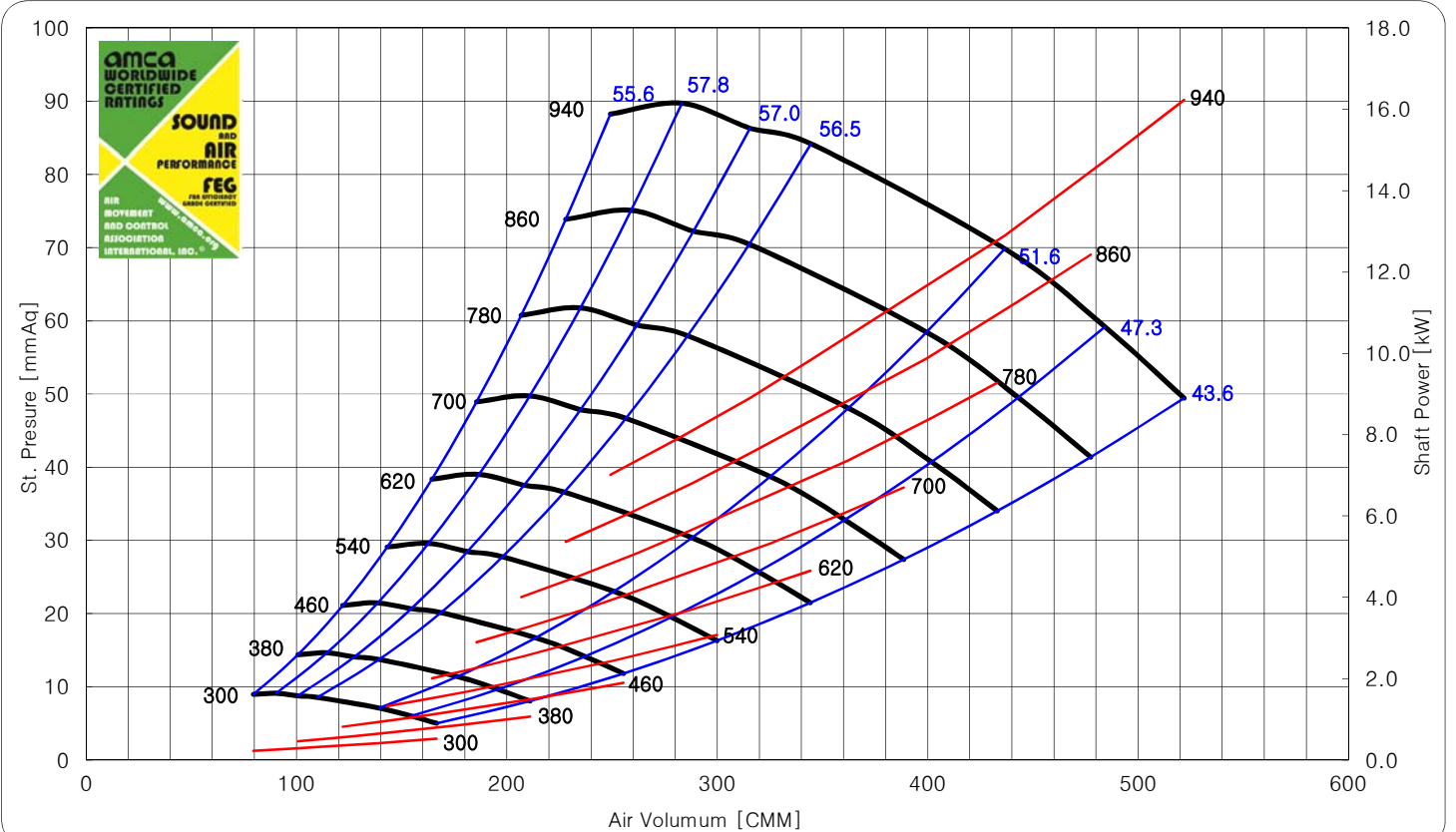
315	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	410	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	500	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	110.13	4.08	0.28	43.58	69	1	143.35	6.91	0.62	43.58	75	1	174.82	10.28	1.13	43.58	80
2	102.19	4.88	0.26	47.27	67	2	133.01	8.27	0.57	47.27	74	2	162.21	12.30	1.03	47.27	79
3	92.15	5.76	0.22	51.57	66	3	119.94	9.76	0.50	51.57	72	3	146.26	14.52	0.90	51.57	77
4	72.71	6.95	0.171	56.46	63	4	94.63	11.77	0.38	56.46	70	4	115.41	17.50	0.68	56.46	74
5	66.58	7.12	0.16	56.99	63	5	86.66	12.06	0.34	56.99	69	5	105.68	17.94	0.62	56.99	74
6	59.76	7.40	0.14	57.84	62	6	77.78	12.54	0.31	57.84	69	6	94.86	18.65	0.55	57.84	73
7	52.59	7.28	0.12	55.59	63	7	68.45	12.33	0.27	55.59	69	7	83.47	18.34	0.49	55.59	73
600	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	695	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	790	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	209.8	14.80	1.95	43.58	85	1	242.99	19.86	3.03	43.58	88	1	276.21	25.66	4.46	43.58	91
2	194.6	17.71	1.77	47.27	83	2	225.47	23.76	2.75	47.27	87	2	256.29	30.70	4.04	47.27	90
3	175.5	20.90	1.55	51.57	81	3	203.31	28.05	2.41	51.57	85	3	231.10	36.24	3.54	51.57	88
4	138.5	25.20	1.18	56.46	79	4	160.42	33.81	1.84	56.46	82	4	182.34	43.68	2.70	56.46	86
5	126.8	25.83	1.07	56.99	78	5	146.90	34.66	1.66	56.99	82	5	166.98	44.78	2.45	56.99	85
6	113.8	26.86	0.96	57.84	77	6	131.85	36.03	1.49	57.84	81	6	149.87	46.56	2.18	57.84	84
7	100.2	26.41	0.84	55.59	78	7	116.02	35.44	1.31	55.59	81	7	131.88	45.79	1.93	55.59	85
885	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	980	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	1075	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	309.42	32.20	6.27	43.58	94	1	342.64	39.48	8.51	43.58	97	1	375.85	47.50	11.23	43.58	99
2	287.11	38.53	5.69	47.27	93	2	317.93	47.25	7.72	47.27	95	2	348.75	56.85	10.19	47.27	98
3	258.89	45.48	4.98	51.57	91	3	286.68	55.77	6.76	51.57	94	3	314.46	67.11	8.92	51.57	96
4	204.27	54.82	3.80	56.46	89	4	226.20	67.22	5.16	56.46	91	4	248.13	80.89	6.81	56.46	94
5	187.06	56.20	3.44	56.99	88	5	207.14	68.92	4.67	56.99	91	5	227.21	82.93	6.16	56.99	93
6	167.90	58.43	3.07	57.84	87	6	185.92	71.64	4.17	57.84	90	6	203.94	86.21	5.51	57.84	93
7	147.74	57.46	2.71	55.59	88	7	163.60	70.46	3.68	55.59	90	7	179.46	84.79	4.85	55.59	93

\* Performance certified is for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses. Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.



# PERFORMANCE CURVES AND SOUND DATA - SWSF #3.5DS\_FEG60



300	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	380	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	460	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	166.56	5.04	0.53	43.58	72	1	210.98	8.08	1.07	43.58	78	1	255.39	11.84	1.90	43.58	83
2	154.55	6.03	0.48	47.27	71	2	195.76	9.67	0.97	47.27	77	2	236.97	14.17	1.73	47.27	81
3	139.36	7.11	0.42	51.57	69	3	176.52	11.41	0.85	51.57	75	3	213.68	16.72	1.51	51.57	80
4	109.96	8.57	0.32	56.46	67	4	139.28	13.76	0.65	56.46	72	4	168.60	20.16	1.15	56.46	77
5	100.69	8.79	0.29	56.99	66	5	127.54	14.10	0.59	56.99	72	5	154.39	20.67	1.04	56.99	77
6	90.38	9.14	0.26	57.84	66	6	114.48	14.66	0.53	57.84	71	6	138.58	21.49	0.93	57.84	76
7	79.53	8.99	0.23	55.59	66	7	100.74	14.42	0.46	55.59	72	7	121.94	21.13	0.82	55.59	76
540	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	620	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	700	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	299.81	16.32	3.08	43.58	87	1	344.22	21.51	4.66	43.58	90	1	388.64	27.42	6.70	43.58	93
2	278.19	19.53	2.79	47.27	85	2	319.40	25.74	4.23	47.27	89	2	360.61	32.81	6.08	47.27	92
3	250.84	23.05	2.44	51.57	83	3	288.00	30.38	3.70	51.57	87	3	325.16	38.73	5.33	51.57	90
4	197.92	27.78	1.87	56.46	81	4	227.25	36.62	2.82	56.46	84	4	256.57	46.68	4.06	56.46	87
5	181.24	28.48	1.69	56.99	80	5	208.09	37.54	2.55	56.99	84	5	234.95	47.86	3.68	56.99	87
6	162.68	29.61	1.51	57.84	80	6	186.78	39.03	2.28	57.84	83	6	210.88	49.75	3.29	57.84	86
7	143.15	29.12	1.33	55.59	80	7	164.36	38.39	2.01	55.59	83	7	185.57	48.93	2.90	55.59	86
780	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	860	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	940	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	433.06	34.04	9.27	43.58	96	1	477.47	41.38	12.43	43.58	98	1	521.89	49.44	16.23	43.58	100
2	401.83	40.74	8.41	47.27	94	2	443.04	49.53	11.28	47.27	97	2	484.25	59.17	14.73	47.27	99
3	362.33	48.09	7.37	51.57	93	3	399.49	58.46	9.87	51.57	95	3	436.65	69.84	12.90	51.57	97
4	285.89	57.96	5.62	56.46	90	4	315.21	70.46	7.53	56.46	92	4	344.53	84.18	9.84	56.46	95
5	261.80	59.42	5.09	56.99	89	5	288.65	72.24	6.82	56.99	92	5	315.50	86.30	8.90	56.99	94
6	234.98	61.77	4.55	57.84	89	6	259.08	75.10	6.09	57.84	91	6	283.18	89.72	7.96	57.84	94
7	206.77	60.76	4.01	55.59	89	7	227.98	73.86	5.37	55.59	92	7	249.19	88.24	7.01	55.59	94

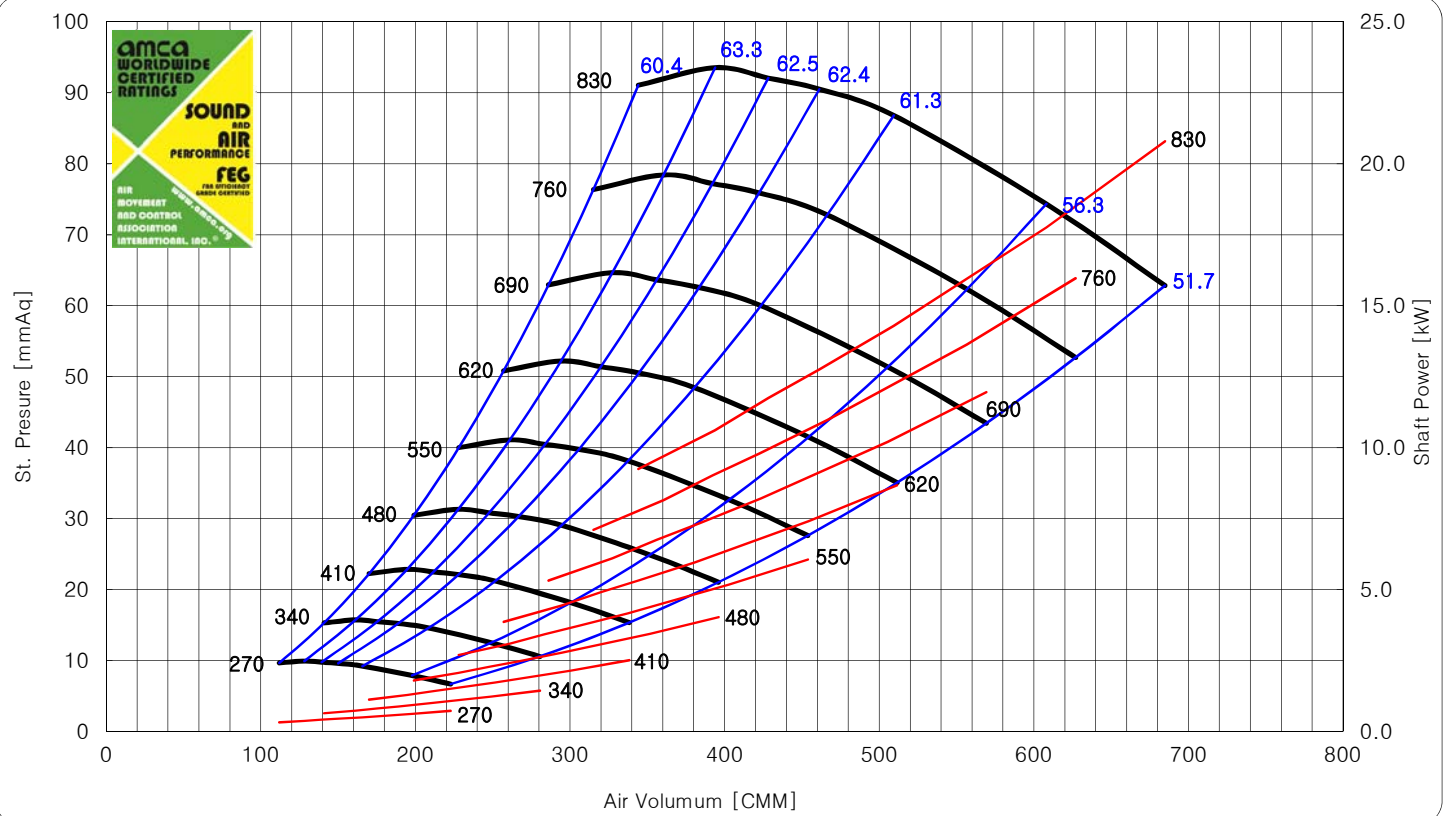
\* Performance certified is for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses.

Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet L<sub>wA</sub> sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.



PERFORMANCE CURVES AND SOUND DATA - SWSF #4DS\_FEG67

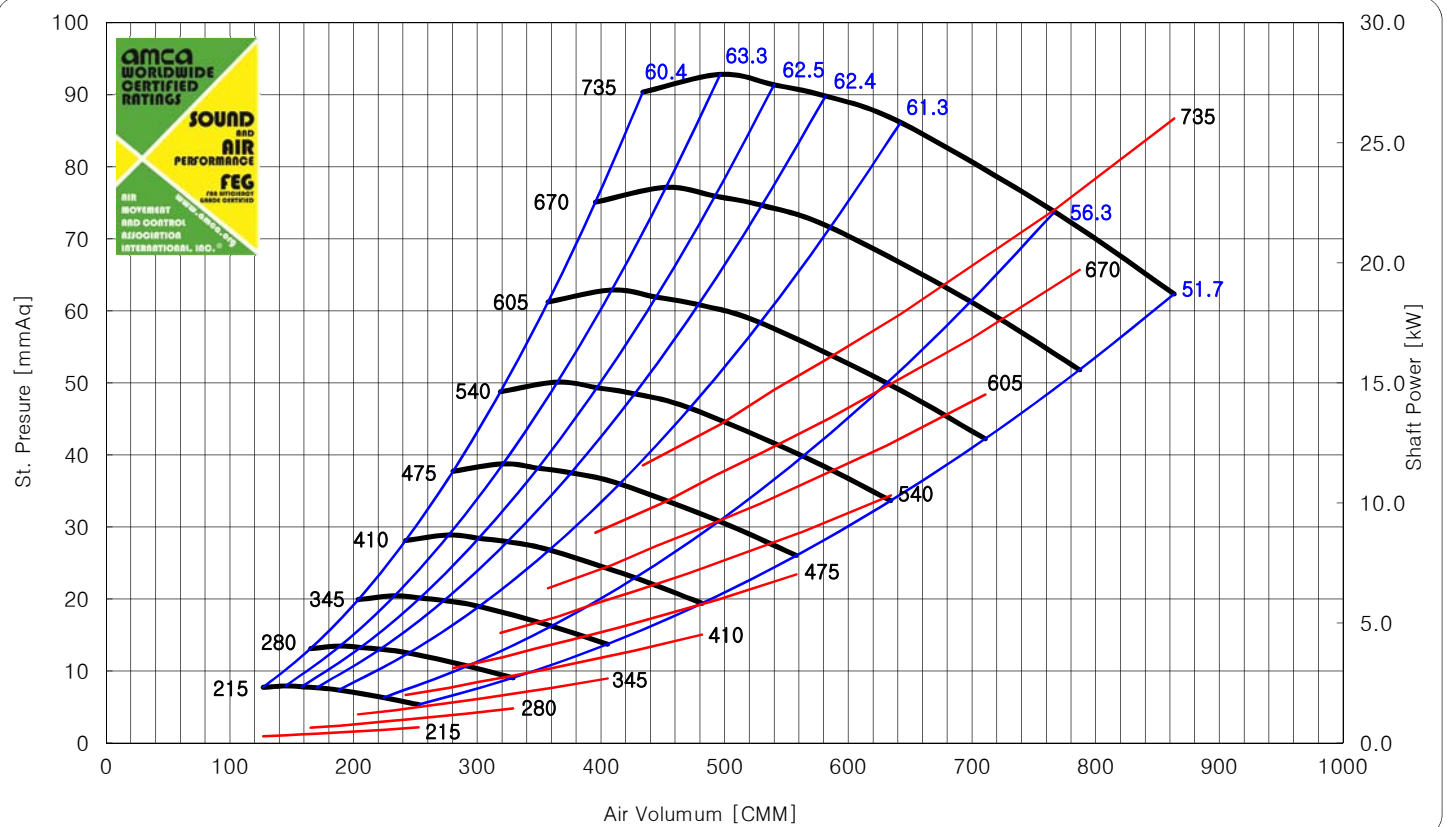


270	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	340	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	410	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	222.76	6.65	0.72	51.72	73	1	280.51	10.54	1.43	51.72	78	1	338.27	15.33	2.51	51.72	83
2	197.83	7.86	0.61	56.29	71	2	249.11	12.47	1.22	56.29	76	2	300.40	18.13	2.14	56.29	81
3	165.70	9.19	0.49	61.29	68	3	208.67	14.57	0.98	61.29	74	3	251.63	21.18	1.72	61.29	78
4	150.04	9.58	0.44	62.37	67	4	188.94	15.19	0.88	62.37	73	4	227.84	22.08	1.54	62.37	77
5	139.32	9.74	0.40	62.51	67	5	175.44	15.45	0.81	62.51	72	5	211.56	22.46	1.42	62.51	77
6	128.11	9.90	0.37	63.35	66	6	161.32	15.70	0.73	63.35	71	6	194.53	22.82	1.28	63.35	76
7	111.95	9.64	0.32	60.44	67	7	140.97	15.28	0.64	60.44	73	7	170.00	22.22	1.11	60.44	77
480	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	550	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	620	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	396.02	21.01	4.02	51.72	87	1	453.77	27.58	6.05	51.72	90	1	511.53	35.05	8.66	51.72	93
2	351.69	24.85	3.43	56.29	85	2	402.98	32.63	5.16	56.29	88	2	454.27	41.47	7.40	56.29	91
3	294.59	29.03	2.76	61.29	82	3	337.55	38.12	4.15	61.29	85	3	380.51	48.44	5.95	61.29	88
4	266.75	30.27	2.47	62.37	81	4	305.65	39.74	3.71	62.37	84	4	344.55	50.50	5.31	62.37	88
5	247.68	30.79	2.27	62.51	80	5	283.80	40.42	3.42	62.51	84	5	319.92	51.37	4.90	62.51	87
6	227.74	31.28	2.05	63.35	80	6	260.95	41.07	3.09	63.35	83	6	294.17	52.19	4.42	63.35	86
7	199.02	30.45	1.79	60.44	81	7	228.04	39.98	2.69	60.44	84	7	257.07	50.81	3.85	60.44	87
690	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	760	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	830	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	569.28	43.42	11.94	51.72	96	1	627.03	52.67	15.96	51.72	98	1	684.79	62.82	20.79	51.72	100
2	505.56	51.36	10.20	56.29	93	2	556.84	62.31	13.63	56.29	96	2	608.13	74.31	17.75	56.29	98
3	423.47	59.99	8.20	61.29	91	3	466.43	72.78	10.96	61.29	94	3	509.39	86.81	14.28	61.29	96
4	383.45	62.54	7.32	62.37	90	4	422.35	75.88	9.79	62.37	93	4	461.25	90.50	12.75	62.37	95
5	356.04	63.62	6.75	62.51	90	5	392.16	77.19	9.02	62.51	92	5	428.28	92.06	11.75	62.51	95
6	327.38	64.64	6.09	63.35	89	6	360.59	78.42	8.14	63.35	92	6	393.80	93.53	10.61	63.35	94
7	286.09	62.93	5.31	60.44	90	7	315.12	76.34	7.10	60.44	93	7	344.14	91.05	9.24	60.44	95

\* Performance certified for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses. Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.

