

GSFOLD

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 외길을 걸어온 장수 기업입니다.
서울 청계천 궁구상가에서 1평 남짓 한 점포에서 "동일공사"라는 상호로 출발하여
지금의 남동공단에 2014년 말 기준 임직원 100여명, 매출 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 외길을 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

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-BK-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

AMCA 란?

AMCA (Air Movement and Control Association) International의 약자로 송풍기, 댐퍼, 루버, 에어커튼, 공기유량 측정 장치, 덕트, 소음기 등의 공기이송, 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 GAP-S series



PLENUM FAN은 하우징이 없어 소형의 컴팩트한 사이즈를 자랑합니다. 또한 모터 직결식으로 벨트교체 및 유지보수 비용이 저렴하고 벨트손실에 대한 전력비 절감이 가능합니다. 일반 건축물, 빌딩등의 공조시스템에 적합합니다. Backward 타입의 블레이드와 Airfoil 타입의 플레넘 팬의 제작 공급이 가능합니다.

This blower is a small, compact size do not have the housing. In addition, direct expression in motor belt replacement and maintenance cost is low and it is possible to reduce power ratio for the belt losses. General buildings, is suitable for the air conditioning system, such as a building. Can be manufactured by supplying the plenum fan Backward type and Airfoil type.



GAP MODEL IMPELLER
(AIR FOIL)



PLENUM FAN



GUMSUNG POONGRYUK Co.,Ltd. certifies that the GAP-S Plenum 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.



GAP-4.25S from GAP-8S for the entire model to have obtained the AMCA Seal certified performance and sound.

GAP-4.25S - GAP-5.75S base data is GAP-4.25S
GAP-6S - GAP-8S base data is GAP-6S

1. Wheels

The impeller from GBP-2S ~ GBP-4 by a backward type is used.
GAP-4.25S ~ GAP-8S Airfoil type of impeller is to be used.

2. HUB

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

3. 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.

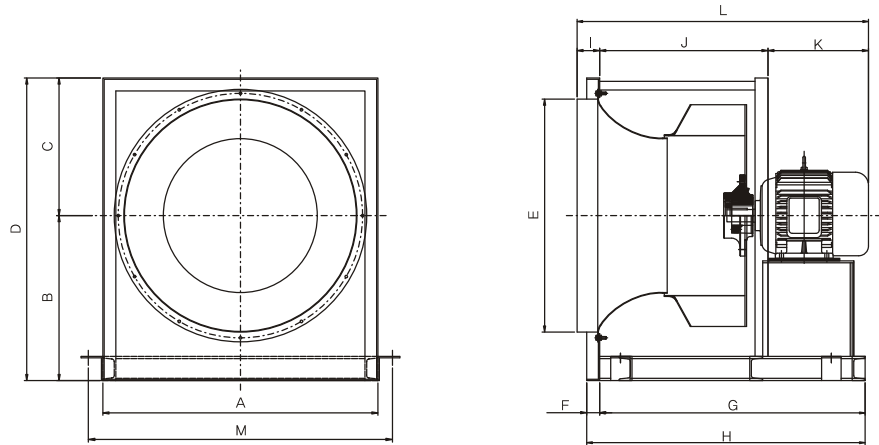
4. Protection guards

Options screen guards are installed to prevent contact with the rotor of the human body.

GAP-S series

PLENUM FAN
www.gsfan.co.kr

표준외형도 Standard shape of PLENUM FAN(GBP-S & GAP-S SERIES)



GAP MODEL : Air Foil Type Impeller (익형)

	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	MOTOR		FAN WEIGHT kg
GAP	#4.25	820	510	410	920	680	40	920	960	70	490	430	990	940	15HP-4P	5HP-6P	235
	#4.5	850	540	425	965	720	40	960	1000	70	520	470	1060	970	20HP-4P	5HP-6P	287
	#4.75	900	570	450	1020	760	40	1030	1070	70	555	460	1085	1020	20HP-4P	7.5HP-6P	312
	#5	950	600	475	1075	800	40	1040	1080	70	575	500	1145	1070	25HP-4P	7.5HP-6P	343
	#5.25	1000	630	500	1130	835	40	1100	1140	70	600	520	1190	1120	30HP-4P	10HP-6P	370
	#5.5	1050	660	525	1185	870	40	1180	1220	100	650	525	1275	1170	40HP-4P	15HP-6P	396
	#5.75	1100	690	550	1240	910	40	1110	1150	100	670	480	1250	1220	50HP-4P	20HP-6P	420
	#6	1150	720	575	1295	950	40	1210	1250	100	700	525	1325	1286	60HP-4P	25HP-6P	451
	#6.5	1200	750	600	1350	1025	40	1260	1300	100	770	495	1365	1336	100HP-4P	30HP-6P	540
	#7	1300	780	650	1430	1120	40	1380	1420	100	800	580	1480	1436	120HP-4P	40HP-6P	629
#8	1600	810	800	1610	1280	-	-	1500	150	1000	485	1635	1736	75HP-6P	40HP-8P	1331	

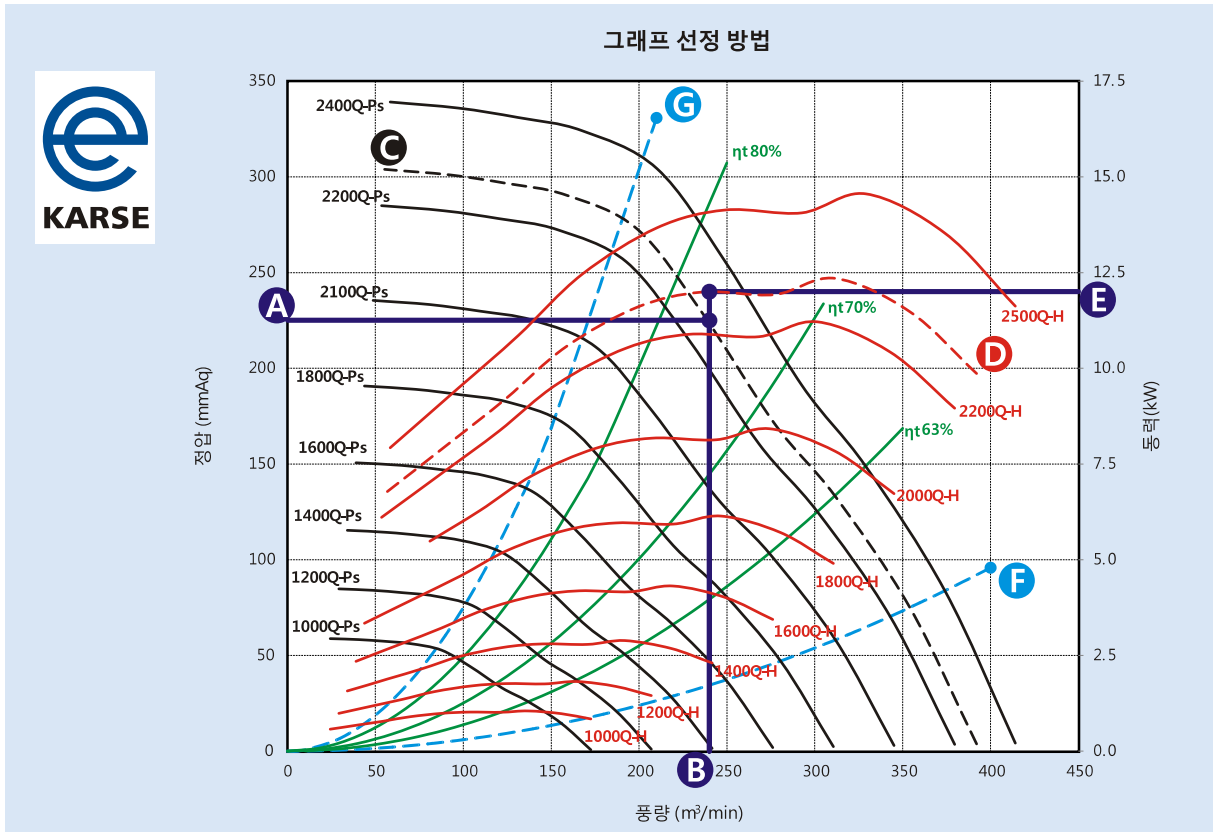
※상기 FAN 중량은 모터가 제외된 중량입니다.

※Motor weight was not included in the weight of the fan,

※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



☞ 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)와 사용 권장 하한선(F)을 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)을 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.

GAP-S series

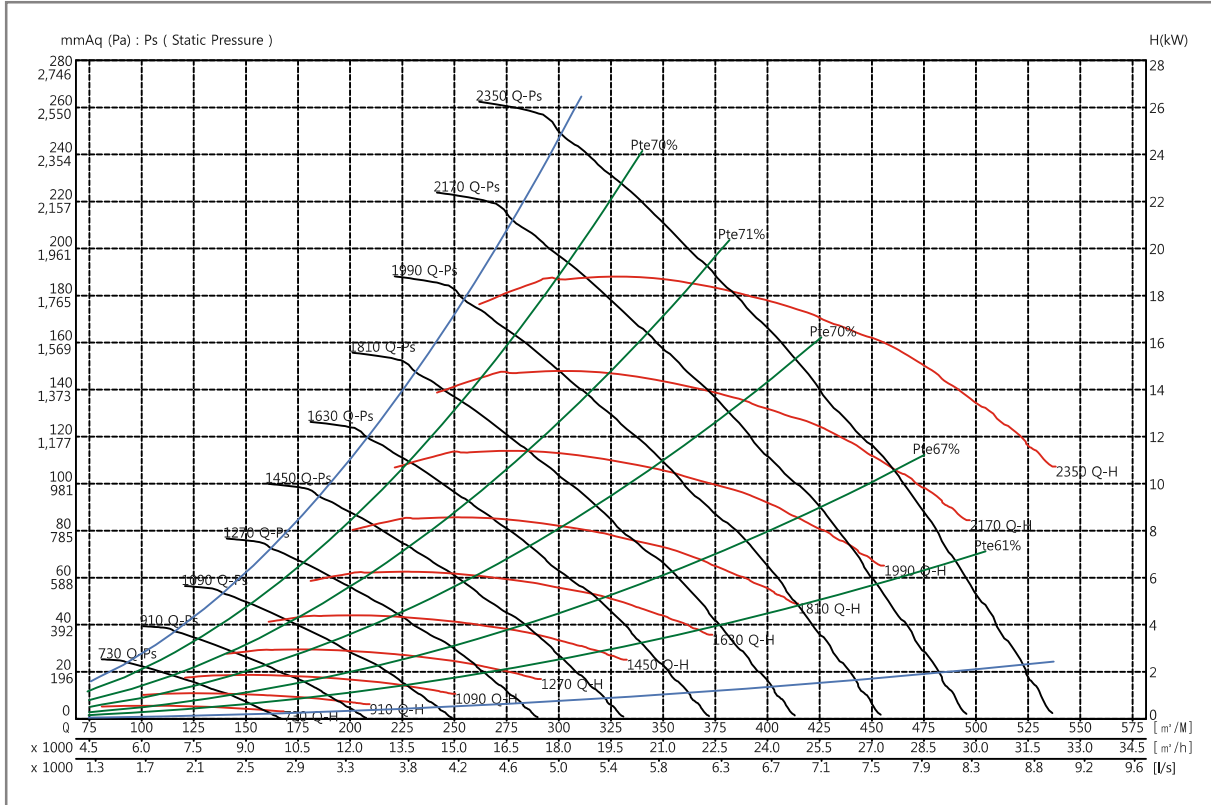
PLENUM FAN
Airfoil Standard
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GAP-4.25S

