

**G**SLF

SINCE 1975



## AMCA & 고효율 송풍기 With GS Fan! Since 1975. 고객과 함께 걸어온 40여년! 고맙습니다. 100년 기업으로 만들겠습니다.

(주)금성풍력은 1975년 설립되어 40여년간 송풍기 제조 외길만을 걸어온 장수 기업입니다.  
서울 청계천 공구상가에서 1평 남짓 한 점포에서 "동일공사"라는 상호로 출발하여  
지금의 남동공단에 2014년 말 기준 임직원 100여명, 년매출 210여억원을 생산하는  
송풍기 분야 선도 기업으로서, 국산품 □ 최고의 품질로 고객에게 보답 하고 있습니다.  
국내 전 산업분야 및 송풍기가 사용 되어지는 현장이라면 금성풍력 송풍기가  
한번쯤은 적용 될 정도로 40여년 이라는 세월과 역사가 이미 증명 하고 있습니다.

국내 최초 (□)AMCA 인증 획득. Fan Select 프로그램 또한 고객 여러분과 함께 호흡한 결과물 입니다.  
외산 제품과 성능 우위를 겨루며 중소기업 진흥을 통하여 국가산업발전에 이바지한 공헌으로  
2012년 5월 17일 대통령 표창을 수상 하였고 2013년 4월 22일 각 분야에서 선도적 위치에 있으며  
사회적 책임 수행에도 모범을 보이는 자랑스러운 중소기업인 상을 수상하였습니다.

국내 열악한 송풍기 시장에서 40여년 가까이 송풍기 외길만을 걸어 올 수 있었던 것은  
고객 여러분의 관심과 애정의 결과물 입니다.  
감사합니다. 앞으로도 GsFan은 기술, 연구 개발에 끊임없이 노력하는 기업이 되겠습니다.  
고객 여러분! 실망 시키지 않겠습니다!  
감사합니다.

2015. 10. (株)金星風力 代表理事 鄭 東 騎 拜上

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

## 연혁 HISTORY

- 1975.05 서울 중구 입정동 5-5에 동일공사 창업
- 1979.02 금성풍력 상호변경
- 1992.05 남동공단 2단지 99-8 본사 · 공장 신축이전
- 1996.05 Air Foil Fan 양산 체제 구축
- 1998.02 송풍기선정프로그램 국내 최초 개발
- 1998.12 품질보증시스템인증 획득(ISO 9001/KSA 9001)
- 2001.10 (주)금성풍력 법인전환
- 2002.09 ISO 9001 : 2000전환 인증획득
- 2004.07 남동공단 2단지 98B-11L 본사 · 공장 이전
- 2005.03 (美)AMCA Air Performance(성능) 인증획득 (국내최초 국산 기술)  
- 원심형 송풍기(SIROCCO & AIR FOIL FAN) 인증 (편흡입 & 양흡입)
- 2007.03 송풍기 선정 프로그램 업그레이드 (Ver. 8.0)
- 2009.01 (美)AMCA Sound & Air Performance(소음 & 성능) 인증획득  
- 원심형 송풍기(SIROCCO & AIR FOIL FAN) 인증 (편흡입 & 양흡입)
- 2010.12 (美)AMCA Sound & Air Performance(소음 & 성능) 인증획득  
- MIXED FLOW(DUCT IN LINE) FAN 인증
- 2015.03 송풍기 선정 프로그램 업그레이드 (Ver. 10)



## 수상내역 AWARD RECORDS

- 2011.01 조선일보-IBK-잡월드 3社 주관. "일하기 좋은 600대 기업 선정"  
- 2011. 1. 1. 조선일보 참조
- 2011.05 제3회 명문장수기업상 선정
- 2011.09 지식경제부장관 경영생산성 선도적 활동 표창장
- 2011.09 지식경제부장관 생산성향상 우수한 경영 성과를 거둔 우수기업 지정
- 2011.11 인천광역시 비전기업 선정  
- 21C경제주역 「대한민국의 심장, 경제수도 인천」 건설대표브랜드기업, 「비전기업」 선정
- 2012.03 제 39회 상공의 날 대한상공회의소 표창장 (상공업 발전에 기여)
- 2012.05 제 24회 전국중소기업인대회 대통령 표창 (모범 중소기업인)
- 2012.12 인천광역시 중소기업인대상 우수상
- 2013.04 이달의 자랑스러운 중소기업인상 (중소기업중앙회)

# TECHNOLOGY



## ISO인증은?

국제표준화기구의 약어로서 서비스와 관련된 제반설비와 활동의 표준화를 통하여 국제 교역을 촉진하고 회원기관과 국제기구와의 협력을 도모 각국의 실정에 맞게 수정하거나 번역되어 국가표준으로 사용되고 있는 제도입니다.



## 고효율에너지기자재 인증은?

지식경제부 (고효율에너지기자재 보급 촉진에 관한 규정)에 의하여 에너지 관리공단에서 고효율 에너지 기자재로 인증받은 제품을 말하며 고효율 에너지 기자재의 보급을 활성화 하기 위하여 일정기준 이상 제품에 대하여 인증하여 주는 효율 보증제도입니다.



## FAN SELECTION PROGRAM은?

1998년 2월 Ver 1.0으로 개발, 매년 upgrade하여 설비&설계 엔지니어, 유체기계 전공학생 등 고객의 요청에 의거 중소기업 여건에서 연구개발비를 과감하게 투자하여 현재 당사 및 설비&설계사무소(설비관련 Big User)의 엔지니어와 Fan제조사 엔지니어가 활용하고 있습니다. 본 Program은 당사 Home Page에서 무상 다운로드하여 사용가능합니다.



## KARSE SEAL

한국설비기술협회(KARSE)에서 AMCA 210, KS B 6311 과 KARSE 송풍기 성능인증 프로그램의 시험과 절차에 따라 성능(풍량, 정압, 축동력)을 검증하여 제품 카다로그의 데이터를 보증해 주는 인증으로써 당사 Airfoil, Sirocco, Duct In Line등의 제품군에 해당됩니다.

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

## AMCA 란?

AMCA (Air Movement and Control Association) International의 약자로 송풍기, 댐퍼, 루버, 에어커튼, 공기유량 측정 장치, 덕트, 소음기 등의 공기기송, 제어 등과 관련된 시스템의 제조업체들이모인 비영리 협회이다. 국제표준을 이끌고 있는 공인성능 인증기관이며 1917년 설립된 후 약 100여년의 역사를 가지고 있습니다.

송풍기분야 및 공조산업분야에서 국제적인 권위를 인정받고 있으며 AMCA의 제정규격은 ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.: 미국냉난방공조협회) 및 ANSI (American National Standards Institute: 미국 규격협회) 규격으로 채택되어 사용되고 있으며 ISO 및 KS규격에도 채용하여 사용되고 있습니다.

비영리 인증기관으로서 유럽과 아시아에 지부를 두고 있으며 송풍기, 댐퍼, 셔터, 등의 공기조절장치와 시스템에 대한 엄격하고 공정한 테스트를 실시하여 제조사의 카탈로그와 실제 제품과의 성능이 일치하는 제품에 대하여 AMCA Seal부착할 수 있도록 권한을 부여하고 소비자가 안심하고 제품을 선정, 사용할 수 있도록 인증하고 있습니다.

2015년 1월말 현재 전 세계 34개국 330여 업체가 회원사로 등록되어 있습니다.



## AMCA SEAL(Sound & Air Performance)인증은?

(美)AMCA Lab에서 소음(dB)과 성능(풍량, 정압, 축동력)을 검증하여 제품 카탈로그상의 데이터를 보증하는 국제적으로 권위 있는 연구기관의 인증서로, (주)금성풍력은 국내 최초 소음과 성능에 대한 인증을 획득했습니다.



## AMCA SEAL(FEG)인증은?

미국 AMCA에서는 고객의 송풍기 고효율화 요구에 부응하기 위하여 기존의 성능기준에 효율 요구조건을 추가하여 각 송풍기별 효율등급을 규정하고 제품 카탈로그에 효율을 명시 토록하여 고객이 믿을 수 있는 효율 보증 프로그램을 운영하고 있습니다.

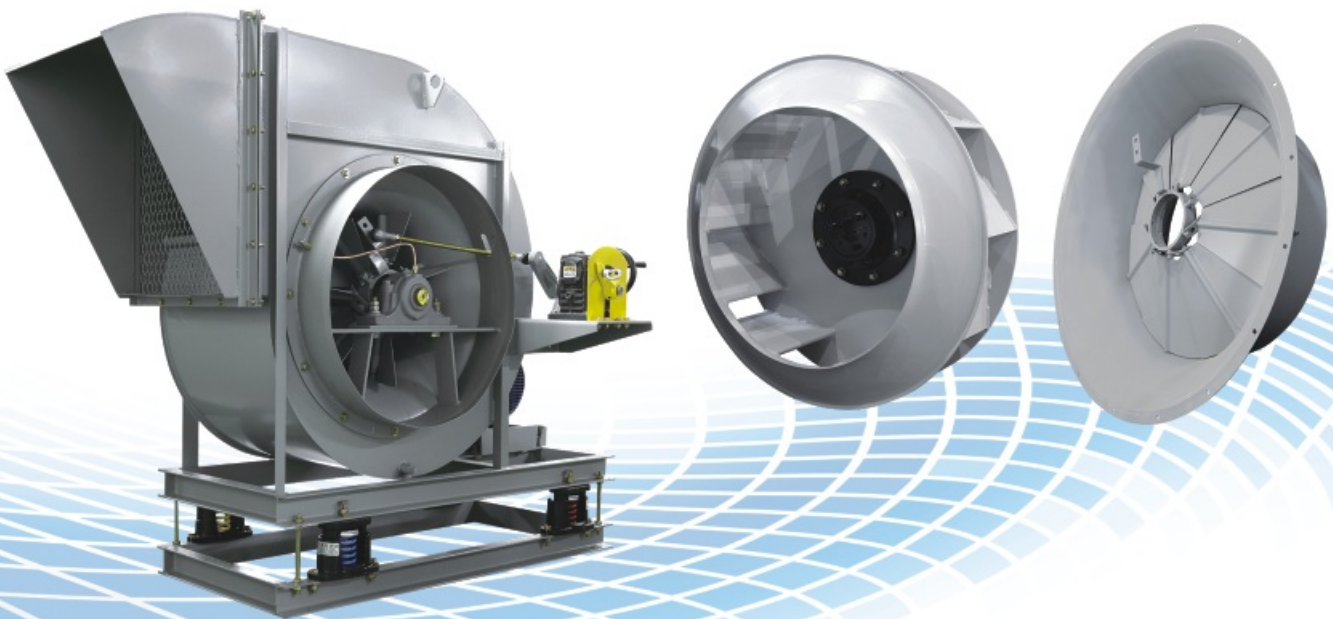
(주)금성풍력은 국내최초 효율등급인증을 위하여 노력하고 있습니다.

# AIR FOIL FAN GAF-SS series



GAF-FAN은 날개에 항공기의 익형을 응용한 것이며 원심 FAN 중에는 가장 새로운 기종입니다.  
효율이 좋고 소음도 낮으며 고속회전이 가능하고 날개경도 작게 할 수 있으므로 전체적으로 소형이 되는 장점이 있습니다.

GAF-FAN applied sing types of a plane to wings, and of the centrifugal fans, it is the newest model.  
Since it provides high efficiency, Low noise, high-speed rotations and a small wing diameter, it can be small.



## GAF-SS (SWSI CENTRIFUGAL FAN)



GUMSUNG POONG RYUK Co.,Ltd. certifies that the GAF-SS FAN shown herein is licensed to bear the AMCA Seal. The Ratings shown are based on tests and procedure performed in accordance with AMCA publication 211, 311 and comply with the requirements of the AMCA Certified Ratings Program.



GAF-2SS from GAF-14SS for the entire model to have obtained the AMCA Seal certified performance and sound.

GAF-2SS ~ GAF-2.25SS base data is GAF-2SS  
GAF-2.5SS ~ GAF-2.75SS base data is GAF-2.5SS  
GAF-3SS ~ GAF-3.75SS base data is GAF-3SS  
GAF-4SS ~ GAF-4.75SS base data is GAF-4SS  
GAF-5SS ~ GAF-5.75SS base data is GAF-5SS  
GAF-6SS ~ GAF-7SS base data is GAF-6SS  
GAF-8SS ~ GAF-14SS base data is GAF-8SS

### Type GAF-SS SWSI Series

Gumsung GAF-SS SWSI model is double suction-center hang type fan with wheel diameter from 12" to 84" applied by aerodynamic design.

#### 1. Wheels

All wheels are dynamically balanced and designed to perform up to 100% of standard capacity. The wheels are made of carbon steel and generally constructed by spot welding will be applied in case when high speed is required or the air is dusted or wet.

#### 2. HUB

The hub is made of steel casing and can be fixed to shaft with keys and taper bushes.

#### 3. Casing

Constructed of metal sheets and section steel with continuous welding to perform 100% of standard capacity.

#### 4. Inlet Cone

Designed to perform 100% of standard capacity enabling the maximum control. A special care was done to keep the inlet cones from touching other parts to include wheels. It can be easily assembled to the casing with flat washers.

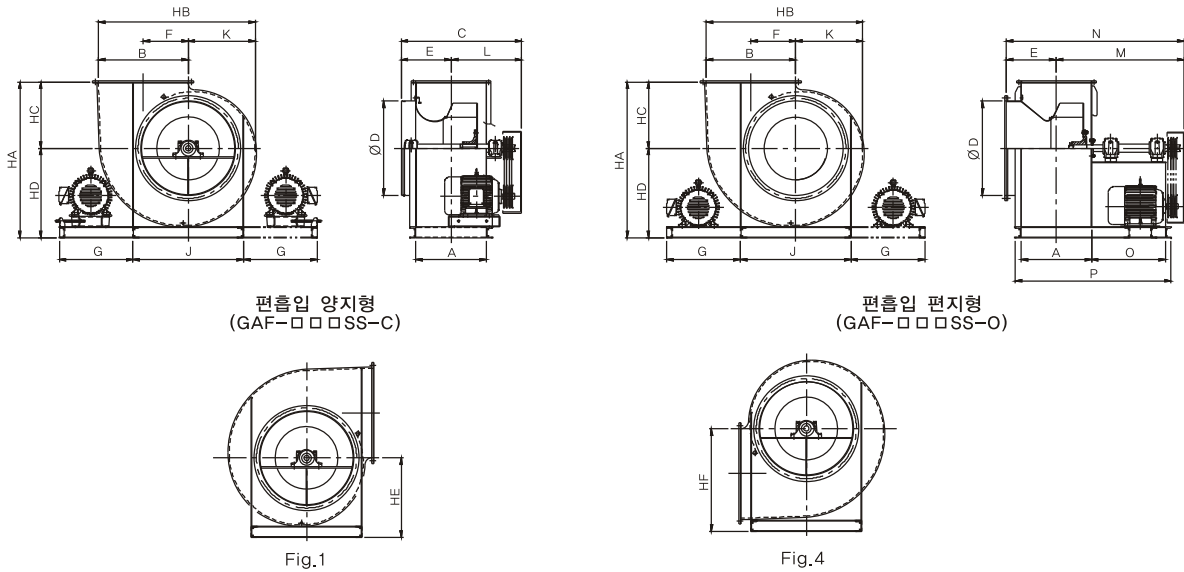
#### 5. Inlet Vane controls

It accurately controls the air flow and change the direction of flow to the wheels. Reduced air volume than outlet damper will provide more economical performance. If you are installing the inlet guide vane damper performance degradation of about 3-5% is caused by the fluid velocity.

# GAF-SS series

**AIR FOIL FAN**  
www.gsfan.co.kr

표준외형도 Standard shape of AIR FOIL FAN(GAF-SS SERIES)



편흡입 양지형  
(GAF-□□□SS-C)

편흡입 편지형  
(GAF-□□□SS-O)

Fig.1

Fig.4

MODEL NO.	A	B	ØD	E	F	HA	HB	HC	HD	HE	HF	C	J	K	L	M	N	O	P	FAN WEIGHT kg
#2	240	305	320	210	153	550	535	240	310	280	355	495	400	230	285	650	860	400	720	42
#2.25	270	345	360	225	173	630	615	275	355	320	395	525	500	270	300	665	890	400	750	53
#2.5	300	380	400	240	190	660	665	275	385	345	440	555	500	285	315	680	920	400	800	74
#2.75	330	420	440	255	210	665	735	340	325	375	480	585	570	315	330	695	950	400	830	95
#3	360	455	480	270	228	790	795	340	450	400	515	655	570	340	385	710	980	400	860	126
#3.25	390	495	520	285	248	870	870	380	490	435	555	685	660	375	400	725	1010	400	890	140
#3.5	420	535	560	310	268	930	935	410	520	460	595	725	660	400	415	790	1100	450	970	165
#3.75	450	570	600	325	285	1010	1000	430	580	490	630	755	750	430	430	810	1135	455	1005	189
#4	480	610	640	340	305	1060	1065	450	610	540	695	805	750	455	465	870	1210	500	1080	225
#4.25	510	650	680	355	325	1040	1135	480	560	570	735	835	850	485	480	885	1240	500	1110	238
#4.5	540	685	720	370	343	1160	1190	490	670	590	770	865	850	505	495	900	1270	500	1140	268
#4.75	570	725	760	385	363	1225	1260	520	705	620	810	895	950	535	510	915	1300	500	1170	294
#5	600	760	800	400	380	1300	1320	540	760	670	870	950	950	560	550	980	1380	550	1250	330
#5.25	630	800	840	415	400	1375	1390	570	805	700	910	980	1050	590	565	995	1410	550	1280	357
#5.5	660	840	880	430	420	1420	1460	590	830	730	950	1010	1050	620	580	1080	1510	600	1360	393
#5.75	690	875	920	445	438	1480	1525	620	860	760	985	1040	1100	650	595	1095	1540	600	1390	428
#6	730	915	960	485	458	1545	1590	650	895	785	1025	1100	1100	675	615	1165	1650	650	1480	462
#6.5	790	990	1040	515	495	1670	1730	700	970	850	1100	1160	1250	740	645	1245	1760	700	1590	535
#7	845	1065	1120	543	533	1790	1850	740	1050	920	1200	1250	1350	785	708	1303	1845	700	1675	608
#8	965	1220	1280	603	610	2060	2120	870	1190	1035	1355	1395	1500	900	793	1463	2065	800	1915	820
#9	1080	1370	1440	660	685	2305	2380	960	1345	1145	1505	1510	1700	1010	850	1520	2180	800	2030	1080
#10	1200	1525	1600	725	763	2530	2650	1050	1480	1285	1685	1635	1900	1125	910	1630	2355	850	2200	1470
#11	1320	1675	1760	810	838	2725	2910	1150	1575	1395	1835	1800	2100	1235	990	1740	2550	900	2370	2100
#12	1440	1830	1920	870	915	2975	3160	1240	1735	1490	1990	1920	2300	1330	1050	1900	2770	1000	2590	2450
#13	1560	1980	2080	930	990	3220	3440	1350	1870	1620	2140	2040	2500	1460	1110	2060	2990	1100	2810	2880
#14	1680	2135	2240	990	1068	3450	3710	1450	2000	1735	2295	2160	2700	1575	1170	2220	3210	1200	3030	3150

※상기 FAN 중량은 모터가 제외된 중량입니다. ※Motor weight was not included in the weight of the fan.

**MOTOR BASE**

MOTOR	1HP	2HP	3HP	5HP	7.5HP	10HP	15HP	20HP	25HP	30HP	40HP	50HP	60HP	75HP	100HP	125HP	150HP
G	400	400	450	450	500	500	600	600	650	650	700	700	800	800	900	950	1050

※상기 치수 및 성능 DATA는 성능 및 품질 개선을 위해 예고없이 변경할 수 있습니다.

※The dimensions and performance data can change without notice for performance and quality improvement.



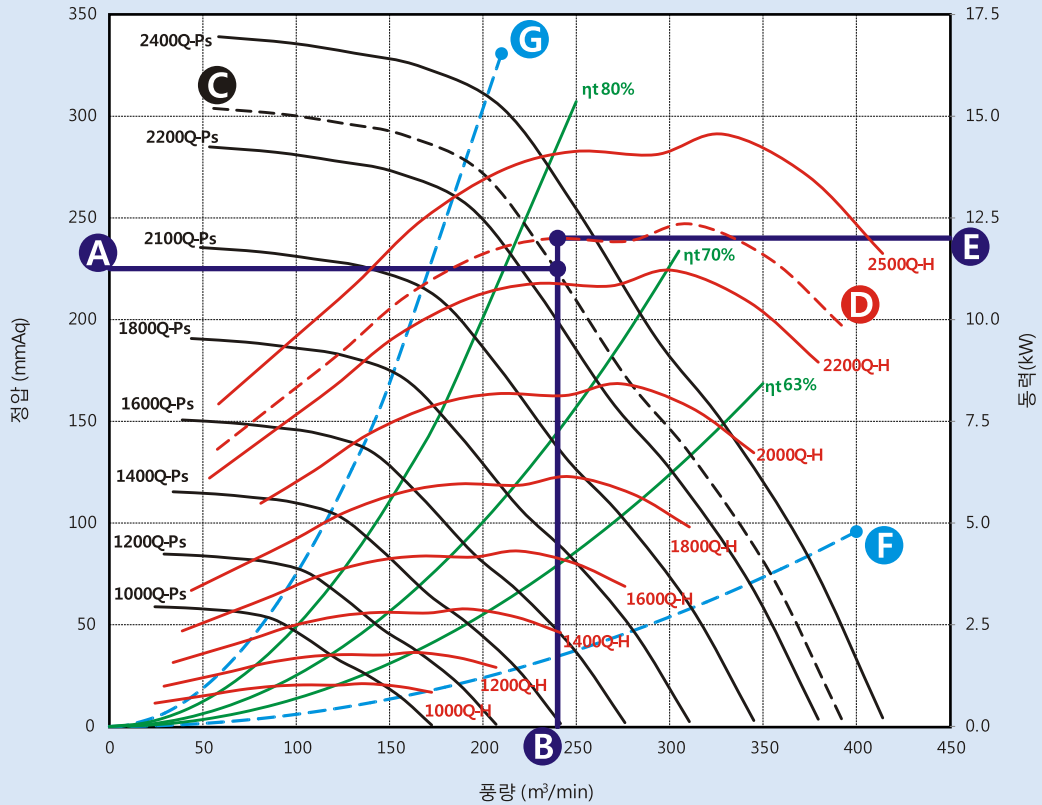
## 팬 선정 방법 예 Fan Selection Example

Impeller overhung on shaft type model name is "GAF-□□□ SS-O".

Impeller mounted on shaft between bearings type model name is "GAF-□□□ SS-C".



그래프 선정 방법



## 송풍기 사용점 선정방법

1. 요구되는 정압에 해당되는 수평선(A)을 긋는다.
2. 요구되는 풍량에 해당되는 수직선(B)을 긋는다.
3. 요구되는 정압(A) 및 풍량(B)의 교점의 예상회전수 및 예상 풍량압력곡선(C)을 구한다.
4. 예상 회전수에서의 예상동력곡선(D)을 추정한다.
5. 예상동력곡선과 만나는 요구 풍량 수직선의 교점을 동력선 좌표로 수평선(E)을 그린다.
6. 사용 권장 상한선(G)과 사용 권장 하한선(F)를 벗어나는 경우 효율적인 송풍기 운영을 위하여 송풍기 모델 및 기종을 변경하는 것이 바람직하다.

ex) 선정정압 ( A ) : 225 mmAq  
 선정풍량 ( B ) : 240 m³/min  
 선정 정압 및 풍량에 의하여 교점에서 만나는 풍량 압력곡선의 예상회전수(C)는 2272rpm 이다.  
 2272 rpm에 해당되는 예상 동력곡선(D)를 그린 후 동력값(E)는 약 11.78kW이다.  
 이때의 예상 전압효율은 약 76% 이다.

## FAN DESIGN POINT SELECTION

1. Corresponding to the static pressure required horizontal line (A) always draw.
2. Draw a vertical line (B) that corresponds to the required air volume.
3. Calculate the estimated rotational speed and estimated air flow pressure curve (C) of the intersection point of the static pressure (A) and air flow rate (B) is required.
4. Estimates the estimated power curve (D) of the expected number of revolutions.
5. The expected power curve and the intersection of the vertical line corresponding to meet demand airflow to the power line coordinates to draw a horizontal line (E).
6. It is preferred to change the blower model and models for the efficient operation if it is not selected within a blower using the recommended upper limit (G) and using the recommended lower limit (F).

**Examples)** Selected static pressure(A) : 225 mmAq  
 Selected airflow rate(B) : 240 m³/min  
 Airflow pressure curve rotation is expected be selected static pressure and air flow (C), meet at the intersection of 2272rpm.  
 After drawing the expected power curve (D) corresponding to 2272 rpm for horizontal movement by a power value to meet the intersection of the vertical line and the air flow (E) is about 11.78kW.  
 The total efficiency is expected at this point is estimated to be about 76%.

At this time, the selected power is the power consumption of a purely impeller.  
 Therefore, when considering the safety factor selected motor and drive loss must be selected and 115-125% larger than the minimum.