PERFORMANCE CURVES AND SOUND DATA - SWSF #4.5DS\_FEG67

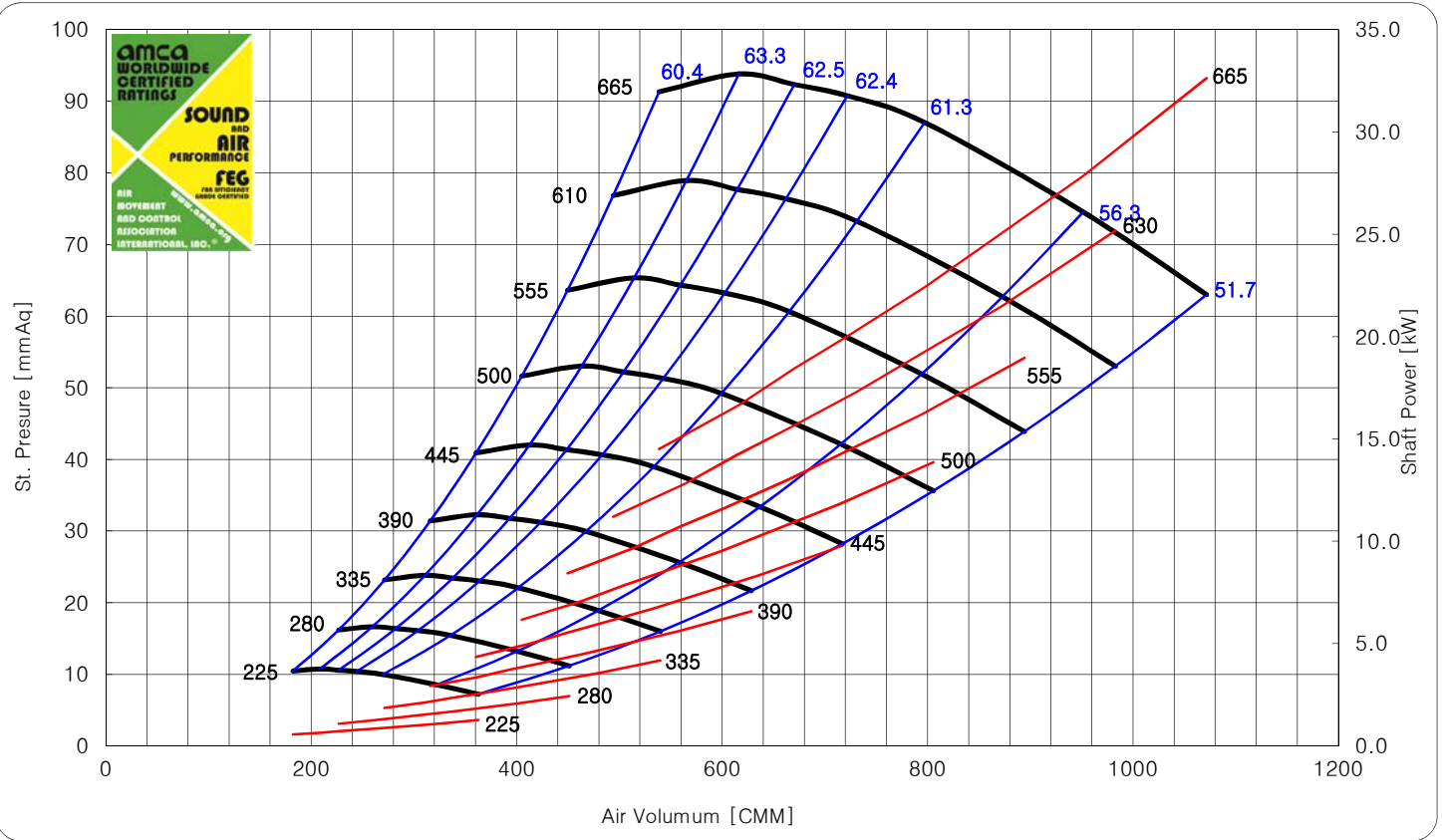


215	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	280	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	345	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	252.56	5.33	0.65	51.72	71	1	328.92	9.05	1.44	51.72	77	1	405.28	13.74	2.69	51.72	82
2	224.29	6.31	0.56	56.29	69	2	292.10	10.70	1.23	56.29	75	2	359.91	16.25	2.30	56.29	80
3	187.87	7.37	0.45	61.29	66	3	244.67	12.50	0.99	61.29	73	3	301.47	18.98	1.85	61.29	78
4	170.12	7.69	0.40	62.37	65	4	221.55	13.03	0.88	62.37	72	4	272.98	19.79	1.65	62.37	77
5	157.96	7.82	0.37	62.51	65	5	205.71	13.26	0.81	62.51	71	5	253.47	20.13	1.52	62.51	76
6	145.24	7.94	0.33	63.35	64	6	189.16	13.47	0.73	63.35	70	6	233.07	20.45	1.37	63.35	75
7	126.93	7.73	0.29	60.44	65	7	165.30	13.11	0.64	60.44	72	7	203.67	19.91	1.20	60.44	77
410	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	475	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	540	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	481.63	19.40	4.52	51.72	86	1	557.99	26.04	7.02	51.72	90	1	634.35	33.65	10.32	51.72	93
2	427.72	22.95	3.86	56.29	84	2	495.53	30.80	5.99	56.29	88	2	563.34	39.81	8.81	56.29	91
3	358.27	26.81	3.10	61.29	82	3	415.07	35.98	4.82	61.29	85	3	471.87	46.50	7.09	61.29	88
4	324.41	27.95	2.77	62.37	81	4	375.84	37.51	4.31	62.37	84	4	427.27	48.48	6.33	62.37	88
5	301.23	28.43	2.55	62.51	80	5	348.98	38.16	3.97	62.51	84	5	396.74	49.32	5.83	62.51	87
6	276.98	28.89	2.30	63.35	79	6	320.89	38.77	3.58	63.35	83	6	364.80	50.11	5.26	63.35	86
7	242.05	28.12	2.01	60.44	81	7	280.42	37.74	3.12	60.44	84	7	318.79	48.78	4.59	60.44	87
605	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	670	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	735	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	710.70	42.24	14.51	51.72	96	1	787.06	51.81	19.71	51.72	98	1	863.42	62.35	26.01	51.72	101
2	631.15	49.97	12.39	56.29	94	2	698.96	61.29	16.82	56.29	96	2	766.77	73.76	22.21	56.29	99
3	528.67	58.37	9.97	61.29	91	3	585.47	71.59	13.53	61.29	94	3	642.27	86.15	17.87	61.29	96
4	478.71	60.85	8.90	62.37	90	4	530.14	74.63	12.08	62.37	93	4	581.57	89.82	15.95	62.37	96
5	444.49	61.91	8.20	62.51	90	5	492.25	75.92	11.14	62.51	93	5	540.00	91.37	14.70	62.51	95
6	408.71	62.90	7.40	63.35	89	6	452.62	77.14	10.05	63.35	92	6	496.53	92.83	13.27	63.35	95
7	357.17	61.23	6.45	60.44	90	7	395.54	75.09	8.76	60.44	93	7	433.91	90.37	11.57	60.44	96

\* Performance certified is for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses. Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.

PERFORMANCE CURVES AND SOUND DATA - SWSF #5DS\_FEG67

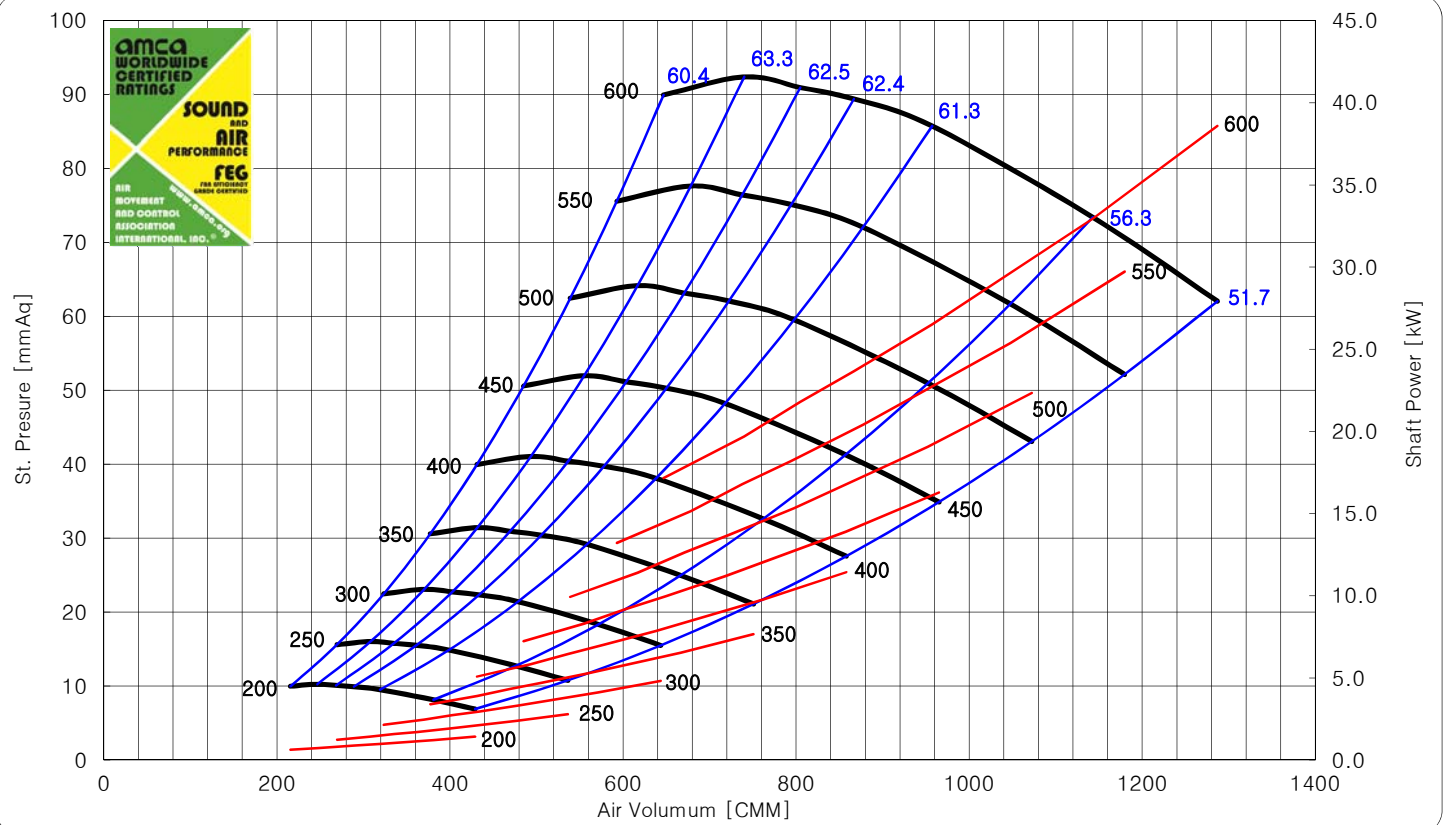


225	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	280	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	335	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	362.57	7.21	1.26	51.72	75	1	451.20	11.17	2.44	51.72	81	1	539.82	15.99	4.17	51.72	85
2	321.98	8.53	1.08	56.29	73	2	400.69	13.21	2.08	56.29	79	2	479.40	18.92	3.56	56.29	83
3	269.70	9.97	0.87	61.29	71	3	335.63	15.44	1.67	61.29	76	3	401.56	22.10	2.87	61.29	80
4	244.21	10.39	0.77	62.37	70	4	303.91	16.09	1.49	62.37	75	4	363.61	23.04	2.56	62.37	79
5	226.76	10.57	0.71	62.51	69	5	282.19	16.37	1.38	62.51	74	5	337.62	23.43	2.36	62.51	78
6	208.50	10.74	0.64	63.35	68	6	259.47	16.63	1.24	63.35	73	6	310.44	23.81	2.13	63.35	78
7	182.21	10.46	0.56	60.44	70	7	226.75	16.19	1.08	60.44	75	7	271.29	23.18	1.85	60.44	79
390	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	445	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	500	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	628.45	21.67	6.58	51.72	88	1	717.08	28.22	9.78	51.72	92	1	805.71	35.62	13.87	51.72	94
2	558.10	25.64	5.62	56.29	86	2	636.81	33.38	8.35	56.29	89	2	715.52	42.14	11.84	56.29	92
3	467.48	29.95	4.52	61.29	84	3	533.41	38.99	6.72	61.29	87	3	599.34	49.22	9.53	61.29	90
4	423.30	31.22	4.04	62.37	83	4	483.00	40.65	6.00	62.37	86	4	542.69	51.31	8.50	62.37	89
5	393.05	31.76	3.72	62.51	82	5	448.48	41.35	5.53	62.51	85	5	503.91	52.20	7.84	62.51	88
6	361.41	32.27	3.36	63.35	81	6	412.38	42.01	4.99	63.35	85	6	463.34	53.04	7.08	63.35	87
7	315.83	31.41	2.93	60.44	83	7	360.37	40.90	4.35	60.44	86	7	404.91	51.63	6.17	60.44	89
555	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	610	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	665	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	894.33	43.89	18.97	51.72	97	1	982.96	53.02	25.18	51.72	99	1	1071.59	63.01	32.63	51.72	101
2	794.22	51.92	16.19	56.29	95	2	872.93	62.72	21.50	56.29	97	2	951.64	74.54	27.86	56.29	99
3	665.26	60.64	13.03	61.29	92	3	731.19	73.26	17.30	61.29	95	3	797.12	87.07	22.41	61.29	97
4	602.39	63.22	11.63	62.37	91	4	662.09	76.38	15.44	62.37	94	4	721.78	90.77	20.01	62.37	96
5	559.34	64.32	10.72	62.51	91	5	614.77	77.70	14.23	62.51	93	5	670.20	92.34	18.44	62.51	96
6	514.31	65.35	9.68	63.35	90	6	565.28	78.94	12.85	63.35	93	6	616.25	93.82	16.65	63.35	95
7	449.45	63.61	8.43	60.44	91	7	493.99	76.85	11.20	60.44	94	7	538.53	91.33	14.51	60.44	96

\* Performance certified for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses. Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.