FEG 75

Wheel dia	648 mm	Tip Speed = 0.03393 * rpm	Outlet Dim'	157 * 2036	Outlet Area	0.3197 m ²	Class 1	1768 rpm	Class 2	2358 rpm	Not Applicable
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Air flow (m ³ /min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				40 mmAq (392Pa)				60 mmAq (588Pa)				80 mmAq (785 Pa)				100 mmAq (981 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
150	7.82	855	0.835	69.8	79	1017	1.514	70.4	83	1160	2.241	69.3	85									
175	9.12	938	1.053	68.2	82	1092	1.826	70.5	84	1224	2.643	70.3	87	1344	3.488	69.4	89					
200	10.43	1023	1.297	66.9	84	1167	2.162	70.4	87	1295	3.087	70.4	89	1405	4.005	70.2	91	1512	4.976	69.7	92	
225	11.73	1115	1.609	64.7	87	1250	2.569	69.0	89	1368	3.553	70.6	90	1476	4.594	70.4	92	1575	5.645	70.3	94	
250	13.04	1214	1.989	62.2	89	1335	3.017	68.0	91	1445	4.084	70.3	92	1549	5.207	70.6	93	1647	6.390	70.4	95	
275	14.34	1316	2.441	59.9	92	1418	3.501	67.4	93	1528	4.699	69.2	94	1623	5.864	70.5	95	1718	7.138	70.5	96	
300	15.64	1414	2.954	58.0	94	1511	4.092	65.8	94	1615	5.383	68.2	96	1704	6.634	69.9	97	1796	7.982	70.5	98	
325	16.95	1516	3.536	56.2	96	1603	4.738	64.3	96	1694	6.053	67.7	97	1793	7.533	68.7	99	1871	8.858	70.3	99	
350	18.25	1619	4.211	54.4	97	1703	5.496	62.2	98	1784	6.874	66.8	99	1873	8.384	68.2	100	1955	9.882	69.3	101	
375	19.55	1723	5.003	53.4	99	1801	6.358	60.9	100	1875	7.766	65.5	100	1955	9.311	67.7	101	2043	11.03	68.4	102	
400	20.86	1826	5.837	52.1	101	1901	7.317	59.4	101	1971	8.789	64.2	102	2041	10.36	67.0	102	2125	12.15	67.9	103	
425	22.16	1929	6.792	51.2	102	2003	8.365	57.8	103	2071	9.952	62.7	103	2137	11.58	65.8	103	2206	13.31	67.6	104	

Air flow (m ³ /min)	Outlet Vel (m/sec)	120 mmAq (1177 Pa)				140 mmAq (1373Pa)				160 mmAq (1569Pa)				180 mmAq (1765 Pa)				200 mmAq (1961 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
150	7.82																					
175	9.12																					
200	10.43																					
225	11.73	1672	6.750	69.7	95	1761	7.843	69.1	96													
250	13.04	1735	7.540	70.3	96	1822	8.747	69.8	97	1906	9.976	69.6	98									
275	14.34	1807	8.435	70.4	97	1886	9.690	70.3	98	1967	11.01	70.1	99	2045	12.37	69.7	100	2120	13.73	69.3	101	
300	15.64	1879	9.348	70.5	98	1960	10.76	70.4	99	2034	12.14	70.4	100	2107	13.54	70.2	101	2182	15.04	69.9	102	
325	16.95	1954	10.33	70.5	100	2031	11.82	70.5	100	2105	13.32	70.4	101	2177	14.85	70.4	102	2243	16.33	70.3	103	
350	18.25	2028	11.34	70.4	101	2105	12.94	70.5	102	2178	14.55	70.5	102	2249	16.21	70.5	103	2316	17.84	70.4	104	
375	19.55	2111	12.55	69.7	102	2182	14.16	70.4	103	2254	15.87	70.5	103	2322	17.60	70.6	104					
400	20.86	2198	13.89	68.7	104	2262	15.52	69.8	104	2329	17.24	70.5	105									
425	22.16	2283	15.22	68.2	105	2350	17.05	68.9	105													

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 - Performance certified is for AMCA 210 Fig-15 & Installation type A(Free Inlet, Free Outlet). Performance ratings do not include the effects of appurtenances(Accessories).

GAP-S series

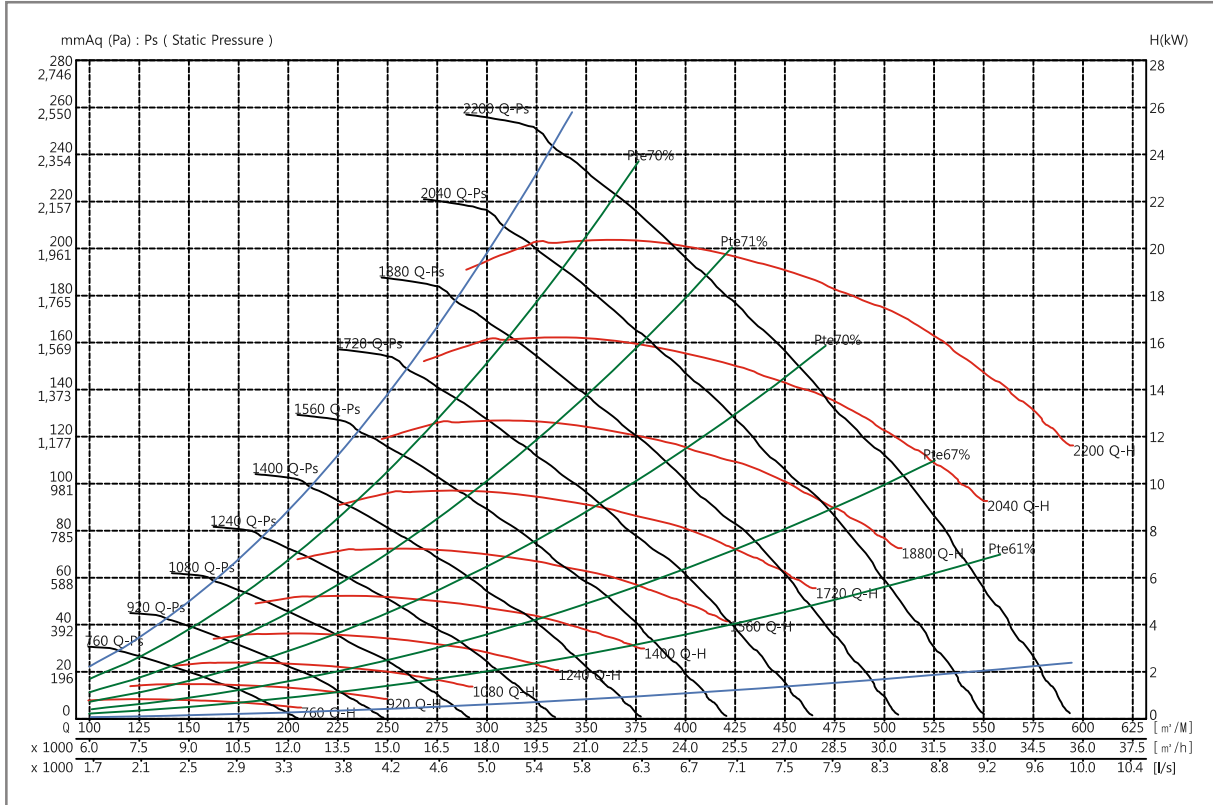
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GAP-4.5S

FEG 75

Wheel dia	685 mm	Tip Speed = 0.03587 * rpm	Outlet Dim'	166 * 2152	Outlet Area	0.3572 m ²	Class 1	1673 rpm	Class 2	2230 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				40 mmAq (392Pa)				60 mmAq 588Pa)				80 mmAq (785 Pa)				100 mmAq (981 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
175	8.16	829	0.995	69.3	80	980	1.780	70.4	84	1112	2.616	69.7	86									
200	9.33	900	1.216	67.9	83	1044	2.096	70.6	85	1166	3.017	70.3	88	1279	3.981	69.7	90					
225	10.50	973	1.471	66.8	85	1107	2.431	70.4	87	1228	3.472	70.5	89	1334	4.523	70.3	91	1433	5.595	69.7	93	
250	11.66	1052	1.782	64.7	87	1178	2.846	69.2	89	1290	3.941	70.6	90	1393	5.106	70.4	92	1487	6.264	70.2	94	
275	12.83	1133	2.152	62.7	89	1251	3.297	68.2	91	1354	4.454	70.4	92	1455	5.716	70.5	93	1546	6.994	70.4	95	
300	14.00	1220	2.590	60.5	91	1320	3.760	67.6	92	1424	5.060	69.5	94	1519	6.382	70.5	95	1607	7.744	70.6	96	
325	15.16	1305	3.093	58.7	93	1396	4.307	66.4	94	1498	5.737	68.4	95	1584	7.086	70.3	97	1670	8.544	70.6	97	
350	16.33	1391	3.655	56.9	95	1476	4.952	65.0	96	1568	6.415	67.8	97	1656	7.924	69.3	98	1734	9.402	70.5	99	
375	17.50	1475	4.256	55.5	97	1555	5.645	63.7	97	1637	7.130	67.5	98	1729	8.823	68.4	99	1803	10.37	69.9	100	
400	18.66	1562	4.969	54.1	98	1642	6.480	62.0	99	1713	7.968	66.4	99	1800	9.740	67.9	100	1876	11.47	69.0	101	
425	19.83	1653	5.796	52.9	100	1726	7.343	60.5	100	1795	8.945	65.2	101	1867	10.64	67.6	101	1947	12.56	68.3	102	
450	20.99	1738	6.652	52.1	101	1808	8.283	59.2	101	1873	9.943	64.0	102	1942	11.74	66.9	102	2019	13.72	67.9	103	

Air flow (m³/min)	Outlet Vel (m/sec)	120 mmAq (1177 Pa)				140 mmAq (1373Pa)				160 mmAq (1569Pa)				180 mmAq (1765 Pa)				200 mmAq (1961 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
175	8.16																					
200	9.33																					
225	10.50																					
250	11.66	1578	7.493	69.7	95																	
275	12.83	1630	8.264	70.3	96	1715	9.631	69.7	98	1794	10.97	69.3	98									
300	14.00	1691	9.155	70.4	97	1769	10.56	70.3	99	1846	12.01	69.9	99	1918	13.46	69.7	100	1984	14.84	69.1	101	
325	15.16	1751	10.05	70.6	98	1827	11.56	70.4	99	1900	13.09	70.3	100	1972	14.66	70.0	101	2040	16.21	69.7	102	
350	16.33	1812	10.97	70.7	99	1888	12.62	70.6	100	1960	14.25	70.4	101	2028	15.90	70.3	102	2094	17.55	70.2	103	
375	17.50	1877	11.99	70.5	101	1950	13.71	70.6	101	2019	15.43	70.6	102	2088	17.24	70.4	103	2152	18.98	70.4	104	
400	18.66	1945	13.12	70.2	102	2014	14.88	70.5	102	2083	16.72	70.6	103	2147	18.54	70.6	103					
425	19.83	2015	14.35	69.5	103	2080	16.13	70.4	104	2148	18.08	70.5	104									
450	20.99	2089	15.70	68.6	104	2148	17.51	69.8	105													

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 - Performance certified is for AMCA 210 Fig-15 & Installation type A(Free Inlet, Free Outlet). Performance ratings do not include the effects of appurtenances(Accessories).