# GAF-SS series

## AIR FOIL FAN

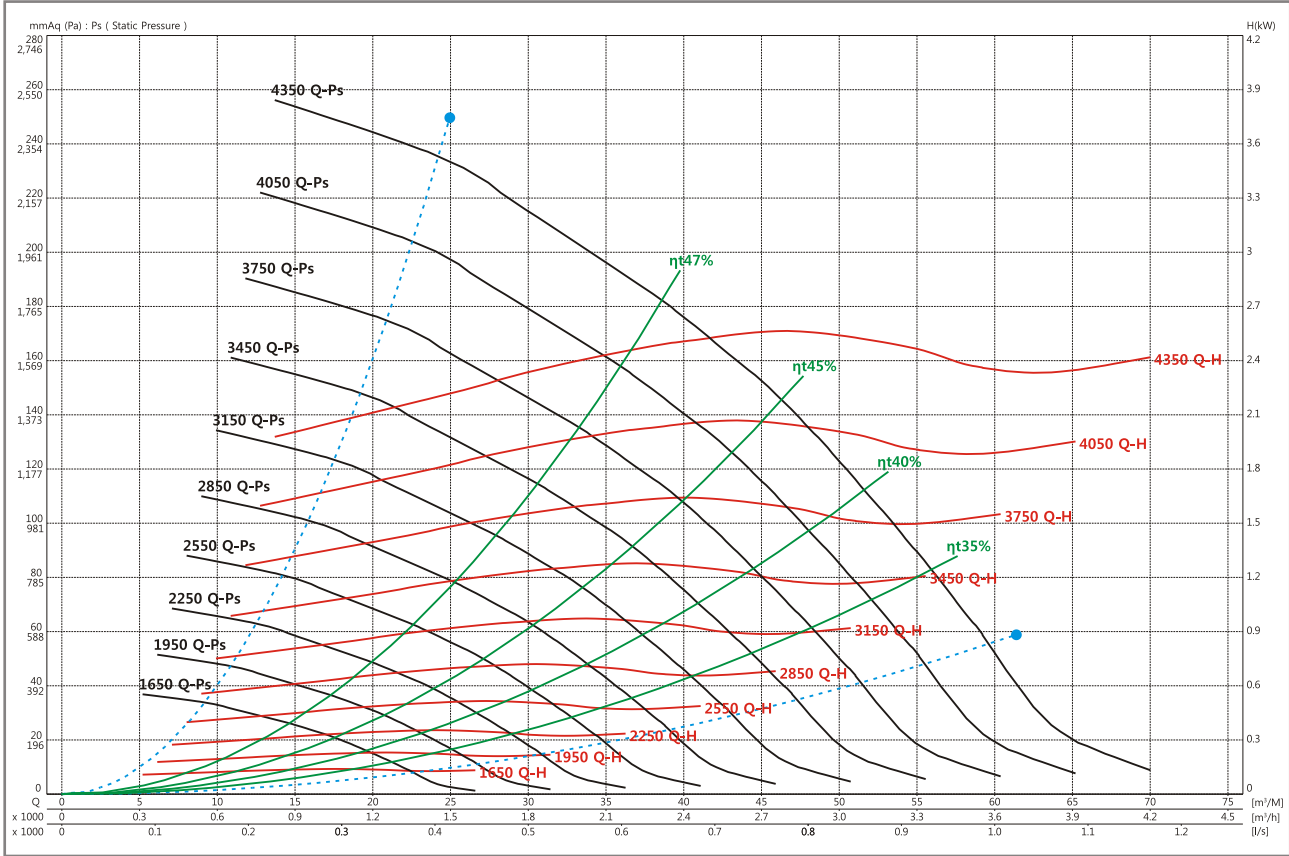
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GAF-2SS

FEG 57

Wheel dia	304 mm	Tip Speed = 0.01592 * rpm	Outlet Dim'	240 * 305	Outlet Area	0.0732 m <sup>2</sup>	Class 1	3769 rpm	Class 2	5026 rpm	Not Applicable
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Air flow (m <sup>3</sup> /min)	Outlet Vel (m/sec)	20 mmAq ( 196 Pa)				30 mmAq ( 294 Pa)				40 mmAq ( 392 Pa)				50 mmAq ( 490 Pa)				60 mmAq ( 588 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
23	5.24	1896	0.21	39.3	86	2070	0.28	43.4	88	2227	0.34	46.0	90	2375	0.41	46.8	91	2517	0.48	47.3	93
26	5.92	2050	0.26	36.4	88	2220	0.34	41.0	90	2357	0.41	44.1	91	2517	0.50	45.3	93	2651	0.57	46.4	94
29	6.60	2228	0.32	33.4	90	2377	0.41	38.4	92	2500	0.48	41.9	93	2628	0.56	44.1	94	2761	0.65	45.3	95
32	7.29	2384	0.39	31.2	92	2522	0.48	36.4	93	2662	0.57	39.3	95	2795	0.67	41.9	96	2899	0.76	43.4	97
35	7.97	2554	0.48	28.8	93	2693	0.57	33.4	95	2819	0.67	37.4	96	2936	0.77	40.1	97	3057	0.88	41.9	98
38	8.65	2772	0.61	25.6	96	2862	0.68	32.3	97	2976	0.79	35.4	98	3076	0.88	38.4	99	3205	1.01	40.1	100
41	9.34	2907	0.70	24.3	97	3022	0.80	30.0	98	3151	0.92	33.4	99	3235	1.02	36.4	100	3362	1.15	38.4	101
44	10.02	3120	0.86	21.8	99	3210	0.95	26.8	100	3313	1.05	31.2	101	3422	1.19	34.4	101	3513	1.30	36.4	102
47	10.70	3303	1.02	20.7	101	3410	1.13	25.6	101	3472	1.21	30.0	102	3577	1.34	33.4	103	3656	1.46	35.4	103
50	11.38	3459	1.17	19.6	102	3556	1.28	24.3	103	3649	1.39	28.8	103	3758	1.54	31.2	104	3847	1.67	33.4	104
53	12.07	3654	1.39	17.7	103	3758	1.51	21.8	104	3853	1.63	26.8	104	3907	1.72	30.0	105	3991	1.85	32.3	105
56	12.75	3843	1.61	17.7	105	3951	1.75	21.8	105	3997	1.82	25.6	105	4086	1.96	28.8	106	4172	2.10	31.2	106

Air flow (m <sup>3</sup> /min)	Outlet Vel (m/sec)	70 mmAq ( 686 Pa)				80 mmAq ( 785 Pa)				90 mmAq ( 883 Pa)				100 mmAq ( 981 Pa)				110 mmAq ( 1079 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
23	5.24	2663	0.57	47.3	95	2794	0.65	47.1	96	2929	0.74	46.9	97	3036	0.81	46.5	98	3166	0.92	46.4	99
26	5.92	2761	0.64	47.2	96	2906	0.74	47.3	97	3020	0.83	47.3	98	3128	0.91	47.1	99	3257	1.02	47.0	100
29	6.60	2888	0.74	46.4	97	3004	0.83	46.8	98	3131	0.94	47.2	99	3250	1.04	47.3	100	3339	1.12	47.3	101
32	7.29	3010	0.85	45.3	98	3119	0.94	46.0	99	3247	1.06	46.4	100	3359	1.16	46.8	101	3462	1.26	47.2	102
35	7.97	3163	0.98	43.4	99	3254	1.07	44.7	100	3381	1.20	45.3	101	3483	1.31	46.0	102	3586	1.42	46.4	103
38	8.65	3307	1.11	41.9	100	3381	1.20	43.4	101	3506	1.34	44.1	102	3574	1.42	45.3	102	3675	1.54	45.8	103
41	9.34	3458	1.26	40.1	102	3536	1.36	41.9	102	3644	1.50	42.7	103	3712	1.59	44.1	103	3816	1.73	44.7	104
44	10.02	3609	1.42	38.4	103	3710	1.56	40.1	103	3774	1.66	41.9	104	3862	1.78	42.7	104	3965	1.93	43.4	105
47	10.70	3752	1.59	37.4	104	3855	1.73	38.4	104	3939	1.87	40.1	105	4031	2.01	41.0	105	4102	2.13	41.9	106
50	11.38	3937	1.82	35.4	105	3992	1.92	37.4	105	4100	2.09	38.4	106	4156	2.19	40.1	106	4251	2.36	41.0	107
53	12.07	4078	2.00	34.4	106	4176	2.17	35.4	106	4231	2.28	37.4	107	4341	2.48	38.4	107				
56	12.75	4261	2.25	32.3	107	4333	2.41	34.4	107												

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 - Power rating BkW does not include V-belt drive, motor efficiency and transmission losses.  
 - The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL(Lw(A)dB(A)) sound power levels for installation type B:(Free inlet, Ducted outlet), Rating do not include the effect of duct end corrections.  
 - Performance certified for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).

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# GAF-SS series

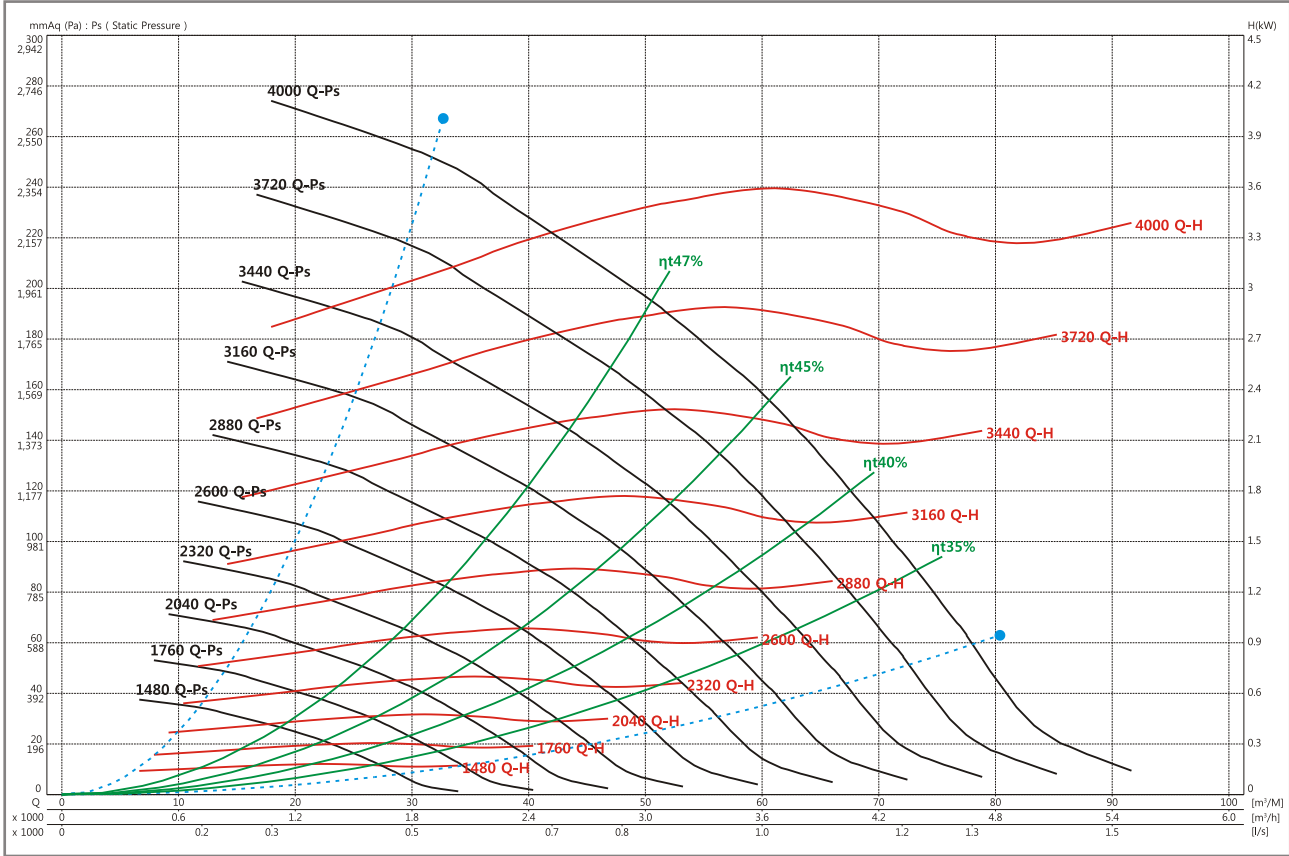
## AIR FOIL FAN

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### GAF-2.25SS FEG 53

Wheel dia	342 mm	Tip Speed =	0.01791 * rpm	Outlet Dim'	270 * 345	Outlet Area	0.0932 m <sup>2</sup>	Class 1	3351 rpm	Class 2	4468 rpm	Not Applicable
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Air flow (m <sup>3</sup> /min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				35 mmAq (343 Pa)				50 mmAq (490 Pa)				65 mmAq (637 Pa)				80 mmAq (785 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
20	3.58					1674	0.25	47.3	86	1908	0.36	46.5	89	2111	0.48	45.6	92	2299	0.60	44.8	94
25	4.47	1535	0.20	42.7	83	1800	0.32	46.4	88	2002	0.43	47.3	90	2225	0.59	47.0	93	2400	0.72	46.4	95
30	5.37	1725	0.28	38.4	87	1946	0.41	44.1	90	2151	0.55	46.4	92	2329	0.69	47.3	94	2514	0.86	47.3	97
35	6.26	1912	0.37	34.4	89	2110	0.52	41.0	92	2287	0.67	44.7	94	2453	0.82	46.4	96	2624	0.99	47.2	98
40	7.16	2112	0.49	31.2	92	2282	0.65	38.4	94	2454	0.82	42.7	96	2607	0.99	44.7	97	2772	1.19	46.0	99
45	8.05	2306	0.63	28.8	94	2475	0.81	35.4	96	2629	1.00	40.1	98	2768	1.18	42.7	99	2917	1.39	44.7	100
50	8.95	2503	0.81	25.6	97	2672	1.00	32.3	98	2804	1.20	37.4	100	2962	1.43	40.1	101	3071	1.61	42.7	102
55	9.84	2739	1.05	21.8	99	2878	1.24	30.0	100	3005	1.45	34.4	101	3126	1.67	38.4	103	3257	1.91	41.0	104
60	10.74	2936	1.29	20.7	101	3075	1.50	26.8	102	3207	1.73	32.3	103	3321	1.98	36.4	104	3451	2.24	38.4	105
65	11.63	3147	1.59	19.6	103	3274	1.80	25.6	104	3401	2.04	30.0	105	3512	2.31	34.4	106	3638	2.60	36.4	107
70	12.52	3368	1.95	17.7	105	3488	2.17	23.6	106	3587	2.39	28.8	106	3702	2.66	32.3	107	3823	2.98	34.4	108
75	13.42	3559	2.31	17.0	106	3714	2.62	21.8	107	3819	2.87	26.8	108	3924	3.14	30.0	108				

Air flow (m <sup>3</sup> /min)	Outlet Vel (m/sec)	95 mmAq (932 Pa)				110 mmAq (1079 Pa)				125 mmAq (1226 Pa)				140 mmAq (1373 Pa)				155 mmAq (1520 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
20	3.58	2471	0.73	43.5	96																
25	4.47	2574	0.87	45.8	97	2711	0.99	45.0	99	2867	1.17	44.6	100	3000	1.31	43.5	101	3146	1.51	43.0	103
30	5.37	2675	1.01	46.9	98	2830	1.18	46.5	100	2968	1.35	46.0	101	3108	1.53	45.6	102	3236	1.70	45.2	103
35	6.26	2776	1.16	47.3	99	2948	1.38	47.3	101	3086	1.56	47.0	102	3211	1.74	46.7	103	3341	1.94	46.4	104
40	7.16	2910	1.36	46.8	100	3064	1.58	47.2	102	3184	1.75	47.3	103	3326	1.98	47.3	104	3448	2.19	47.1	105
45	8.05	3057	1.60	45.5	102	3191	1.81	46.4	103	3327	2.03	46.9	104	3448	2.25	47.2	105	3563	2.46	47.4	106
50	8.95	3211	1.85	44.1	103	3323	2.06	45.3	104	3465	2.33	46.0	105	3583	2.56	46.5	106	3700	2.80	46.9	107
55	9.84	3372	2.14	42.7	104	3497	2.39	43.6	105	3616	2.65	44.7	106	3725	2.90	45.5	107	3841	3.17	46.1	108
60	10.74	3552	2.48	41.0	106	3676	2.76	41.9	107	3757	2.97	43.4	107	3881	3.28	44.3	108	3968	3.51	45.1	108
65	11.63	3743	2.86	38.4	107	3847	3.14	40.1	108	3929	3.37	41.9	108								
70	12.52	3924	3.27	36.4	109	4000	3.49	38.4	109												
75	13.42																				

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 - Performance certified is for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).

GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

## AIR FOIL FAN

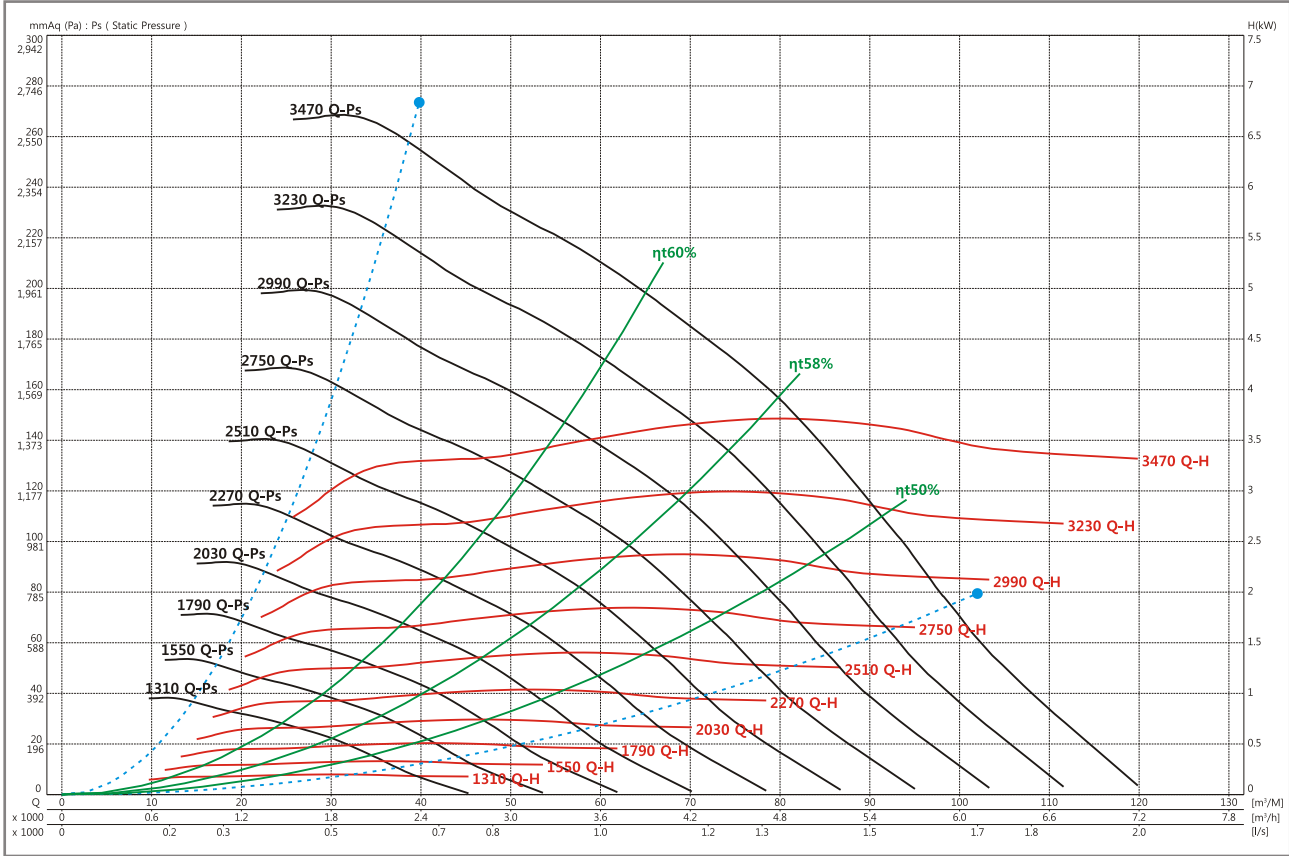
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GAF-2.5SS

FEG 67

Wheel dia	381 mm	Tip Speed =	0.01995 * rpm	Outlet Dim'	300 * 380	Outlet Area	0.1140 m <sup>2</sup>	Class 1	3008 rpm	Class 2	4010 rpm	Not Applicable
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Air flow (m <sup>3</sup> /min)	Outlet Vel (m/sec)	20 mmAq ( 196 Pa)				40 mmAq ( 392 Pa)				60 mmAq ( 588 Pa)				80 mmAq ( 785 Pa)				100 mmAq ( 981 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
		m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA
35	5.12	1391	0.24	52.3	75	1657	0.40	59.4	83	1897	0.58	60.0	91	2115	0.79	59.2	94	2314	1.01	57.9	96
40	5.85	1501	0.29	48.9	79	1744	0.47	58.1	81	1984	0.68	59.7	90	2184	0.89	60.0	94	2372	1.12	59.4	96
45	6.58	1639	0.38	44.7	82	1864	0.57	55.3	83	2072	0.79	59.0	88	2261	1.01	59.8	94	2449	1.26	60.0	96
50	7.31	1755	0.45	41.7	84	1983	0.68	52.3	85	2171	0.91	57.5	86	2344	1.14	59.4	92	2527	1.41	59.8	96
55	8.04	1886	0.56	38.5	86	2092	0.80	50.0	87	2280	1.05	55.3	88	2448	1.30	58.3	90	2619	1.58	59.4	95
60	8.77	2032	0.69	35.5	88	2220	0.94	46.3	90	2383	1.19	53.5	90	2551	1.47	56.8	90	2696	1.74	58.8	94
65	9.50	2148	0.81	33.9	90	2340	1.09	44.7	91	2516	1.39	50.5	92	2648	1.64	55.0	92	2802	1.95	57.5	93
70	10.23	2293	0.98	31.3	92	2482	1.29	41.7	93	2625	1.57	48.9	94	2779	1.89	52.7	94	2906	2.18	56.2	94
75	10.96	2415	1.14	29.7	94	2605	1.47	39.8	94	2745	1.78	46.3	95	2899	2.13	50.5	96	3029	2.45	53.9	96
80	11.70	2541	1.33	28.0	95	2743	1.70	37.2	96	2879	2.03	44.3	97	3002	2.35	48.9	97	3135	2.71	52.3	97
85	12.43	2689	1.57	26.4	97	2878	1.96	35.5	98	3019	2.31	41.7	98	3142	2.67	46.7	99	3251	3.00	50.5	99
90	13.16	2824	1.81	25.4	98	3009	2.23	33.9	99	3149	2.61	40.3	99	3278	3.01	44.7	100	3375	3.34	48.6	100

Air flow (m <sup>3</sup> /min)	Outlet Vel (m/sec)	120 mmAq ( 1177 Pa)				140 mmAq ( 1373 Pa)				160 mmAq ( 1569 Pa)				180 mmAq ( 1765 Pa)				200 mmAq ( 1961 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
		m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	
35	5.12	2488	1.23	56.0	97	2652	1.48	54.9	99	2801	1.74	53.2	100	2945	2.02	52.0	101	3068	2.27	50.3	102	
40	5.85	2546	1.35	58.3	98	2713	1.61	57.0	99	2872	1.89	56.0	101	3014	2.18	54.9	102	3141	2.46	53.5	103	
45	6.58	2613	1.50	59.6	98	2781	1.79	59.0	100	2927	2.04	57.9	101	3076	2.34	57.0	102	3211	2.65	56.0	103	
50	7.31	2686	1.66	60.0	98	2849	1.96	59.8	100	3000	2.26	59.4	102	3133	2.54	58.6	103	3273	2.86	57.9	104	
55	8.04	2769	1.85	59.8	98	2930	2.17	60.0	100	3064	2.45	59.9	102	3201	2.76	59.6	103	3336	3.10	59.2	104	
60	8.77	2858	2.06	59.5	97	3004	2.37	59.8	100	3145	2.69	60.0	102	3278	3.02	60.0	103	3405	3.35	59.8	104	
65	9.50	2943	2.26	58.8	96	3088	2.60	59.5	99	3226	2.94	59.7	101	3349	3.26	59.9	103	3470	3.59	60.0	104	
70	10.23	3046	2.51	57.7	95	3170	2.82	59.0	98	3315	3.22	59.4	101	3436	3.56	59.7	103					
75	10.96	3144	2.76	56.5	96	3264	3.09	58.0	97	3396	3.48	58.8	100									
80	11.70	3252	3.04	55.0	98	3378	3.42	56.8	98													
85	12.43	3371	3.38	53.5	99	3470	3.70	55.3	100													
90	13.16																					

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# GAF-SS series

## AIR FOIL FAN

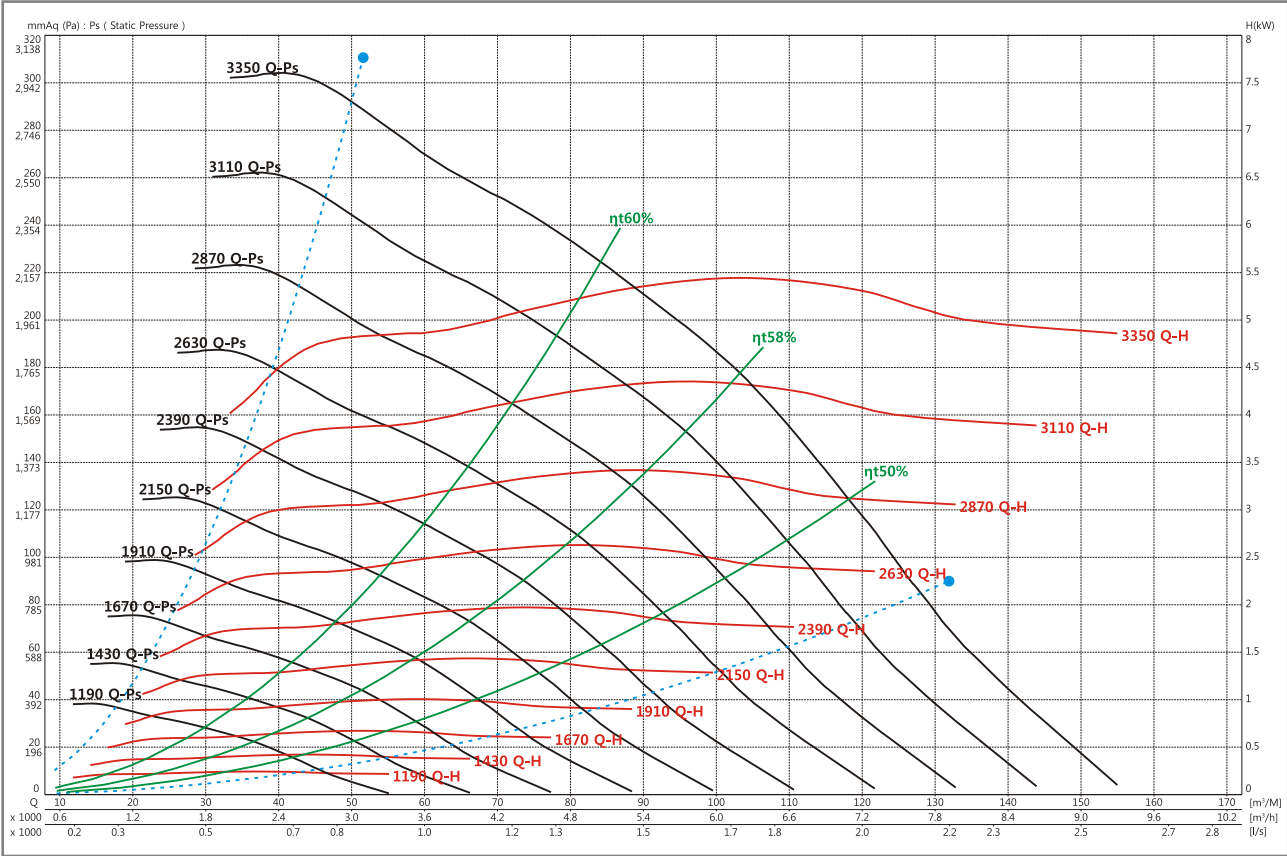
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AIR FOIL FAN  
GAF-SS series

### GAF-2.75SS FEG 67

Wheel dia	420 mm	Tip Speed = 0.02199 * rpm	Outlet Dim'	330 * 420	Outlet Area	0.1386 m <sup>2</sup>	Class 1	2728 rpm	Class 2	3638 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	20 mmAq ( 196 Pa)				40 mmAq ( 392 Pa)				60 mmAq ( 588 Pa)				80 mmAq ( 785 Pa)				100 mmAq ( 981 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
45	5.41	1306	0.32	51.0	77	1534	0.52	59.0	82	1747	0.75	60.0	91	1941	1.00	59.7	95	2118	1.27	58.6	97
52	6.25	1436	0.41	46.3	81	1646	0.64	56.5	81	1842	0.90	59.4	89	2017	1.15	60.0	95	2191	1.45	59.9	97
59	7.09	1565	0.53	43.1	84	1754	0.77	53.5	85	1932	1.04	58.1	87	2115	1.36	59.5	93	2269	1.65	59.9	97
66	7.94	1711	0.68	38.5	87	1879	0.94	50.0	88	2047	1.24	55.6	88	2207	1.55	58.5	91	2363	1.89	59.5	96
73	8.78	1846	0.84	35.5	89	2016	1.15	46.3	90	2164	1.45	53.5	90	2314	1.79	56.8	91	2449	2.12	58.8	94
80	9.62	1976	1.02	32.9	91	2150	1.37	43.5	92	2284	1.69	50.5	92	2424	2.05	55.0	93	2551	2.40	57.3	93
87	10.46	2117	1.25	30.7	93	2277	1.61	41.3	94	2418	1.99	47.7	95	2544	2.35	52.3	95	2673	2.75	55.3	95
94	11.30	2249	1.50	28.6	95	2419	1.91	38.5	96	2556	2.32	45.1	96	2667	2.69	50.0	97	2785	3.10	53.3	97
101	12.15	2390	1.79	27.0	97	2553	2.23	36.6	97	2682	2.66	43.1	98	2792	3.07	47.7	98	2920	3.55	51.0	99
108	12.99	2527	2.12	25.4	98	2697	2.61	33.9	99	2826	3.07	40.3	100	2940	3.54	45.1	100	3044	3.99	48.9	100
115	13.83	2667	2.48	24.3	100	2822	2.98	32.9	100	2963	3.51	38.5	101	3081	4.03	43.1	102	3172	4.48	46.7	102
122	14.67	2798	2.87	23.8	101	2970	3.46	30.7	102	3098	3.99	36.6	102	3203	4.49	41.3	103	3311	5.06	45.1	103

Air flow (m³/min)	Outlet Vel (m/sec)	120 mmAq ( 1177 Pa)				140 mmAq ( 1373 Pa)				160 mmAq ( 1569 Pa)				180 mmAq ( 1765 Pa)				200 mmAq ( 1961 Pa)				
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	
45	5.41	2278	1.55	57.0	98	2433	1.87	55.7	100	2563	2.17	54.2	101	2695	2.52	53.2	102	2816	2.87	52.0	103	
52	6.25	2344	1.75	59.2	99	2495	2.07	58.3	101	2633	2.39	57.0	102	2764	2.74	56.0	103	2882	3.10	54.9	104	
59	7.09	2417	1.96	60.0	99	2561	2.30	59.6	101	2700	2.66	59.0	102	2829	3.02	58.3	103	2952	3.39	57.4	104	
66	7.94	2510	2.24	59.8	99	2637	2.57	60.0	101	2772	2.95	59.9	102	2895	3.32	59.5	104	3018	3.72	59.0	105	
73	8.78	2592	2.50	59.5	98	2725	2.88	59.8	101	2853	3.27	60.0	103	2973	3.66	60.0	104	3089	4.07	59.8	105	
80	9.62	2682	2.79	58.8	96	2813	3.20	59.4	99	2939	3.62	59.7	102	3061	4.07	59.9	104	3170	4.48	60.0	105	
87	10.46	2785	3.12	57.5	96	2911	3.57	58.6	98	3022	3.97	59.3	101	3146	4.46	59.6	103	3257	4.92	59.8	105	
94	11.30	2908	3.55	55.6	97	3008	3.94	57.5	98	3121	4.40	58.5	100	3238	4.90	59.1	102	3347	5.39	59.5	104	
101	12.15	3017	3.94	53.9	99	3127	4.41	55.8	99	3221	4.84	57.5	99	3331	5.35	58.3	101					
108	12.99	3142	4.43	51.9	101	3247	4.92	53.9	101	3342	5.39	55.8	101									
115	13.83	3262	4.93	50.0	102																	
122	14.67																					

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 - Performance certified for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).

GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

# AIR FOIL FAN

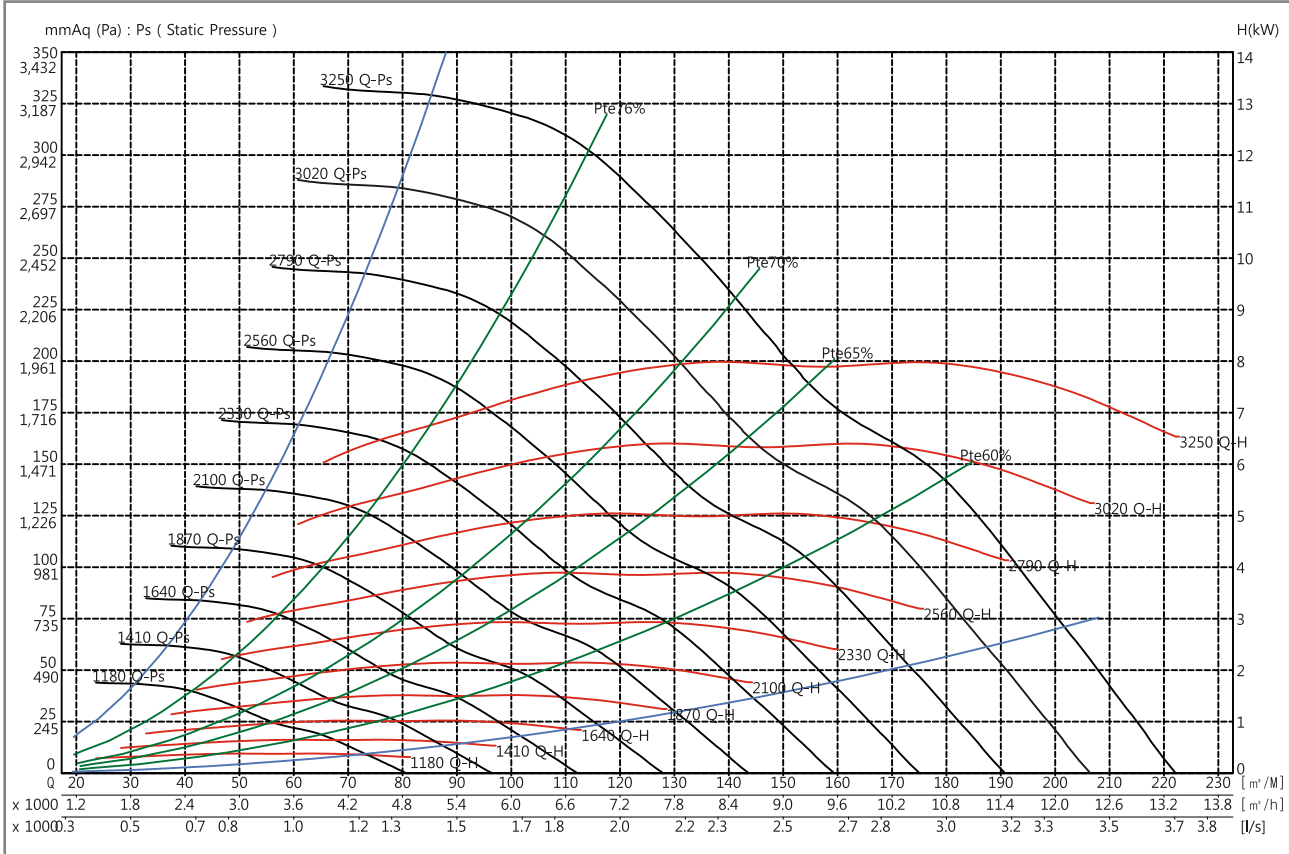
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GAF-3SS

FEG 80

Wheel dia	457 mm	Tip Speed =	0.02393 * rpm	Outlet Dim'	360 * 455	Outlet Area	0.1638 m <sup>2</sup>	Class 1	2507 rpm	Class 2	3343 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
		m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA
50	5.09					1356	0.56	74.9	77	1579	0.84	74.3	80	1799	1.17	70.9	83				
60	6.11	1227	0.42	63.6	76	1451	0.71	72.1	80	1651	1.01	75.2	83	1835	1.33	75.0	85	2023	1.72	72.7	87
70	7.12	1308	0.52	61.7	78	1568	0.89	68.4	83	1744	1.22	72.9	85	1909	1.57	75.1	87	2068	1.94	75.4	89
80	8.14	1423	0.66	57.7	81	1681	1.09	65.0	85	1849	1.46	70.3	87	2002	1.84	73.2	89	2146	2.23	74.9	90
90	9.16	1537	0.82	53.7	83	1772	1.28	63.0	87	1961	1.74	67.4	89	2110	2.18	70.8	91	2246	2.61	72.9	92
100	10.18	1675	1.05	49.0	86	1859	1.49	61.6	88	2073	2.04	64.7	91	2227	2.55	68.3	93	2355	3.03	70.8	94
110	11.19	1807	1.30	45.6	88	1966	1.75	59.3	90	2170	2.36	63.0	92	2340	2.94	65.8	94	2461	3.45	68.8	95
120	12.21	1935	1.57	42.6	90	2090	2.08	55.5	92	2257	2.67	61.9	94	2442	3.35	63.8	95	2576	3.93	66.6	96
130	13.23	2062	1.88	40.6	92	2217	2.46	52.6	93	2357	3.03	59.9	95	2532	3.75	62.7	96	2691	4.47	64.3	98
140	14.25	2208	2.28	37.9	94	2344	2.87	49.4	95	2470	3.46	57.7	96	2619	4.17	61.7	97	2787	4.99	63.1	99
150	15.26	2338	2.68	36.5	95	2467	3.32	47.3	96	2593	3.98	55.1	97	2718	4.65	60.4	98	2868	5.47	62.4	100
160	16.28	2481	3.16	34.0	97	2611	3.89	44.7	98	2725	4.57	52.6	99	2837	5.26	58.0	100	2959	6.02	61.4	101

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
		m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	
50	5.09																					
60	6.11	2199	2.12	70.0	89																	
70	7.12	2229	2.35	74.0	90	2391	2.82	72.4	92	2540	3.28	70.2	93									
80	8.14	2286	2.65	75.5	91	2427	3.09	75.0	93	2571	3.59	73.7	94	2711	4.12	72.4	95	2845	4.65	70.9	96	
90	9.16	2380	3.07	74.4	93	2502	3.51	75.3	94	2624	3.99	75.4	95	2752	4.52	75.0	96	2878	5.07	74.0	97	
100	10.18	2474	3.49	72.8	94	2590	3.97	74.2	95	2706	4.48	75.1	96	2814	4.97	75.5	97	2928	5.53	75.4	98	
110	11.19	2584	4.01	70.8	96	2698	4.55	74.2	97	2804	5.07	73.6	98	2905	5.58	74.5	98	3011	6.17	75.2	99	
120	12.21	2691	4.51	68.8	97	2796	5.08	70.8	98	2902	5.67	72.1	99	3003	6.25	73.2	100	3096	6.80	74.2	100	
130	13.23	2811	5.12	66.7	99	2912	5.72	68.8	99	3007	6.32	70.5	100	3105	6.96	71.7	101	3196	7.56	72.8	101	
140	14.25	2918	5.71	65.0	100	3030	6.42	66.8	101	3123	7.06	68.7	101	3218	7.75	70.1	102					
150	15.26	3021	6.35	63.4	101	3144	7.15	65.0	102	3244	7.87	66.7	103									
160	16.28	3106	6.93	62.7	102	3241	7.84	63.7	103													

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# GAF-SS series

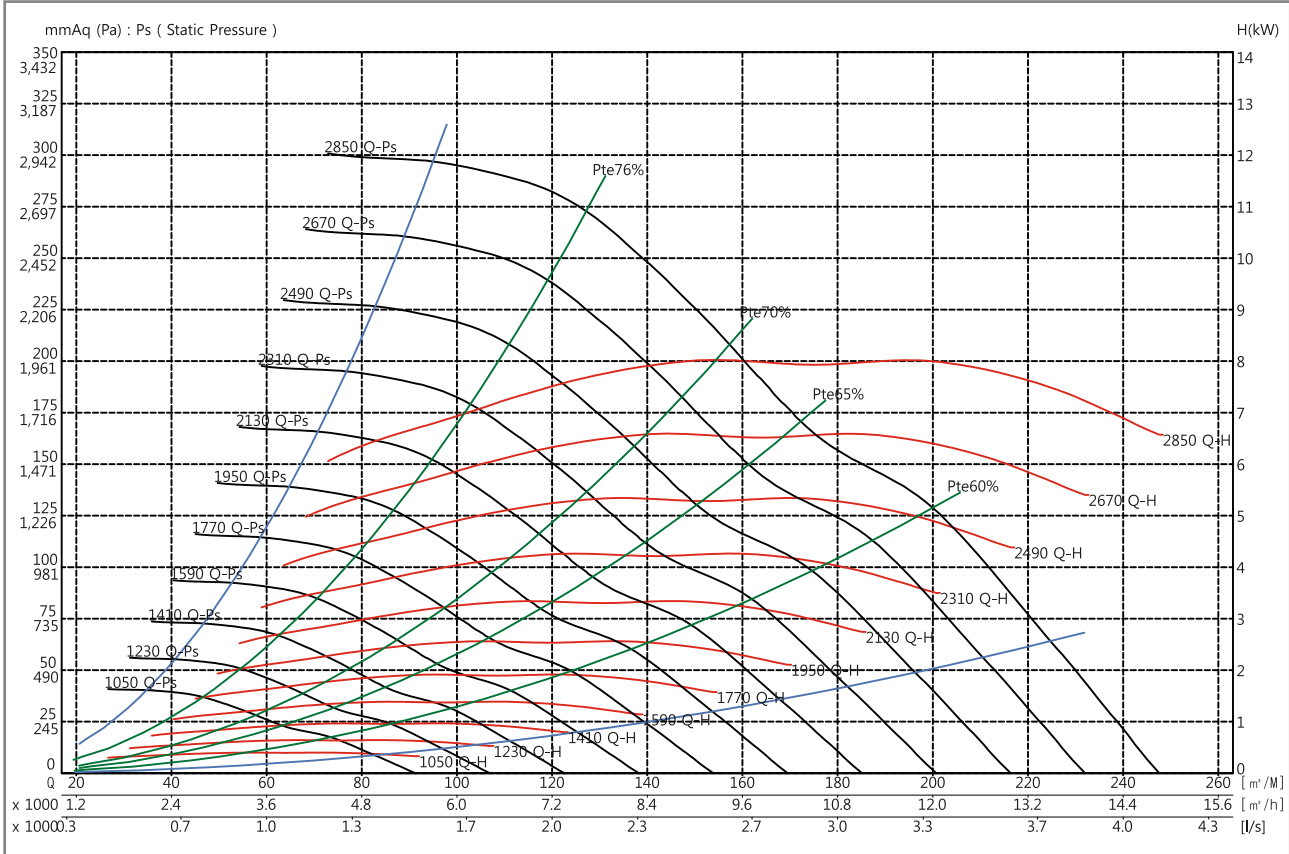
## AIR FOIL FAN

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### GAF-3.25SS FEG 80

Wheel dia	495 mm	Tip Speed = 0.02592 * rpm	Outlet Dim'	390 * 495	Outlet Area	0.1931 m <sup>2</sup>	Class 1	2315 rpm	Class 2	3087 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
70	6.04	1127	0.49	63.8	76	1339	0.83	72.1	80	1517	1.17	75.3	83	1694	1.56	75.0	85	1866	2.00	72.4	87
80	6.91	1196	0.59	62.1	78	1431	1.01	69.0	82	1592	1.38	73.5	85	1746	1.78	75.3	87	1898	2.21	75.1	88
90	7.77	1278	0.72	59.3	80	1516	1.19	66.0	84	1674	1.62	71.2	86	1817	2.04	74.0	88	1956	2.50	75.3	90
100	8.63	1371	0.88	55.5	83	1603	1.41	63.6	86	1762	1.88	68.8	88	1900	2.37	72.1	90	2031	2.86	74.0	91
110	9.50	1471	1.07	51.4	85	1667	1.60	62.5	87	1852	2.17	66.4	90	1990	2.72	69.8	92	2109	3.23	72.4	93
120	10.36	1573	1.29	48.1	87	1741	1.82	60.9	89	1938	2.49	64.2	91	2080	3.09	67.7	93	2194	3.65	70.5	94
130	11.22	1673	1.53	45.6	88	1824	2.09	58.8	90	2012	2.80	62.9	93	2164	3.47	65.8	95	2287	4.12	68.5	96
140	12.09	1777	1.82	43.4	90	1919	2.41	56.1	92	2078	3.10	62.1	94	2252	3.91	63.8	96	2378	4.61	66.6	97
150	12.95	1881	2.13	40.6	92	2018	2.77	53.3	93	2157	3.47	60.5	95	2321	4.30	62.9	97	2461	5.11	64.8	98
160	13.81	1990	2.49	38.8	94	2122	3.19	50.6	95	2241	3.86	58.5	96	2387	4.70	62.2	97	2538	5.61	63.6	99
170	14.68	2097	2.89	37.0	95	2225	3.65	48.1	96	2333	4.34	56.5	97	2460	5.15	61.1	98	2605	6.09	62.8	99
180	15.54	2206	3.34	35.5	96	2326	4.13	46.0	97	2434	4.89	54.4	98	2547	5.69	59.3	99	2675	6.63	62.1	100

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
70	6.04	2030	2.49	70.0	89																	
80	6.91	2054	2.72	73.5	90	2202	3.25	71.7	92	2342	3.80	69.4	93									
90	7.77	2091	2.99	75.4	91	2227	3.51	74.3	93	2363	4.09	72.7	94	2494	4.70	71.3	95	2620	5.34	69.7	96	
100	8.63	2153	3.35	75.2	93	2274	3.88	75.5	94	2395	4.44	75.0	95	2521	5.08	74.0	96	2642	5.72	72.7	97	
110	9.50	2225	3.76	74.0	94	2343	4.34	74.9	95	2450	4.89	75.5	96	2561	5.50	75.4	97	2672	6.14	74.8	98	
120	10.36	2306	4.23	72.4	95	2410	4.79	73.9	96	2518	5.40	74.7	97	2620	6.02	75.3	98	2718	6.64	75.5	98	
130	11.22	2386	4.70	70.8	96	2491	5.33	72.4	97	2594	5.99	73.6	98	2691	6.63	74.4	99	2787	7.30	75.1	99	
140	12.09	2478	5.26	69.0	98	2577	5.93	70.8	98	2675	6.62	72.1	99	2767	7.28	73.4	100					
150	12.95	2568	5.82	67.1	99	2666	6.55	69.2	100	2755	7.25	70.8	100	2844	7.96	72.1	101					
160	13.81	2658	6.44	65.6	100	2755	7.21	67.7	101	2850	8.00	69.2	101									
170	14.68	2740	7.05	64.1	101	2847	7.92	66.0	102													
180	15.54	2816	7.67	63.2	101																	

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 - Performance certified for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).

GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

# AIR FOIL FAN

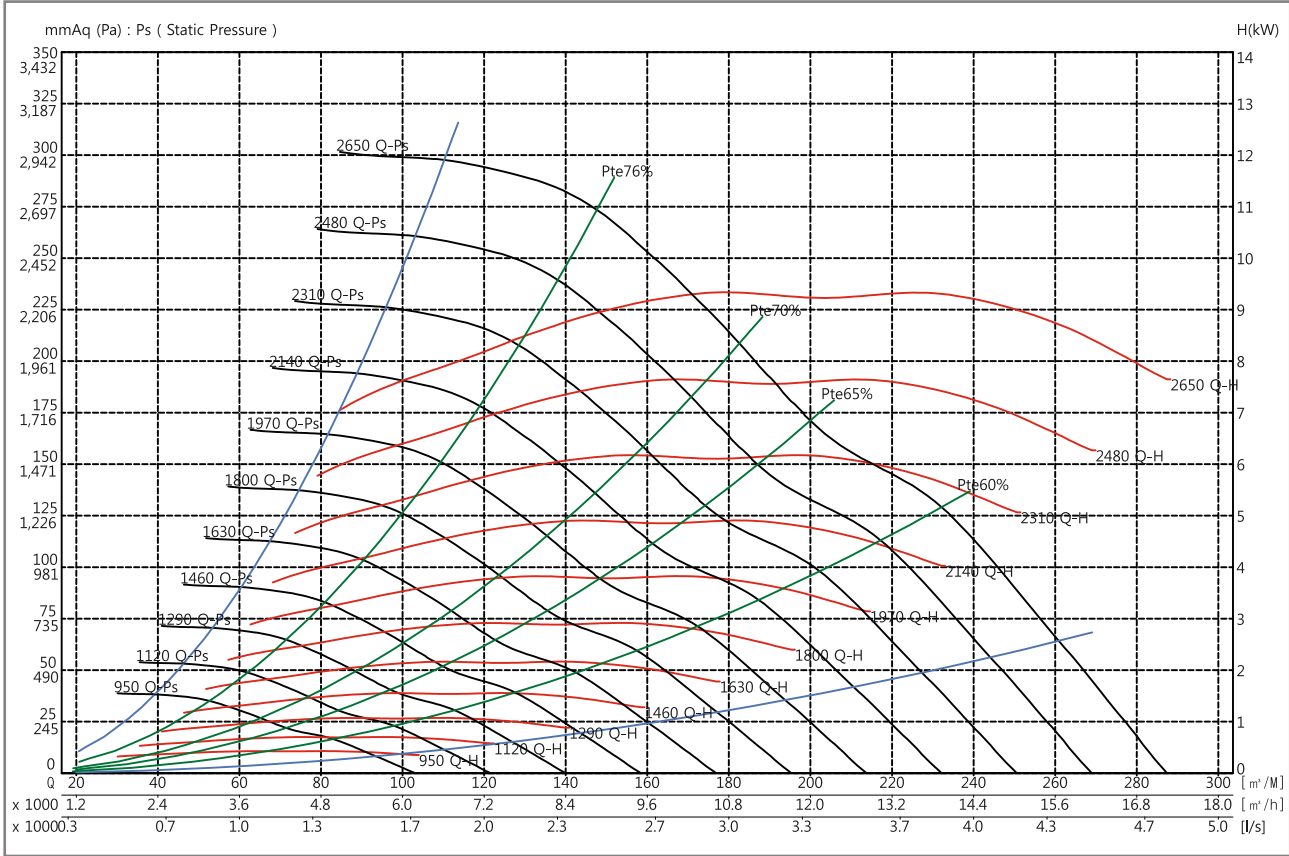
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GAF-3.5SS

FEG 80

Wheel dia	533 mm	Tip Speed = 0.02791 * rpm	Outlet Dim'	420 * 535	Outlet Area	0.2247 m <sup>2</sup>	Class 1	2150 rpm	Class 2	2867 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
		m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA
90	6.68	1094	0.65	62.5	78	1307	1.12	69.8	82	1461	1.54	74.0	84	1608	2.0	75.5	86	1755	2.51	74.8	88
100	7.42	1152	0.76	60.5	80	1373	1.29	67.4	84	1524	1.76	72.1	86	1666	2.3	74.4	88	1795	2.77	75.5	89
110	8.16	1226	0.91	57.7	82	1450	1.51	64.7	85	1597	2.03	69.9	88	1727	2.6	72.9	89	1848	3.09	74.7	91
120	8.90	1300	1.08	54.4	83	1510	1.71	63.2	87	1668	2.31	67.7	89	1795	2.9	71.2	91	1908	3.44	73.5	92
130	9.64	1381	1.28	51.4	85	1560	1.90	62.3	88	1738	2.60	65.8	91	1862	3.2	69.3	92	1978	3.87	71.8	93
140	10.38	1469	1.52	48.1	87	1622	2.14	60.9	89	1808	2.93	63.9	92	1936	3.6	67.7	93	2043	4.27	70.3	95
150	11.13	1551	1.77	45.6	89	1692	2.41	58.8	90	1861	3.20	63.0	93	2006	4.0	65.8	95	2114	4.72	68.7	96
160	11.87	1629	2.03	43.4	90	1769	2.73	56.5	92	1918	3.53	62.2	94	2075	4.4	64.2	96	2187	5.20	67.0	97
170	12.61	1718	2.36	41.4	92	1842	3.07	54.4	93	1972	3.84	61.2	95	2134	4.8	63.2	97	2259	5.71	65.4	98
180	13.35	1799	2.69	40.2	93	1923	3.46	52.2	94	2042	4.25	59.7	96	2189	5.2	62.5	97	2325	6.23	64.1	99
190	14.09	1887	3.07	37.9	94	2005	3.89	50.2	96	2118	4.71	57.7	97	2241	5.6	61.8	98	2385	6.75	63.2	99
200	14.83	1968	3.46	37.0	96	2085	4.34	48.1	97	2194	5.20	55.5	98	2304	6.1	60.7	99	2436	7.22	62.6	100

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
		m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	
90	6.68	1900	3.07	72.7	90	2039	3.68	70.7	92	2169	4.33	68.7	93									
100	7.42	1926	3.34	75.0	91	2059	3.96	73.4	92	2186	4.61	71.7	94	2309	5.30	70.0	95					
110	8.16	1970	3.67	75.5	92	2086	4.26	75.1	93	2207	4.93	74.0	95	2328	5.66	72.7	96	2442	6.39	71.3	97	
120	8.90	2025	4.06	74.7	93	2129	4.64	75.5	94	2239	5.31	75.3	95	2352	6.04	74.7	96	2462	6.80	73.5	97	
130	9.64	2084	4.48	73.6	94	2187	5.12	74.7	95	2284	5.75	75.4	96	2387	6.47	75.4	97	2487	7.20	75.0	98	
140	10.38	2148	4.95	72.2	96	2249	5.64	73.6	96	2344	6.32	74.6	97	2434	6.99	75.3	98	2529	7.75	75.5	99	
150	11.13	2216	5.45	70.8	97	2313	6.18	72.4	97	2406	6.91	73.6	98	2496	7.65	74.4	99	2582	8.39	75.2	100	
160	11.87	2287	5.98	69.3	98	2375	6.71	71.2	98	2469	7.52	72.5	99	2554	8.27	73.6	100	2641	9.09	74.3	100	
170	12.61	2357	6.53	67.8	99	2448	7.35	69.8	99	2535	8.17	71.2	100	2620	9.00	72.4	101					
180	13.35	2428	7.11	66.4	100	2520	8.00	68.4	100	2606	8.87	69.9	101									
190	14.09	2497	7.73	65.0	100	2593	8.67	66.8	101													
200	14.83	2565	8.37	63.8	101																	

- Air performance and Sound performance of can be changed without notice for performance and quality improvement.  
 - Power rating BkW does not include V-belt drive, motor efficiency and transmission losses.  
 - The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL(LwiA(dBA)) sound power levels for installation type B:(free inlet, Ducted outlet), Rating do not include the effect of duct end corrections.  
 - Performance certified is for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).