PERFORMANCE CURVES AND SOUND DATA - SWSF #5.5DS\_FEG67

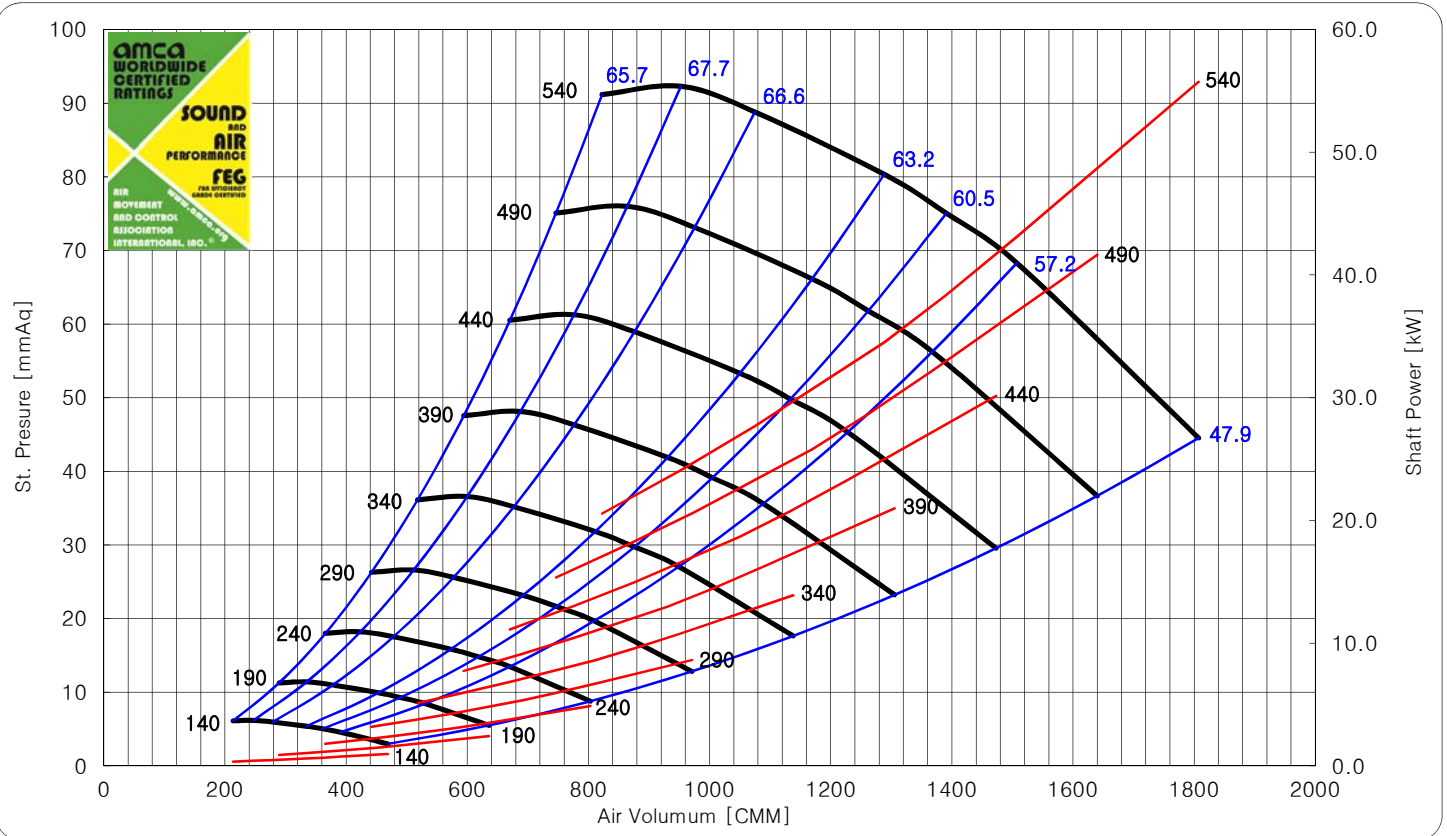


200	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	250	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	300	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	428.96	6.90	1.43	51.72	75	1	536.20	10.78	2.79	51.72	81	1	643.44	15.52	4.82	51.72	85
2	380.94	8.16	1.22	56.29	73	2	476.18	12.75	2.38	56.29	79	2	571.41	18.36	4.12	56.29	83
3	319.09	9.53	0.98	61.29	71	3	398.86	14.89	1.92	61.29	76	3	478.63	21.44	3.31	61.29	80
4	288.93	9.93	0.88	62.37	70	4	361.16	15.52	1.71	62.37	75	4	433.40	22.35	2.96	62.37	80
5	268.28	10.11	0.81	62.51	69	5	335.35	15.79	1.58	62.51	74	5	402.42	22.74	2.73	62.51	79
6	246.68	10.27	0.73	63.35	68	6	308.35	16.04	1.42	63.35	73	6	370.03	23.10	2.46	63.35	78
7	215.57	10.00	0.64	60.44	70	7	269.47	15.62	1.24	60.44	75	7	323.36	22.49	2.14	60.44	79
350	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	400	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	450	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	750.68	21.12	7.66	51.72	89	1	857.92	27.58	11.44	51.72	92	1	965.15	34.91	16.28	51.72	95
2	666.65	24.98	6.54	56.29	87	2	761.88	32.63	9.76	56.29	90	2	857.12	41.30	13.90	56.29	93
3	558.40	29.18	5.26	61.29	84	3	638.17	38.12	7.85	61.29	87	3	717.95	48.24	11.18	61.29	90
4	505.63	30.42	4.70	62.37	83	4	577.86	39.74	7.01	62.37	86	4	650.09	50.29	9.98	62.37	89
5	469.49	30.95	4.33	62.51	82	5	536.56	40.42	6.46	62.51	86	5	603.63	51.16	9.20	62.51	89
6	431.70	31.45	3.91	63.35	82	6	493.37	41.07	5.83	63.35	85	6	555.04	51.98	8.31	63.35	88
7	377.25	30.61	3.41	60.44	83	7	431.15	39.98	5.08	60.44	86	7	485.04	50.60	7.24	60.44	89
500	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	550	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	600	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	1072.39	43.10	22.34	51.72	97	1	1179.63	52.15	29.73	51.72	100	1	1286.87	62.07	38.60	51.72	102
2	952.35	50.99	19.07	56.29	95	2	1047.59	61.70	25.38	56.29	97	2	1142.82	73.42	32.95	56.29	100
3	797.72	59.56	15.34	61.29	93	3	877.49	72.06	20.42	61.29	95	3	957.26	85.76	26.51	61.29	97
4	722.33	62.09	13.70	62.37	92	4	794.56	75.13	18.23	62.37	94	4	866.79	89.41	23.67	62.37	96
5	670.70	63.16	12.62	62.51	91	5	737.77	76.43	16.80	62.51	93	5	804.84	90.96	21.81	62.51	96
6	616.71	64.17	11.40	63.35	90	6	678.38	77.65	15.17	63.35	93	6	740.05	92.41	19.69	63.35	95
7	538.93	62.47	9.93	60.44	92	7	592.83	75.59	13.22	60.44	94	7	646.72	89.96	17.16	60.44	96

\* Performance certified is for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses. Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.

PERFORMANCE CURVES AND SOUND DATA - SWSF #6DS\_FEG71

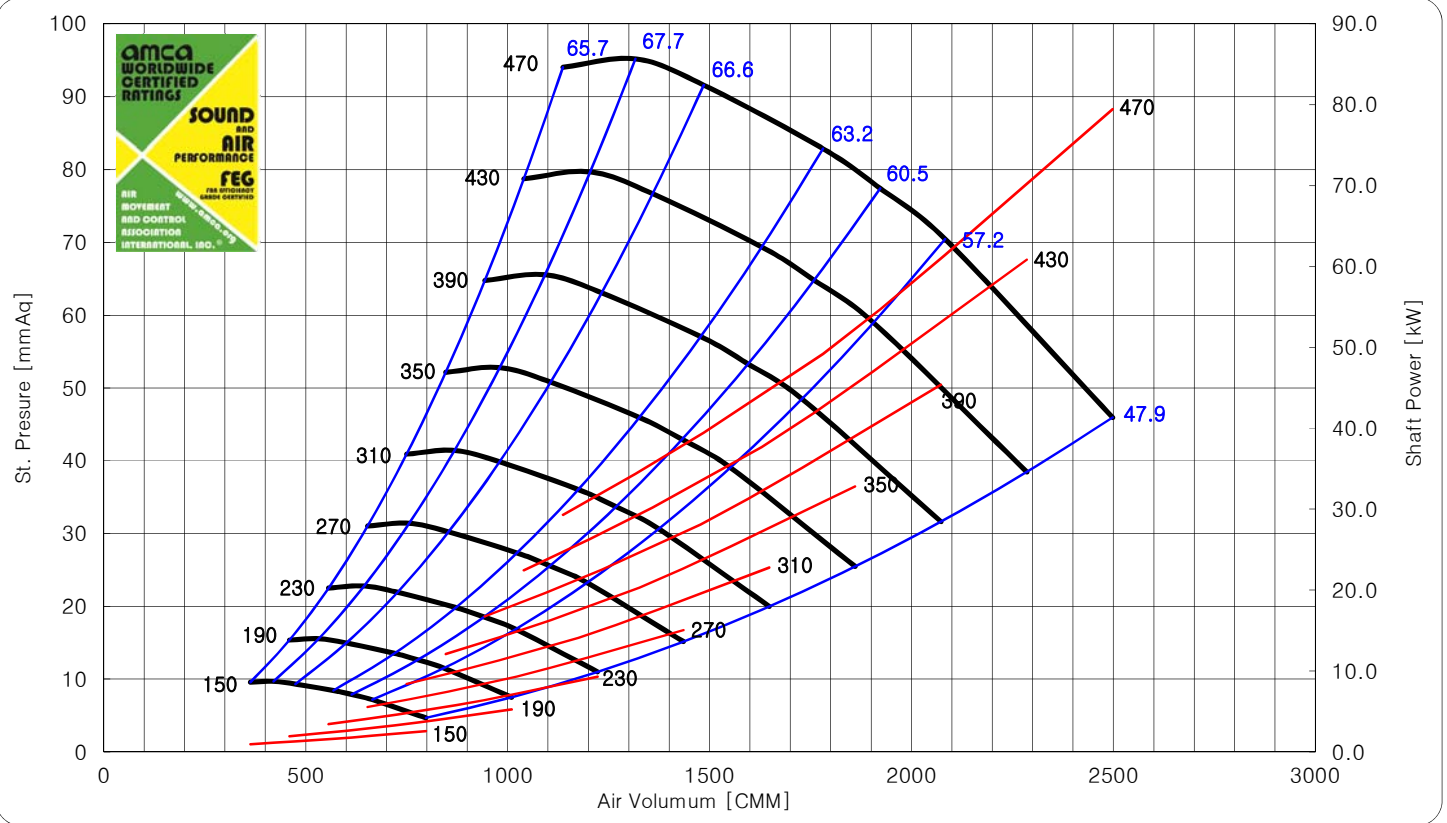


140	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	190	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	240	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	468.61	2.99	0.97	47.95	69	1	635.97	5.52	2.43	47.95	78	1	803.33	8.80	4.89	47.95	84
2	390.81	4.59	0.75	57.21	67	2	530.39	8.46	1.88	57.21	75	2	669.97	13.49	3.79	57.21	81
3	360.63	5.04	0.67	60.46	65	3	489.43	9.29	1.67	60.46	73	3	618.23	14.83	3.37	60.46	79
4	334.07	5.40	0.60	63.16	64	4	453.38	9.95	1.50	63.16	72	4	572.69	15.87	3.03	63.16	78
5	278.67	5.97	0.48	66.56	61	5	378.19	11.00	1.21	66.56	68	5	477.72	17.55	2.43	66.56	74
6	246.92	6.20	0.42	67.71	59	6	335.10	11.43	1.05	67.71	67	6	423.29	18.23	2.12	67.71	72
7	213.23	6.13	0.36	65.72	60	7	289.38	11.29	0.90	65.72	67	7	365.53	18.01	1.81	65.72	73
290	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	340	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	390	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	970.70	12.85	8.63	47.95	88	1	1138.06	17.66	13.92	47.95	93	1	1305.42	23.24	21.00	47.95	96
2	809.54	19.70	6.68	57.21	86	2	949.12	27.08	10.76	57.21	90	2	1088.69	35.63	16.24	57.21	93
3	747.03	21.65	5.95	60.46	84	3	875.83	29.75	9.58	60.46	88	3	1004.62	39.15	14.47	60.46	92
4	692.00	23.17	5.35	63.16	83	4	811.31	31.85	8.62	63.16	87	4	930.62	41.91	13.01	63.16	91
5	577.24	25.62	4.29	66.56	79	5	676.77	35.21	6.91	66.56	83	5	776.29	46.33	10.43	66.56	86
6	511.47	26.62	3.73	67.71	77	6	599.66	36.60	6.02	67.71	81	6	687.84	48.15	9.08	67.71	85
7	441.68	26.30	3.19	65.72	78	7	517.84	36.15	5.13	65.72	82	7	593.99	47.57	7.75	65.72	85
440	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	490	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))	540	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	wA(dB(A))
1	1472.78	29.58	30.16	47.95	99	1	1640.14	36.68	41.65	47.95	102	1	1807.50	44.55	55.75	47.95	104
2	1228.27	45.36	23.33	57.21	96	2	1367.85	56.25	32.22	57.21	99	2	1507.42	68.31	43.12	57.21	101
3	1133.42	49.83	20.77	60.46	95	3	1262.22	61.80	28.69	60.46	98	3	1391.02	75.06	38.40	60.46	100
4	1049.93	53.34	18.68	63.16	94	4	1169.24	66.16	25.80	63.16	97	4	1288.55	80.35	34.53	63.16	99
5	875.82	58.97	14.98	66.56	90	5	975.34	73.14	20.69	66.56	93	5	1074.86	88.82	27.69	66.56	95
6	776.03	61.29	13.04	67.71	88	6	864.21	76.01	18.02	67.71	91	6	952.40	92.31	24.11	67.71	94
7	670.14	60.55	11.13	65.72	89	7	746.29	75.09	15.37	65.72	92	7	822.45	91.20	20.57	65.72	94

\* Performance certified is for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses. Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.