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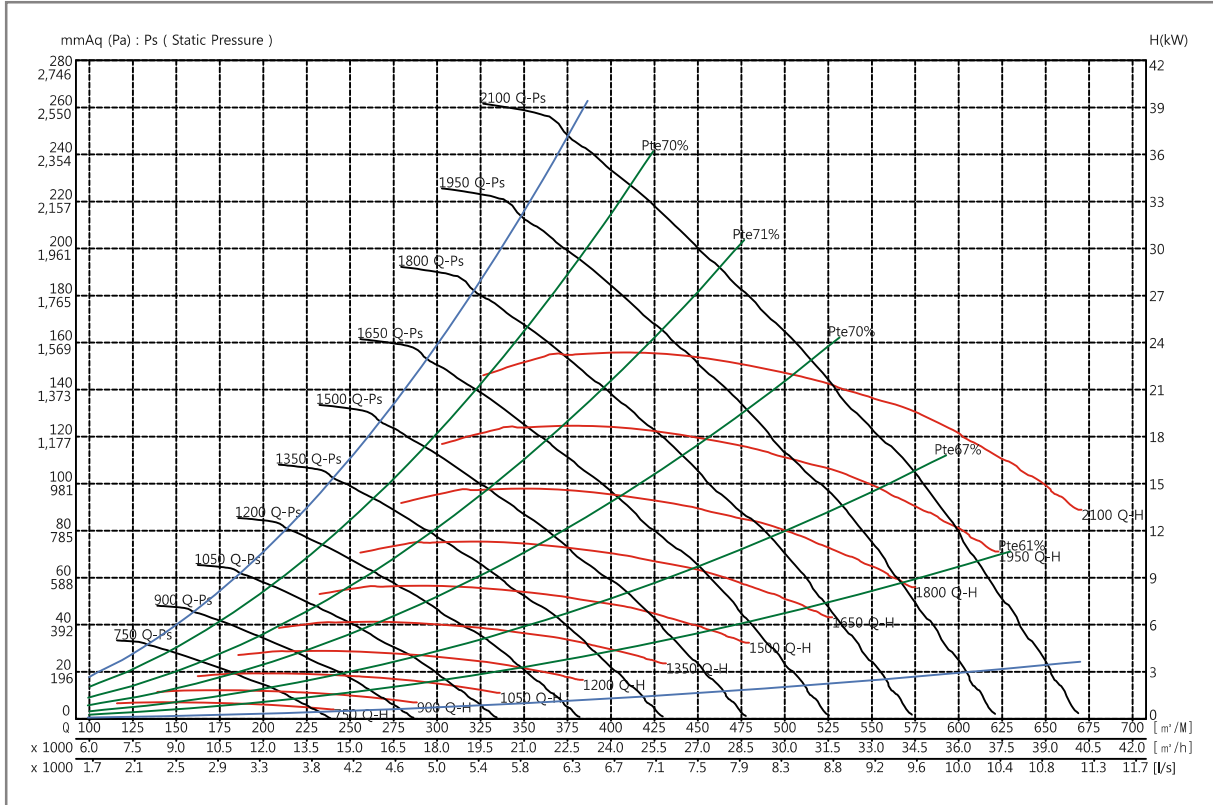
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GAP-4.75S

FEG 75

Wheel dia	724 mm	Tip Speed = 0.03791 * rpm	Outlet Dim'	176 * 2275	Outlet Area	0.4004 m ²	Class 1	1583 rpm	Class 2	2110 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				40 mmAq (392Pa)				60 mmAq (588Pa)				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
200	8.33	795	1.150	68.9	81	938	2.049	70.4	84	1061	3.001	69.7	87								
225	9.37	855	1.372	67.9	83	989	2.352	70.7	85	1108	3.408	70.3	88	1213	4.481	69.7	90				
250	10.41	916	1.624	66.9	85	1045	2.698	70.4	87	1160	3.862	70.4	89	1259	5.019	70.3	91	1353	6.213	69.7	93
275	11.45	983	1.938	65.2	87	1104	3.099	69.4	89	1210	4.311	70.6	90	1310	5.600	70.4	93	1399	6.893	70.2	94
300	12.49	1053	2.293	63.1	89	1167	3.553	68.3	91	1266	4.829	70.5	92	1361	6.206	70.6	93	1448	7.593	70.4	95
325	13.53	1123	2.701	61.3	91	1226	4.012	67.8	92	1324	5.406	69.8	94	1415	6.849	70.6	94	1500	8.356	70.5	96
350	14.57	1197	3.175	59.4	93	1285	4.503	67.1	93	1386	6.060	68.8	95	1469	7.533	70.5	96	1553	9.136	70.6	97
375	15.61	1268	3.692	57.8	94	1354	5.120	65.8	95	1446	6.722	68.2	96	1527	8.301	69.9	97	1607	9.971	70.5	98
400	16.65	1341	4.286	56.5	96	1420	5.761	64.6	96	1506	7.424	67.8	97	1590	9.176	68.9	99	1661	10.83	70.4	99
425	17.69	1413	4.920	55.1	97	1490	6.500	63.1	98	1564	8.157	67.3	99	1650	10.06	68.3	100	1720	11.84	69.7	101
450	18.73	1488	5.665	54.1	99	1563	7.337	61.7	99	1630	9.030	66.3	100	1710	10.99	67.9	101	1783	12.94	68.9	102
475	19.77	1564	6.481	52.9	100	1633	8.202	60.5	100	1698	9.992	65.2	101	1767	11.90	67.6	102	1843	14.04	68.3	103

Air flow (m³/min)	Outlet Vel (m/sec)	120 mmAq (1177 Pa)				140 mmAq (1373Pa)				160 mmAq (1569Pa)				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	
200	8.33																					
225	9.37																					
250	10.41																					
275	11.45	1485	8.221	69.7	95																	
300	12.49	1531	9.028	70.1	96	1609	10.47	69.7	97	1682	11.92	69.1	98									
325	13.53	1579	9.870	70.4	97	1653	11.38	70.1	98	1728	13.00	69.7	99	1798	14.58	69.3	100					
350	14.57	1631	10.78	70.4	98	1703	12.40	70.4	99	1773	14.04	70.2	100	1843	15.78	69.7	101	1907	17.43	69.6	101	
375	15.61	1683	11.70	70.5	99	1755	13.45	70.4	100	1821	15.15	70.4	101	1886	16.91	70.2	102	1953	18.78	69.9	102	
400	16.65	1735	12.64	70.6	100	1805	14.48	70.6	101	1872	16.35	70.4	102	1936	18.22	70.4	103	1997	20.09	70.3	103	
425	17.69	1790	13.65	70.5	101	1859	15.61	70.7	102	1924	17.55	70.6	102	1988	19.57	70.4	103	2046	21.51	70.4	104	
450	18.73	1846	14.78	70.2	102	1914	16.80	70.5	103	1976	18.80	70.6	103	2038	20.89	70.6	104	2098	23.03	70.4	105	
475	19.77	1907	16.04	69.5	103	1968	18.03	70.4	104	2033	20.22	70.5	104	2091	22.33	70.6	105					

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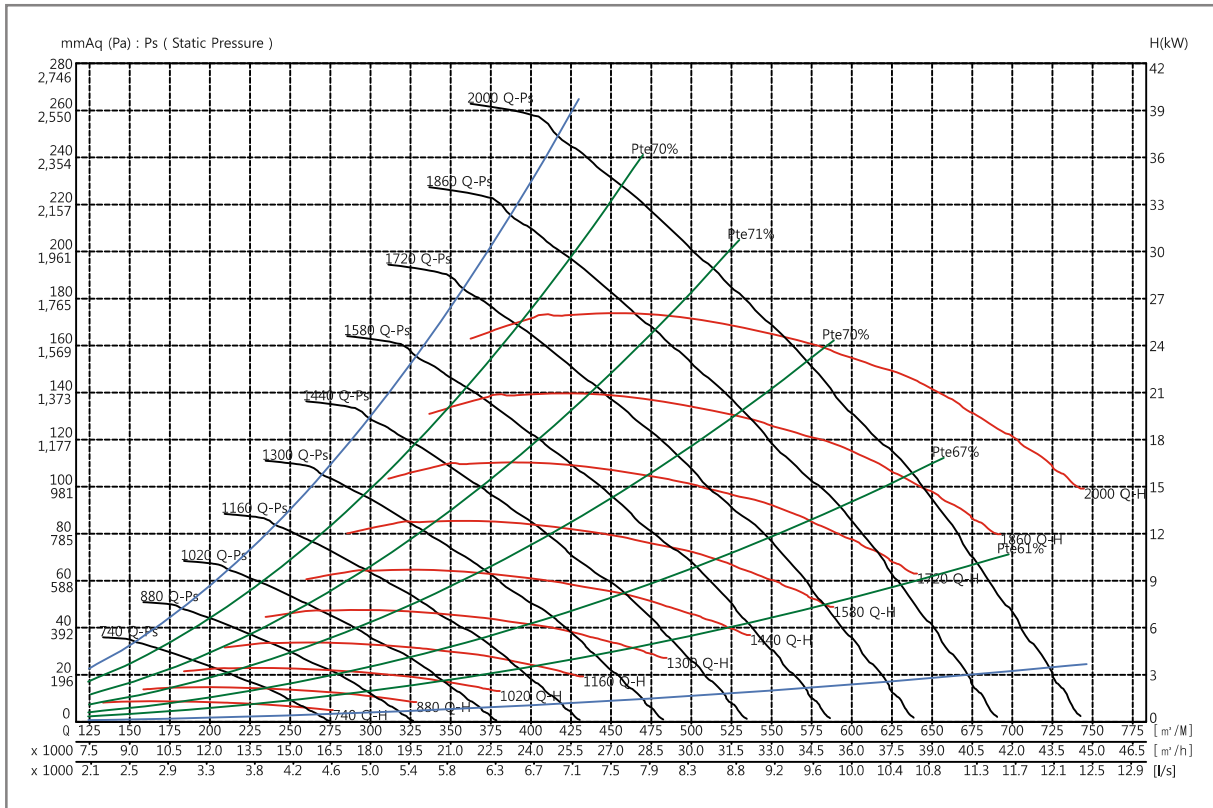
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GAP-5S