# GAF-SS series

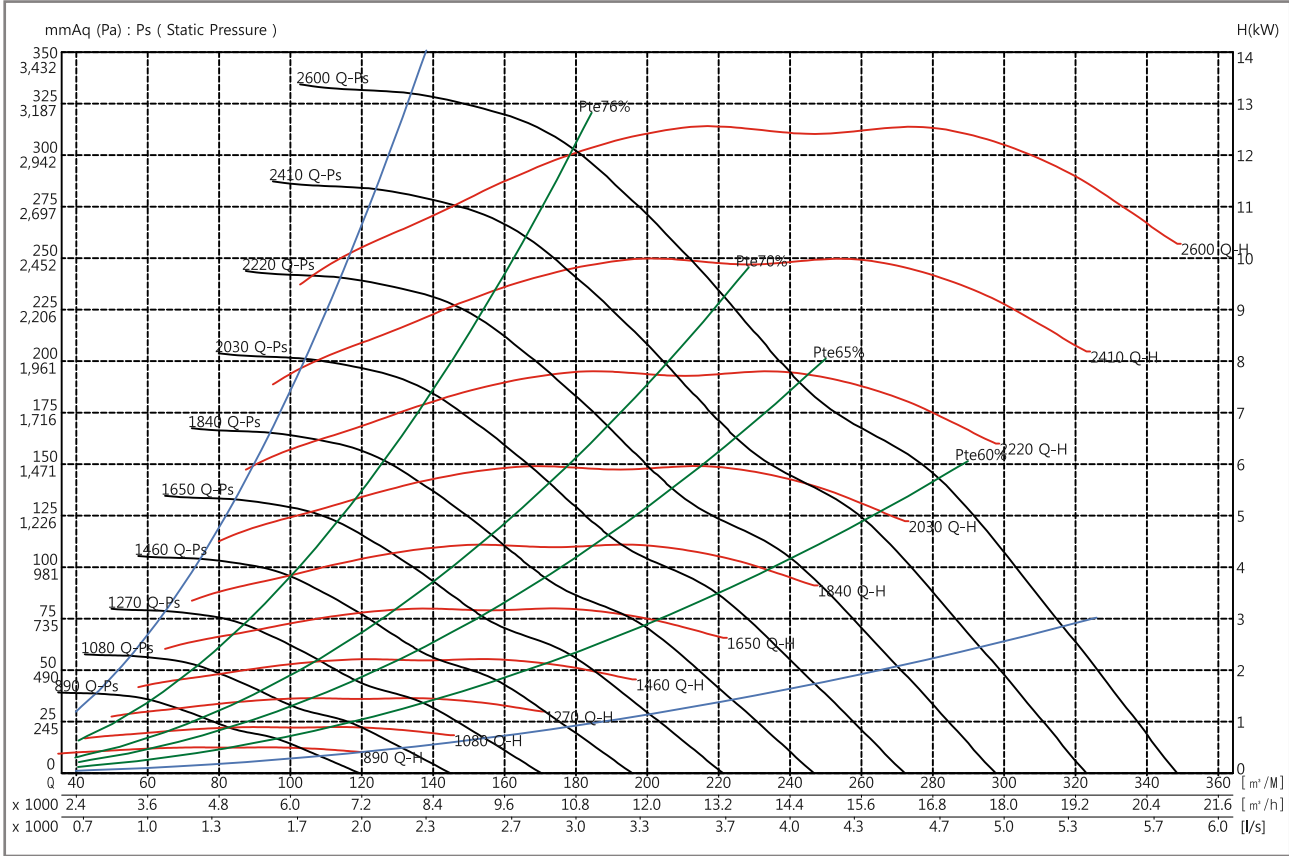
# AIR FOIL FAN

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## GAF-3.75SS FEG 80

Wheel dia	572 mm	Tip Speed =	0.02995 * rpm	Outlet Dim'	450 * 570	Outlet Area	0.2565 m <sup>2</sup>	Class 1	2003 rpm	Class 2	2671 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
95	6.17	981	0.67	63.6	77	1166	1.13	71.8	81	1321	1.59	75.1	83	1469	2.11	75.1	86	1618	2.71	72.9	88
110	7.15	1047	0.82	61.7	79	1253	1.39	68.4	83	1394	1.91	72.9	85	1525	2.45	75.1	87	1652	3.04	75.4	89
125	8.12	1133	1.03	58.0	82	1342	1.70	65.0	85	1476	2.29	70.3	87	1599	2.89	73.2	89	1714	3.49	74.9	91
140	9.10	1226	1.28	53.7	84	1415	2.01	63.0	87	1567	2.72	67.4	90	1680	3.38	71.0	91	1788	4.04	73.2	92
155	10.07	1324	1.59	49.4	86	1481	2.31	61.7	89	1650	3.17	64.8	91	1769	3.93	68.5	93	1870	4.66	71.2	94
170	11.05	1424	1.95	46.0	88	1561	2.70	59.3	90	1726	3.64	63.1	93	1853	4.49	66.3	94	1958	5.33	69.0	96
185	12.02	1524	2.36	43.4	90	1648	3.15	56.5	92	1789	4.07	62.2	94	1936	5.12	64.1	96	2045	6.06	66.8	97
200	13.00	1626	2.83	40.6	92	1745	3.70	53.3	94	1865	4.61	60.5	95	2007	5.73	62.9	97	2128	6.80	64.8	99
215	13.97	1728	3.36	38.8	94	1841	4.30	50.6	95	1948	5.23	58.4	97	2071	6.33	62.1	98	2206	7.59	63.4	100
230	14.94	1832	3.97	37.0	96	1941	4.99	48.1	97	2041	5.97	56.0	98	2145	7.04	60.7	99	2270	8.32	62.6	100
245	15.92	1942	4.68	35.0	97	2046	5.78	45.6	98	2138	6.80	53.3	99	2233	7.89	58.8	100	2335	9.09	61.8	101
260	16.89	2046	5.42	33.5	99	2143	6.59	43.8	100	2236	7.71	51.0	101	2322	8.82	56.8	101	2410	9.98	60.5	102

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
95	6.17	1758	3.34	70.4	90																	
110	7.15	1783	3.70	74.1	91	1910	4.42	72.4	92	2030	5.15	70.4	94	2143	5.95	68.7	95					
125	8.12	1825	4.14	75.5	92	1939	4.85	75.0	93	2054	5.62	73.7	95	2166	6.46	72.4	96	2273	7.29	70.9	97	
140	9.10	1892	4.72	74.6	94	1992	5.42	75.4	95	2093	6.20	75.4	96	2194	6.99	74.8	97	2296	7.87	73.7	98	
155	10.07	1971	5.43	72.9	95	2064	6.17	74.2	96	2155	6.95	75.1	97	2244	7.73	75.5	98	2333	8.56	75.3	99	
170	11.05	2049	6.13	71.2	97	2138	6.94	72.7	98	2223	7.74	74.0	98	2311	8.62	74.7	99	2391	9.44	75.3	100	
185	12.02	2136	6.93	69.2	98	2221	7.82	71.0	99	2304	8.71	72.4	100	2385	9.60	73.5	100	2461	10.5	74.3	101	
200	13.00	2221	7.77	67.4	99	2307	8.74	69.2	100	2384	9.68	70.8	101	2460	10.6	72.1	101	2537	11.6	73.1	102	
215	13.97	2306	8.66	65.4	101	2394	9.73	67.4	101	2471	10.8	69.2	102	2546	11.8	70.5	103					
230	14.94	2390	9.64	63.8	102	2480	10.8	65.6	102	2559	11.9	67.4	103									
245	15.92	2456	10.5	62.9	102	2560	11.9	64.1	103													
260	16.89	2519	11.4	62.3	103																	

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 - Performance certified for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).

GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

## AIR FOIL FAN

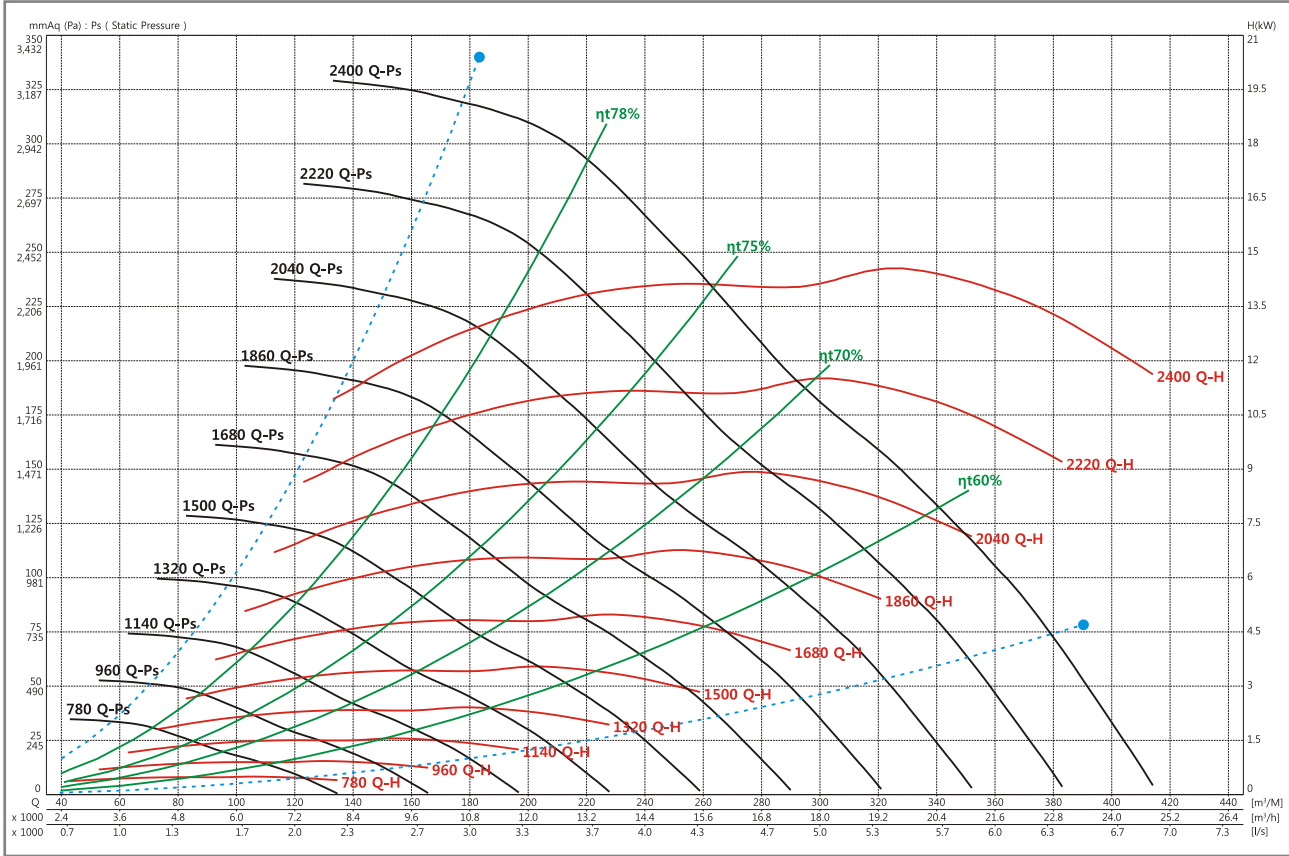
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GAF-4SS

FEG 80

Wheel dia	609 mm	Tip Speed = 0.03189 * rpm	Outlet Dim'	480 * 610	Outlet Area	0.2928 m <sup>2</sup>	Class 1	1882 rpm	Class 2	2509 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
100	5.69	848	0.62	71.6	73	1027	1.09	77.6	77	1186	1.62	77.4	81	1345	2.24	73.7	85				
120	6.83	927	0.83	66.1	77	1105	1.37	75.3	79	1248	1.96	77.8	82	1378	2.57	77.9	85	1514	3.29	75.6	88
140	7.97	1010	1.08	61.5	81	1190	1.70	72.1	82	1323	2.35	76.1	84	1444	3.04	77.7	86	1558	3.75	78.2	88
160	9.11	1099	1.36	58.0	84	1273	2.11	68.0	85	1409	2.83	73.8	87	1522	3.59	76.2	88	1627	4.35	77.5	90
180	10.25	1195	1.71	54.4	86	1351	2.58	64.3	88	1496	3.39	70.7	89	1606	4.20	74.3	90	1708	5.07	76.1	92
200	11.38	1290	2.11	51.2	89	1435	3.09	61.3	90	1575	4.01	67.6	91	1692	4.90	71.7	93	1791	5.84	74.3	94
220	12.52	1395	2.62	48.2	91	1524	3.65	58.9	92	1651	4.72	64.3	94	1775	5.70	69.1	95	1874	6.67	72.3	95
240	13.66	1498	3.18	45.1	93	1618	4.29	56.3	94	1734	5.46	61.9	95	1852	6.60	66.1	96	1957	7.61	70.0	97
260	14.80	1606	3.85	42.0	95	1711	5.00	53.9	96	1823	6.28	59.8	97	1929	7.54	63.7	98	2036	8.70	67.4	99
280	15.94	1716	4.65	40.2	97	1809	5.83	51.6	98	1915	7.20	57.8	99	2017	8.60	61.6	100	2115	9.92	64.8	100
300	17.08	1825	5.53	38.2	99	1912	6.78	49.0	99	2007	8.18	55.8	100	2105	9.68	59.8	101	2196	11.1	62.7	102
320	18.21	1935	6.54	36.7	100	2016	7.85	47.1	101	2102	9.26	53.7	102	2195	10.9	58.0	102	2283	12.4	61.1	103

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	
100	5.69																					
120	6.83																					
140	7.97	1673	4.54	77.1	91	1788	5.40	75.2	93	1899	6.32	73.5	95									
160	9.11	1728	5.16	78.2	91	1827	6.01	78.0	93	1928	6.93	76.9	94	2030	7.94	75.5	96	2127	8.94	74.0	98	
180	10.25	1800	5.91	77.3	93	1892	6.82	78.0	94	1978	7.71	78.2	95	2068	8.71	77.9	96	2157	9.74	77.0	97	
200	11.38	1879	6.76	76.0	94	1967	7.74	76.9	95	2049	8.70	77.7	96	2128	9.69	78.1	97	2208	10.7	78.2	98	
220	12.52	1964	7.70	74.3	96	2045	8.72	75.8	97	2125	9.78	76.6	97	2204	10.9	77.3	98	2276	11.9	77.8	99	
240	13.66	2051	8.75	72.3	98	2131	9.84	74.2	98	2207	11.0	75.3	99	2280	12.1	76.2	99	2352	13.3	76.9	100	
260	14.80	2133	9.85	70.3	99	2216	11.0	72.3	100	2292	12.2	73.9	100	2362	13.4	75.0	101					
280	15.94	2213	11.1	68.0	101	2299	12.3	70.4	101	2377	13.6	72.1	102									
300	17.08	2289	12.5	65.5	102	2380	13.8	68.4	103													
320	18.21	2369	14.0	63.5	104																	

- Air performance and Sound performance of can be changed without notice for performance and quality improvement.  
 - Power rating BkW does not include V-belt drive, motor efficiency and transmission losses.  
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# GAF-SS series

## AIR FOIL FAN

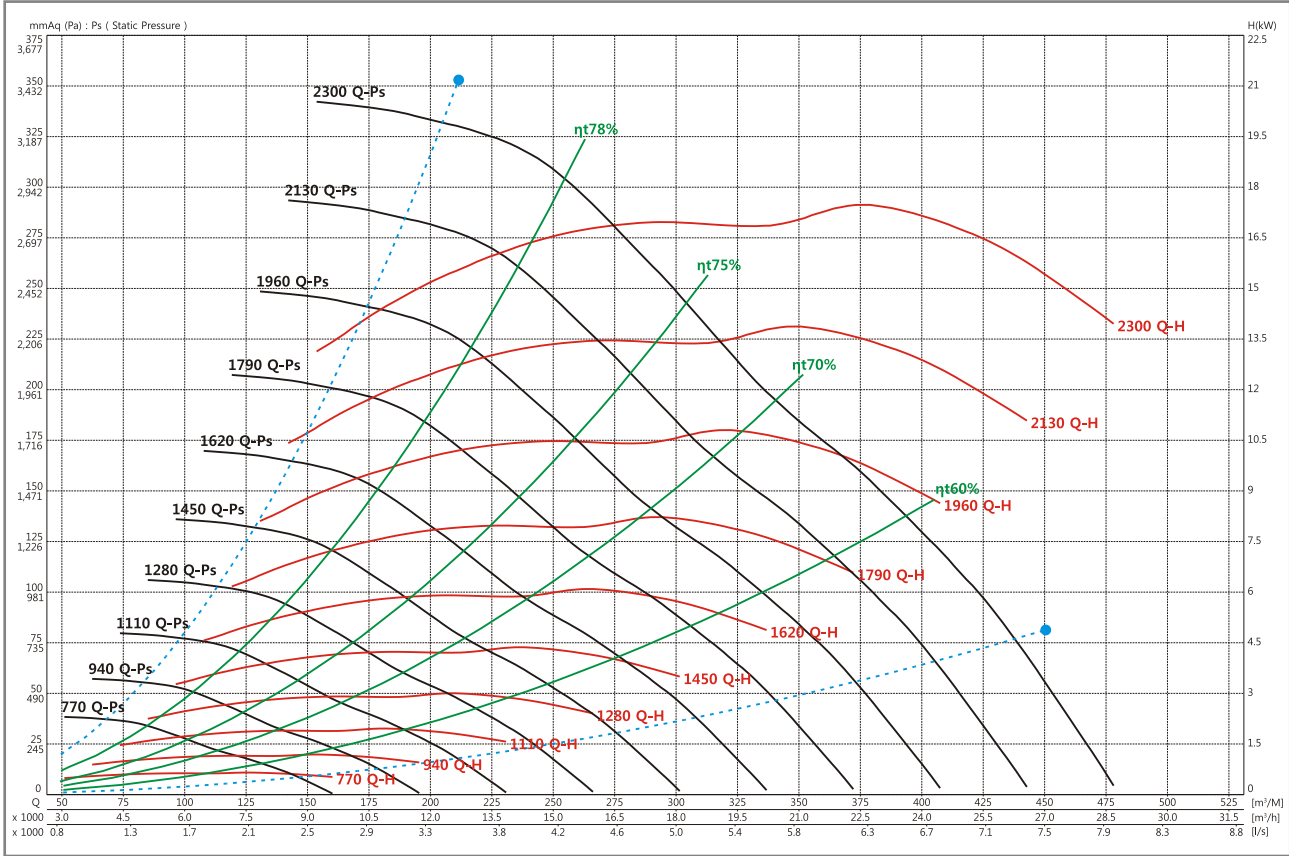
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AIR FOIL FAN  
GAF-SS series

### GAF-4.25SS FEG 80

Wheel dia	648 mm	Tip Speed =	0.03393 * rpm	Outlet Dim'	510 * 650	Outlet Area	0.3315 m <sup>2</sup>	Class 1	1768 rpm	Class 2	2358 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
		m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA
130	6.54	853	0.87	67.8	76	1018	1.46	76.0	79	1155	2.10	78.1	82	1285	2.81	77.2	85	1416	3.61	74.6	88
150	7.54	919	1.11	63.2	80	1089	1.78	73.3	82	1218	2.50	76.7	83	1334	3.24	78.1	86	1445	4.03	77.7	88
170	8.55	990	1.37	59.8	82	1160	2.15	70.2	84	1285	2.94	74.9	86	1394	3.75	77.0	87	1495	4.57	78.1	89
190	9.55	1067	1.68	56.7	85	1224	2.59	66.4	87	1356	3.44	72.6	88	1460	4.32	75.5	89	1559	5.24	77.0	90
210	10.56	1144	2.03	53.7	87	1289	3.07	63.4	89	1424	3.99	70.1	90	1532	4.97	73.6	91	1623	5.94	75.8	92
230	11.56	1230	2.48	50.5	89	1361	3.59	60.9	91	1491	4.67	66.9	92	1604	5.70	71.3	93	1695	6.74	74.1	94
250	12.57	1315	2.98	47.5	91	1437	4.17	58.6	93	1555	5.38	64.3	94	1669	6.46	69.1	95	1766	7.61	72.1	96
270	13.57	1401	3.55	45.1	93	1513	4.80	56.5	94	1624	6.12	62.1	95	1736	7.40	66.4	96	1834	8.53	70.2	97
290	14.58	1490	4.22	43.0	95	1590	5.49	54.4	96	1698	6.94	60.2	97	1800	8.35	64.1	98	1902	9.64	67.8	99
310	15.59	1581	4.98	40.9	97	1674	6.32	52.2	98	1773	7.82	58.3	98	1869	9.34	62.1	99	1965	10.8	65.5	100
330	16.59	1668	5.79	39.2	98	1755	7.19	50.2	99	1849	8.76	56.5	100	1943	10.4	60.5	101	2030	12.0	63.7	101
350	17.60	1760	6.75	37.7	100	1842	8.23	48.2	100	1927	9.81	54.9	101	2016	11.6	59.0	102	2102	13.3	61.9	102

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	
		m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	
130	6.54																					
150	7.54	1560	4.93	75.9	91	1672	5.90	73.8	93													
170	8.55	1595	5.46	78.1	91	1696	6.44	77.0	93	1797	7.49	75.4	95	1895	8.58	73.7	97					
190	9.55	1650	6.17	77.9	92	1739	7.14	78.2	93	1828	8.18	77.7	95	1919	9.30	76.7	96	2009	10.5	75.4	98	
210	10.56	1714	6.98	76.9	93	1796	7.98	77.7	94	1877	9.04	78.2	95	1956	10.1	78.2	96	2037	11.3	77.5	98	
230	11.56	1777	7.80	75.8	95	1861	8.95	76.7	95	1937	10.0	77.5	96	2012	11.2	78.0	97	2083	12.3	78.2	98	
250	12.57	1848	8.75	74.3	96	1925	9.92	75.7	97	2002	11.2	76.5	97	2072	12.3	77.3	98	2143	13.6	77.8	99	
270	13.57	1918	9.76	72.6	98	1996	11.0	74.3	98	2068	12.3	75.5	99	2138	13.6	76.3	99	2205	14.9	77.0	100	
290	14.58	1991	10.9	70.6	99	2067	12.2	72.7	100	2137	13.5	74.2	100	2204	14.9	75.3	101	2270	16.3	76.1	101	
310	15.59	2057	12.1	68.7	100	2138	13.5	70.9	101	2210	15.0	72.7	101	2274	16.3	74.1	102					
330	16.59	2121	13.5	66.6	102	2205	14.9	69.1	102	2280	16.4	71.7	103									
350	17.60	2184	14.9	64.6	103	2271	16.5	67.1	103													

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 - The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL(LwiA(dBA)) sound power levels for installation type B:(free inlet, Ducted outlet), Rating do not include the effect of duct end corrections.  
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GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

# AIR FOIL FAN

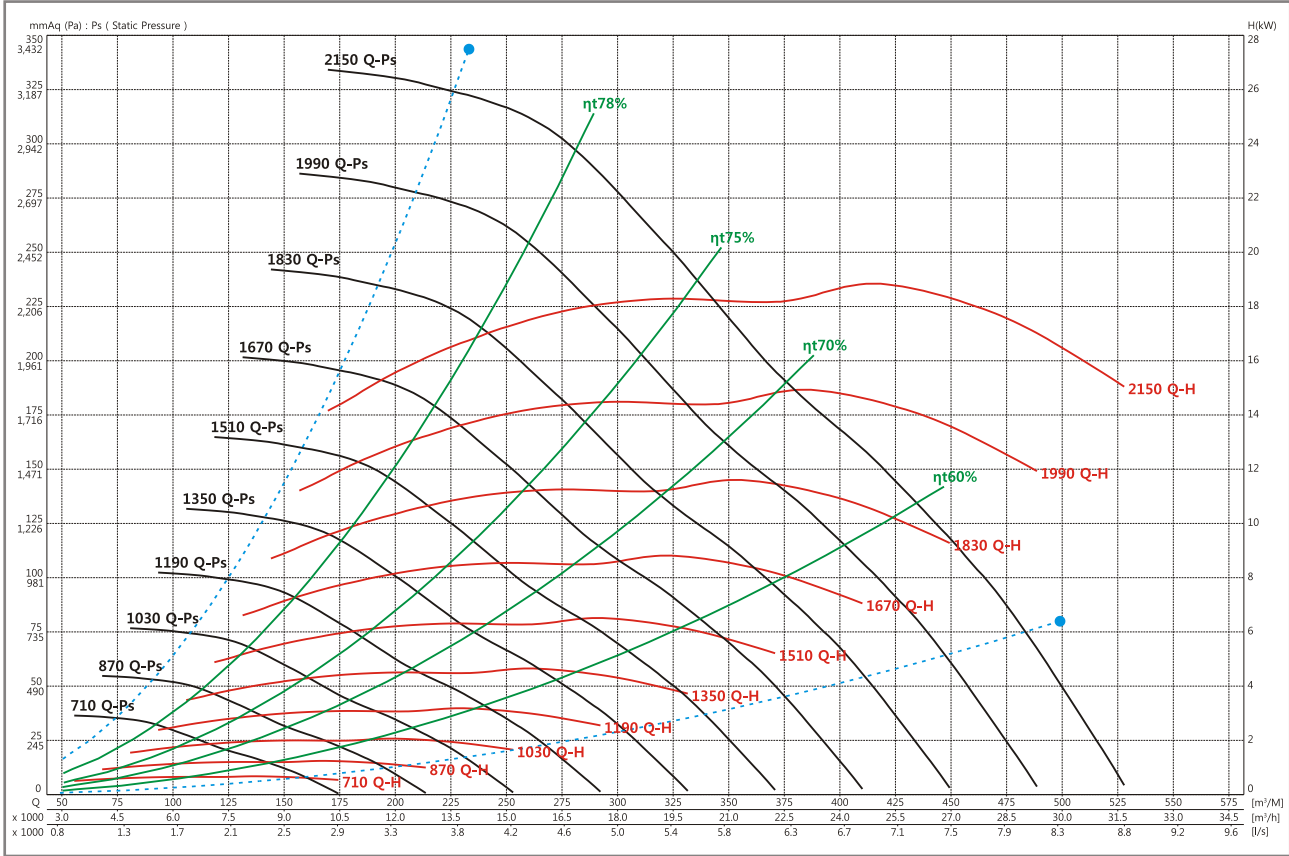
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GAF-4.5SS

FEG 80

Wheel dia	685 mm	Tip Speed =	0.03587 * rpm	Outlet Dim'	540 * 685	Outlet Area	0.3699 m <sup>2</sup>	Class 1	1673 rpm	Class 2	2230 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
170	7.66	876	1.27	62.5	80	1037	2.03	73.0	82	1157	2.83	76.6	84	1266	3.67	78.1	86	1370	4.55	77.9	88
190	8.56	936	1.53	59.8	83	1097	2.41	70.2	84	1215	3.28	74.9	86	1319	4.19	77.0	87	1414	5.11	78.1	89
210	9.46	1002	1.84	57.0	85	1152	2.84	66.9	86	1274	3.77	72.9	88	1375	4.76	75.8	89	1469	5.79	77.1	90
230	10.36	1068	2.19	54.4	87	1206	3.32	63.9	89	1335	4.34	70.6	90	1434	5.39	74.1	91	1522	6.47	76.0	92
250	11.26	1136	2.60	51.6	89	1268	3.84	61.6	90	1391	4.98	67.8	91	1496	6.11	72.1	93	1582	7.24	74.6	93
270	12.17	1210	3.09	49.0	91	1329	4.38	59.6	92	1445	5.68	65.3	93	1553	6.84	70.2	94	1640	8.06	73.0	95
290	13.07	1283	3.64	46.7	92	1394	4.99	57.6	94	1502	6.41	63.2	95	1609	7.70	67.8	96	1703	9.01	71.2	96
310	13.97	1358	4.25	44.3	94	1458	5.65	55.8	95	1562	7.17	61.3	96	1664	8.66	65.5	97	1759	9.98	69.3	98
330	14.87	1432	4.93	42.5	96	1525	6.38	53.9	97	1624	8.00	59.6	98	1719	9.62	63.5	99	1815	11.1	67.1	99
350	15.77	1508	5.70	40.6	97	1595	7.20	51.9	98	1689	8.91	58.1	99	1780	10.6	61.9	100	1867	12.3	65.3	100
370	16.67	1583	6.54	39.2	98	1666	8.12	50.2	99	1753	9.86	56.5	100	1840	11.7	60.5	101	1924	13.5	63.5	102
390	17.57	1660	7.47	37.7	100	1738	9.13	48.2	101	1821	10.9	54.9	101	1903	12.8	59.0	102	1983	14.7	62.0	103

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
170	7.66	1478	5.57	76.3	91	1583	6.64	74.2	93												
190	8.56	1508	6.11	78.1	91	1604	7.20	77.0	93	1700	8.37	75.4	95	1793	9.60	73.7	97				
210	9.46	1554	6.80	78.0	92	1639	7.88	78.2	93	1724	9.03	77.5	95	1812	10.3	76.4	97	1898	11.6	75.1	98
230	10.36	1608	7.60	77.1	93	1686	8.70	77.9	94	1764	9.86	78.2	95	1841	11.1	78.0	97	1921	12.4	77.2	98
250	11.26	1663	8.44	76.1	94	1740	9.64	77.0	95	1814	10.9	77.8	96	1885	12.1	78.2	97	1956	13.4	78.2	98
270	12.17	1720	9.33	74.9	96	1796	10.6	76.1	97	1867	11.9	76.9	97	1937	13.3	77.6	98	2002	14.6	78.1	99
290	13.07	1781	10.3	73.5	97	1853	11.7	75.0	98	1921	13.0	76.1	98	1990	14.5	76.8	99	2056	15.9	77.4	100
310	13.97	1841	11.4	71.9	98	1912	12.8	73.7	99	1980	14.2	75.0	99	2044	15.7	76.0	100	2109	17.3	76.6	101
330	14.87	1900	12.5	70.2	100	1973	14.0	72.2	100	2039	15.5	73.9	101	2104	17.1	74.9	101				
350	15.77	1955	13.8	68.4	101	2033	15.4	70.7	101	2100	16.9	72.5	102								
370	16.67	2010	15.2	66.4	102	2088	16.7	69.1	102												
390	17.57	2064	16.6	64.7	103	2143	18.3	67.4	104												

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 - Power rating BkW does not include V-belt drive, motor efficiency and transmission losses.  
 - The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL(LwiA(dBA)) sound power levels for installation type B:(free inlet, Ducted outlet), Rating do not include the effect of duct end corrections.  
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GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