PERFORMANCE CURVES AND SOUND DATA - SWSF #7DS\_FEG71

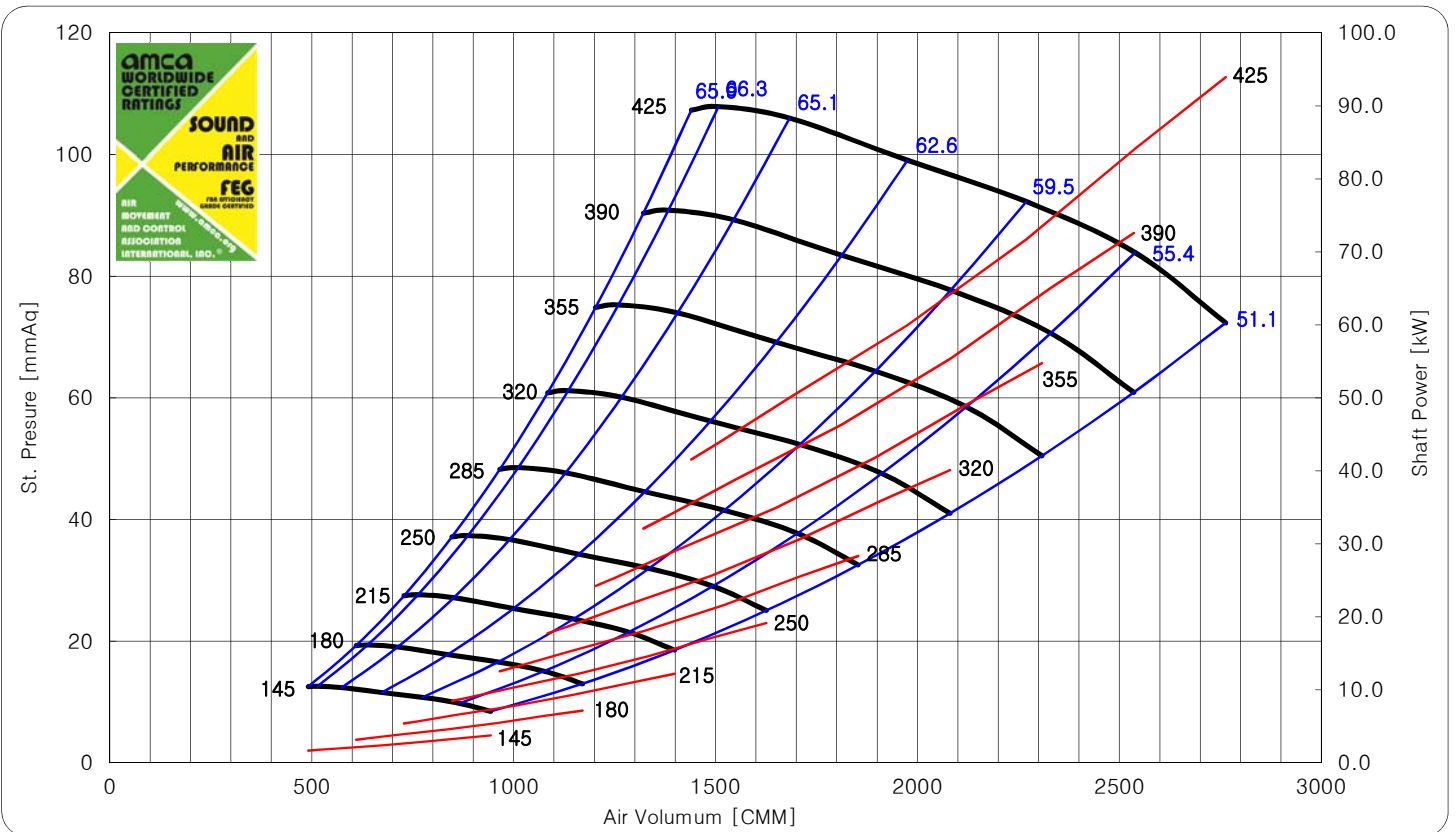


150	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	190	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	230	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	797.29	4.68	2.58	47.95	76	1	1009.90	7.51	5.25	47.95	82	1	1222.51	11.00	9.31	47.95	87
2	664.93	7.17	2.00	57.21	73	2	842.24	11.51	4.06	57.21	79	2	1019.55	16.87	7.20	57.21	84
3	613.58	7.88	1.78	60.46	72	3	777.20	12.65	3.62	60.46	78	3	940.82	18.53	6.41	60.46	83
4	568.38	8.44	1.60	63.16	71	4	719.95	13.54	3.25	63.16	77	4	871.52	19.84	5.77	63.16	82
5	474.12	9.33	1.28	66.56	67	5	600.56	14.97	2.61	66.56	73	5	726.99	21.93	4.62	66.56	78
6	420.10	9.70	1.12	67.71	65	6	532.13	15.56	2.27	67.71	71	6	644.16	22.79	4.03	67.71	76
7	362.78	9.58	0.95	65.72	66	7	459.52	15.37	1.94	65.72	72	7	556.26	22.52	3.43	65.72	76
270	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	310	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	350	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	1435.12	15.16	15.06	47.95	91	1	1647.73	19.99	22.80	47.95	95	1	1860.34	25.48	32.81	47.95	98
2	1196.87	23.25	11.65	57.21	88	2	1374.18	30.64	17.63	57.21	92	2	1551.49	39.06	25.38	57.21	95
3	1104.44	25.54	10.37	60.46	87	3	1268.06	33.67	15.70	60.46	91	3	1431.69	42.92	22.60	60.46	94
4	1023.08	27.34	9.33	63.16	86	4	1174.65	36.04	14.12	63.16	89	4	1326.22	45.94	20.32	63.16	93
5	853.42	30.22	7.48	66.56	82	5	979.86	39.84	11.32	66.56	85	5	1106.29	50.79	16.30	66.56	88
6	756.19	31.41	6.51	67.71	80	6	868.22	41.41	9.86	67.71	84	6	980.24	52.78	14.19	67.71	87
7	653.01	31.03	5.56	65.72	81	7	749.75	40.91	8.41	65.72	84	7	846.49	52.15	12.10	65.72	87
390	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	430	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	470	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	2072.95	31.63	45.39	47.95	101	1	2285.57	38.45	60.84	47.95	103	1	2498.18	45.94	79.45	47.95	105
2	1728.81	48.50	35.11	57.21	98	2	1906.12	58.96	47.06	57.21	100	2	2083.43	70.44	61.45	57.21	103
3	1595.31	53.29	31.27	60.46	97	3	1758.93	64.78	41.91	60.46	99	3	1922.55	77.39	54.72	60.46	101
4	1477.79	57.04	28.11	63.16	95	4	1629.35	69.34	37.68	63.16	98	4	1780.92	82.85	49.21	63.16	100
5	1232.72	63.06	22.55	66.56	91	5	1359.15	76.66	30.22	66.56	94	5	1485.59	91.58	39.46	66.56	96
6	1092.27	65.54	19.63	67.71	89	6	1204.30	79.67	26.32	67.71	92	6	1316.33	95.18	34.36	67.71	95
7	943.23	64.75	16.74	65.72	90	7	1039.97	78.71	22.44	65.72	93	7	1136.72	94.03	29.31	65.72	95

\* Performance certified for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses. Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.

# PERFORMANCE CURVES AND SOUND DATA - SWSF #8DS\_FEG67



145	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	180	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	215	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	942.79	8.42	3.73	51.07	78	1	1170.36	12.97	7.13	51.07	84	1	1397.93	18.50	12.16	51.07	88
2	866.29	9.76	3.34	55.45	75	2	1075.40	15.04	6.39	55.45	81	2	1284.50	21.46	10.89	55.45	85
3	774.26	10.74	2.85	59.50	73	3	961.15	16.55	5.45	59.50	78	3	1148.04	23.61	9.28	59.50	83
4	673.87	11.53	2.38	62.61	74	4	836.52	17.77	4.55	62.61	78	4	999.18	25.35	7.76	62.61	83
5	574.20	12.34	1.99	65.13	80	5	712.80	19.01	3.80	65.13	80	5	851.41	27.12	6.47	65.13	86
6	514.31	12.56	1.74	66.27	82	6	638.45	19.35	3.33	66.27	81	6	762.60	27.61	5.67	66.27	88
7	491.26	12.49	1.65	65.93	82	7	609.84	19.24	3.15	65.93	81	7	728.41	27.46	5.38	65.93	87
250	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	285	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	320	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	1625.50	25.02	19.11	51.07	92	1	1853.07	32.52	28.32	51.07	95	1	2080.64	40.99	40.09	51.07	98
2	1493.61	29.02	17.13	55.45	89	2	1702.71	37.72	25.38	55.45	93	2	1911.82	47.55	35.92	55.45	96
3	1334.93	31.92	14.59	59.50	87	3	1521.82	41.48	21.62	59.50	90	3	1708.71	52.30	30.61	59.50	93
4	1161.84	34.27	12.20	62.61	87	4	1324.50	44.54	18.07	62.61	90	4	1487.15	56.15	25.58	62.61	93
5	990.01	36.67	10.18	65.13	95	5	1128.61	47.66	15.08	65.13	96	5	1267.21	60.09	21.34	65.13	96
6	886.74	37.33	8.91	66.27	98	6	1010.89	48.51	13.20	66.27	98	6	1135.03	61.16	18.69	66.27	97
7	846.99	37.12	8.45	65.93	97	7	965.57	48.24	12.52	65.93	98	7	1084.15	60.82	17.72	65.93	97
355	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	390	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	425	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	2308.21	50.45	54.73	51.07	100	1	2535.78	60.89	72.57	51.07	104	1	2763.35	72.31	93.91	51.07	106
2	2120.92	58.52	49.04	55.45	97	2	2330.03	70.62	65.03	55.45	101	2	2539.13	83.87	84.15	55.45	103
3	1895.60	64.36	41.79	59.50	94	3	2082.49	77.68	55.40	59.50	98	3	2269.38	92.24	71.70	59.50	101
4	1649.81	69.10	34.92	62.61	94	4	1812.47	83.40	46.30	62.61	97	4	1975.12	99.04	59.92	62.61	100
5	1405.81	73.95	29.14	65.13	96	5	1544.41	89.25	38.63	65.13	98	5	1683.01	105.99	50.00	65.13	102
6	1259.17	75.27	25.52	66.27	97	6	1383.32	90.84	33.84	66.27	99	6	1507.46	107.87	43.79	66.27	103
7	1202.73	74.85	24.20	65.93	97	7	1321.31	90.34	32.08	65.93	99	7	1439.89	107.29	41.52	65.93	102

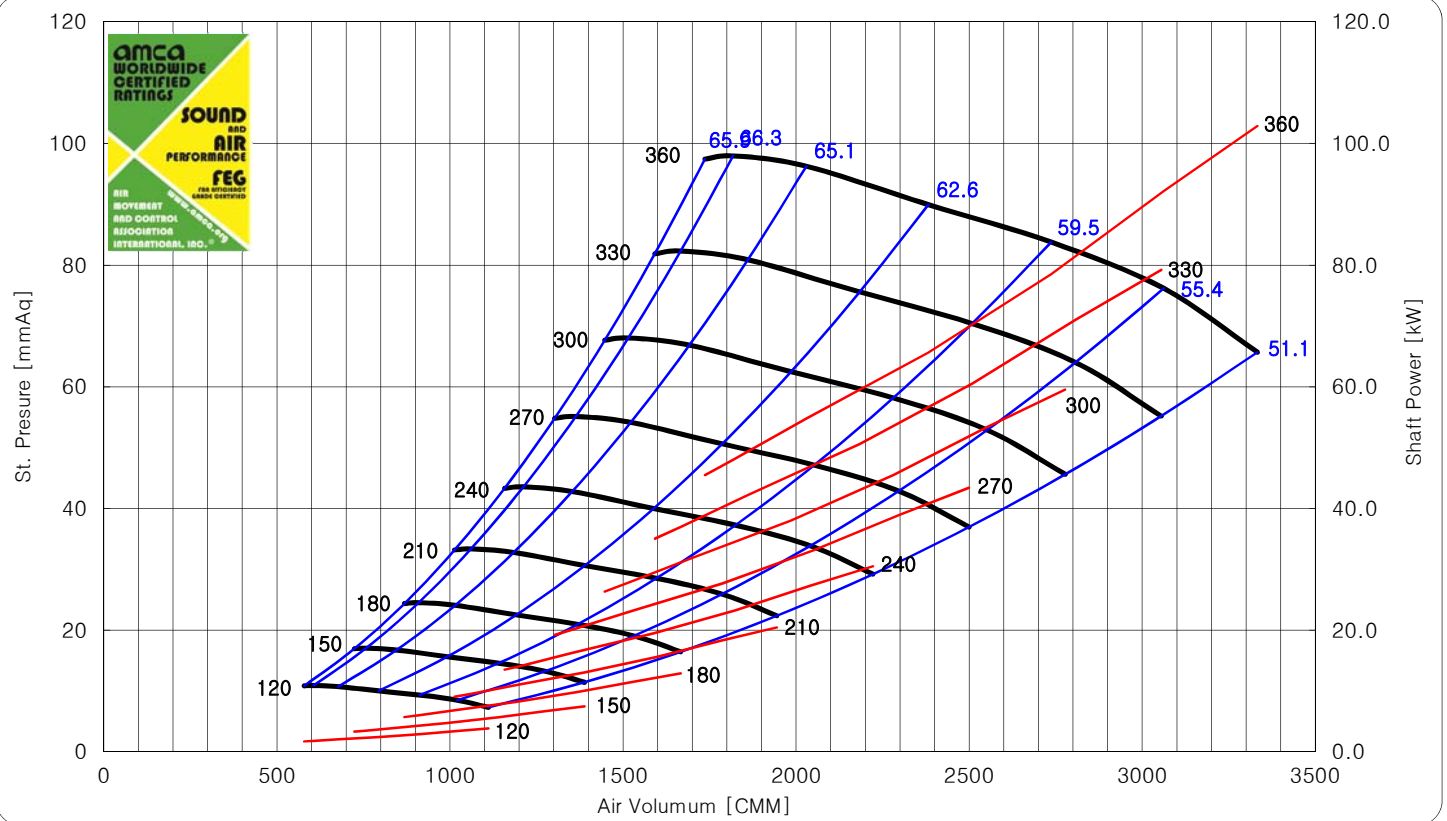
\* Performance certified for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses.

Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.