FEG 75

Wheel dia	762 mm	Tip Speed = 0.0399	* rpm	Outlet Dim'	185 * 2394	Outlet Area	0.4429 m ²	Class 1	1504 rpm	Class 2	2005 rpm	Not Applicable
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Air flow (m ³ /min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				40 mmAq (392Pa)				60 mmAq 588Pa)				80 mmAq (785 Pa)				100 mmAq (981 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
225	8.47	763	1.301	68.7	81	897	2.307	70.4	85	1014	3.386	69.8	87									
250	9.41	814	1.528	67.8	83	942	2.618	70.7	86	1054	3.787	70.3	89	1154	4.985	69.7	90					
275	10.35	865	1.775	67.1	85	988	2.958	70.5	87	1098	4.237	70.4	89	1193	5.516	70.2	92	1284	6.853	69.7	93	
300	11.29	923	2.086	65.5	87	1039	3.356	69.6	89	1143	4.698	70.6	90	1236	6.098	70.4	93	1322	7.507	70.0	94	
325	12.23	981	2.418	63.8	88	1094	3.810	68.4	90	1189	5.191	70.5	92	1279	6.685	70.5	93	1363	8.200	70.3	95	
350	13.17	1044	2.823	61.7	90	1144	4.257	67.9	92	1236	5.729	70.2	93	1325	7.310	70.6	94	1408	8.959	70.4	96	
375	14.11	1105	3.270	60.3	92	1194	4.726	67.5	93	1289	6.374	69.3	95	1372	7.981	70.5	96	1452	9.709	70.6	96	
400	15.05	1168	3.776	58.7	94	1248	5.270	66.6	94	1342	7.035	68.4	96	1419	8.697	70.3	97	1497	10.50	70.6	97	
425	15.99	1229	4.318	57.3	95	1307	5.901	65.4	96	1393	7.705	68.0	97	1469	9.500	69.6	98	1543	11.34	70.5	99	
450	16.93	1290	4.907	56.2	96	1365	6.573	64.3	97	1443	8.396	67.7	98	1525	10.42	68.7	99	1591	12.25	70.3	100	
475	17.88	1352	5.561	55.1	98	1426	7.322	62.9	98	1496	9.169	67.1	99	1575	11.27	68.3	100	1643	13.28	69.6	101	
500	18.82	1418	6.329	54.1	99	1488	8.179	61.7	100	1553	10.07	66.2	100	1627	12.22	67.8	101	1698	14.42	68.8	102	

Air flow (m ³ /min)	Outlet Vel (m/sec)	120 mmAq (1177 Pa)				140 mmAq (1373Pa)				160 mmAq (1569Pa)				180 mmAq (1765 Pa)				200 mmAq (1961 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
225	8.47																					
250	9.41																					
275	10.35																					
300	11.29	1403	8.952	69.6	95																	
325	12.23	1442	9.754	70.0	96	1517	11.31	69.6	97													
350	13.17	1483	10.58	70.3	97	1556	12.26	69.9	98	1626	13.95	69.7	99									
375	14.11	1525	11.44	70.4	98	1596	13.20	70.3	99	1665	15.03	70.0	100	1730	16.81	69.7	101	1794	18.69	69.2	102	
400	15.05	1570	12.35	70.6	99	1639	14.21	70.4	100	1704	16.08	70.3	101	1770	18.04	70.0	102	1831	19.97	69.7	102	
425	15.99	1616	13.31	70.6	99	1684	15.28	70.4	100	1748	17.26	70.4	102	1809	19.25	70.3	102	1869	21.26	70.0	103	
450	16.93	1662	14.29	70.5	101	1728	16.35	70.5	101	1793	18.49	70.4	102	1851	20.54	70.4	103	1909	22.65	70.3	104	
475	17.88	1708	15.30	70.5	102	1774	17.47	70.6	102	1836	19.66	70.6	103	1896	21.92	70.4	104	1952	24.08	70.4	104	
500	18.82	1758	16.48	70.1	103	1821	18.67	70.5	103	1881	20.92	70.7	103	1940	23.25	70.6	104	1997	25.62	70.4	105	

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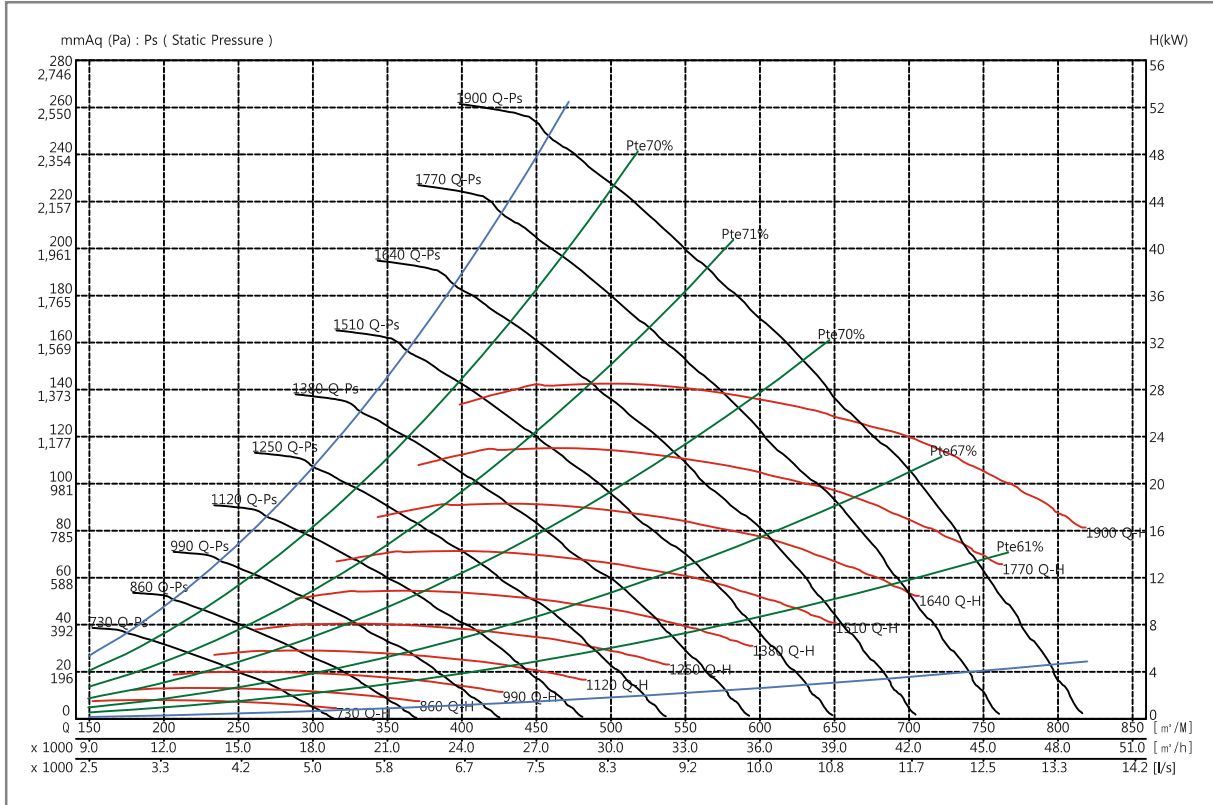
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GAP-5.25S

FEG 75

Wheel dia	800 mm	Tip Speed = 0.04189 * rpm	Outlet Dim'	194 * 5213	Outlet Area	0.4875 m ²	Class 1	1432 rpm	Class 2	1910 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				40 mmAq (392Pa)				60 mmAq (588Pa)				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	
200	6.84					785	2.000	69.7	82													
250	8.55	730	1.454	68.6	82	858	2.577	70.5	85	968	3.753	69.9	88									
300	10.26	820	1.928	67.2	85	936	3.212	70.5	87	1041	4.606	70.4	90	1133	6.019	70.2	92	1218	7.467	69.5	93	
350	11.97	918	2.552	64.3	88	1027	4.058	68.7	90	1119	5.553	70.5	92	1208	7.192	70.4	93	1287	8.818	70.3	95	
400	13.67	1025	3.365	61.0	91	1114	4.952	67.8	93	1203	6.676	69.8	94	1285	8.445	70.6	95	1362	10.29	70.5	96	
450	15.38	1131	4.347	58.3	94	1209	6.051	66.2	95	1295	7.998	68.3	96	1367	9.872	70.1	97	1441	11.89	70.5	98	
500	17.09	1236	5.507	56.2	97	1309	7.375	64.0	97	1381	9.375	67.7	98	1459	11.61	68.6	99	1524	13.70	70.2	100	
550	18.80	1348	6.933	54.1	99	1415	8.959	61.7	100	1477	11.06	66.3	100	1548	13.42	67.9	101	1615	15.83	68.9	102	
600	20.51	1458	8.584	52.4	101	1520	10.77	59.7	102	1577	12.99	64.4	102	1636	15.36	67.2	103	1703	18.03	68.1	104	
650	22.22	1567	10.45	51.2	103	1629	12.90	57.8	104	1681	15.26	62.7	104	1733	17.73	65.8	104	1790	20.39	67.6	105	
700	23.93	1678	12.60	49.9	105	1733	15.20	56.3	105	1787	17.82	60.9	106	1835	20.41	64.3	106	1885	23.13	66.5	107	
750	25.64	1792	15.13	48.8	107	1843	17.92	54.8	107	1894	20.69	59.2	107									

Air flow (m³/min)	Outlet Vel (m/sec)	120 mmAq (1177 Pa)				140 mmAq (1373Pa)				160 mmAq (1569Pa)				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	
200	6.84																					
250	8.55																					
300	10.26																					
350	11.97	1364	10.51	69.8	96	1437	12.24	69.3	97													
400	13.67	1434	12.16	70.4	98	1501	14.02	70.2	99	1569	16.01	69.7	100	1632	17.96	69.4	101					
450	15.38	1509	13.94	70.6	99	1575	16.06	70.4	100	1637	18.18	70.3	101	1697	20.29	70.1	102	1756	22.50	69.7	103	
500	17.09	1590	15.92	70.5	101	1653	18.22	70.5	101	1713	20.56	70.4	102	1770	22.87	70.4	103	1825	25.20	70.3	104	
550	18.80	1672	18.09	70.1	103	1732	20.51	70.5	103	1790	23.00	70.7	104	1845	25.53	70.6	104	1900	28.12	70.4	105	
600	20.51	1764	20.67	68.9	104	1816	23.11	70.0	105	1870	25.72	70.5	105									
650	22.22	1852	23.31	68.2	106																	
700	23.93																					
750	25.64																					

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 - Performance certified is for AMCA 210 Fig-15 & Installation type A(Free Inlet, Free Outlet). Performance ratings do not include the effects of appurtenances(Accessories).