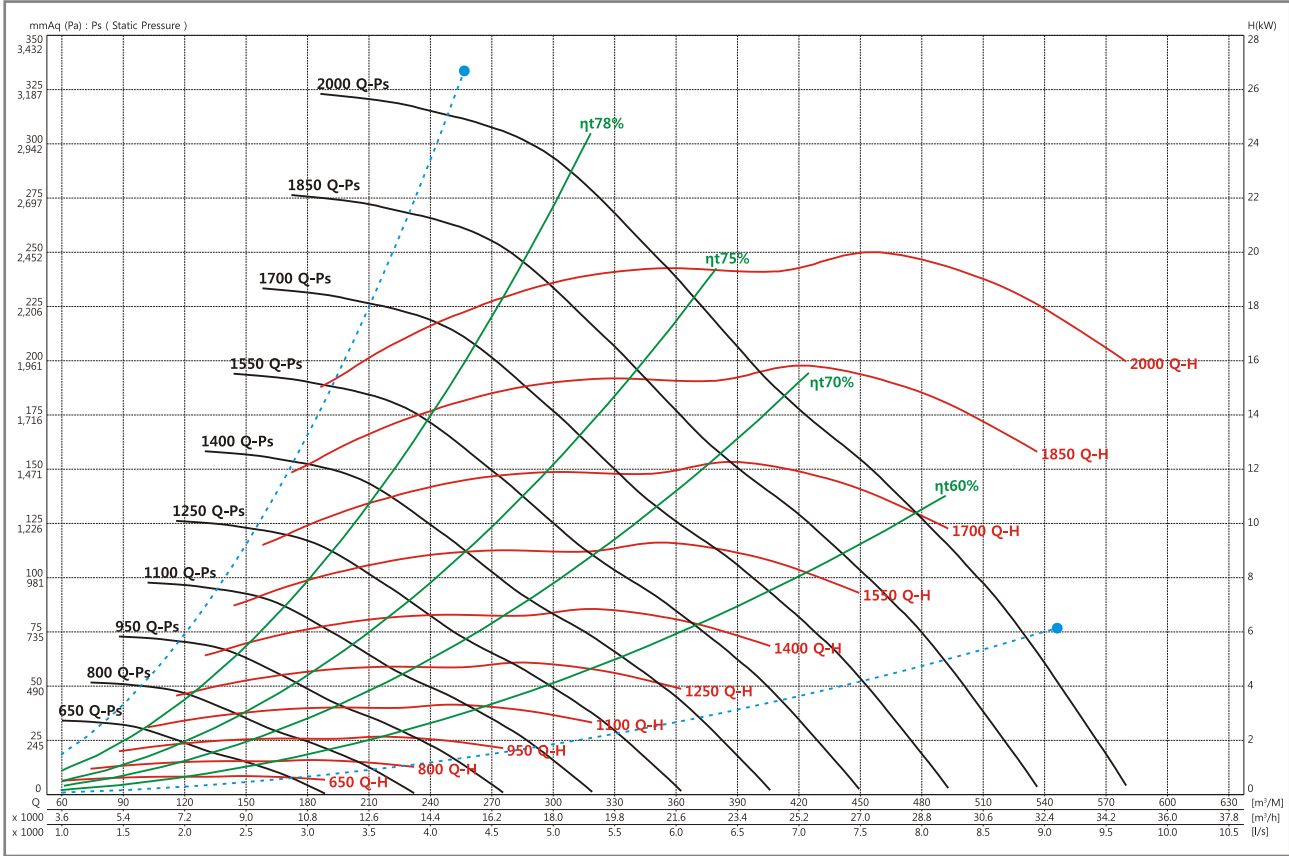
## AIR FOIL FAN

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### GAF-4.75SS FEG 80

Wheel dia	724 mm	Tip Speed = 0.03791 * rpm	Outlet Dim'	570 * 725	Outlet Area	0.4133 m <sup>2</sup>	Class 1	1583 rpm	Class 2	2110 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
165	6.65	770	1.12	66.9	77	918	1.87	75.8	79	1040	2.68	78.0	82	1153	3.55	77.5	85	1269	4.56	75.0	88
190	7.66	829	1.42	62.5	80	982	2.27	73.0	82	1095	3.17	76.6	84	1198	4.10	78.0	86	1297	5.09	78.0	88
215	8.67	893	1.75	59.4	83	1045	2.75	69.8	85	1156	3.73	74.7	86	1254	4.75	76.8	88	1345	5.81	78.0	89
240	9.68	962	2.14	56.3	85	1103	3.31	66.1	87	1220	4.36	72.3	88	1314	5.48	75.3	90	1402	6.65	76.8	91
265	10.69	1034	2.61	53.1	88	1161	3.91	63.2	89	1283	5.09	69.7	90	1377	6.29	73.4	92	1461	7.54	75.5	93
290	11.70	1109	3.16	50.2	90	1226	4.56	60.5	91	1340	5.92	66.6	92	1443	7.22	71.1	93	1524	8.53	73.9	94
315	12.70	1185	3.80	47.5	92	1294	5.29	58.3	93	1399	6.83	63.9	94	1502	8.22	68.7	95	1587	9.61	71.9	96
340	13.71	1263	4.52	44.9	94	1361	6.08	56.3	95	1461	7.76	61.8	96	1560	9.37	66.1	97	1649	10.8	69.8	98
365	14.72	1343	5.36	42.5	96	1433	6.99	54.2	96	1526	8.77	59.9	97	1617	10.5	63.9	98	1707	12.2	67.6	99
390	15.73	1425	6.34	40.6	97	1506	8.01	51.9	98	1594	9.88	58.1	99	1681	11.8	62.0	100	1765	13.7	65.3	101
415	16.74	1504	7.40	39.2	99	1582	9.16	49.8	100	1664	11.1	56.3	100	1747	13.2	60.3	101	1824	15.2	63.4	102
440	17.75	1585	8.57	37.4	100	1658	10.4	48.0	101	1733	12.4	54.6	102	1812	14.6	58.8	102	1888	16.8	61.8	103

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	
165	6.65																					
190	7.66	1399	6.23	76.3	91	1498	7.42	74.2	93													
215	8.67	1431	6.90	78.2	91	1521	8.12	77.2	93	1610	9.43	75.6	95	1698	10.8	74.2	97					
240	9.68	1483	7.81	77.8	92	1560	9.00	78.2	94	1640	10.3	77.9	95	1720	11.7	76.9	97	1800	13.2	75.6	98	
265	10.69	1539	8.81	76.7	93	1614	10.1	77.6	95	1684	11.4	78.1	96	1756	12.8	78.2	97	1827	14.2	77.7	98	
290	11.70	1600	9.91	75.5	95	1671	11.3	76.6	96	1740	12.7	77.4	97	1805	14.1	78.0	98	1870	15.5	78.2	99	
315	12.70	1662	11.1	74.1	97	1731	12.6	75.5	97	1798	14.1	76.4	98	1862	15.6	77.1	99	1923	17.1	77.7	100	
340	13.71	1725	12.4	72.3	98	1795	14.0	74.1	99	1858	15.5	75.3	99	1920	17.2	76.2	100	1981	18.8	76.9	101	
365	14.72	1789	13.8	70.4	100	1857	15.4	72.5	100	1920	17.1	74.1	101	1980	18.8	75.2	101					
390	15.73	1847	15.3	68.5	101	1922	17.1	70.7	102	1984	18.8	72.6	102									
415	16.74	1905	17.1	66.3	102	1981	18.9	68.9	103													
440	17.75	1963	18.9	64.4	104																	

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 - Performance certified for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).

GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

## AIR FOIL FAN

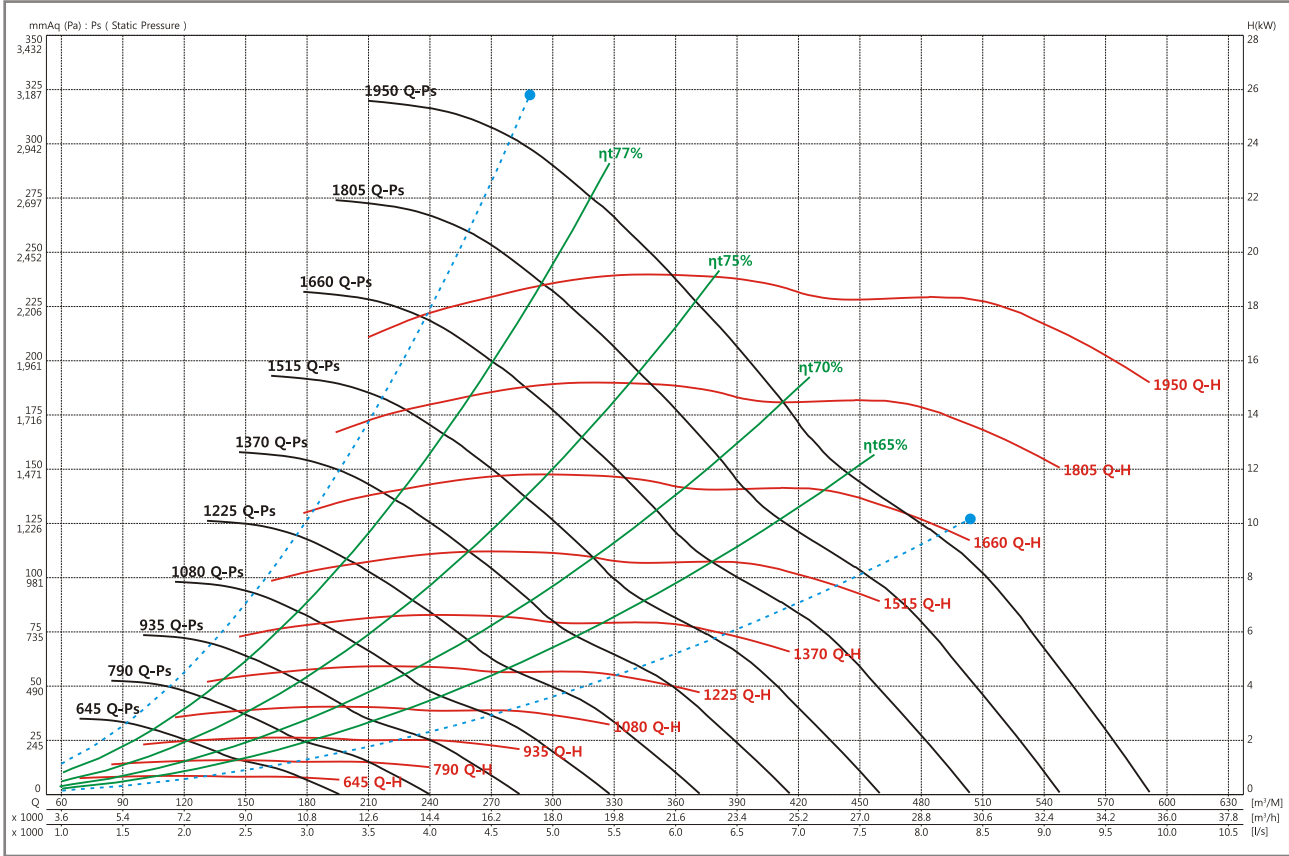
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GAF-5SS

FEG 80

Wheel dia	762 mm	Tip Speed = 0.0399	* rpm	Outlet Dim'	600 * 760	Outlet Area	0.4560 m <sup>2</sup>	Class 1	1504 rpm	Class 2	2005 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq (245 Pa)				50 mmAq (490 Pa)				75 mmAq (735 Pa)				100 mmAq (981 Pa)				125 mmAq (1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
200	7.31	840	1.46	63.1	82	983	2.42	71.9	83	1093	3.36	75.9	85	1193	4.36	77.2	87	1287	5.41	77.0	89
225	8.22	897	1.78	60.0	85	1050	2.89	68.8	86	1152	3.92	73.9	87	1248	5.00	76.3	89	1335	6.12	77.2	90
250	9.14	960	2.17	56.9	87	1115	3.41	65.8	88	1215	4.56	71.5	90	1307	5.73	74.7	91	1390	6.92	76.4	92
275	10.05	1029	2.64	53.1	89	1171	3.95	63.7	90	1285	5.30	68.8	92	1368	6.54	72.7	93	1450	7.84	75.0	93
300	10.96	1103	3.19	49.7	92	1226	4.55	61.6	92	1352	6.08	66.2	94	1434	7.45	70.5	95	1510	8.83	73.2	95
325	11.88	1176	3.81	46.8	93	1284	5.23	59.4	94	1409	6.87	64.5	96	1503	8.45	68.1	96	1575	9.93	71.3	97
350	12.79	1252	4.54	44.1	95	1348	6.02	57.1	96	1464	7.73	62.8	97	1569	9.51	66.0	98	1643	11.1	69.3	98
375	13.71	1327	5.35	41.8	97	1415	6.89	54.4	98	1520	8.67	61.1	98	1625	10.6	64.5	99	1709	12.4	67.3	99
400	14.62	1404	6.28	39.9	99	1487	7.92	52.0	99	1578	9.71	59.2	100	1680	11.7	63.1	100	1774	13.7	65.5	101
425	15.53	1480	7.28	37.9	100	1560	9.04	49.7	100	1640	10.9	57.2	101	1735	12.9	61.5	101	1830	15.1	64.2	102
450	16.45	1559	8.44	36.3	101	1634	10.3	47.6	102	1708	12.2	55.2	102	1793	14.3	60.0	103	1883	16.5	62.9	103
475	17.36	1639	9.72	34.7	102	1710	11.7	45.5	103	1778	13.6	53.4	103	1852	15.7	58.5	104	1939	18.0	61.6	104

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq (1471 Pa)				175 mmAq (1716 Pa)				200 mmAq (1961 Pa)				225 mmAq (2206 Pa)				250 mmAq (2452 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
200	7.31	1378	6.54	76.3	90																	
225	8.22	1421	7.33	77.1	92	1502	8.55	76.8	93													
250	9.14	1470	8.19	77.0	93	1548	9.50	77.1	94	1622	10.8	77.0	95	1694	12.2	76.5	96					
275	10.05	1525	9.15	76.4	94	1599	10.6	76.9	95	1669	11.9	77.2	96	1738	13.4	77.1	97	1805	14.9	76.9	98	
300	10.96	1585	10.3	75.0	96	1654	11.7	76.2	96	1721	13.2	76.8	97	1787	14.7	77.2	98	1851	16.3	77.1	99	
325	11.88	1644	11.4	73.6	97	1714	13.0	75.0	98	1777	14.5	76.1	98	1841	16.1	76.7	99	1902	17.8	77.0	100	
350	12.79	1709	12.7	71.8	99	1773	14.3	73.7	99	1836	16.0	74.9	99	1897	17.6	75.9	100					
375	13.71	1774	14.1	70.1	100	1837	15.8	72.0	100	1898	17.6	73.6	101									
400	14.62	1845	15.6	68.0	101	1902	17.4	70.4	102													
425	15.53	1911	17.2	66.3	103																	
450	16.45																					
475	17.36																					

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GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

## AIR FOIL FAN

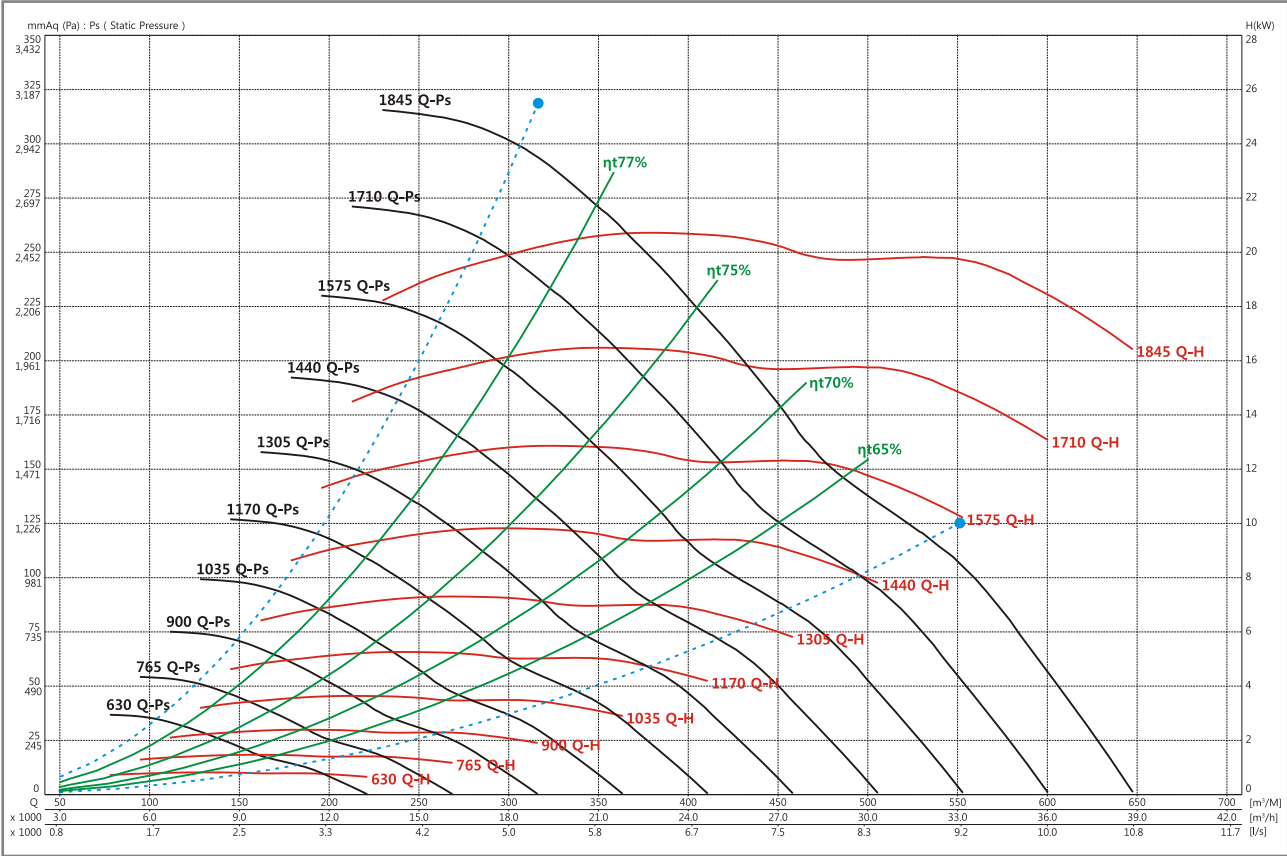
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AIR FOIL FAN  
GAF-SS series

### GAF-5.25SS FEG 80

Wheel dia	800 mm	Tip Speed = 0.04189 * rpm	Outlet Dim'	630 * 800	Outlet Area	0.5040 m <sup>2</sup>	Class 1	1432 rpm	Class 2	1910 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
		m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA
180	5.95	719	1.18	67.9	77	850	2.02	75.9	80	965	2.93	77.1	82	1071	3.92	76.3	84				
210	6.94	781	1.50	64.0	81	912	2.48	73.1	82	1019	3.48	76.6	84	1117	4.56	77.1	86	1210	5.7	76.8	88
240	7.94	839	1.86	60.9	84	981	3.02	69.8	85	1080	4.13	74.6	87	1172	5.29	76.6	88	1258	6.52	77.2	90
270	8.93	901	2.30	57.2	87	1051	3.65	66.2	88	1146	4.89	72.0	89	1234	6.16	75.0	90	1313	7.44	76.6	92
300	9.92	974	2.85	53.4	89	1110	4.30	63.9	90	1215	5.73	69.2	92	1296	7.11	73.0	92	1374	8.51	75.1	93
330	10.91	1049	3.50	49.7	92	1167	5.01	61.6	93	1285	6.68	66.4	94	1364	8.19	70.5	95	1436	9.68	73.4	95
360	11.90	1125	4.25	46.5	94	1228	5.83	59.2	95	1346	7.64	64.3	96	1436	9.40	67.9	97	1503	11.0	71.2	97
390	12.90	1204	5.14	43.7	96	1293	6.77	56.6	97	1402	8.67	62.5	98	1502	10.6	65.8	98	1575	12.5	69.0	99
420	13.89	1282	6.14	41.4	98	1364	7.87	54.0	98	1460	9.82	60.6	99	1561	11.9	64.2	99	1645	14.0	66.8	100
450	14.88	1361	7.27	39.1	99	1438	9.10	51.3	100	1521	11.1	58.7	100	1617	13.3	62.6	101	1708	15.6	65.1	101
480	15.87	1442	8.57	37.4	101	1515	10.5	48.9	101	1589	12.6	56.5	102	1675	14.8	60.9	102	1764	17.3	63.7	103
510	16.87	1523	9.99	35.2	102	1592	12.1	46.5	103	1660	14.2	54.2	103	1736	16.5	59.2	103	1820	19.0	62.3	104

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	
		m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	m <sup>-1</sup>	kW	%	LwIA	
180	5.95																					
210	6.94																					
240	7.94	1340	7.79	77.0	91	1419	9.13	76.3	93													
270	8.93	1390	8.81	77.2	93	1465	10.2	77.1	94	1536	11.7	76.9	95	1606	13.2	76.2	96					
300	9.92	1447	9.97	76.5	94	1517	11.5	77.0	95	1585	13.0	77.1	96	1650	14.6	77.1	97	1714	16.3	76.8	98	
330	10.91	1507	11.2	75.1	96	1573	12.8	76.3	96	1638	14.5	76.8	97	1701	16.2	77.2	98	1762	17.9	77.1	99	
360	11.90	1570	12.7	73.5	97	1636	14.4	74.9	98	1697	16.1	76.0	98	1755	17.8	76.7	99	1815	19.7	77.0	100	
390	12.90	1636	14.2	71.5	99	1699	16.1	73.4	99	1758	17.9	74.7	100	1816	19.7	75.7	100					
420	13.89	1707	15.9	69.5	100	1764	17.8	71.7	101	1820	19.8	73.2	101									
450	14.88	1778	17.8	67.4	102	1834	19.8	69.8	102													
480	15.87	1843	19.7	65.7	103																	
510	16.87																					

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 - Performance certified is for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).

GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

## AIR FOIL FAN

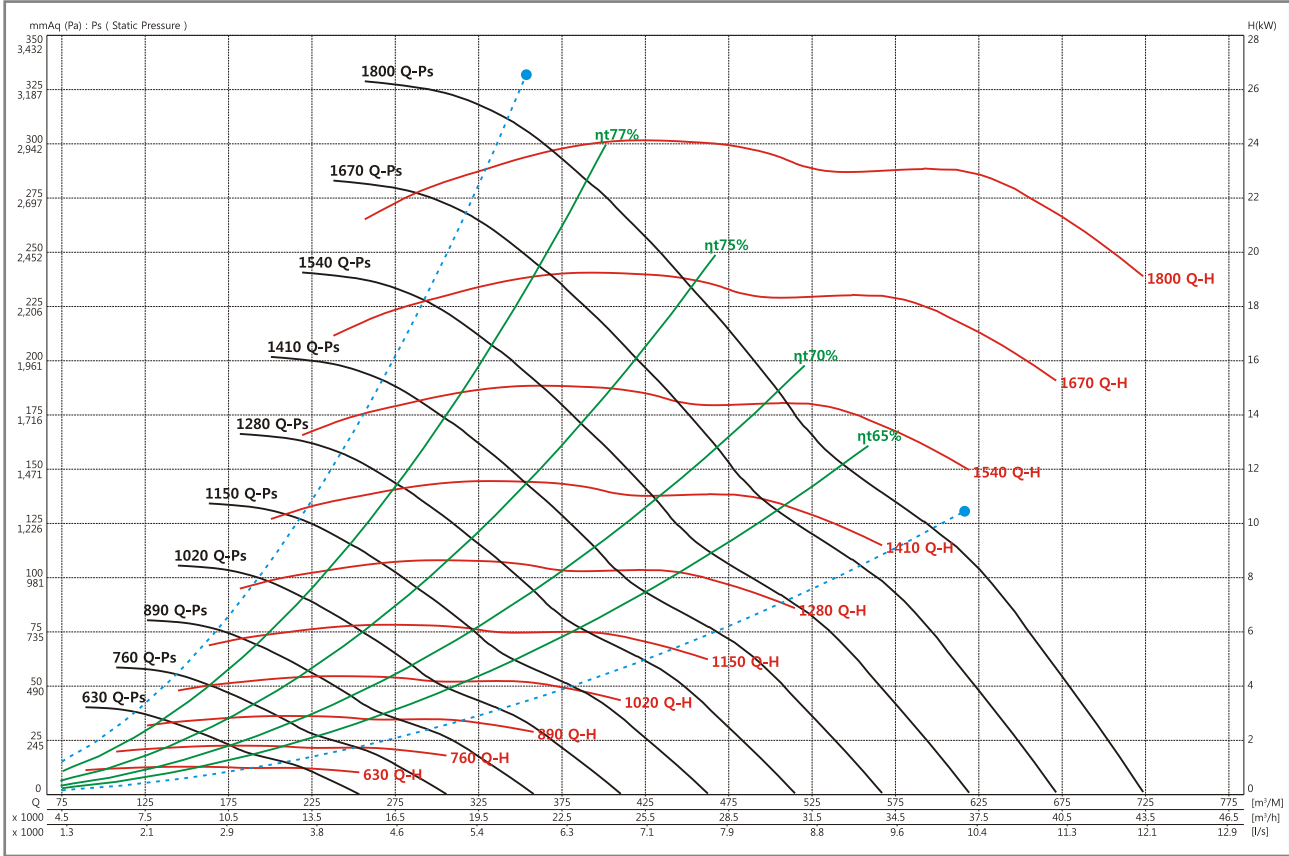
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GAF-5.5SS

FEG 80

Wheel dia	838 mm	Tip Speed =	0.04388 * rpm	Outlet Dim'	660 * 840	Outlet Area	0.5544 m <sup>2</sup>	Class 1	1367 rpm	Class 2	1823 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
260	7.82	794	1.99	61.3	84	929	3.25	70.1	85	1026	4.47	74.7	86	1113	5.72	76.7	88	1196	7.06	77.1	90
290	8.72	849	2.42	58.0	87	991	3.86	66.8	87	1082	5.20	72.5	89	1165	6.55	75.4	90	1244	7.98	76.7	91
320	9.62	908	2.94	54.7	89	1044	4.5	64.6	90	1141	6.01	70.1	91	1220	7.49	73.6	92	1295	9.01	75.6	93
350	10.52	973	3.56	51.3	91	1094	5.19	62.5	92	1203	6.93	67.3	93	1278	8.54	71.4	94	1349	10.2	74.0	95
380	11.42	1039	4.27	48.0	93	1145	5.96	60.4	94	1259	7.89	65.2	95	1338	9.66	69.2	96	1406	11.4	72.1	97
410	12.33	1108	5.09	45.0	95	1200	6.85	58.0	96	1309	8.88	63.5	97	1399	10.9	67.0	98	1465	12.8	70.2	98
440	13.23	1176	6.02	42.8	97	1260	7.86	55.5	97	1358	9.95	61.9	98	1455	12.2	65.2	99	1528	14.3	68.1	99
470	14.13	1245	7.06	40.4	98	1323	9.01	53.1	99	1409	11.1	60.2	100	1505	13.5	63.7	100	1587	15.9	66.2	101
500	15.03	1315	8.24	38.6	100	1387	10.3	50.9	100	1464	12.5	58.2	101	1554	14.9	62.3	101	1640	17.5	64.9	102
530	15.93	1385	9.55	36.8	101	1455	11.7	48.5	102	1523	13.9	56.2	102	1604	16.4	60.8	103	1689	19.1	63.5	103
560	16.84	1455	11.0	35.5	103	1521	13.3	46.5	103	1586	15.6	54.2	103	1658	18.1	59.2	104	1738	20.9	62.3	104
590	17.74	1525	12.6	34.2	104	1591	15.0	44.6	104	1650	17.4	52.2	104	1713	19.9	57.6	105	1789	22.8	60.9	105

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
260	7.82	1275	8.45	77.0	91	1351	9.91	76.1	93												
290	8.72	1318	9.46	77.2	93	1390	11.0	77.1	94	1458	12.6	76.71	95								
320	9.62	1366	10.6	76.7	94	1433	12.2	77.2	95	1500	13.9	77.1	96	1563	15.6	77.0	97	1625	17.4	76.6	98
350	10.52	1417	11.8	75.7	96	1482	13.5	76.6	96	1544	15.3	77.0	97	1605	17.1	77.1	98	1665	19.0	77.1	99
380	11.42	1472	13.2	74.2	97	1533	15.0	75.6	97	1593	16.8	76.5	98	1652	18.8	76.9	99	1707	20.6	77.2	99
410	12.33	1527	14.6	72.6	98	1587	16.6	74.3	99	1647	18.5	75.4	99	1702	20.5	76.3	100	1755	22.5	76.8	101
440	13.23	1587	16.3	70.8	100	1644	18.3	72.7	100	1700	20.4	74.2	100	1755	22.5	75.2	101				
470	14.13	1649	18.0	68.9	101	1702	20.2	71.1	102	1755	22.3	72.8	102								
500	15.03	1709	19.9	67.1	102	1763	22.2	69.4	103												
530	15.93	1766	21.8	65.5	103																
560	16.84																				
590	17.74																				

- Air performance and Sound performance of can be changed without notice for performance and quality improvement.  
 - Power rating BkW does not include V-belt drive, motor efficiency and transmission losses.  
 - The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL(LwiA(dBA)) sound power levels for installation type B:(Free inlet, Ducted outlet), Rating do not include the effect of duct end corrections.  
 - Performance certified for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).