PERFORMANCE CURVES AND SOUND DATA - SWSF #9DS\_FEG67

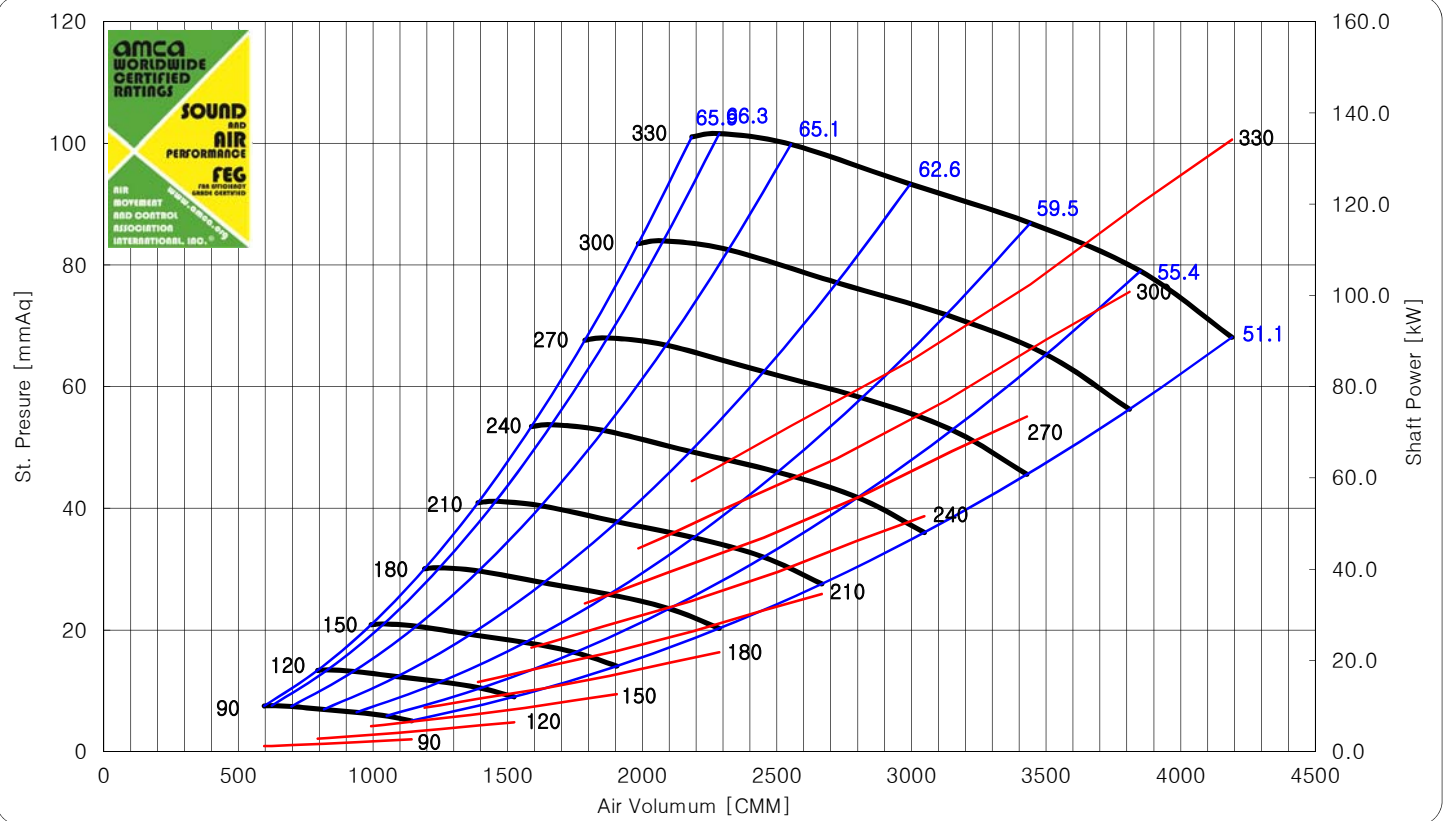


120	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	150	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	180	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	1110.93	7.30	3.81	51.07	77	1	1388.66	11.40	7.44	51.07	82	1	1666.39	16.42	12.86	51.07	87
2	1020.79	8.46	3.41	55.45	74	2	1275.98	13.22	6.67	55.45	80	2	1531.18	19.04	11.52	55.45	84
3	912.34	9.31	2.91	59.50	72	3	1140.42	14.54	5.68	59.50	77	3	1368.51	20.94	9.82	59.50	82
4	794.04	9.99	2.43	62.61	73	4	992.55	15.61	4.75	62.61	78	4	1191.07	22.49	8.20	62.61	82
5	676.61	10.69	2.03	65.13	80	5	845.76	16.71	3.96	65.13	84	5	1014.91	24.06	6.84	65.13	84
6	606.03	10.88	1.78	66.27	82	6	757.54	17.01	3.47	66.27	85	6	909.05	24.49	5.99	66.27	85
7	578.87	10.83	1.68	65.93	82	7	723.58	16.91	3.29	65.93	85	7	868.30	24.36	5.68	65.93	84
210	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	240	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	270	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	1944.12	22.34	20.42	51.07	91	1	2221.86	29.18	30.48	51.07	95	1	2499.59	36.93	43.39	51.07	98
2	1786.38	25.92	18.29	55.45	88	2	2041.57	33.85	27.31	55.45	92	2	2296.77	42.84	38.88	55.45	95
3	1596.59	28.50	15.59	59.50	86	3	1824.68	37.23	23.27	59.50	89	3	2052.76	47.12	33.13	59.50	92
4	1389.58	30.60	13.03	62.61	85	4	1588.09	39.97	19.45	62.61	89	4	1786.60	50.59	27.69	62.61	93
5	1184.06	32.75	10.87	65.13	89	5	1353.21	42.78	16.22	65.13	96	5	1522.37	54.14	23.10	65.13	100
6	1060.56	33.33	9.52	66.27	90	6	1212.07	43.54	14.21	66.27	98	6	1363.57	55.10	20.23	66.27	103
7	1013.02	33.15	9.03	65.93	90	7	1157.73	43.30	13.47	65.93	98	7	1302.45	54.80	19.18	65.93	102
300	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	330	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	360	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	2777.32	45.60	59.52	51.07	100	1	3055.05	55.17	79.22	51.07	103	1	3332.78	65.66	102.85	51.07	105
2	2551.97	52.89	53.34	55.45	98	2	2807.17	64.00	70.99	55.45	100	2	3062.36	76.16	92.17	55.45	102
3	2280.85	58.17	45.44	59.50	95	3	2508.93	70.39	60.49	59.50	98	3	2737.02	83.77	78.53	59.50	100
4	1985.11	62.46	37.98	62.61	95	4	2183.62	75.58	50.55	62.61	97	4	2382.13	89.94	65.63	62.61	99
5	1691.52	66.84	31.69	65.13	100	5	1860.67	80.87	42.18	65.13	100	5	2029.82	96.25	54.76	65.13	100
6	1515.08	68.03	27.75	66.27	102	6	1666.59	82.31	36.94	66.27	101	6	1818.10	97.96	47.96	66.27	101
7	1447.17	67.66	26.31	65.93	101	7	1591.88	81.86	35.02	65.93	100	7	1736.60	97.43	45.47	65.93	101

\* Performance certified for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses. Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.

PERFORMANCE CURVES AND SOUND DATA - SWSF #10DS\_FEG67

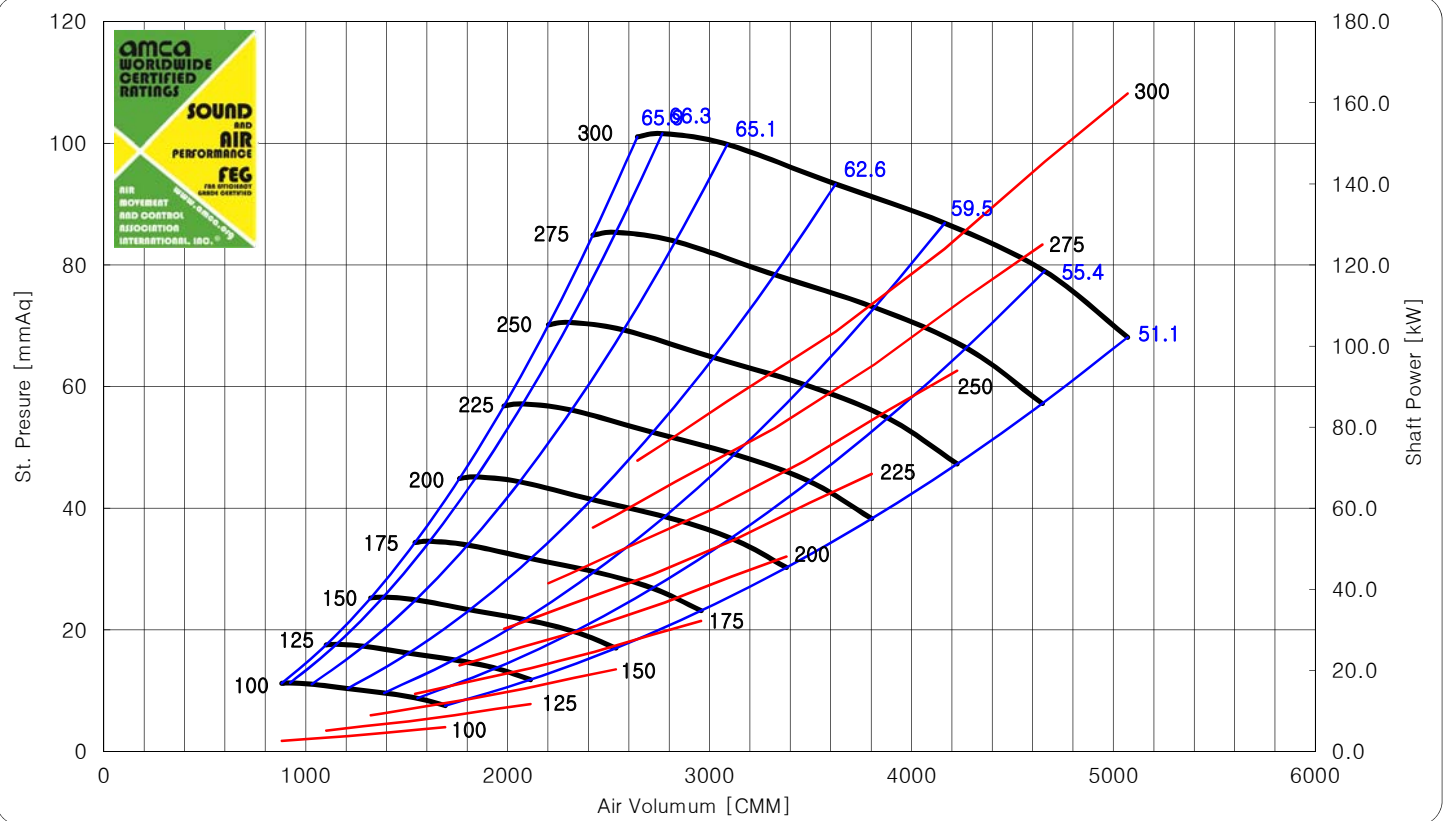


90	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	120	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	150	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	1142.93	5.07	2.72	51.07	73	1	1523.91	9.01	6.45	51.07	80	1	1904.88	14.07	12.60	51.07	86
2	1050.19	5.88	2.44	55.45	70	2	1400.26	10.45	5.78	55.45	77	2	1750.32	16.32	11.29	55.45	83
3	938.62	6.46	2.08	59.50	68	3	1251.49	11.49	4.93	59.50	75	3	1564.37	17.95	9.62	59.50	81
4	816.92	6.94	1.74	62.61	68	4	1089.22	12.34	4.12	62.61	76	4	1361.53	19.28	8.04	62.61	81
5	696.10	7.43	1.45	65.13	70	5	928.13	13.20	3.43	65.13	83	5	1160.16	20.63	6.71	65.13	87
6	623.49	7.56	1.27	66.27	71	6	831.32	13.44	3.01	66.27	85	6	1039.15	21.00	5.87	66.27	89
7	595.54	7.52	1.20	65.93	70	7	794.06	13.36	2.85	65.93	85	7	992.57	20.88	5.57	65.93	88
180	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	210	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	240	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	2285.86	20.27	21.77	51.07	90	1	2666.84	27.58	34.57	51.07	94	1	3047.81	36.03	51.61	51.07	98
2	2100.39	23.51	19.51	55.45	88	2	2450.45	32.00	30.98	55.45	92	2	2800.51	41.79	46.25	55.45	95
3	1877.24	25.85	16.62	59.50	85	3	2190.11	35.19	26.40	59.50	89	3	2502.99	45.96	39.40	59.50	92
4	1633.84	27.76	13.89	62.61	85	4	1906.14	37.78	22.06	62.61	89	4	2178.45	49.35	32.93	62.61	93
5	1392.20	29.71	11.59	65.13	87	5	1624.23	40.43	18.41	65.13	92	5	1856.26	52.81	27.48	65.13	99
6	1246.98	30.23	10.15	66.27	88	6	1454.81	41.15	16.12	66.27	93	6	1662.64	53.75	24.06	66.27	102
7	1191.08	30.07	9.63	65.93	88	7	1389.60	40.93	15.29	65.93	93	7	1588.11	53.46	22.82	65.93	101
270	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	300	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	330	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	3428.79	45.60	73.48	51.07	101	1	3809.77	56.29	100.80	51.07	104	1	4190.74	68.12	134.17	51.07	106
2	3150.58	52.89	65.85	55.45	98	2	3500.64	65.30	90.33	55.45	101	2	3850.71	79.01	120.23	55.45	103
3	2815.86	58.17	56.10	59.50	95	3	3128.73	71.82	76.96	59.50	98	3	3441.61	86.90	102.43	59.50	101
4	2450.75	62.46	46.89	62.61	96	4	2723.06	77.11	64.32	62.61	98	4	2995.36	93.30	85.61	62.61	100
5	2088.29	66.84	39.12	65.13	103	5	2320.33	82.52	53.67	65.13	103	5	2552.36	99.84	71.43	65.13	103
6	1870.47	68.03	34.26	66.27	106	6	2078.30	83.99	47.00	66.27	105	6	2286.13	101.62	62.56	66.27	104
7	1786.63	67.66	32.49	65.93	105	7	1985.14	83.53	44.56	65.93	104	7	2183.66	101.07	59.31	65.93	104

\* Performance certified for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses. Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.