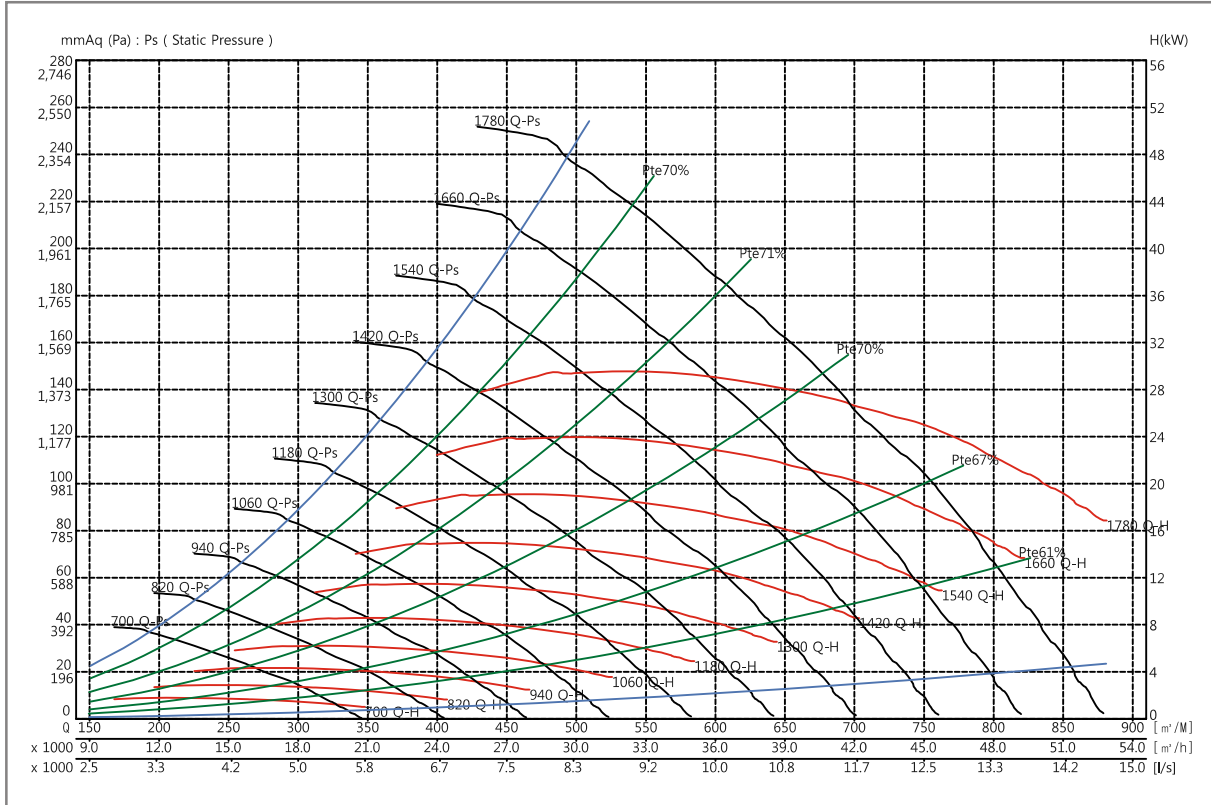
GAP-S series

PLENUM FAN
Airfoil Standard
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GAP-5.5S FEG 70

Wheel dia	838 mm	Tip Speed = 0.04388 * rpm	Outlet Dim'	203 * 2633	Outlet Area	0.5345 m ²	Class 1	1367 rpm	Class 2	1823 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				40 mmAq (392Pa)				60 mmAq (588Pa)				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	
250	7.80					786	2.530	70.4	84	897	3.747	69.3	87									
300	9.35	737	1.828	67.9	83	853	3.135	70.6	86	955	4.536	70.3	89	1047	5.983	69.7	91					
350	10.91	818	2.359	66.1	86	926	3.853	70.0	89	1021	5.430	70.6	90	1107	7.065	70.3	93	1188	8.771	69.8	94	
400	12.47	906	3.043	63.3	89	1005	4.724	68.3	91	1091	6.424	70.5	93	1173	8.263	70.6	94	1248	10.12	70.4	96	
450	14.03	998	3.885	60.5	92	1081	5.648	67.6	93	1166	7.597	69.5	95	1243	9.568	70.5	96	1315	11.63	70.6	97	
500	15.59	1091	4.897	58.0	95	1164	6.785	65.9	95	1245	8.941	68.3	97	1316	11.05	69.9	98	1386	13.28	70.5	99	
550	17.15	1183	6.071	56.0	97	1251	8.110	64.0	98	1321	10.34	67.6	99	1396	12.81	68.6	100	1456	15.06	70.2	101	
600	18.71	1280	7.496	54.1	99	1345	9.719	61.8	100	1404	11.99	66.3	100	1472	14.59	67.9	101	1536	17.21	68.9	102	
650	20.27	1376	9.120	52.6	101	1435	11.50	60.1	102	1491	13.94	64.7	102	1548	16.50	67.4	103	1613	19.40	68.2	104	
700	21.83	1471	10.92	51.3	103	1528	13.53	58.3	103	1580	16.09	63.1	104	1633	18.83	66.2	104	1689	21.73	67.8	105	
750	23.39	1566	12.98	50.2	105	1622	15.83	56.8	105	1673	18.60	61.4	105	1720	21.37	64.7	106	1768	24.32	67.0	106	
800	24.95	1664	15.37	49.2	106	1714	18.32	55.5	106	1765	21.33	59.9	107									

Air flow (m³/min)	Outlet Vel (m/sec)	120 mmAq (1177 Pa)				140 mmAq (1373Pa)				160 mmAq (1569Pa)				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		
250	7.80																						
300	9.35																						
350	10.91	1263	10.48	69.2	95																		
400	12.47	1320	12.03	70.1	97	1388	13.96	69.7	98														
450	14.03	1383	13.73	70.4	98	1446	15.81	70.3	99	1510	18.03	69.9	100	1568	20.14	69.7	101	1625	22.35	69.1	102		
500	15.59	1451	15.57	70.6	99	1513	17.92	70.4	101	1570	20.20	70.4	102	1627	22.55	70.2	102	1684	25.02	69.8	103		
550	17.15	1520	17.54	70.5	101	1580	20.05	70.5	102	1637	22.60	70.4	103	1691	25.15	70.4	103	1743	27.72	70.3	104		
600	18.71	1591	19.67	70.2	103	1649	22.37	70.5	103	1703	25.05	70.6	104	1757	27.83	70.6	104						
650	20.27	1669	22.19	69.2	104	1721	24.92	70.2	105	1774	27.77	70.5	105										
700	21.83	1748	24.87	68.3	106																		
750	23.39																						
800	24.95																						

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 - Performance certified is for AMCA 210 Fig-15 & Installation type A(Free Inlet, Free Outlet). Performance ratings do not include the effects of appurtenances(Accessories).