GAF-SS\_Version 10.5\_October,2015



# GAF-SS series

## AIR FOIL FAN

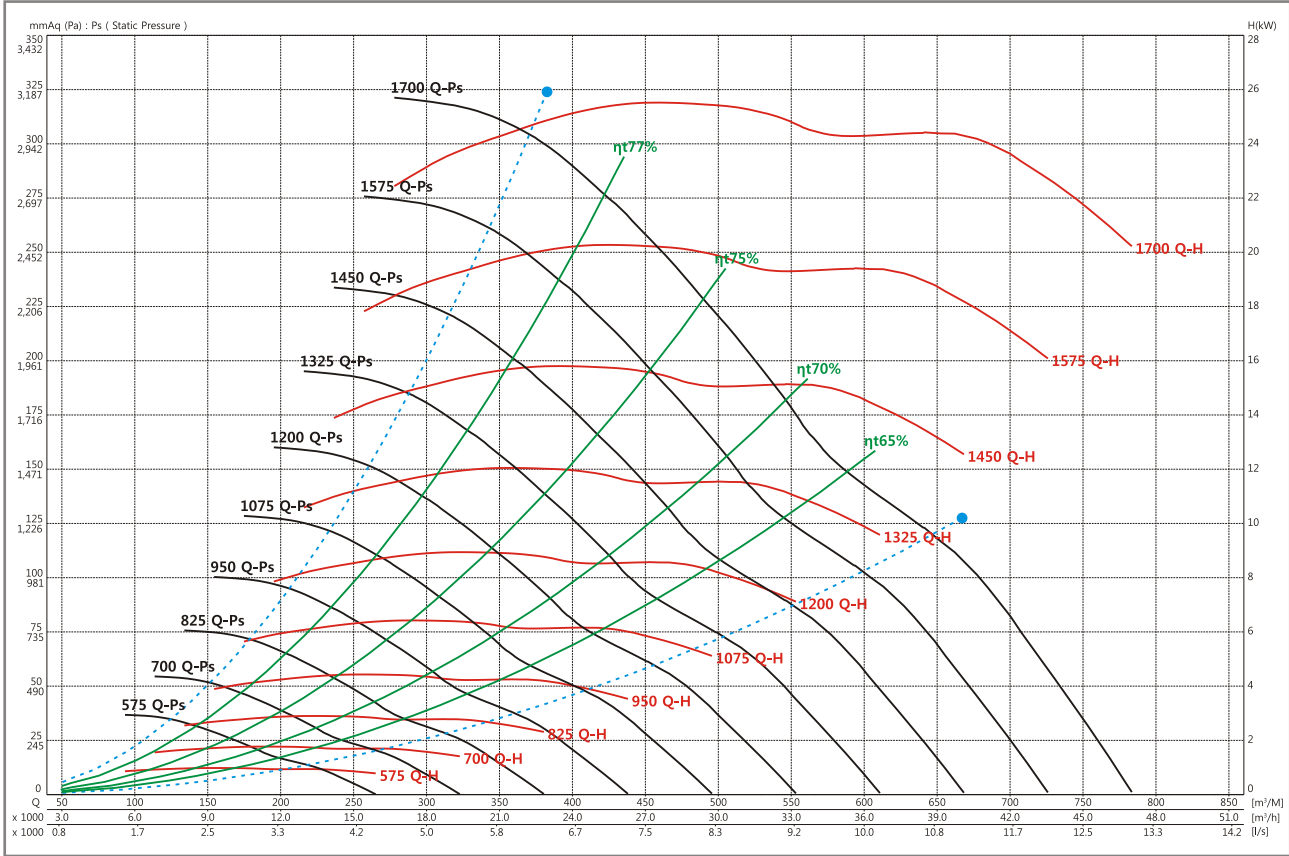
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AIR FOIL FAN  
GAF-SS series

### GAF-5.75SS FEG 80

Wheel dia	876 mm	Tip Speed = 0.04587 * rpm	Outlet Dim'	690 * 875	Outlet Area	0.6038 m <sup>2</sup>	Class 1	1308 rpm	Class 2	1744 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
		m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA
240	6.63	696	1.66	65.2	80	815	2.78	74.1	82	914	3.95	76.9	84	1006	5.20	77.1	86	1093	6.54	76.2	88
275	7.59	747	2.07	62.1	84	874	3.39	71.0	85	967	4.67	75.3	86	1052	6.02	76.9	88	1133	7.46	77.1	89
310	8.56	801	2.54	58.7	87	936	4.08	67.6	87	1023	5.49	73.0	88	1105	6.97	75.7	90	1180	8.51	76.9	91
345	9.52	861	3.13	55.0	89	993	4.83	64.8	89	1083	6.43	70.4	91	1160	8.04	73.9	92	1231	9.66	75.8	93
380	10.49	927	3.84	51.3	91	1043	5.61	62.7	92	1147	7.50	67.5	93	1218	9.23	71.5	94	1287	11.0	74.1	95
415	11.46	994	4.66	48.0	93	1094	6.50	60.4	94	1204	8.61	65.2	95	1280	10.5	69.2	96	1345	12.5	72.3	97
450	12.42	1065	5.64	45.0	95	1151	7.54	58.0	96	1255	9.77	63.4	97	1343	12.0	66.8	98	1406	14.1	70.1	99
485	13.39	1134	6.71	42.3	97	1213	8.74	55.2	98	1305	11.0	61.6	98	1399	13.5	64.9	100	1470	15.9	67.9	100
520	14.35	1204	7.97	40.4	99	1277	10.1	52.5	99	1359	12.5	59.7	100	1449	15.0	63.4	101	1529	17.7	65.9	101
555	15.32	1275	9.37	38.4	100	1345	11.6	50.1	101	1415	14.0	57.7	102	1500	16.8	61.9	102	1582	19.6	64.5	102
590	16.29	1347	10.9	36.3	102	1413	13.4	47.8	102	1477	15.8	55.5	103	1552	18.6	60.3	103	1632	21.5	63.1	104
625	17.25	1419	12.7	35.0	103	1481	15.2	45.7	104	1542	17.8	53.4	104	1607	20.6	58.6	104	1682	23.6	61.7	105

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	
		m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	
240	6.63																					
275	7.59	1210	8.96	76.8	91																	
310	8.56	1253	10.1	77.1	92	1322	11.8	77.0	94	1388	13.5	76.4	95									
345	9.52	1300	11.4	76.8	94	1365	13.1	77.2	95	1429	15.0	77.1	96	1489	16.8	76.9	97	1549	18.8	76.4	98	
380	10.49	1353	12.8	75.7	96	1414	14.6	76.7	97	1474	16.6	77.1	97	1533	18.6	77.1	98	1590	20.6	77.1	99	
415	11.46	1407	14.4	74.2	97	1467	16.3	75.6	98	1524	18.4	76.5	98	1580	20.5	76.9	99	1633	22.6	77.2	100	
450	12.42	1464	16.1	72.5	99	1522	18.2	74.2	99	1578	20.4	75.4	100	1631	22.5	76.3	100	1683	24.8	76.7	101	
485	13.39	1525	18.0	70.6	100	1580	20.3	72.5	101	1633	22.5	74.0	101	1685	24.8	75.1	101					
520	14.35	1589	20.1	68.5	102	1640	22.5	70.8	102	1691	24.8	72.5	102									
555	15.32	1650	22.3	66.7	103																	
590	16.29																					
625	17.25																					

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 - The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL(LwiA(dBA)) sound power levels for installation type B:(Free inlet, Ducted outlet), Rating do not include the effect of duct end corrections.  
 - Performance certified is for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).

GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

# AIR FOIL FAN

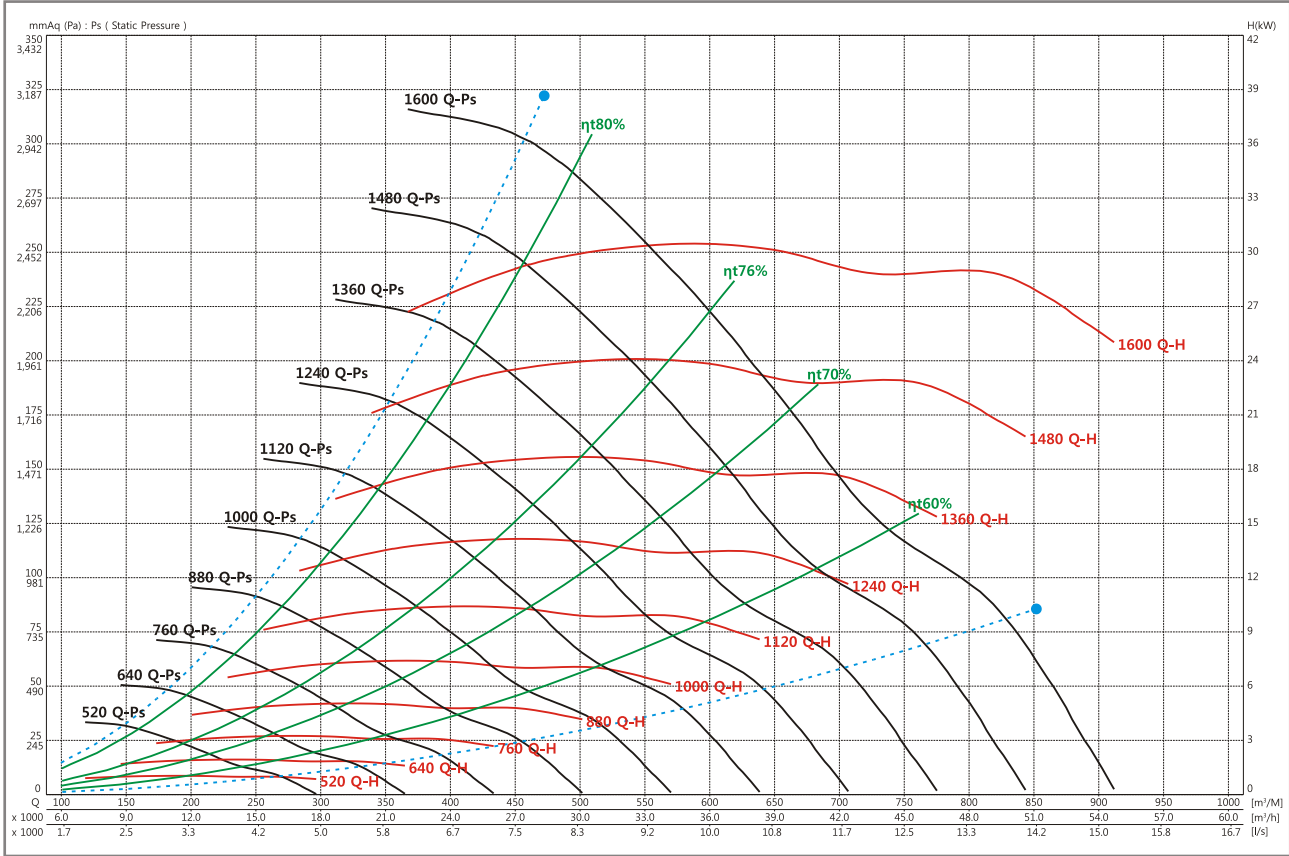
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GAF-6SS

FEG 85

Wheel dia	914 mm	Tip Speed = 0.04786 * rpm	Outlet Dim'	730 * 915	Outlet Area	0.6680 m <sup>2</sup>	Class 1	1254 rpm	Class 2	1672 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
280	6.99	649	1.96	65.7	81	754	3.18	76.1	83	849	4.49	79.2	86	935	5.90	79.6	88				
320	7.98	707	2.48	61.1	85	807	3.87	72.6	85	895	5.31	77.4	87	976	6.83	79.3	90	1051	8.41	79.8	92
360	8.98	756	3.04	57.9	87	864	4.68	69.0	88	945	6.25	75.0	89	1022	7.91	77.8	91	1093	9.60	79.2	93
400	9.98	805	3.68	55.2	89	924	5.62	65.3	91	1000	7.36	72.0	91	1071	9.10	75.9	93	1140	11.0	77.9	94
440	10.98	859	4.46	52.1	91	982	6.66	62.0	93	1055	8.54	69.1	94	1125	10.5	73.3	94	1188	12.4	76.3	95
480	11.98	920	5.41	49.2	93	1035	7.77	59.3	95	1116	9.95	66.0	96	1178	12.0	70.9	96	1240	14.1	74.2	97
520	12.98	983	6.51	46.0	95	1083	8.95	57.4	97	1174	11.5	63.2	98	1236	13.7	68.4	98	1294	16.0	71.8	98
560	13.97	1048	7.79	43.6	97	1131	10.2	55.6	98	1230	13.1	60.8	100	1296	15.6	65.7	100	1350	18.0	69.6	100
600	14.97	1113	9.23	41.2	99	1183	11.7	53.5	100	1281	14.8	58.8	101	1355	17.6	63.2	102	1409	20.2	67.3	102
640	15.97	1179	10.9	39.4	100	1241	13.4	51.2	101	1329	16.5	57.3	102	1411	19.8	61.1	104	1469	22.6	64.9	104
680	16.97	1246	12.7	37.4	102	1302	15.3	49.2	103	1377	18.5	55.7	104	1464	22.0	59.3	105	1527	25.2	62.8	105
720	17.97	1313	14.8	36.0	103	1366	17.5	47.0	104	1428	20.6	54.2	105	1512	24.3	57.9	106	1582	27.9	61.0	107

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				220 mmAq ( 2157 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
280	6.99																					
320	7.98	1125	10.1	78.9	93																	
360	8.98	1161	11.4	79.7	94	1227	13.3	79.4	96													
400	9.98	1204	12.9	79.1	95	1265	14.8	79.6	97	1325	16.8	79.7	98	1373	18.6	79.3	99					
440	10.98	1250	14.5	77.9	97	1309	16.6	78.9	98	1365	18.7	79.5	99	1409	20.4	79.7	100	1474	23.2	79.5	101	
480	11.98	1298	16.2	76.4	98	1356	18.5	77.7	99	1410	20.7	78.7	100	1452	22.6	79.2	101	1513	25.4	79.6	102	
520	12.98	1350	18.2	74.5	99	1404	20.6	76.3	100	1457	23.0	77.6	101	1497	24.9	78.3	102	1557	27.9	79.1	103	
560	13.97	1404	20.4	72.3	101	1456	22.9	74.6	101	1506	25.4	76.2	102	1544	27.4	77.1	103					
600	14.97	1459	22.8	70.4	102	1510	25.4	72.6	103	1557	28.0	74.6	103	1594	30.1	75.7	104					
640	15.97	1517	25.3	68.3	104	1564	28.1	70.7	104													
680	16.97	1577	28.2	66.0	105																	
720	17.97																					

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# GAF-SS series

## AIR FOIL FAN

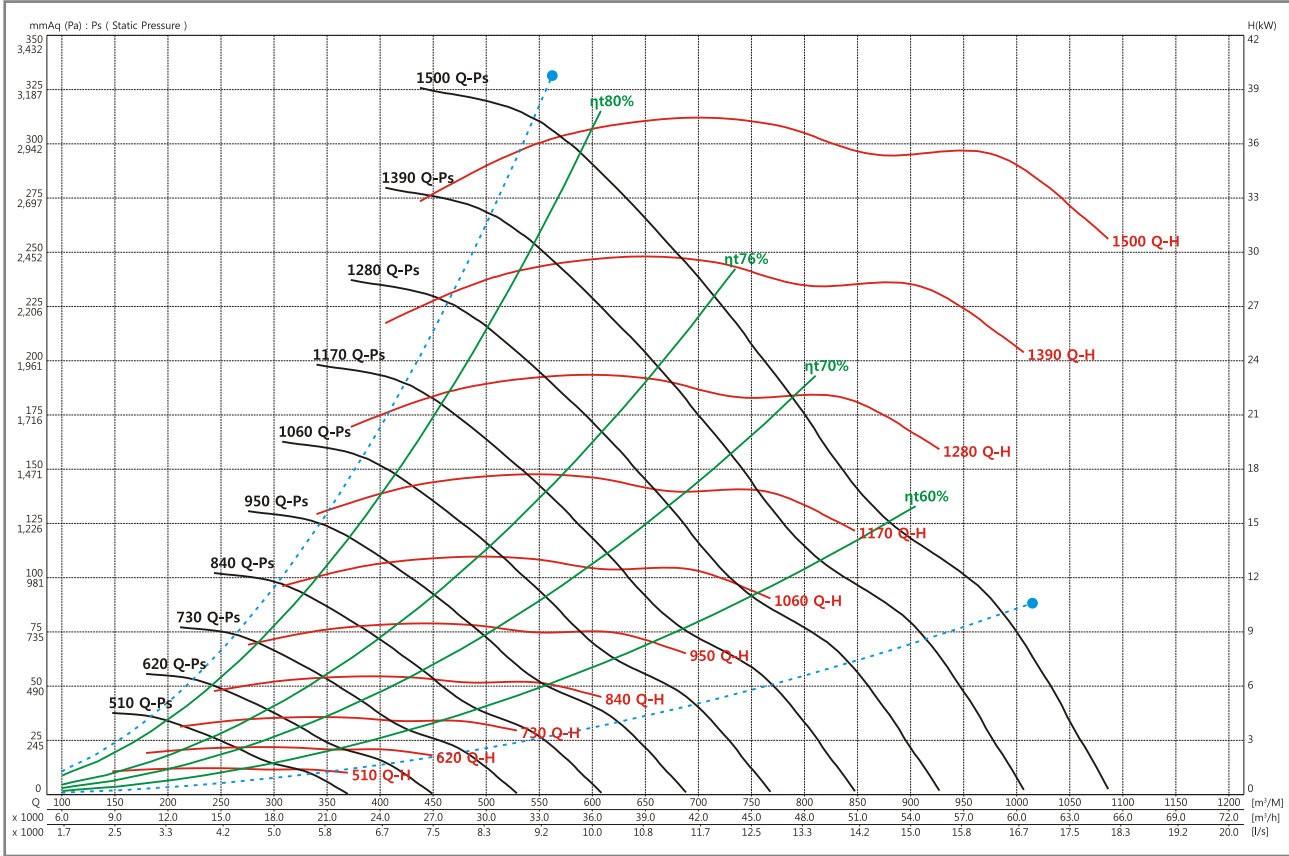
www.gsfan.co.kr



GAF-6.5SS

FEG 85

Wheel dia	990 mm	Tip Speed = 0.05184 * rpm	Outlet Dim'	790 * 990	Outlet Area	0.7821 m <sup>2</sup>	Class 1	1157 rpm	Class 2	1543 rpm	Not Applicable
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Air flow (m <sup>3</sup> /min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
355	7.57	629	2.62	62.9	84	723	4.17	74.2	84	807	5.79	78.3	87	884	7.51	79.6	89	957	9.36	79.3	91
400	8.52	677	3.25	59.2	87	772	5.03	70.8	87	850	6.79	76.2	89	923	8.66	78.6	91	991	10.6	79.6	92
445	9.48	719	3.92	56.6	89	824	6.00	67.1	90	897	7.95	73.5	90	965	9.94	77.0	92	1029	12.0	78.7	94
490	10.44	764	4.70	54.1	91	876	7.11	63.8	92	945	9.22	70.8	92	1010	11.4	74.9	94	1072	13.6	77.3	95
535	11.40	815	5.66	51.0	93	926	8.31	60.9	95	997	10.7	67.9	95	1058	13.0	72.3	95	1116	15.4	75.4	96
580	12.36	870	6.79	47.9	94	971	9.60	58.6	96	1049	12.3	65.0	97	1107	14.8	70.0	97	1163	17.3	73.3	98
625	13.32	927	8.10	45.5	96	1013	10.9	56.8	98	1101	14.0	62.4	99	1159	16.7	67.5	99	1211	19.4	71.1	99
670	14.28	984	9.59	42.8	98	1057	12.5	55.0	99	1150	15.9	60.2	101	1211	18.9	65.0	101	1261	21.8	69.0	101
715	15.24	1042	11.3	40.9	100	1105	14.2	53.1	100	1194	17.8	58.4	102	1264	21.3	62.7	102	1314	24.3	66.6	103
760	16.20	1100	13.2	39.1	101	1157	16.2	50.9	102	1235	19.8	57.0	103	1312	23.7	60.8	104	1367	27.1	64.5	104
805	17.15	1159	15.2	37.1	102	1211	18.4	48.8	103	1278	22.0	55.6	104	1358	26.3	59.1	105	1418	30.1	62.6	106
850	18.11	1219	17.6	35.6	104	1267	20.9	46.7	104	1324	24.5	53.9	105	1400	28.9	57.7	106	1467	33.1	60.8	107

Air flow (m <sup>3</sup> /min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
355	7.57																					
400	8.52	1055	12.6	79.5	94																	
445	9.48	1091	14.2	79.5	95	1148	16.4	79.8	96	1207	18.8	79.3	98									
490	10.44	1130	15.9	78.6	96	1185	18.2	79.4	97	1239	20.7	79.7	99	1292	23.2	79.5	100	1345	25.9	79.0	101	
535	11.40	1172	17.8	77.3	97	1225	20.3	78.5	98	1277	22.8	79.3	100	1326	25.5	79.6	101	1374	28.1	79.8	101	
580	12.36	1215	19.9	75.7	99	1267	22.5	77.3	100	1317	25.2	78.3	100	1365	28.0	79.0	101	1411	30.8	79.5	102	
625	13.32	1262	22.2	73.8	100	1311	24.9	75.8	101	1359	27.8	77.2	102	1406	30.7	78.1	102	1450	33.7	78.8	103	
670	14.28	1310	24.7	71.8	101	1357	27.6	74.1	102	1403	30.6	75.7	103	1447	33.6	77.0	103	1492	36.8	77.8	104	
715	15.24	1360	27.4	69.8	103	1406	30.6	72.2	103	1449	33.6	74.2	104	1492	36.8	75.6	104					
760	16.20	1411	30.3	67.9	104	1454	33.6	70.4	104	1497	37.0	72.3	105									
805	17.15	1465	33.6	65.7	106																	
850	18.11																					

- Air performance and Sound performance of can be changed without notice for performance and quality improvement.  
 - Power rating BkW does not include V-belt drive, motor efficiency and transmission losses.  
 - The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL(LwiA(dBA)) sound power levels for installation type B:(Free inlet, Ducted outlet), Rating do not include the effect of duct end corrections.  
 - Performance certified for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).

GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

## AIR FOIL FAN

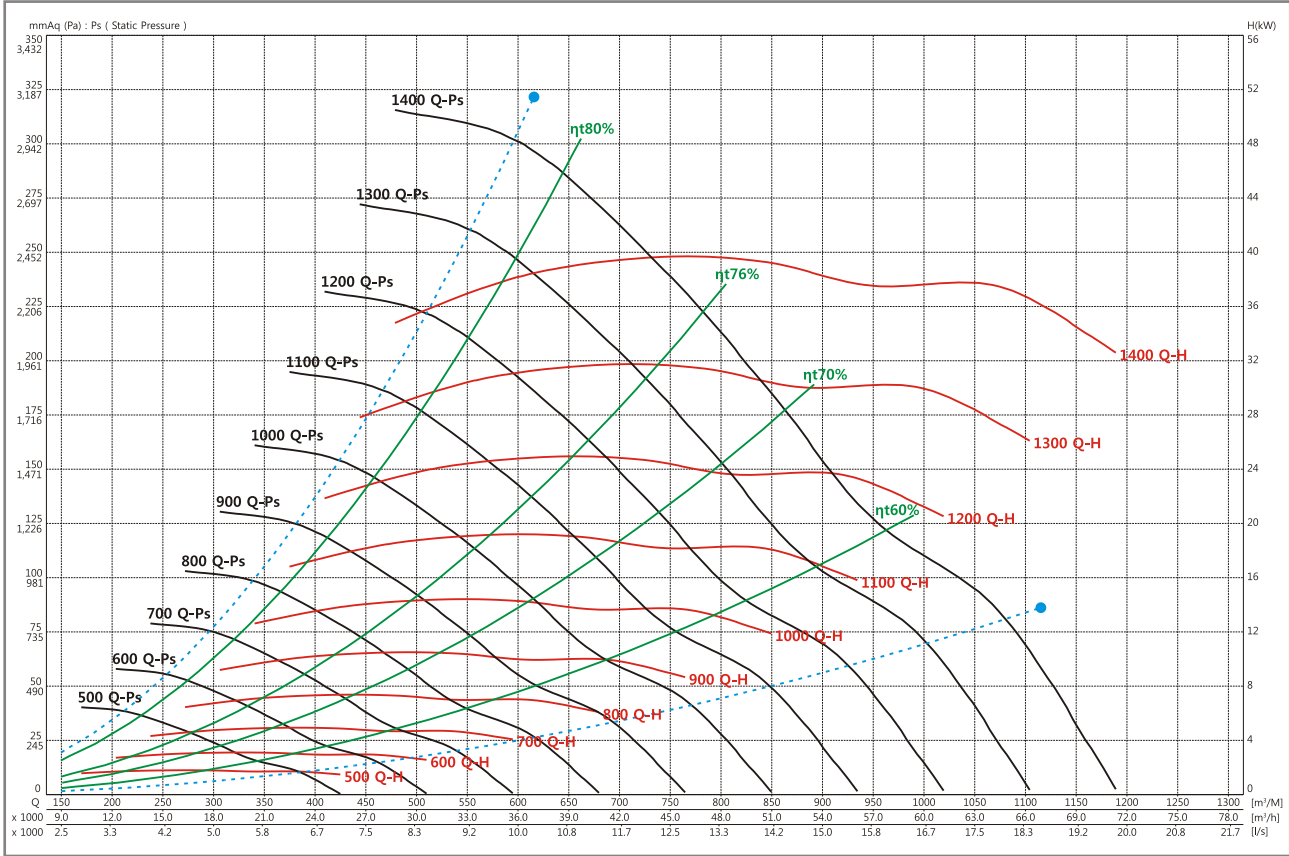
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GAF-7SS

FEG 85

Wheel dia	1066 mm	Tip Speed = 0.05582 * rpm	Outlet Dim'	845 * 1065	Outlet Area	0.8999 m <sup>2</sup>	Class 1	1075 rpm	Class 2	1433 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
		m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA
400	7.41	574	2.89	63.9	83	662	4.64	75.0	84	741	6.48	78.6	87	813	8.43	79.7	89	883	10.6	79.0	91
450	8.33	618	3.58	60.0	86	705	5.56	71.6	86	779	7.56	76.8	88	847	9.67	79.0	90	911	11.9	79.7	92
500	9.26	656	4.3	57.3	88	750	6.58	68.3	89	819	8.77	74.5	90	884	11.0	77.5	92	945	13.4	79.0	93
550	10.19	695	5.12	54.9	90	797	7.78	64.9	92	862	10.2	71.7	92	923	12.6	75.6	93	981	15.1	77.7	95
600	11.11	738	6.11	52.1	92	842	9.08	61.9	94	906	11.7	69.0	94	965	14.3	73.3	95	1020	17.0	76.2	96
650	12.04	786	7.29	49.4	94	884	10.5	59.5	96	954	13.4	66.1	96	1008	16.2	71.0	96	1060	19.0	74.3	97
700	12.96	836	8.65	46.5	96	923	11.9	57.6	97	1000	15.3	63.5	98	1053	18.3	68.8	98	1103	21.4	72.2	99
750	13.89	886	10.2	44.1	97	960	13.5	55.9	99	1044	17.3	61.3	100	1100	20.6	66.3	100	1147	23.8	70.1	100
800	14.82	937	11.9	42.0	99	1000	15.3	54.2	100	1086	19.4	59.3	101	1146	23.1	64.0	102	1192	26.5	68.0	102
850	15.74	989	13.9	40.0	100	1045	17.3	52.1	101	1124	21.6	57.9	103	1192	25.8	61.9	103	1240	29.5	65.8	103
900	16.67	1041	16.1	38.1	102	1092	19.6	50.1	103	1161	23.9	56.5	104	1234	28.5	60.1	105	1286	32.6	63.8	105
950	17.59	1094	18.5	36.7	103	1141	22.2	48.1	104	1200	26.4	55.0	105	1274	31.4	58.6	106	1331	35.9	62.0	106

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
		m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	m <sup>-1</sup>	kW	%	LwiA	
400	7.41																					
450	8.33	972	14.2	79.3	94																	
500	9.26	1002	15.8	79.6	95	1058	18.4	79.5	96													
550	10.19	1036	17.7	79.0	96	1088	20.4	79.6	97	1139	23.1	79.8	98	1190	26.1	79.3	100					
600	11.11	1073	19.8	77.8	97	1123	22.6	78.9	98	1171	25.5	79.5	99	1219	28.5	79.7	100	1265	31.6	79.5	101	
650	12.04	1111	22.0	76.4	98	1160	25.0	77.8	99	1206	28.0	78.8	100	1252	31.2	79.3	101	1295	34.4	79.6	102	
700	12.96	1151	24.4	74.8	100	1198	27.6	76.5	100	1243	30.8	77.7	101	1287	34.1	78.6	102	1329	37.4	79.2	103	
750	13.89	1194	27.2	72.7	101	1238	30.4	75.0	101	1281	33.8	76.5	102	1324	37.2	77.6	103	1365	40.7	78.4	104	
800	14.82	1237	30.0	70.9	102	1281	33.6	73.1	103	1322	37.0	75.0	103	1362	40.6	76.4	104					
850	15.74	1281	33.1	69.1	104	1323	36.8	71.5	104	1364	40.6	73.3	104									
900	16.67	1329	36.5	67.0	105	1367	40.3	69.8	105													
950	17.59	1375	40.1	65.1	106																	

- Air performance and Sound performance of can be changed without notice for performance and quality improvement.  
 - Power rating BkW does not include V-belt drive, motor efficiency and transmission losses.  
 - The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL(LwiA(dBA)) sound power levels for installation type B:(Free inlet, Ducted outlet), Rating do not include the effect of duct end corrections.  
 - Performance certified for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).