PERFORMANCE CURVES AND SOUND DATA - SWSF #11DS\_FEG67

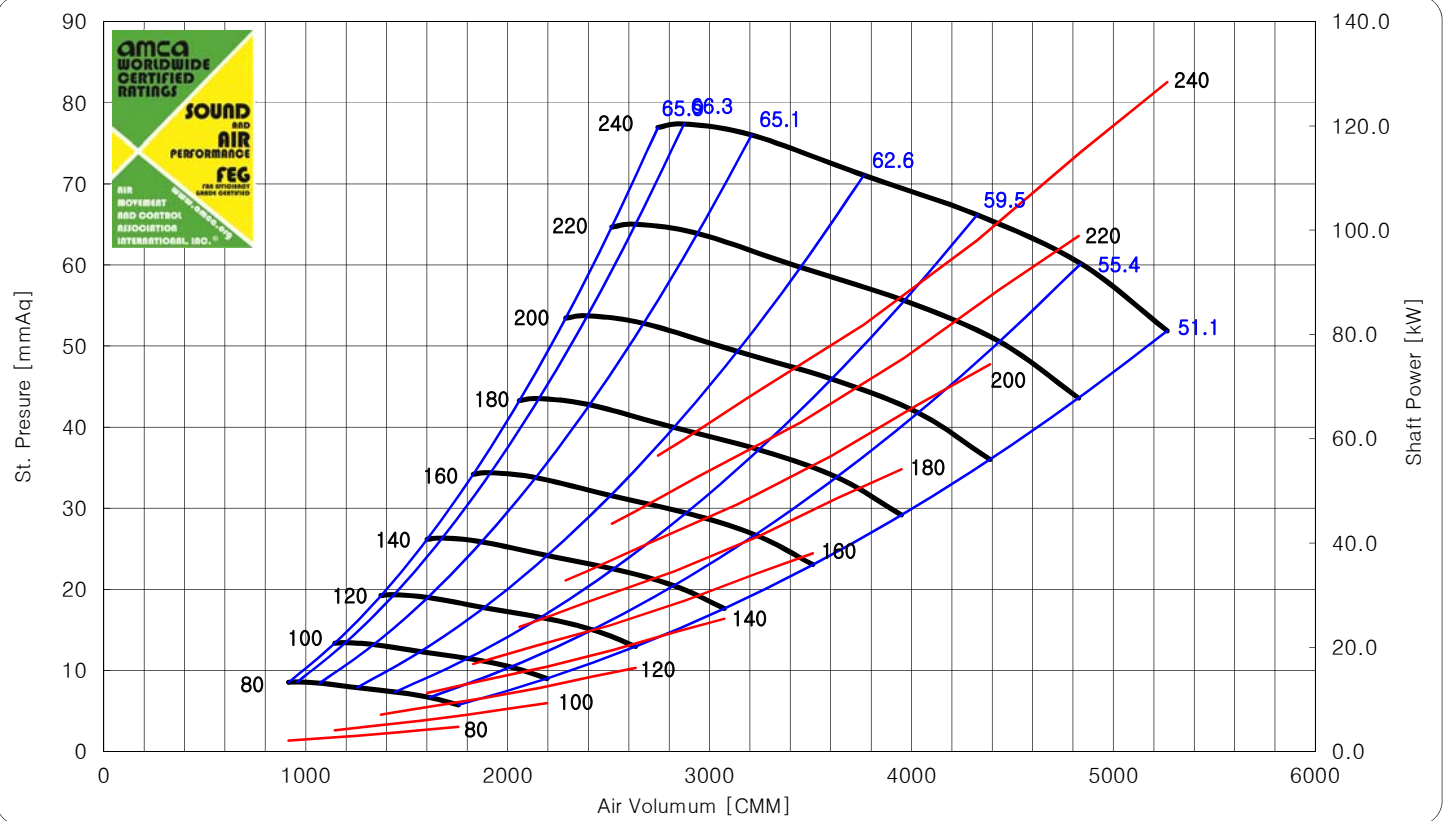


100	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	125	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	150	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	1690.27	7.57	6.01	51.07	78	1	2112.83	11.83	11.74	51.07	84	1	2535.40	17.03	20.29	51.07	89
2	1553.12	8.78	5.39	55.45	76	2	1941.40	13.72	10.52	55.45	81	2	2329.68	19.75	18.18	55.45	86
3	1388.12	9.66	4.59	59.50	73	3	1735.14	15.09	8.97	59.50	79	3	2082.17	21.72	15.49	59.50	83
4	1208.13	10.37	3.84	62.61	73	4	1510.16	16.20	7.49	62.61	80	4	1812.20	23.33	12.95	62.61	84
5	1029.45	11.09	3.20	65.13	76	5	1286.81	17.33	6.25	65.13	89	5	1544.18	24.96	10.80	65.13	90
6	922.07	11.29	2.80	66.27	77	6	1152.59	17.64	5.48	66.27	91	6	1383.11	25.41	9.46	66.27	92
7	880.74	11.23	2.66	65.93	77	7	1100.93	17.55	5.19	65.93	90	7	1321.11	25.27	8.97	65.93	91
175	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	200	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	225	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	2957.97	23.18	32.22	51.07	93	1	3380.53	30.27	48.10	51.07	96	1	3803.10	38.31	68.49	51.07	99
2	2717.96	26.88	28.88	55.45	90	2	3106.24	35.11	43.10	55.45	93	2	3494.52	44.44	61.37	55.45	96
3	2429.20	29.57	24.60	59.50	87	3	2776.23	38.62	36.72	59.50	91	3	3123.26	48.88	52.29	59.50	94
4	2114.23	31.75	20.56	62.61	87	4	2416.26	41.47	30.69	62.61	90	4	2718.29	52.48	43.70	62.61	94
5	1801.54	33.97	17.16	65.13	90	5	2058.90	44.38	25.61	65.13	93	5	2316.27	56.16	36.46	65.13	98
6	1613.63	34.58	15.02	66.27	91	6	1844.15	45.17	22.43	66.27	94	6	2074.66	57.16	31.93	66.27	100
7	1541.30	34.39	14.25	65.93	90	7	1761.48	44.92	21.27	65.93	93	7	1981.67	56.85	30.28	65.93	100
250	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	275	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	300	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	4225.67	47.30	93.95	51.07	102	1	4648.23	57.24	125.04	51.07	104	1	5070.80	68.12	162.34	51.07	106
2	3882.80	54.87	84.19	55.45	99	2	4271.08	66.39	112.05	55.45	101	2	4659.36	79.01	145.47	55.45	104
3	3470.29	60.35	71.73	59.50	96	3	3817.32	73.02	95.47	59.50	99	3	4164.35	86.90	123.94	59.50	101
4	3020.33	64.79	59.95	62.61	97	4	3322.36	78.40	79.79	62.61	99	4	3624.39	93.30	103.59	62.61	101
5	2573.63	69.34	50.02	65.13	105	5	2830.99	83.90	66.57	65.13	106	5	3088.35	99.84	86.43	65.13	106
6	2305.18	70.57	43.80	66.27	107	6	2535.70	85.39	58.30	66.27	109	6	2766.22	101.62	75.69	66.27	108
7	2201.85	70.19	41.53	65.93	106	7	2422.04	84.92	55.28	65.93	108	7	2642.22	101.07	71.77	65.93	107

\* Performance certified for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses. Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.