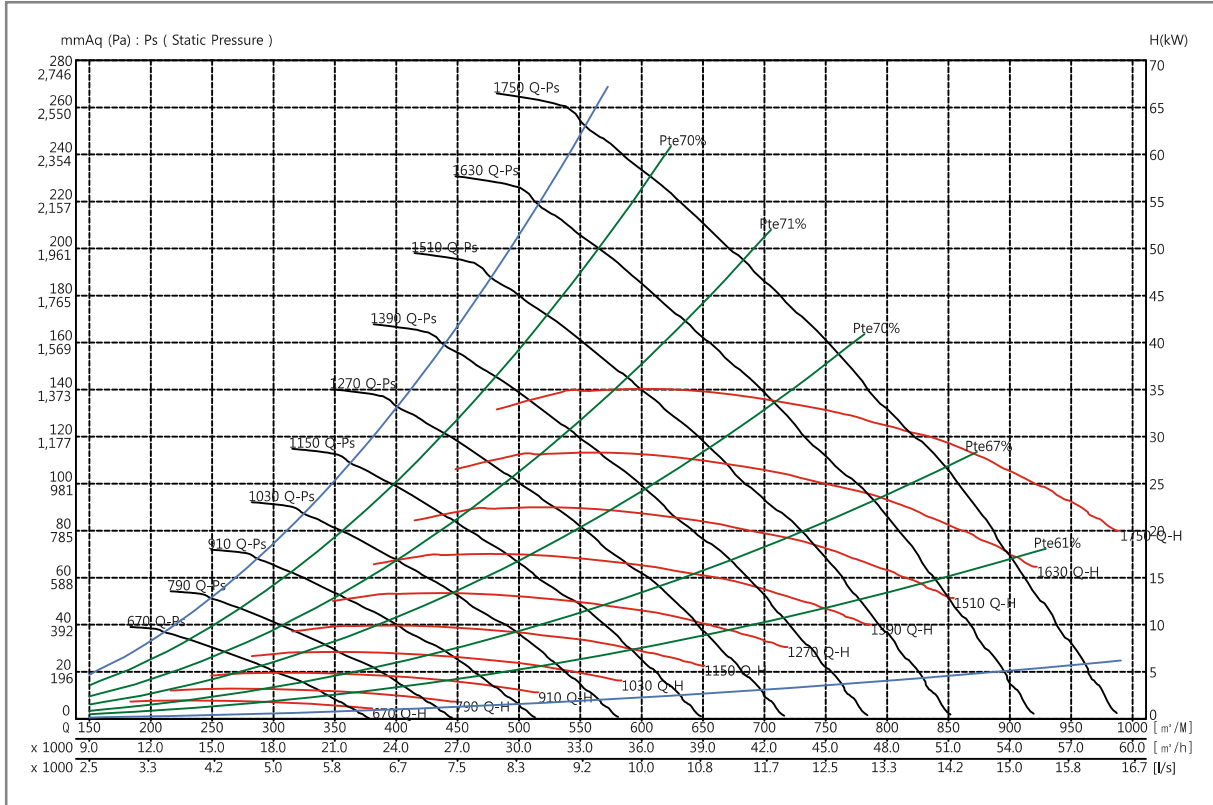
GAP-S series

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GAP-5.75S FEG 70

Wheel dia	876 mm	Tip Speed = 0.4587 * rpm	Outlet Dim'	212 * 2752	Outlet Area	0.5834 m ²	Class 1	1308 rpm	Class 2	1744 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				40 mmAq (392Pa)				60 mmAq (588Pa)				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
300	8.57	670	1.770	68.7	82	784	3.089	70.5	85	884	4.500	69.9	88								
350	10.00	734	2.208	67.5	85	843	3.724	70.5	87	938	5.343	70.4	90	1024	7.007	70.0	92	1104	8.731	69.2	93
400	11.43	809	2.800	65.2	87	909	4.495	69.5	90	998	6.268	70.6	91	1079	8.139	70.4	93	1153	10.01	70.1	95
450	12.86	887	3.531	62.7	90	978	5.389	68.2	92	1060	7.299	70.4	93	1138	9.367	70.5	94	1209	11.44	70.4	96
500	14.28	968	4.403	60.1	93	1044	6.328	67.5	94	1127	8.527	69.2	95	1198	10.66	70.5	96	1268	12.97	70.6	97
550	15.71	1050	5.441	57.8	95	1119	7.496	65.8	96	1195	9.858	68.2	97	1263	12.19	69.9	98	1329	14.62	70.5	99
600	17.14	1130	6.621	56.2	97	1196	8.844	64.0	98	1262	11.25	67.7	99	1334	13.96	68.6	100	1392	16.43	70.2	101
650	18.57	1214	8.023	54.4	99	1277	10.42	62.0	100	1335	12.91	66.5	100	1401	15.75	68.0	101	1460	18.53	69.1	102
700	20.00	1299	9.613	52.8	101	1357	12.17	60.3	101	1410	14.79	65.1	102	1466	17.59	67.6	102	1529	20.75	68.3	103
750	21.43	1382	11.36	51.7	103	1437	14.15	58.7	103	1487	16.89	63.7	104	1539	19.82	66.5	104	1597	23.08	67.8	105
800	22.85	1466	13.36	50.6	104	1521	16.39	57.2	105	1569	19.32	61.9	105	1614	22.32	65.3	105	1663	25.50	67.3	106
850	24.28	1552	15.62	49.6	106	1600	18.77	56.1	106	1649	21.94	60.6	106	1691	25.05	64.0	107	1737	28.40	66.3	107

Air flow (m³/min)	Outlet Vel (m/sec)	120 mmAq (1177 Pa)				140 mmAq (1373Pa)				160 mmAq (1569Pa)				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
300	8.57																				
350	10.00																				
400	11.43	1225	11.96	69.7	96																
450	12.86	1276	13.54	70.3	98	1341	15.75	69.7	98	1403	17.96	69.3	99								
500	14.28	1333	15.32	70.4	99	1393	17.62	70.3	100	1452	20.03	70.0	101	1509	22.45	69.7	101	1565	24.93	69.2	102
550	15.71	1391	17.13	70.5	99	1451	19.70	70.4	101	1507	22.26	70.4	102	1560	24.83	70.3	102	1615	27.53	69.9	103
600	17.14	1452	19.11	70.5	101	1510	21.88	70.5	102	1566	24.69	70.4	103	1616	27.41	70.4	104	1667	30.23	70.3	104
650	18.57	1514	21.24	70.3	103	1571	24.18	70.5	103	1623	27.12	70.6	104	1674	30.13	70.6	104	1724	33.18	70.4	105
700	20.00	1582	23.69	69.4	104	1633	26.66	70.3	105	1685	29.79	70.5	105	1733	32.93	70.7	105				
750	21.43	1653	26.44	68.4	106	1700	29.51	69.5	106	1746	32.63	70.3	106								
800	22.85	1720	29.12	67.9	107																
850	24.28																				

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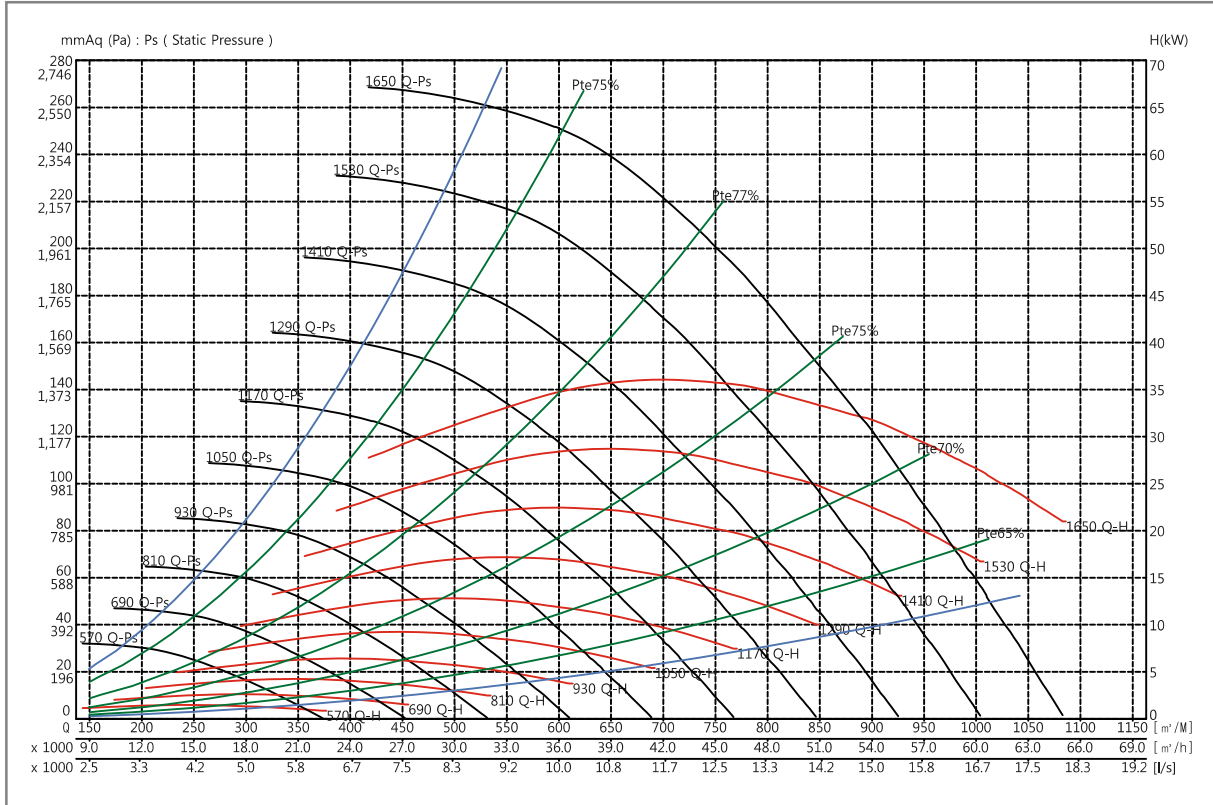
GAP-S series

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GAP-6S FEG 80

Wheel dia	914 mm	Tip Speed = 0.04786 * rpm	Outlet Dim'	220 * 2871	Outlet Area	0.6316 m ²	Class 1	1254 rpm	Class 2	1672 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				40 mmAq (392Pa)				60 mmAq 588Pa)				80 mmAq (785 Pa)				100 mmAq (981 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
300	7.92	592	1.550	75.3	80	705	2.797	76.6	82	811	4.144	75.2	85	916	5.595	73.1	88				
350	9.24	651	1.969	73.1	82	753	3.362	76.7	85	847	4.862	76.5	87	938	6.440	75.4	89	1029	8.115	73.8	91
400	10.55	715	2.483	70.5	85	809	4.028	75.9	88	894	5.678	76.8	89	975	7.402	76.4	90	1054	9.186	75.6	92
450	11.87	781	3.086	68.0	87	867	4.783	74.7	89	945	6.586	76.4	91	1020	8.457	76.8	92	1092	10.41	76.5	93
500	13.19	848	3.816	65.7	89	927	5.665	72.9	91	1001	7.599	75.7	93	1070	9.641	76.6	94	1137	11.73	76.8	95
550	14.51	917	4.654	63.4	91	990	6.679	71.1	93	1060	8.754	74.7	94	1125	10.95	76.1	96	1186	13.19	76.7	97
600	15.83	986	5.626	61.6	93	1056	7.827	69.3	95	1120	10.06	73.3	96	1182	12.37	75.4	97	1240	14.79	76.3	98
650	17.15	1058	6.761	59.7	95	1121	9.091	67.7	96	1182	11.54	71.7	98	1241	13.94	74.4	99	1297	16.51	75.7	100
700	18.47	1130	8.061	58.1	97	1190	10.56	65.9	98	1246	13.13	70.3	99	1301	15.75	73.1	100	1356	18.42	74.9	101
750	19.79	1200	9.480	56.8	98	1258	12.16	64.4	99	1313	14.92	68.9	100	1363	17.72	71.8	101	1414	20.49	73.9	102
800	21.11	1273	11.12	55.6	100	1326	13.95	62.9	101	1379	16.86	67.6	102	1427	19.83	70.5	102	1475	22.82	72.7	103
850	22.43	1345	12.92	54.4	101	1395	15.93	61.6	102	1446	19.03	66.2	103	1494	22.17	69.3	103	1537	25.31	71.5	104

Air flow (m³/min)	Outlet Vel (m/sec)	120 mmAq (1177 Pa)				140 mmAq (1373Pa)				160 mmAq (1569Pa)				180 mmAq (1765 Pa)				200 mmAq (1961 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
300	7.92																					
350	9.24																					
400	10.55	1134	11.10	74.3	94	1213	13.05	73.2	96													
450	11.87	1162	12.40	75.9	95	1233	14.52	75.0	96	1305	16.70	74.0	98	1374	18.91	73.1	99					
500	13.19	1202	13.91	76.5	96	1265	16.10	76.2	97	1329	18.41	75.5	98	1393	20.78	74.6	99	1457	23.19	73.9	100	
550	14.51	1248	15.50	76.8	97	1307	17.88	76.5	98	1365	20.28	76.3	99	1422	22.75	75.9	100	1480	25.33	75.2	101	
600	15.83	1296	17.23	76.7	99	1353	19.75	76.8	99	1408	22.36	76.6	100	1461	24.97	76.4	101	1513	27.57	76.2	102	
650	17.15	1350	19.13	76.3	100	1402	21.81	76.7	101	1454	24.54	76.8	101	1505	27.32	76.7	102	1554	30.12	76.5	103	
700	18.47	1407	21.20	75.8	102	1455	24.03	76.3	102	1503	26.88	76.7	103	1552	29.82	76.8	103	1600	32.79	76.7	104	
750	19.79	1465	23.42	75.2	103	1512	26.37	75.9	104	1557	29.40	76.3	104	1602	32.50	76.6	105	1648	35.64	76.7	105	
800	21.11	1523	25.81	74.3	104	1569	28.92	75.3	105	1614	32.11	75.9	105									
850	22.43	1584	28.49	73.3	105	1628	31.68	74.6	106													