# GAF-SS series

## AIR FOIL FAN

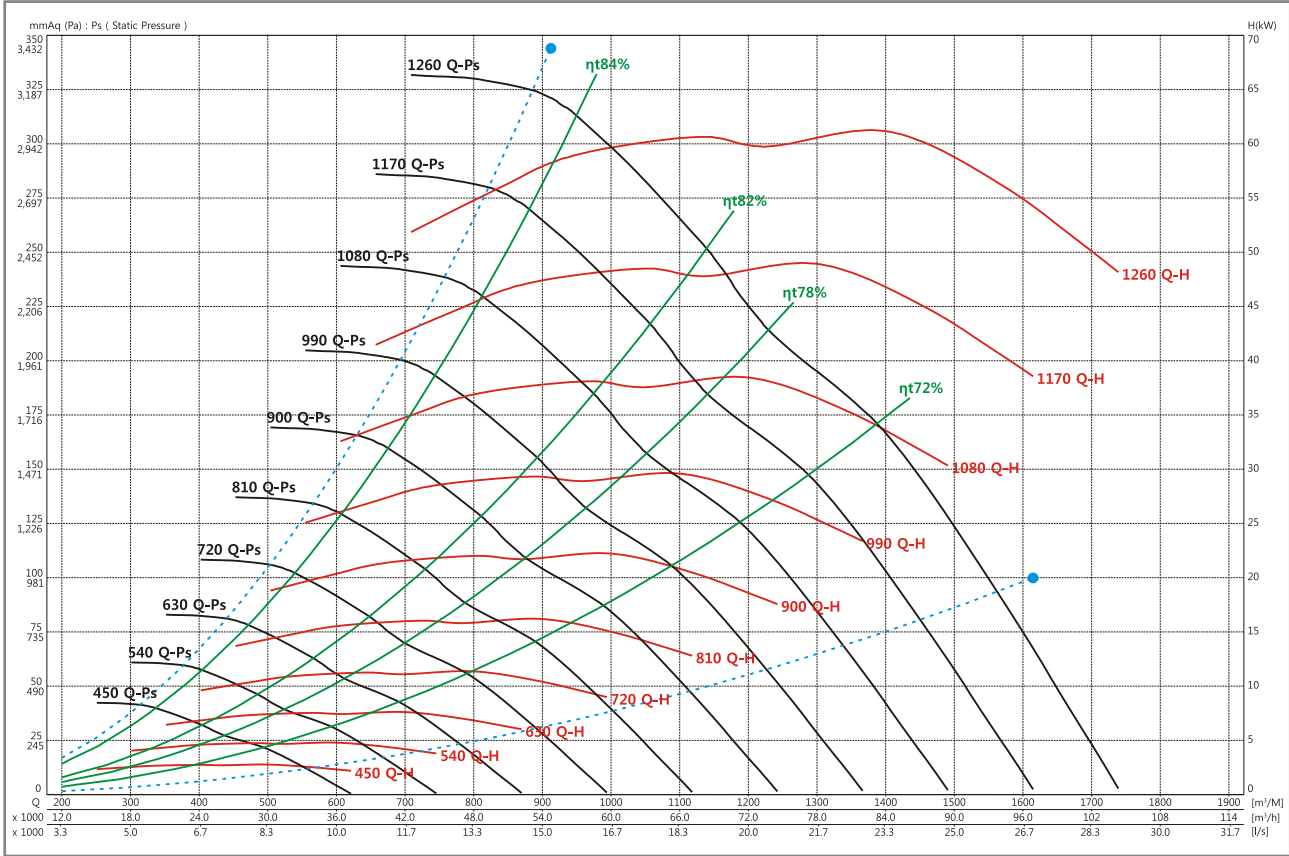
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GAF-8SS

FEG 85

Wheel dia	1210 mm	Tip Speed =	0.06336 * rpm	Outlet Dim'	965 * 1220	Outlet Area	1.1773 m <sup>2</sup>	Class 1	947 rpm	Class 2	1263 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
500	7.08	468	3.12	73.3	80	559	5.26	81.7	81	632	7.5	84.4	83	702	9.97	83.8	85				
575	8.14	508	3.96	68.9	83	600	6.44	78.5	84	667	8.92	82.8	85	729	11.5	84.4	87	789	14.3	84.2	88
650	9.20	553	4.99	64.3	87	636	7.74	75.5	86	705	10.5	80.5	87	763	13.3	83.2	89	818	16.3	84.4	90
725	10.26	599	6.21	59.9	89	670	9.17	72.6	89	746	12.3	77.7	90	799	15.4	81.3	90	852	18.6	83.2	92
800	11.33	647	7.66	56.0	92	710	10.9	69.4	91	780	14.3	75.4	92	841	17.8	78.9	93	888	21.1	81.5	93
875	12.39	696	9.36	52.6	94	754	12.8	66.1	94	814	16.4	73.0	94	879	20.3	76.7	95	930	24.0	79.4	95
950	13.45	746	11.3	49.7	96	800	15.0	63.1	96	852	18.9	70.5	96	912	23	74.7	97	969	27.1	77.4	97
1025	14.51	796	13.5	46.8	98	847	17.6	60.0	98	895	21.6	67.8	98	947	25.9	72.7	98	1003	30.4	75.6	99
1100	15.57	847	16.1	44.6	100	895	20.4	57.2	100	940	24.7	65.2	100	986	29.2	70.5	100	1036	33.9	73.9	100
1175	16.63	898	19.0	42.4	102	943	23.5	54.6	102	987	28.2	62.7	102	1029	32.9	68.2	102	1072	37.7	72.0	102
1250	17.70	950	22.3	40.8	103	992	27.1	52.4	103	1034	31.9	60.2	103	1073	36.9	65.8	103	1113	42.0	70.0	103
1325	18.76	1001	26.0	39.2	105	1042	31.0	50.2	105	1081	36.1	57.9	105	1119	41.3	63.6	105	1156	46.6	67.9	105

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
500	7.08																				
575	8.14																				
650	9.20	870	19.3	84.5	91	925	22.7	83.4	93	996	28.8	84.2	95								
725	10.26	901	21.8	84.3	93	949	25.2	84.5	94	1025	31.9	84.4	96	1067	35.7	84.5	97	1111	39.8	84.0	98
800	11.33	936	24.7	83.1	94	980	28.2	84.1	95	1057	35.4	83.9	97	1097	39.4	84.4	98	1137	43.5	84.5	99
875	12.39	972	27.7	81.6	96	1015	31.6	82.9	97	1057	35.4	83.9	97	1097	39.4	84.4	98	1137	43.5	84.5	99
950	13.45	1013	31.2	79.7	98	1051	35.2	81.5	98	1092	39.4	82.7	99	1131	43.5	83.6	99	1168	47.7	84.2	100
1025	14.51	1053	34.9	77.8	99	1093	39.2	79.7	99	1129	43.5	81.3	100	1166	48.0	82.4	100	1203	52.5	83.3	101
1100	15.57	1088	38.7	76.1	101	1134	43.5	78.0	101	1171	48.2	79.6	101	1204	52.8	81.1	102	1238	57.5	82.1	102
1175	16.63	1121	42.8	74.5	102	1169	48.0	76.4	102	1211	53.1	78.0	103	1246	58.0	79.5	103				
1250	17.70	1156	47.2	72.9	103	1202	52.7	75.0	104	1246	58.2	76.5	104								
1325	18.76	1194	52.0	71.1	105	1236	57.7	73.4	105												

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GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

# AIR FOIL FAN

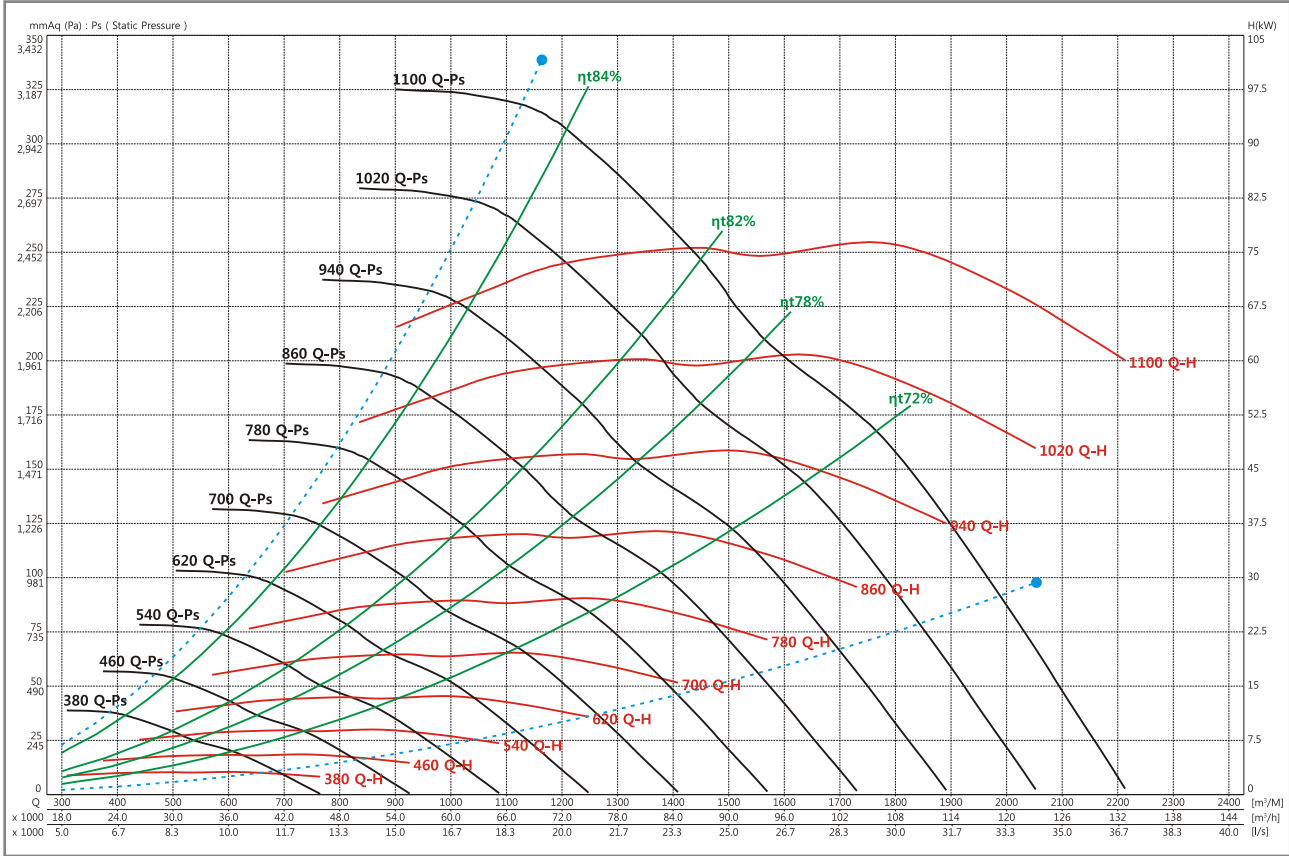
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GAF-9SS

FEG 85

Wheel dia	1372 mm	Tip Speed =	0.07184 * rpm	Outlet Dim'	1080 * 1370	Outlet Area	1.4796 m <sup>2</sup>	Class 1	835 rpm	Class 2	1114 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
600	6.76	399	3.59	75.1	78	479	6.18	82.9	80	546	8.94	84.5	82								
700	7.89	433	4.63	70.8	82	515	7.65	79.7	83	575	10.7	83.6	84	632	13.9	84.5	86	687	17.4	83.4	88
800	9.01	473	5.91	66.0	86	550	9.32	76.5	86	608	12.7	81.4	87	661	16.2	83.8	88	711	19.9	84.4	90
900	10.14	515	7.43	61.3	89	580	11.1	73.6	89	646	15.0	78.7	89	694	18.9	81.9	90	741	22.8	83.7	91
1000	11.26	559	9.30	57.4	92	615	13.3	70.4	91	679	17.6	76.0	92	732	22.0	79.6	92	774	26.2	82.1	93
1100	12.39	603	11.4	53.5	95	655	15.8	67.0	94	710	20.4	73.7	94	767	25.2	77.3	94	810	29.9	80.0	95
1200	13.52	648	13.9	50.2	97	697	18.7	63.8	96	744	23.5	71.1	96	798	28.8	75.2	96	848	34.0	77.9	97
1300	14.64	694	16.9	47.6	99	739	21.9	60.4	98	783	27.2	68.4	98	829	32.6	73.1	98	879	38.3	75.9	99
1400	15.77	740	20.2	44.7	101	783	25.6	57.6	100	824	31.2	65.7	100	864	36.9	70.8	100	909	42.8	74.1	101
1500	16.90	787	24.0	42.6	102	827	29.7	54.9	102	866	35.7	63.0	102	903	41.7	68.4	102	942	47.9	72.2	102
1600	18.02	834	28.3	40.8	104	872	34.4	52.5	104	909	40.7	60.4	104	944	47.1	66.1	104	979	53.6	70.1	104
1700	19.15	881	33.1	39.1	106	917	39.5	50.1	105	952	46.1	57.9	105	985	52.8	63.6	105	1018	59.7	67.9	105

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
600	6.76																				
700	7.89																				
800	9.01	760	23.8	84.1	91																
900	10.14	786	27.0	84.4	93	829	31.3	84.5	94	873	35.9	83.6	95								
1000	11.26	816	30.6	83.6	94	856	35.0	84.3	95	896	39.8	84.5	96	935	44.7	84.2	97	975	49.9	83.4	98
1100	12.39	849	34.6	82.0	96	888	39.5	83.3	97	925	44.3	84.1	97	961	49.4	84.4	98	996	54.6	84.5	99
1200	13.52	885	39.0	80.2	98	920	44.1	81.8	98	956	49.4	83.0	99	991	54.7	83.9	100	1024	60.1	84.3	100
1300	14.64	923	43.9	78.2	99	957	49.4	80.1	100	989	54.9	81.6	100	1023	60.6	82.7	101	1055	66.3	83.5	101
1400	15.77	955	49.0	76.4	101	995	55.1	78.3	101	1027	61.0	79.9	102	1056	66.8	81.3	102	1088	73.1	82.3	102
1500	16.90	985	54.4	74.7	103	1028	61.1	76.6	103	1064	67.4	78.2	103	1095	73.9	79.7	103				
1600	18.02	1017	60.3	73.0	104	1058	67.3	75.1	104	1097	74.2	76.7	104								
1700	19.15	1052	66.7	71.2	105	1089	74.0	73.5	105												

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 - Power rating BkW does not include V-belt drive, motor efficiency and transmission losses.  
 - The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL(LwiA(dBA)) sound power levels for installation type B:(free inlet, Ducted outlet), Rating do not include the effect of duct end corrections.  
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# GAF-SS series

## AIR FOIL FAN

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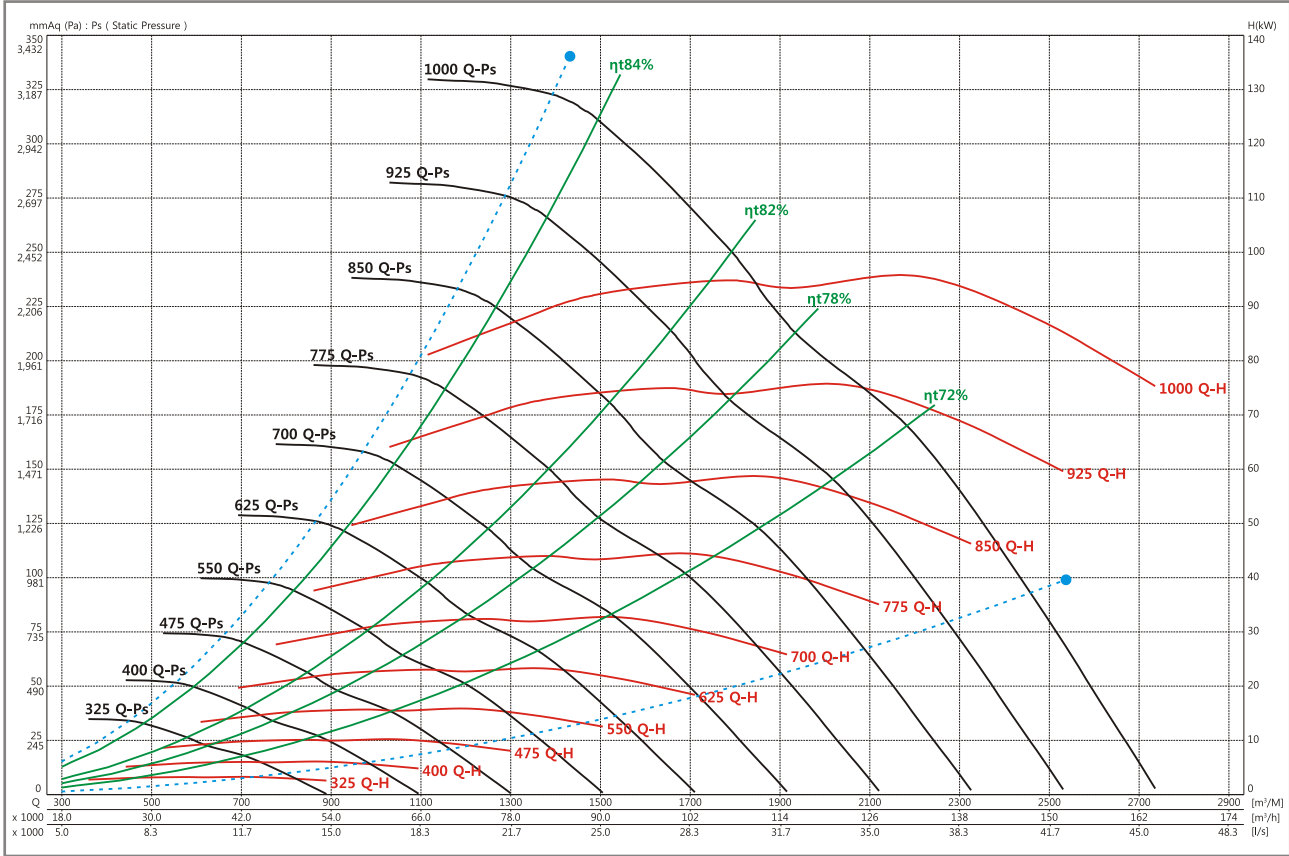


AIR FOIL FAN  
GAF-SS series

**GAF-10SS**

**FEG 85**

Wheel dia	1520 mm	Tip Speed = 0.07959 * rpm	Outlet Dim'	1200 * 1525	Outlet Area	1.8300 m <sup>2</sup>	Class 1	754 rpm	Class 2	1005 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
900	8.20	402	6.14	69.0	84	476	10.0	78.7	85	529	13.9	83.0	86	579	18.0	84.4	87	627	22.4	84.2	89
1000	9.11	432	7.48	65.2	87	500	11.7	76.1	87	554	16.0	81.0	88	601	20.3	83.6	89	646	25.0	84.4	90
1100	10.02	463	9.01	61.3	90	523	13.6	73.7	89	582	18.4	78.8	90	625	23.0	82.0	90	668	27.9	83.8	92
1200	10.93	495	10.8	58.0	92	548	15.7	71.2	91	607	20.9	76.6	92	652	26.0	80.2	92	692	31.2	82.5	93
1300	11.84	528	12.9	55.1	94	576	18.0	68.3	93	629	23.6	74.7	93	680	29.3	78.2	94	717	34.7	80.9	94
1400	12.75	561	15.3	52.2	96	606	20.7	65.6	95	653	26.6	72.7	95	704	32.7	76.4	95	745	38.6	79.1	96
1500	13.66	594	17.9	49.6	98	637	23.7	62.9	97	679	29.8	70.5	97	726	36.3	74.7	97	772	42.9	77.4	98
1600	14.57	628	20.9	47.3	100	669	27.1	60.4	99	708	33.5	68.2	99	749	40.1	72.9	99	795	47.3	75.9	99
1700	15.48	662	24.2	45.2	101	701	30.7	58.0	101	738	37.5	66.1	100	775	44.4	71.2	100	817	51.8	74.4	101
1800	16.39	696	27.8	43.3	103	733	34.7	55.7	102	769	42.0	63.9	102	803	49.1	69.2	102	840	56.6	72.8	102
1900	17.30	731	32.0	41.8	104	766	39.2	53.8	103	800	46.7	61.7	103	833	54.4	67.3	103	866	62.0	71.2	103
2000	18.21	766	36.5	40.4	105	799	44.0	51.7	105	832	51.9	59.7	105	863	59.8	65.4	105	894	67.9	69.5	105

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
900	8.20																					
1000	9.11	689	29.8	84.2	92																	
1100	10.02	708	32.9	84.4	93	747	38.2	84.5	94	788	43.9	83.5	95									
1200	10.93	730	36.4	83.8	94	767	41.9	84.4	95	803	47.6	84.5	96	839	53.6	84.0	97					
1300	11.84	754	40.4	82.7	95	789	46.0	83.8	96	824	52.1	84.4	97	857	58.2	84.5	98	890	64.5	84.2	99	
1400	12.75	779	44.7	81.3	97	813	50.7	82.7	97	846	56.8	83.8	98	878	63.2	84.3	99	909	69.7	84.4	100	
1500	13.66	807	49.2	79.6	98	838	55.7	81.5	99	870	62.2	82.7	99	900	68.6	83.6	100	930	75.3	84.2	101	
1600	14.57	834	54.1	78.1	100	865	60.8	80.0	100	894	67.6	81.6	101	924	74.6	82.6	101	953	81.5	83.4	102	
1700	15.48	858	59.2	76.6	101	893	66.5	78.6	101	922	73.8	80.3	102	949	81.0	81.6	102	977	88.3	82.5	103	
1800	16.39	880	64.5	75.3	102	918	72.4	77.1	103	950	80.2	78.9	103	976	87.6	80.3	103					
1900	17.30	903	70.2	73.9	104	941	78.6	75.8	104	976	86.9	77.5	104									
2000	18.21	927	76.2	72.5	105	963	84.9	74.6	105	999	93.8	76.2	105									

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GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

# AIR FOIL FAN

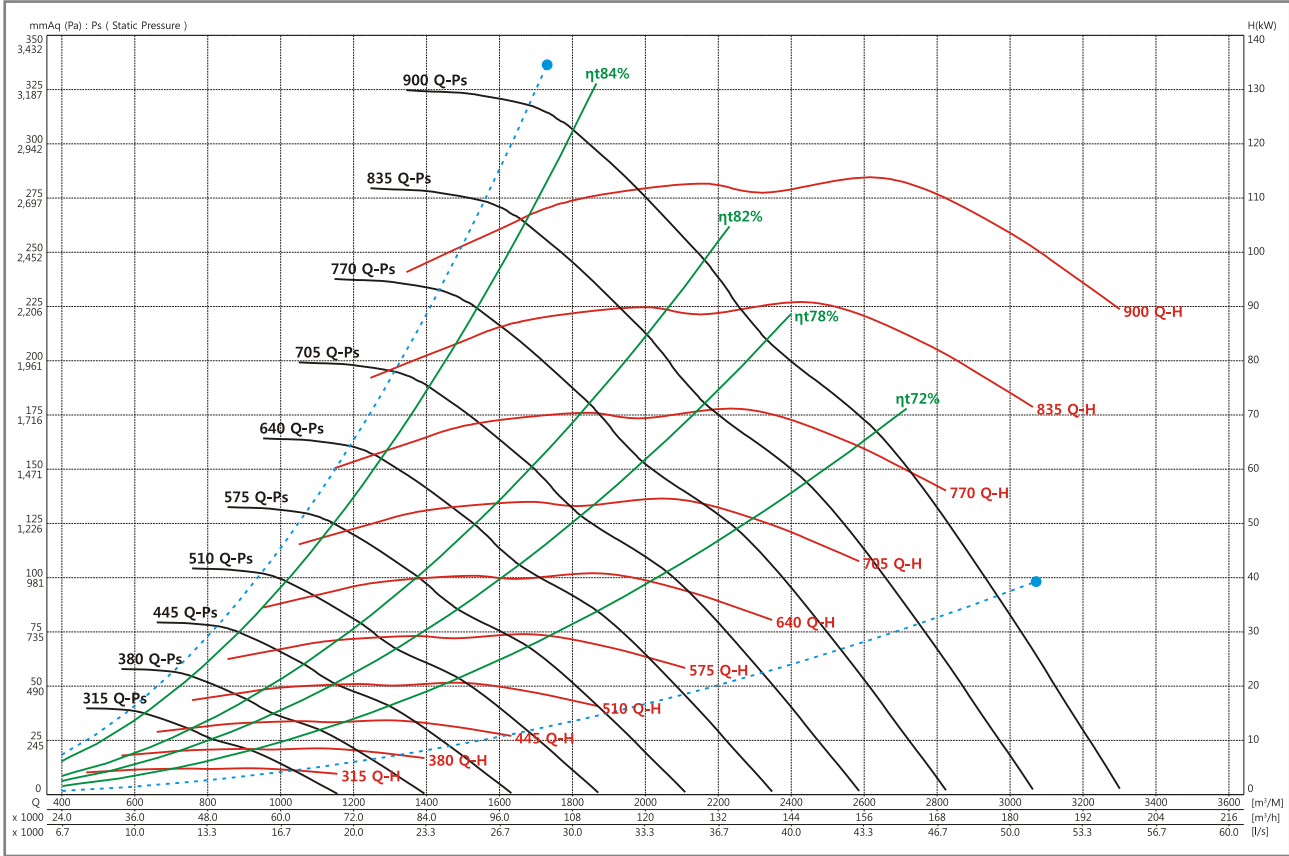
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## GAF-11SS