PERFORMANCE CURVES AND SOUND DATA - SWSF #12DS\_FEG67

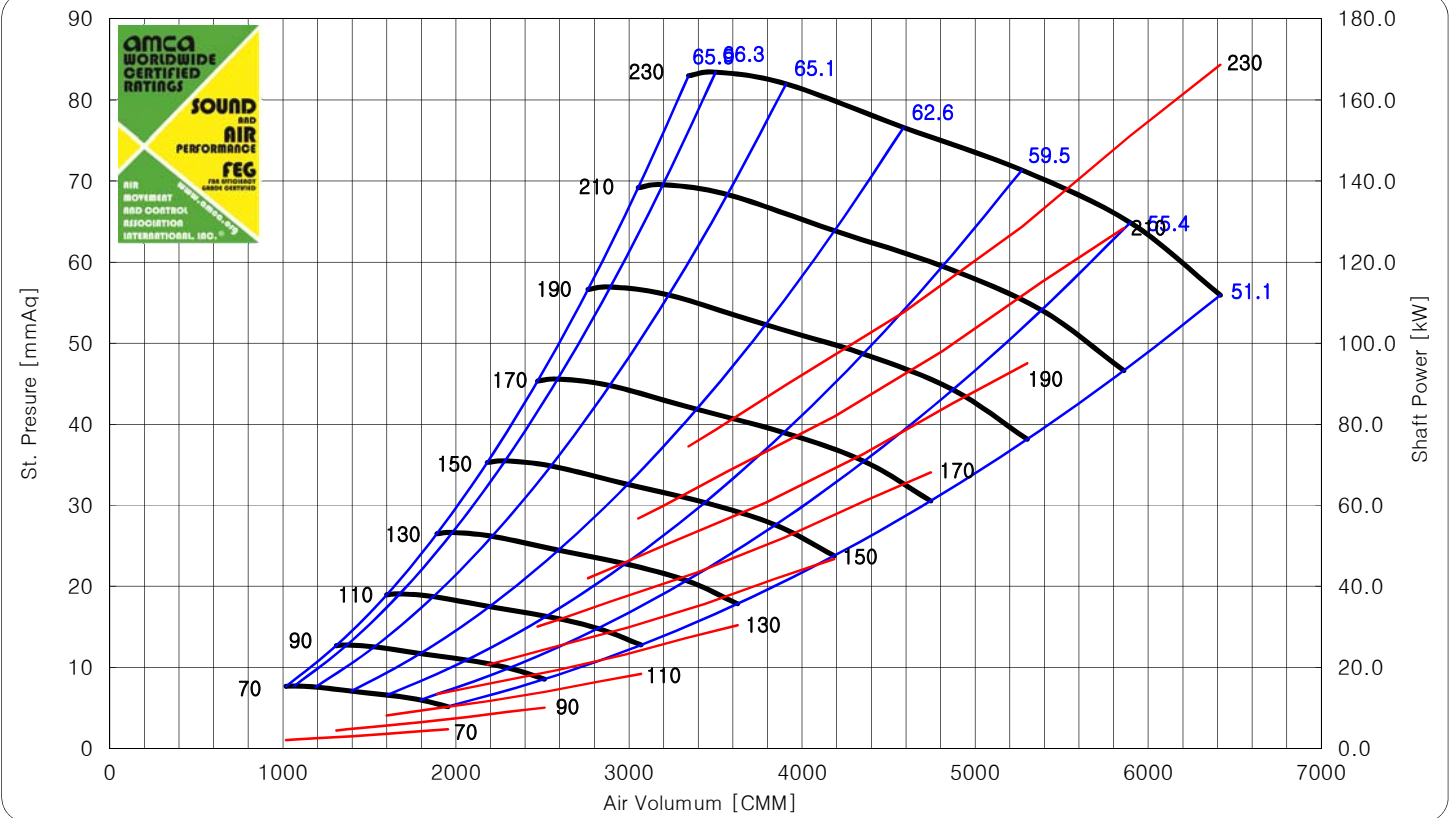


80	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	100	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	120	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	1755.54	5.76	4.76	51.07	75	1	2194.43	9.01	9.29	51.07	81	1	2633.31	12.97	16.05	51.07	86
2	1613.10	6.69	4.26	55.45	73	2	2016.37	10.45	8.32	55.45	78	2	2419.64	15.04	14.38	55.45	83
3	1441.72	7.35	3.63	59.50	70	3	1802.15	11.49	7.09	59.50	76	3	2162.58	16.55	12.26	59.50	81
4	1254.79	7.90	3.03	62.61	70	4	1568.48	12.34	5.93	62.61	76	4	1882.18	17.77	10.24	62.61	82
5	1069.21	8.45	2.53	65.13	74	5	1336.51	13.20	4.95	65.13	79	5	1603.81	19.01	8.55	65.13	89
6	957.68	8.60	2.22	66.27	76	6	1197.10	13.44	4.33	66.27	80	6	1436.52	19.35	7.48	66.27	91
7	914.75	8.55	2.10	65.93	75	7	1143.44	13.36	4.11	65.93	79	7	1372.13	19.24	7.10	65.93	90
140	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	160	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	180	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	3072.20	17.65	25.49	51.07	90	1	3511.08	23.06	38.05	51.07	93	1	3949.97	29.18	54.18	51.07	96
2	2822.92	20.48	22.84	55.45	87	2	3226.19	26.75	34.10	55.45	90	2	3629.47	33.85	48.55	55.45	93
3	2523.01	22.52	19.46	59.50	84	3	2883.44	29.42	29.05	59.50	88	3	3243.87	37.23	41.36	59.50	91
4	2195.87	24.18	16.27	62.61	86	4	2509.57	31.58	24.28	62.61	88	4	2823.27	39.97	34.57	62.61	90
5	1871.11	25.88	13.57	65.13	93	5	2138.41	33.80	20.26	65.13	92	5	2405.71	42.78	28.84	65.13	93
6	1675.94	26.34	11.89	66.27	95	6	1915.36	34.40	17.74	66.27	94	6	2154.78	43.54	25.26	66.27	94
7	1600.82	26.19	11.27	65.93	94	7	1829.51	34.21	16.82	65.93	93	7	2058.19	43.30	23.95	65.93	93
200	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	220	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	240	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	4388.85	36.03	74.32	51.07	99	1	4827.74	43.59	98.92	51.07	101	1	5266.62	51.88	128.42	51.07	103
2	4032.74	41.79	66.60	55.45	96	2	4436.01	50.57	88.64	55.45	98	2	4839.29	60.18	115.08	55.45	101
3	3604.30	45.96	56.74	59.50	93	3	3964.73	55.62	75.52	59.50	96	3	4325.16	66.19	98.05	59.50	98
4	3136.96	49.35	47.42	62.61	93	4	3450.66	59.71	63.12	62.61	95	4	3764.36	71.06	81.94	62.61	98
5	2673.02	52.81	39.57	65.13	95	5	2940.32	63.90	52.66	65.13	100	5	3207.62	76.05	68.37	65.13	105
6	2394.20	53.75	34.65	66.27	96	6	2633.62	65.04	46.12	66.27	102	6	2873.04	77.40	59.88	66.27	107
7	2286.88	53.46	32.86	65.93	96	7	2515.57	64.68	43.73	65.93	101	7	2744.26	76.98	56.77	65.93	106

\* Performance certified for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses. Performance ratings do not include the effects of appurtenances(accessories)

\* Values shown are for inlet LwA sound power levels for installation Type B-free inlet. Ducted outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA international Standard 301.

# PERFORMANCE CURVES AND SOUND DATA - SWSF #13DS\_FEG67



70	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	90	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	110	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	1953.01	5.18	4.75	51.07	74	1	2511.02	8.56	10.11	51.07	80	1	3069.02	12.79	18.45	51.07	86
2	1794.55	6.01	4.26	55.45	72	2	2307.27	9.93	9.06	55.45	78	2	2820.00	14.84	16.53	55.45	83
3	1603.89	6.61	3.63	59.50	69	3	2062.15	10.92	7.72	59.50	76	3	2520.40	16.32	14.09	59.50	81
4	1395.93	7.09	3.03	62.61	70	4	1794.77	11.73	6.45	62.61	76	4	2193.61	17.52	11.77	62.61	81
5	1189.48	7.59	2.53	65.13	77	5	1529.33	12.55	5.38	65.13	78	5	1869.18	18.75	9.82	65.13	86
6	1065.41	7.73	2.22	66.27	79	6	1369.81	12.77	4.71	66.27	79	6	1674.21	19.08	8.60	66.27	88
7	1017.65	7.69	2.10	65.93	79	7	1308.41	12.70	4.47	65.93	78	7	1599.16	18.98	8.16	65.93	87
130	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	150	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	170	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	3627.02	17.86	30.45	51.07	90	1	4185.03	23.78	46.78	51.07	94	1	4743.03	30.55	68.10	51.07	97
2	3332.73	20.72	27.29	55.45	87	2	3845.46	27.59	41.92	55.45	91	2	4358.18	35.43	61.03	55.45	94
3	2978.66	22.79	23.25	59.50	85	3	3436.92	30.34	35.72	59.50	89	3	3895.17	38.97	52.00	59.50	92
4	2592.44	24.47	19.43	62.61	87	4	2991.28	32.58	29.85	62.61	89	4	3390.12	41.85	43.45	62.61	92
5	2209.03	26.19	16.21	65.13	95	5	2548.88	34.86	24.91	65.13	95	5	2888.73	44.78	36.26	65.13	95
6	1978.61	26.65	14.20	66.27	98	6	2283.01	35.48	21.81	66.27	97	6	2587.42	45.58	31.75	66.27	96
7	1889.92	26.51	13.46	65.93	97	7	2180.68	35.29	20.68	65.93	96	7	2471.43	45.33	30.11	65.93	95
190	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	210	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))	230	Q(CMM)	PS(mmAq)	H(Kw)	eta <sub>t</sub> (%)	LwA(dB(A))
1	5301.04	38.16	95.08	51.07	100	1	5859.04	46.62	128.37	51.07	102	1	6417.04	55.92	168.66	51.07	105
2	4870.91	44.26	85.20	55.45	97	2	5383.64	54.07	115.04	55.45	99	2	5896.37	64.86	151.13	55.45	102
3	4353.43	48.68	72.59	59.50	94	3	4811.68	59.47	98.01	59.50	97	3	5269.94	71.34	128.77	59.50	99
4	3788.95	52.27	60.67	62.61	94	4	4187.79	63.85	81.91	62.61	97	4	4586.63	76.60	107.62	62.61	99
5	3228.58	55.94	50.62	65.13	96	5	3568.43	68.33	68.34	65.13	100	5	3908.28	81.97	89.79	65.13	105
6	2891.82	56.93	44.33	66.27	97	6	3196.22	69.55	59.86	66.27	101	6	3500.62	83.43	78.64	66.27	107
7	2762.19	56.62	42.03	65.93	97	7	3052.95	69.17	56.75	65.93	101	7	3343.71	82.97	74.56	65.93	106

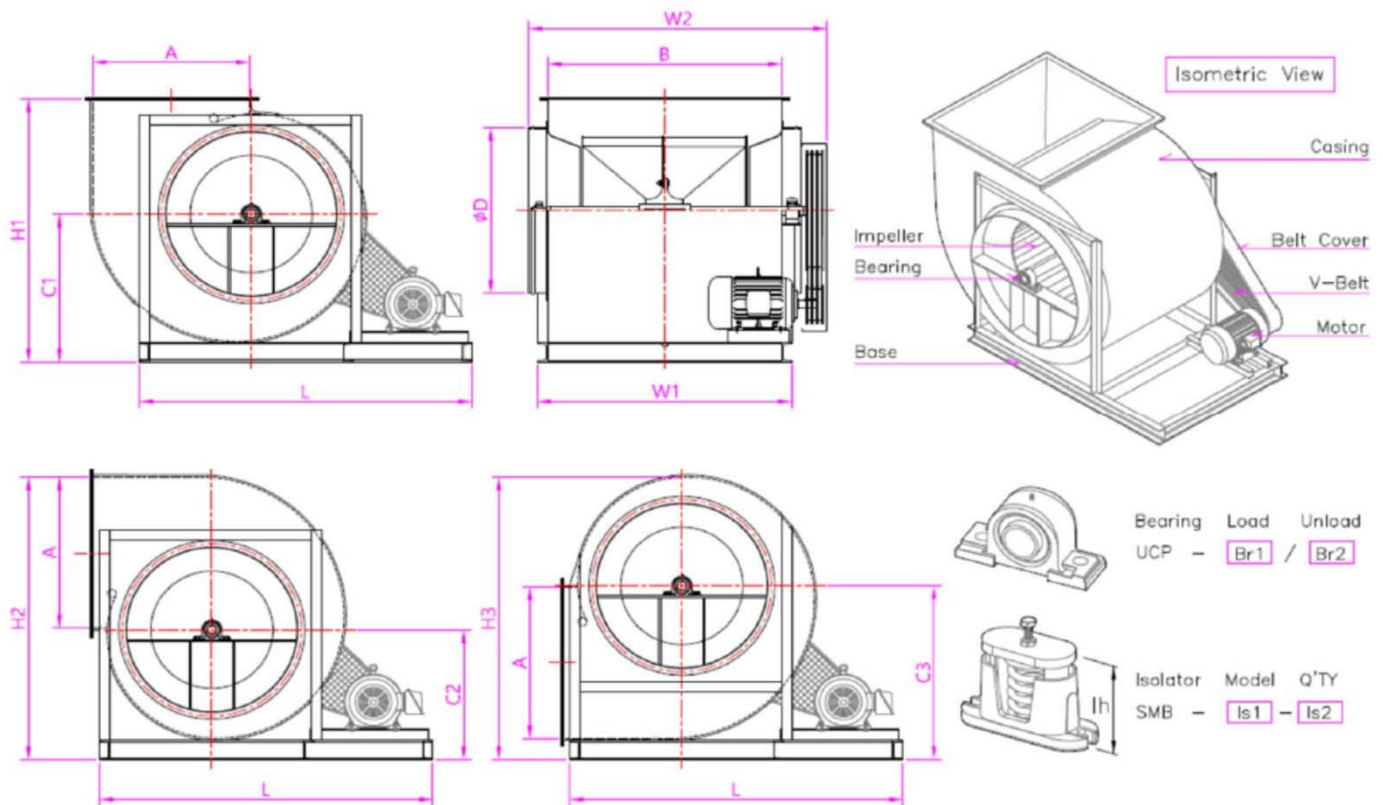
\* Performance certified is for installation type B - free inlet. Ducted outlet. Performance ratings(kW) do not include transmission losses.

Performance ratings do not include the effects of appurtenances(accessories)

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## OVERALL DIMENSIONS

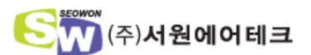


FAN NO.		DIMENSION(SWSF SERIES)														
		#2.5	#3	#3.5	#4	#4.5	#5	#5.5	#6	#7	#8	#9	#10	#11	#12	#13
Outlet	A	380	455	530	610	685	760	840	915	1065	1220	1370	1525	1675	1830	1980
	B	500	600	700	800	900	1000	1100	1200	1400	1600	1800	2000	2200	2400	2600
Center Height	C1	405	470	535	600	655	720	785	845	955	1125	1250	1310	1610	1650	1970
	C2	365	420	480	530	590	645	705	760	895	1010	1120	1200	1375	1500	1770
	C3	465	540	605	670	765	840	910	990	1165	1310	1460	1675	1785	1805	2295
Inlet	D	400	480	560	640	720	800	880	950	1110	1260	1420	1580	1730	1890	2050
Fan Base	L	950	1050	1150	1300	1370	1600	1650	1700	2000	2200	2400	2500	2750	2900	3200
Width	W1	580	680	780	880	980	1080	1180	1280	1480	1700	1900	2130	2330	2530	2730
	W2	730	850	950	1080	1180	1280	1380	1480	1700	1900	2100	2230	2530	2730	2930
Total Height	H1	705	815	935	1060	1165	1285	1405	1525	1695	1960	2185	2355	2780	2930	3430
	H2	745	880	1005	1140	1270	1405	1530	1670	1960	2220	2480	2670	3075	3220	3885
	H3	755	890	1010	1155	1280	1415	1535	1670	1960	2220	2480	2820	3025	3170	3895
Bearing	Br1	207	208	209	210	211	211	212	312	313	314	315	316	317	318	319
	Br2	206	206	208	208	209	210	211	212	213	214	215	216	217	218	219
Isolator	lh	105	105	135	135	135	135	135	135	135	135	150	150	150	150	150
	Is1	50	100	150	150	200	200	200	200	300	300	500	750	750	1000	1000
	Is2	4	4	4	4	4	4	6	6	6	6	6	6	6	6	6



[www.swairtech.co.kr](http://www.swairtech.co.kr)

## Products



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