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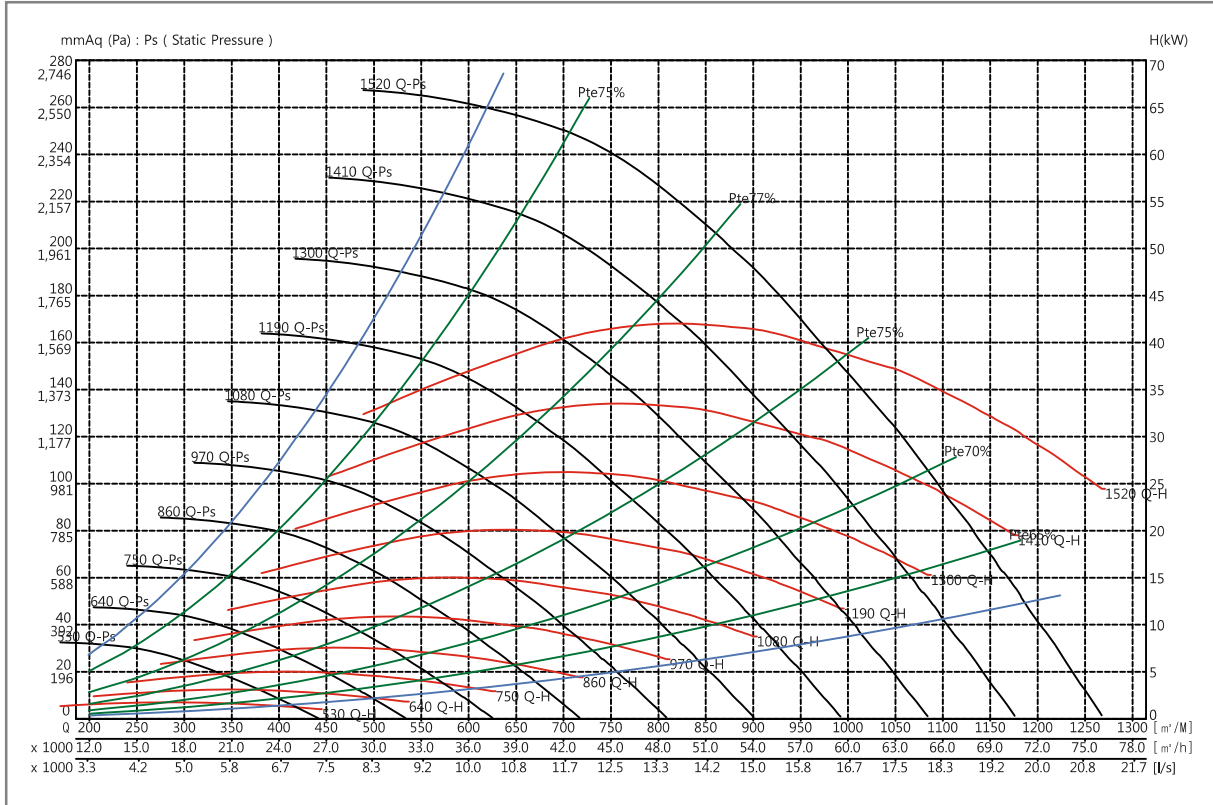
GAP-S series

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GAP-6.5S FEG 80

Wheel dia	990 mm	Tip Speed = 0.05184 * rpm	Outlet Dim'	238 * 3110	Outlet Area	0.7402 m ²	Class 1	1157 rpm	Class 2	1543 rpm	Not Applicable
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Air flow (m ³ /min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				40 mmAq (392Pa)				60 mmAq (588Pa)				80 mmAq (785 Pa)				100 mmAq (981 Pa)			
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
400	9.01	591	2.215	73.5	83	687	3.823	76.7	85	775	5.540	76.4	87	861	7.374	75.0	89	947	9.311	73.4	91
450	10.13	640	2.710	71.3	85	729	4.452	76.2	87	810	6.331	76.8	88	887	8.282	76.3	90	964	10.36	75.1	92
500	11.26	692	3.271	69.1	86	774	5.165	75.3	89	849	7.197	76.7	90	921	9.327	76.6	91	990	11.51	76.2	93
550	12.38	744	3.918	67.2	88	821	5.985	74.0	90	892	8.155	76.2	92	959	10.44	76.8	93	1023	12.79	76.6	94
600	13.51	797	4.682	65.2	90	868	6.904	72.4	92	937	9.207	75.5	93	999	11.65	76.5	95	1060	14.15	76.8	95
650	14.64	852	5.559	63.3	92	919	7.930	70.9	93	983	10.38	74.6	95	1043	12.96	76.1	96	1099	15.61	76.7	97
700	15.76	906	6.522	61.7	93	970	9.070	69.4	95	1030	11.68	73.4	96	1088	14.40	75.4	98	1141	17.20	76.3	98
750	16.89	962	7.621	60.0	95	1023	10.35	68.0	96	1078	13.14	72.1	98	1134	15.94	74.7	99	1186	18.91	75.8	100
800	18.01	1019	8.872	58.7	96	1075	11.72	66.5	98	1129	14.71	70.8	99	1181	17.67	73.6	100	1232	20.75	75.2	101
850	19.14	1075	10.26	57.5	98	1129	13.30	65.2	99	1181	16.43	69.6	100	1229	19.58	72.4	101	1278	22.76	74.5	102
900	20.27	1131	11.75	56.4	99	1183	14.98	63.8	100	1232	18.25	68.4	101	1278	21.60	71.3	102	1325	24.95	73.5	103
950	21.39	1188	13.44	55.4	100	1237	16.81	62.6	101	1284	20.232	67.3	102	1330	23.78	70.3	103	1372	27.32	72.5	104

Air flow (m ³ /min)	Outlet Vel (m/sec)	120 mmAq (1177 Pa)				140 mmAq (1373Pa)				160 mmAq (1569Pa)				180 mmAq (1765 Pa)				200 mmAq (1961 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
400	9.01																					
450	10.13	1041	12.52	73.8	94	1108	14.58	72.7	96													
500	11.26	1059	13.82	75.3	95	1129	16.22	74.1	96	1196	18.66	73.2	98									
550	12.38	1086	15.19	76.2	96	1149	17.71	75.5	97	1212	20.33	74.5	98	1274	22.98	73.7	99	1335	25.72	72.9	101	
600	13.51	1119	16.73	76.6	97	1176	19.33	76.3	98	1234	22.06	75.7	99	1292	24.90	75.0	100	1350	27.79	74.2	101	
650	14.64	1155	18.35	76.8	98	1210	21.17	76.6	98	1263	23.99	76.4	99	1316	26.89	76.0	100	1369	29.89	75.3	101	
700	15.76	1194	20.08	76.7	99	1246	23.03	76.8	100	1297	26.07	76.6	100	1346	29.09	76.4	101	1395	32.19	76.1	102	
750	16.89	1235	21.95	76.4	101	1285	25.06	76.7	101	1332	28.18	76.8	101	1381	31.47	76.6	102	1426	34.70	76.5	103	
800	18.01	1279	23.94	76.1	102	1325	27.21	76.5	102	1372	30.54	76.7	103	1417	33.89	76.8	103	1461	37.33	76.7	104	
850	19.14	1325	26.10	75.5	103	1369	29.50	76.2	103	1411	32.97	76.5	104	1455	36.49	76.7	104	1498	40.02	76.8	105	
900	20.27	1371	28.39	74.9	104	1414	31.95	75.7	104	1455	35.56	76.2	105	1495	39.24	76.5	105					
950	21.39	1417	30.88	74.2	105	1460	34.58	75.2	105	1500	38.34	75.8	106									

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 - Power rating BkW does not include V-belt drive & motor efficiency and transmission loss.
 - The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL(LwoA(dB(A))) sound power levels for installation type A(Free Inlet, Free Outlet). Rating do not include the effect of duct end corrections.
 - Performance certified is for AMCA 210 Fig-15 & Installation type A(Free Inlet, Free Outlet). Performance ratings do not include the effects of appurtenances(Accessories).

GAP-S series

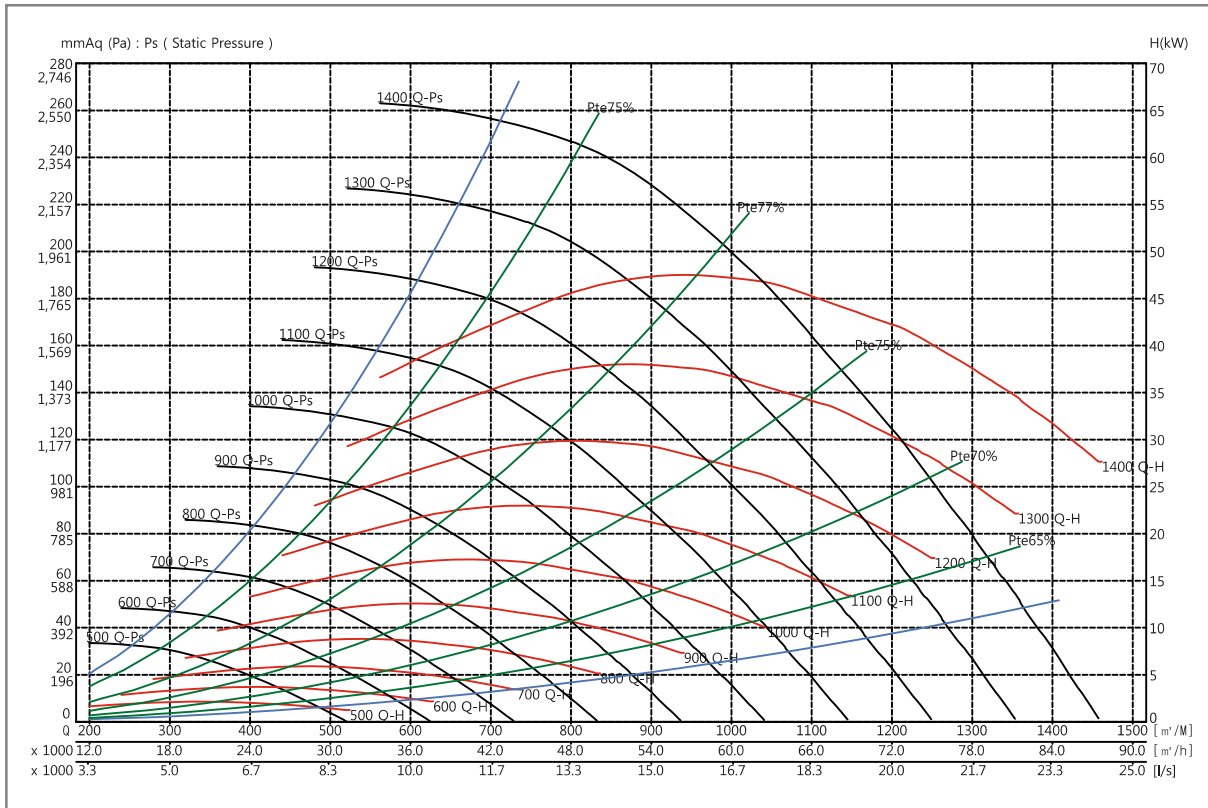
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GAP-7S