## FEG 85

Wheel dia	1676 mm	Tip Speed =	0.08776 * rpm	Outlet Dim'	1320 * 1675	Outlet Area	2.2110 m <sup>2</sup>	Class 1	684 rpm	Class 2	912 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
1000	7.54	345	6.41	72.2	82	412	10.7	80.9	83	463	15.1	84.1	85	511	19.8	84.4	86				
1125	8.48	371	7.87	68.1	85	438	12.7	78.0	86	485	17.6	82.5	87	530	22.5	84.3	88	572	27.9	84.5	89
1250	9.42	400	9.63	64.2	88	459	14.9	75.4	88	509	20.2	80.4	89	551	25.7	83.1	90	591	31.3	84.4	91
1375	10.36	429	11.6	60.3	91	481	17.3	73.0	91	535	23.3	78.0	91	574	29.1	81.5	91	612	35.1	83.4	92
1500	11.31	459	14.0	57.0	94	505	20.0	70.2	93	557	26.5	75.9	93	600	33.0	79.5	93	634	39.3	82.0	94
1625	12.25	489	16.7	53.9	96	532	23.1	67.4	95	578	30.0	74.0	95	625	37.1	77.5	95	659	43.9	80.3	95
1750	13.19	520	19.8	51.2	98	561	26.6	64.6	97	601	33.8	71.9	96	646	41.5	75.7	97	685	48.9	78.5	97
1875	14.13	551	23.2	48.6	99	590	30.5	61.8	99	627	38.1	69.6	98	667	46.0	74.0	98	709	54.4	76.8	98
2000	15.08	583	27.2	46.5	101	619	34.8	59.3	100	654	42.8	67.2	100	689	51.1	72.2	100	729	59.8	75.2	100
2125	16.02	615	31.5	44.4	102	649	39.6	56.9	102	682	48.1	65.0	101	715	56.7	70.2	101	750	65.7	73.7	101
2250	16.96	647	36.4	42.6	104	680	44.9	54.7	103	711	53.8	62.8	103	742	62.9	68.2	103	773	72.1	72.1	103
2375	17.90	679	41.7	40.9	105	710	50.7	52.6	105	740	59.9	60.5	104	769	69.4	66.2	104	798	79.1	70.2	104

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)			
		rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
1000	7.54																				
1125	8.48																				
1250	9.42	629	37.2	84.5	92	668	43.7	83.5	94												
1375	10.36	648	41.3	84.4	93	683	47.8	84.5	94	718	54.7	84.0	96								
1500	11.31	669	45.9	83.5	95	702	52.7	84.3	96	734	59.7	84.5	97	766	67.0	84.3	98	799	74.8	83.5	99
1625	12.25	692	51.0	82.2	96	723	58.0	83.4	97	754	65.3	84.2	98	784	72.9	84.4	98	813	80.6	84.5	99
1750	13.19	716	56.4	80.7	97	746	63.9	82.2	98	775	71.5	83.3	99	804	79.3	84.1	100	832	87.4	84.4	100
1875	14.13	742	62.3	79.0	99	770	70.3	80.9	99	798	78.3	82.2	100	826	86.6	83.2	101	852	94.8	83.9	101
2000	15.08	766	68.5	77.4	100	796	77.1	79.3	101	822	85.6	81.0	101	848	94.1	82.1	102	874	102.9	83.0	102
2125	16.02	788	75.1	75.9	102	821	84.3	77.8	102	848	93.4	79.5	103	872	102.2	80.9	103	897	111.5	82.0	104
2250	16.96	808	81.8	74.6	103	843	91.8	76.5	103	873	101.4	78.1	104	898	111.0	79.5	104				
2375	17.90	830	89.2	73.1	104	864	99.6	75.2	105	896	110.0	76.8	105								

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# GAF-SS series

## AIR FOIL FAN

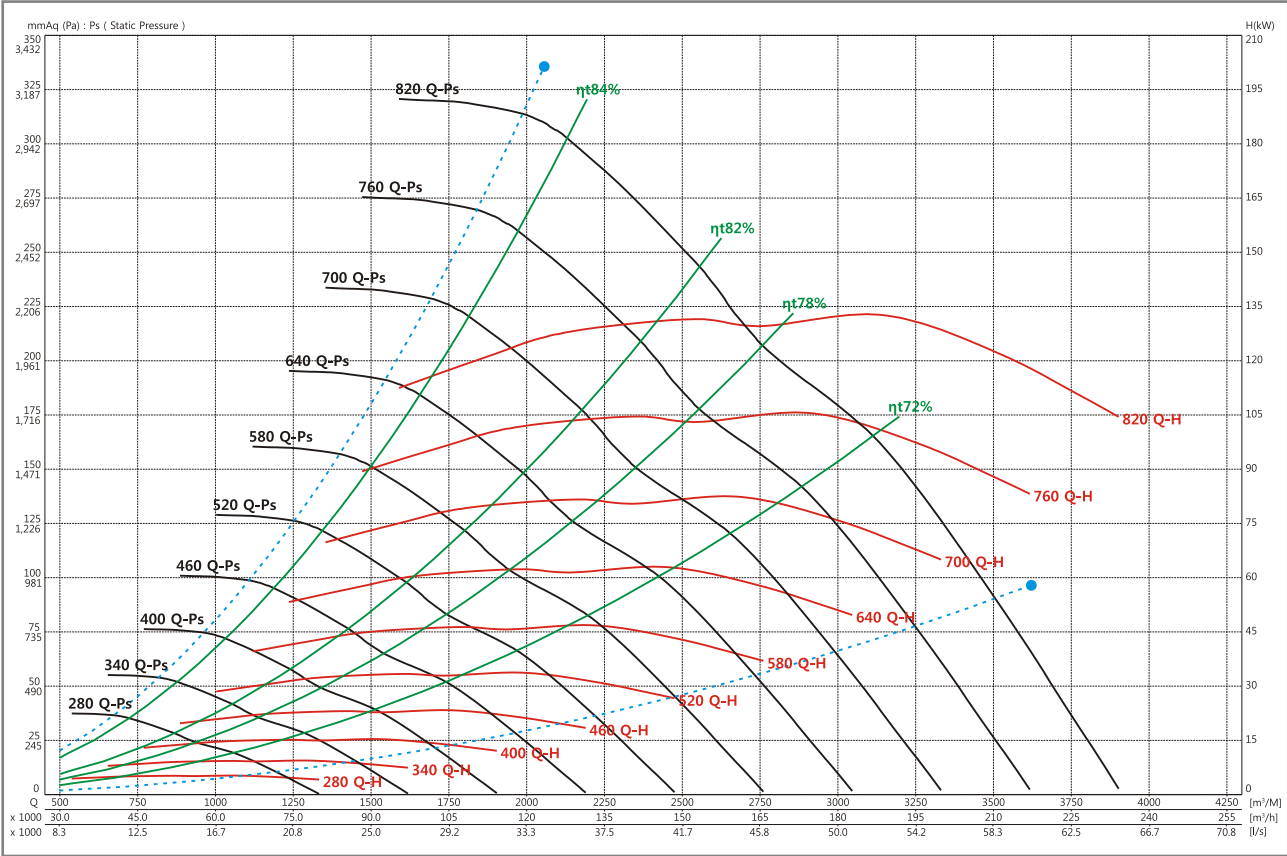
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AIR FOIL FAN  
GAF-SS series

### GAF-12SS FEG 85

Wheel dia	1828 mm	Tip Speed = 0.09571 * rpm	Outlet Dim'	1440 * 1830	Outlet Area	2.6352 m <sup>2</sup>	Class 1	627 rpm	Class 2	836 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
1250	7.91	326	8.29	70.5	83	387	13.7	79.6	84	433	19.1	83.6	86	475	24.9	84.5	87	517	31.2	83.4	89
1400	8.85	351	10.2	66.4	87	410	16.2	76.9	87	453	22.1	81.7	88	493	28.2	84.0	89	531	34.8	84.5	90
1550	9.80	378	12.4	62.6	90	429	18.9	74.4	89	477	25.6	79.4	90	514	32.3	82.5	91	550	39.1	84.1	92
1700	10.75	405	15.0	59.0	93	450	21.9	71.8	92	500	29.3	77.1	92	536	36.6	80.7	93	570	43.9	82.8	93
1850	11.70	433	18.0	55.5	95	474	25.3	68.9	94	519	33.3	75.1	94	560	41.3	78.6	94	591	49.1	81.3	95
2000	12.65	461	21.4	52.6	97	500	29.3	66.1	96	539	37.7	73.0	96	582	46.4	76.7	96	616	55.0	79.4	96
2150	13.60	490	25.3	49.8	99	526	33.7	63.3	98	561	42.4	70.8	98	601	51.7	75.0	98	639	61.2	77.6	98
2300	14.55	519	29.8	47.6	101	553	38.6	60.6	100	586	47.8	68.4	99	621	57.5	73.1	99	659	67.7	76.0	100
2450	15.50	548	34.6	45.2	102	581	44.1	58.2	102	612	53.9	66.1	101	643	63.9	71.3	101	678	74.5	74.5	101
2600	16.44	578	40.2	43.5	104	609	50.1	55.8	103	638	60.4	63.9	103	667	70.8	69.2	102	698	81.8	72.9	102
2750	17.39	608	46.3	41.7	105	637	56.9	53.8	105	665	67.6	61.6	104	692	78.5	67.2	104	720	89.7	71.2	104
2900	18.34	638	53.1	40.3	106	666	64.1	51.7	106	693	75.4	59.6	106	718	86.8	65.2	105	744	98.6	69.4	105

Air flow (m³/min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
1250	7.91																					
1400	8.85	569	41.8	83.8	92																	
1550	9.80	584	46.3	84.4	93	617	53.9	84.2	94													
1700	10.75	602	51.4	84.1	94	634	59.4	84.4	95	664	67.5	84.5	96	695	76.3	83.6	97					
1850	11.70	622	57.2	82.9	96	652	65.4	84.0	96	681	73.8	84.4	97	709	82.6	84.5	98	737	91.7	84.2	99	
2000	12.65	644	63.5	81.6	97	672	72.1	82.9	98	700	80.9	83.9	98	727	90.1	84.4	99	753	99.5	84.5	100	
2150	13.60	668	70.4	79.9	98	693	79.4	81.7	99	720	88.8	82.8	100	746	98.1	83.7	100	771	107.8	84.3	101	
2300	14.55	691	77.6	78.3	100	717	87.2	80.2	100	741	97.1	81.7	101	766	107.1	82.7	101	791	117.2	83.6	102	
2450	15.50	712	85.2	76.7	101	741	95.8	78.7	102	765	106.1	80.3	102	787	116.4	81.6	103	811	127.2	82.5	103	
2600	16.44	731	93.1	75.3	103	763	104.5	77.1	103	789	115.5	78.9	103	811	126.5	80.3	104					
2750	17.39	751	101.6	73.9	104	782	113.7	75.8	104	811	125.7	77.4	105									
2900	18.34	772	110.8	72.4	105	801	123.2	74.5	106													

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GAF-SS\_Version 10.5\_October,2015

# GAF-SS series

# AIR FOIL FAN

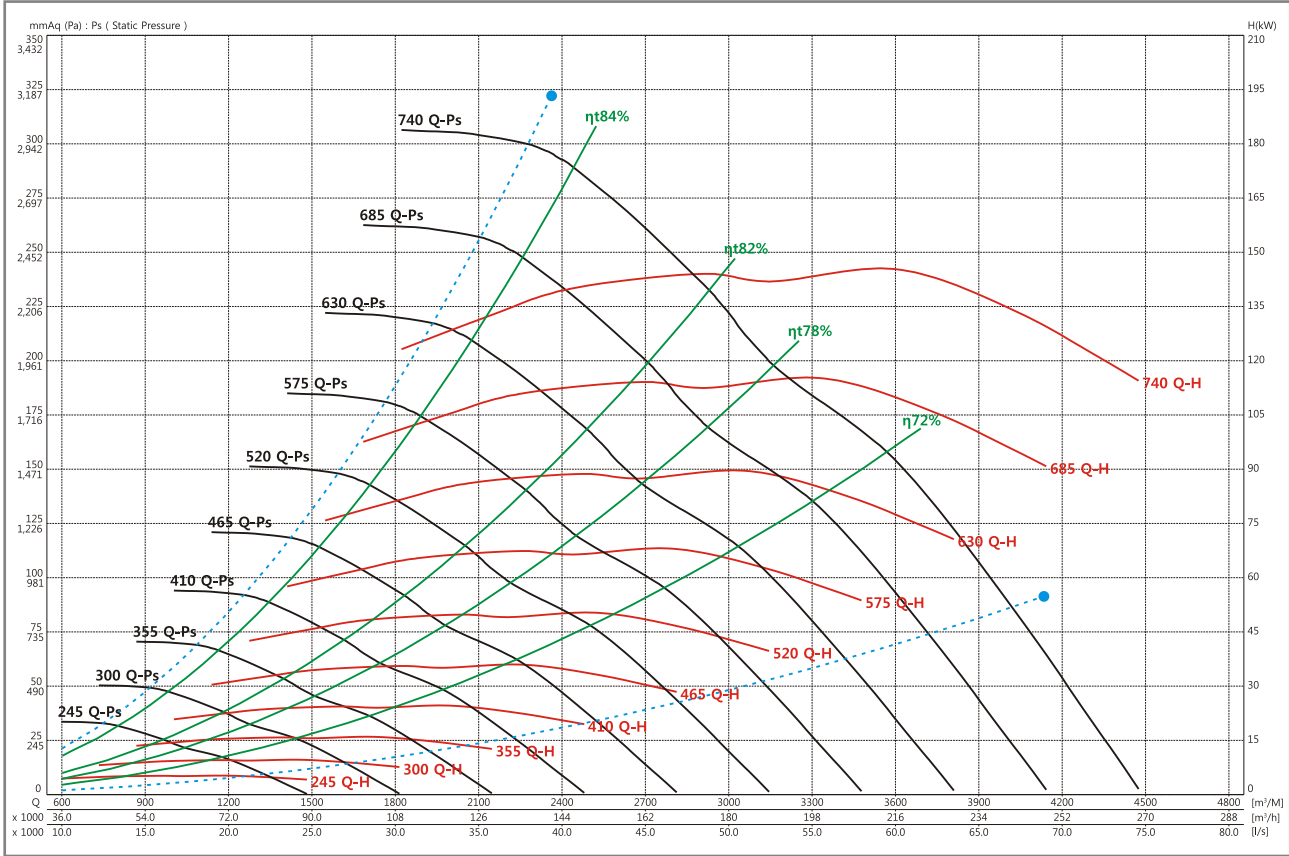
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GAF-13SS

FEG 85

Wheel dia	1980 mm	Tip Speed = 0.10367 * rpm	Outlet Dim'	1560 * 1980	Outlet Area	3.0888 m <sup>2</sup>	Class 1	579 rpm	Class 2	772 rpm	Not Applicable
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Air flow (m <sup>3</sup> /min)	Outlet Vel (m/sec)	20 mmAq ( 196 Pa)				40 mmAq ( 392 Pa)				60 mmAq ( 588 Pa)				80 mmAq ( 785 Pa)				100 mmAq ( 981 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
1400	7.55	293	8.99	72.1	83	349	15.0	80.8	83	392	21.1	84.1	85	433	27.8	84.4	87				
1600	8.63	318	11.4	67.4	87	374	18.3	77.5	86	414	25.1	82.2	87	451	32.1	84.2	89	487	39.7	84.5	90
1800	9.71	346	14.2	62.9	90	394	21.8	74.7	89	438	29.5	79.6	90	473	37.4	82.6	91	506	45.3	84.2	92
2000	10.79	375	17.7	58.8	93	416	25.8	71.7	92	462	34.5	77.0	93	496	43.0	80.6	93	527	51.7	82.7	94
2200	11.87	404	21.7	54.9	96	441	30.5	68.4	95	482	39.9	74.8	95	521	49.5	78.3	95	550	58.8	81.0	96
2400	12.95	434	26.4	51.7	98	469	35.9	65.3	97	504	45.8	72.4	97	543	56.4	76.1	97	575	66.7	78.9	97
2600	14.03	464	31.9	48.9	101	497	42.0	62.1	100	528	52.6	69.8	99	563	63.6	74.2	99	598	75.0	76.9	99
2800	15.11	495	38.1	46.3	103	526	49.0	59.3	102	555	60.2	67.1	101	585	71.8	72.2	101	618	83.9	75.2	101
3000	16.19	526	45.2	43.9	104	555	56.7	56.5	103	582	68.6	64.5	103	609	80.8	69.8	102	639	93.4	73.3	102
3200	17.27	557	53.3	42.1	106	584	65.4	54.0	105	610	77.9	61.9	104	636	90.8	67.5	104	661	103.8	71.4	104
3400	18.35	588	62.1	40.2	107	614	75.1	51.8	106	639	88.4	59.6	106	663	101.7	65.2	106	687	115.6	69.4	106
3600	19.43	620	72.0	38.6	108	644	85.7	49.6	108	668	99.7	57.4	108	691	113.7	63.0	107	713	128.2	67.3	107

Air flow (m <sup>3</sup> /min)	Outlet Vel (m/sec)	120 mmAq ( 1177 Pa)				140 mmAq ( 1373 Pa)				160 mmAq ( 1569 Pa)				180 mmAq ( 1765 Pa)				200 mmAq ( 1961 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
1400	7.55																					
1600	8.63	522	47.7	83.4	92																	
1800	9.71	537	53.7	84.5	93	568	62.5	84.1	94													
2000	10.79	557	60.6	84.1	95	585	69.8	84.4	95	613	79.2	84.5	96	642	89.7	83.7	98					
2200	11.87	578	68.3	82.1	96	605	78.0	83.9	97	631	87.9	84.4	98	657	98.4	84.5	98	683	109.3	84.2	99	
2400	12.95	601	76.9	81.1	98	627	87.3	82.5	98	652	97.7	83.6	99	676	108.5	84.2	100	700	119.8	84.4	100	
2600	14.03	626	86.2	79.2	99	649	97.1	81.0	100	673	108.3	82.3	100	697	119.7	83.3	101	720	131.3	84.0	102	
2800	15.11	650	96.2	77.3	101	675	107.9	79.3	101	696	119.7	80.9	102	719	132.0	82.1	102					
3000	16.19	670	106.6	75.7	103	699	119.6	77.5	103	722	132.5	79.2	103									
3200	17.27	690	117.6	74.1	104	720	131.8	76.0	104													
3400	18.35	712	129.8	72.4	106	740	144.5	74.6	106													
3600	19.43	736	142.8	70.6	107																	

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# GAF-SS series

## AIR FOIL FAN

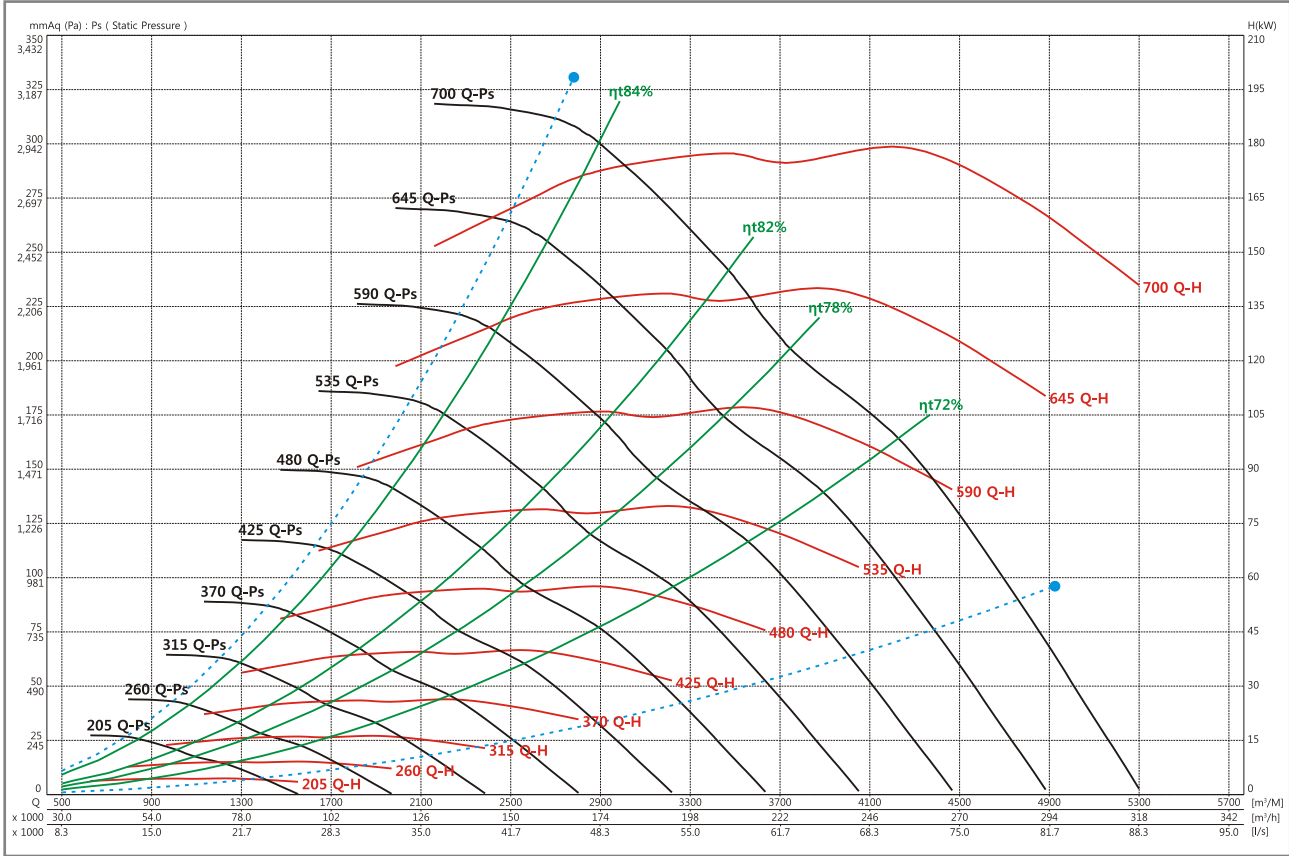
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GAF-14SS

FEG 85

Wheel dia	2138 mm	Tip Speed =	0.11195 * rpm	Outlet Dim'	1680 * 2135	Outlet Area	3.5868 m <sup>2</sup>	Class 1	536 rpm	Class 2	715 rpm	Not Applicable
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Air flow (m <sup>3</sup> /min)	Outlet Vel (m/sec)	25 mmAq ( 245 Pa)				50 mmAq ( 490 Pa)				75 mmAq ( 735 Pa)				100 mmAq ( 981 Pa)				125 mmAq ( 1226 Pa)			
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL
1900	8.83	298	13.7	66.8	88	349	21.9	77.1	87	386	30.0	81.8	88	420	38.3	84.1	89	453	47.2	84.5	91
2100	9.76	320	16.7	63.0	91	365	25.4	74.7	89	406	34.5	79.6	90	437	43.5	82.6	91	468	52.8	84.2	92
2300	10.69	343	20.1	59.4	93	382	29.4	72.2	92	425	39.5	77.4	92	456	49.2	80.9	93	485	59.2	83.0	94
2500	11.62	366	23.9	56.0	96	402	34.0	69.4	94	441	44.7	75.4	95	476	55.5	78.9	95	502	66.1	81.5	95
2700	12.55	390	28.4	53.1	98	423	39.1	66.6	97	458	50.4	73.4	97	494	62.2	77.0	97	523	73.8	79.7	97
2900	13.48	414	33.5	50.4	100	445	44.9	63.9	99	476	56.7	71.3	98	510	69.3	75.3	98	542	81.9	78.0	99
3100	14.40	438	39.2	48.1	102	468	51.3	61.2	101	496	63.8	69.0	100	527	76.9	73.6	100	559	90.5	76.4	100
3300	15.33	462	45.6	45.9	103	491	58.4	58.8	102	517	71.6	66.7	102	544	85.1	71.8	101	575	99.4	74.9	101
3500	16.26	487	52.8	43.9	105	514	66.2	56.5	104	539	80.1	64.5	103	564	94.2	69.8	103	592	109.0	73.3	103
3700	17.19	512	60.7	42.2	106	537	74.8	54.3	105	562	89.4	62.3	105	585	104.2	67.8	104	609	119.4	71.7	104
3900	18.12	537	69.5	40.7	107	561	84.3	52.3	107	584	99.5	60.2	106	607	115.0	65.9	106	629	130.8	70.0	106
4100	19.05	562	79.1	39.3	109	585	94.6	50.4	108	607	110.5	58.3	107	629	126.7	64.0	107	650	143.2	68.2	107

Air flow (m <sup>3</sup> /min)	Outlet Vel (m/sec)	150 mmAq ( 1471 Pa)				175 mmAq ( 1716 Pa)				200 mmAq ( 1961 Pa)				225 mmAq ( 2206 Pa)				250 mmAq ( 2452 Pa)				
		rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	rpm	BkW	η <sub>t</sub>	PWL	
1900	8.83	485	56.8	83.7	92																	
2100	9.76	497	62.7	84.5	93	526	73.0	84.1	95													
2300	10.69	513	69.4	84.2	95	540	80.2	84.4	95	566	91.3	84.3	96	593	103.4	83.4	98					
2500	11.62	529	77.0	83.1	96	555	88.1	84.1	97	580	99.7	84.4	98	604	111.6	84.5	98	628	124.3	84.0	99	
2700	12.55	547	85.2	81.8	97	572	97.0	83.1	98	595	108.9	84.0	99	618	121.4	84.4	99	641	134.2	84.5	100	
2900	13.48	566	94.1	80.3	99	589	106.6	81.9	99	612	119.3	83.1	100	634	132.0	83.9	101	656	145.2	84.4	101	
3100	14.40	586	103.7	78.7	100	608	116.8	80.6	101	629	130.1	81.9	101	651	143.7	83.0	102	672	157.3	83.8	102	
3300	15.33	604	113.9	77.1	102	628	127.9	79.0	102	648	141.9	80.7	102	668	156.1	81.9	103	689	170.4	82.8	103	
3500	16.26	621	124.4	75.7	103	647	139.7	77.5	103	669	154.5	79.2	103	687	169.2	80.7	104					
3700	17.19	637	135.4	74.3	104	664	151.7	76.2	104	688	167.8	77.8	105									
3900	18.12	654	147.3	72.9	106	680	164.2	75.0	106													
4100	19.05	672	159.9	71.4	107	696	177.6	73.6	107													

- Air performance and Sound performance of can be changed without notice for performance and quality improvement.  
 - Power rating BkW does not include V-belt drive, motor efficiency and transmission losses.  
 - The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL(LwiA(dBA)) sound power levels for installation type B:(free inlet, Ducted outlet), Rating do not include the effect of duct end corrections.  
 - Performance certified is for AMCA 210 Fig-12 & installation type B:(Free inlet, Ducted outlet), Performance ratings do not include the effects of appurtenance(Accessories).

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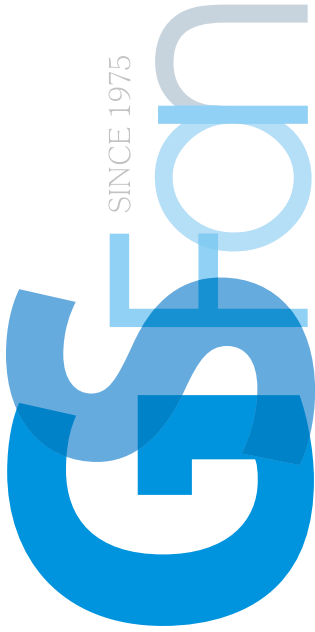
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