FEG 80

Wheel dia	1066 mm	Tip Speed = 0.05582 * rpm	Outlet Dim'	255 * 3349	Outlet Area	0.8540 m ²	Class 1	1075 rpm	Class 2	1433 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				40 mmAq (392Pa)				60 mmAq 588Pa)				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
450	8.78	538	2.442	74.0	83	629	4.264	76.8	85	713	6.213	76.2	87	796	8.315	74.5	89	877	10.51	72.9	92
500	9.76	577	2.918	72.1	84	661	4.874	76.4	87	740	6.995	76.6	88	814	9.197	75.9	90	889	11.57	74.4	92
550	10.73	618	3.445	70.2	86	698	5.559	75.8	89	770	7.817	76.8	90	839	10.18	76.5	91	906	12.64	75.7	93
600	11.71	660	4.052	68.4	87	734	6.305	74.9	90	801	8.716	76.5	91	867	11.24	76.7	92	929	13.83	76.4	94
650	12.69	701	4.730	66.8	89	772	7.154	73.7	91	837	9.705	76.1	93	898	12.39	76.7	94	957	15.15	76.6	95
700	13.66	744	5.496	65.0	90	810	8.094	72.3	92	873	10.78	75.5	94	930	13.62	76.5	95	987	16.53	76.8	96
750	14.64	788	6.377	63.4	92	850	9.131	71.0	94	910	11.94	74.7	95	965	14.92	76.1	97	1018	18.01	76.7	97
800	15.61	831	7.314	62.0	93	891	10.24	69.7	95	948	13.23	73.7	96	1002	16.36	75.6	98	1052	19.57	76.4	99
850	16.59	876	8.402	60.6	95	934	11.49	68.4	96	986	14.65	72.5	97	1038	17.86	74.9	99	1087	21.24	76.0	100
900	17.56	921	9.599	59.3	96	975	12.79	67.3	97	1026	16.16	71.4	99	1076	19.51	74.1	100	1124	23.04	75.5	101
950	18.54	967	10.89	58.1	98	1019	14.30	66.0	98	1067	17.81	70.4	100	1114	21.32	73.2	101	1161	24.95	74.9	102
1000	19.52	1012	12.30	57.1	99	1061	15.89	64.8	100	1108	19.55	69.3	101	1153	23.29	72.1	102	1198	27.01	74.2	103

Air flow (m³/min)	Outlet Vel (m/sec)	120 mmAq (1177 Pa)				140 mmAq (1373Pa)				160 mmAq (1569Pa)				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	
450	8.78																					
500	9.76	962	14.00	73.1	94																	
550	10.73	974	15.27	74.5	95	1041	17.92	73.4	96													
600	11.71	991	16.55	75.7	95	1054	19.41	74.6	97	1115	22.29	73.7	98	1175	25.26	72.7	99					
650	12.69	1014	17.97	76.4	96	1071	20.90	75.7	97	1129	23.98	74.8	99	1186	27.12	74.0	100	1242	30.31	73.2	101	
700	13.66	1042	19.54	76.6	97	1094	22.57	76.3	98	1147	25.73	75.8	99	1201	29.00	75.1	100	1255	32.41	74.3	101	
750	14.64	1070	21.13	76.8	98	1121	24.38	76.5	99	1171	27.65	76.3	100	1220	31.04	75.9	100	1270	34.50	75.3	102	
800	15.61	1102	22.89	76.7	99	1150	26.25	76.8	100	1198	29.72	76.5	101	1244	33.21	76.4	101	1290	36.76	76.0	102	
850	16.59	1133	24.70	76.5	100	1181	28.27	76.7	101	1226	31.84	76.7	101	1271	35.53	76.5	102	1314	39.21	76.4	103	
900	17.56	1169	26.65	76.3	101	1212	30.34	76.6	102	1256	34.10	76.8	102	1299	37.92	76.7	103	1342	41.84	76.6	103	
950	18.54	1204	28.71	75.9	102	1246	32.54	76.4	103	1288	36.47	76.7	103	1329	40.43	76.8	104	1370	44.48	76.7	104	
1000	19.52	1241	30.90	75.4	103	1281	34.89	76.1	104	1321	38.99	76.4	104	1361	43.10	76.7	105	1404	47.21	76.8	105	

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 - The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PwL(LwoA(dB(A))) sound power levels for installation type A(Free Inlet, Free Outlet). Rating do not include the effect of duct end corrections.
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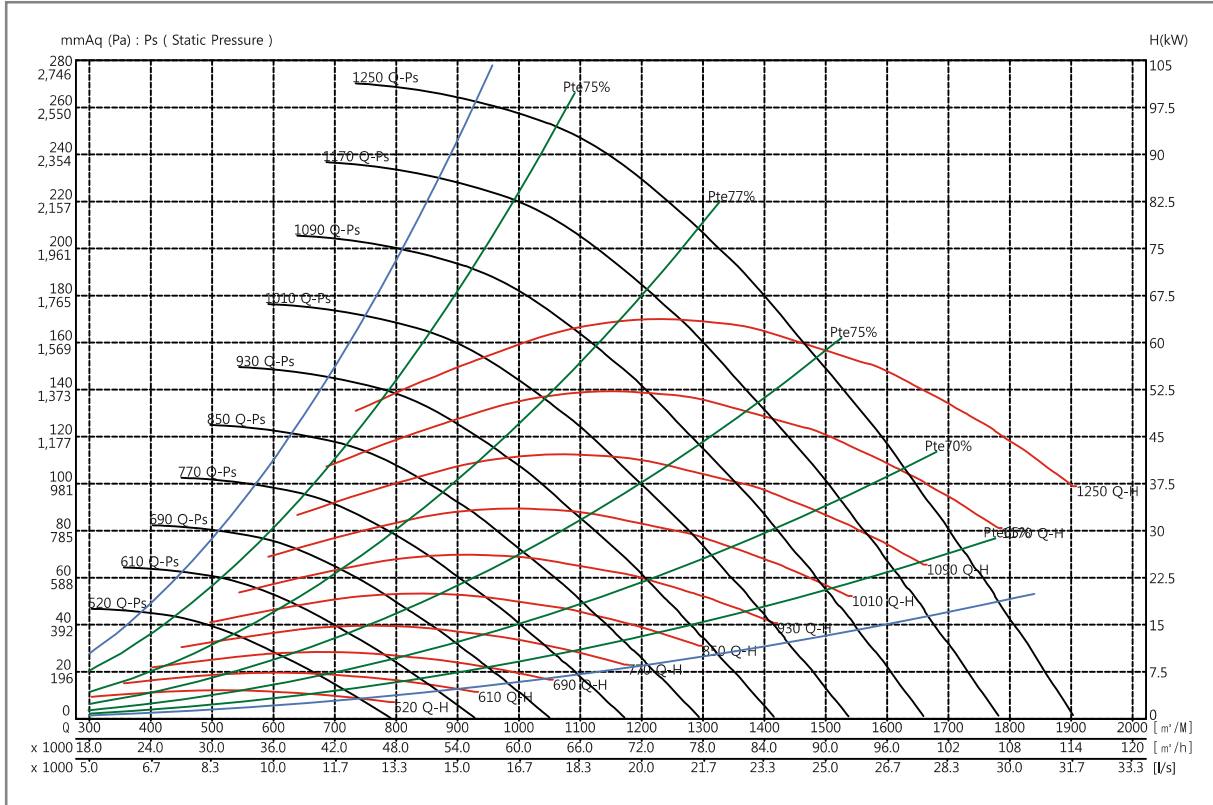
GAP-S series

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GAP-8S FEG 80

Wheel dia	1210 mm	Tip Speed =	0.06336 * rpm	Outlet Dim'	290 * 3801	Outlet Area	1.1023 m ²	Class 1	947 rpm	Class 2	1263 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				40 mmAq (392Pa)				60 mmAq (588Pa)				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
500	7.56					522	4.63	76.5	83	607	6.942	74.5	87								
600	9.07					563	5.74	76.7	86	635	8.304	76.4	88	705	11.05	75.1	90	775	13.96	73.5	93
700	10.58	539	4.338	70.5	86	610	7.03	75.9	89	674	9.917	76.8	90	736	12.94	76.4	92	796	16.10	75.6	93
800	12.10	596	5.567	67.8	89	660	8.55	74.5	91	719	11.76	76.4	93	775	15.07	76.8	94	829	18.53	76.5	95
900	13.61	655	7.060	65.0	91	713	10.40	72.4	93	768	13.84	75.5	95	819	17.50	76.5	96	868	21.22	76.8	96
1000	15.12	714	8.820	62.7	93	768	12.50	70.3	95	819	16.23	74.2	97	868	20.18	75.8	98	912	24.23	76.5	98
1100	16.63	775	10.92	60.5	96	825	14.92	68.3	97	871	19.02	72.4	98	917	23.16	74.9	99	960	27.54	76.0	100
1200	18.14	837	13.38	58.5	98	883	17.68	66.5	99	926	22.13	70.7	100	969	26.61	73.5	101	1010	31.20	75.2	102
1300	19.66	898	16.18	57.0	99	942	20.84	64.6	100	983	25.61	69.1	101	1022	30.45	72.0	102	1061	35.28	74.1	103
1400	21.17	960	19.38	55.6	101	1001	24.39	62.9	102	1040	29.44	67.6	103	1077	34.69	70.5	104	1113	39.88	72.7	105
1500	22.68	1023	23.10	54.4	103	1061	28.37	61.3	103	1099	33.84	66.0	104	1134	39.35	69.1	105	1167	44.90	71.4	106
1600	24.19	1086	27.25	53.3	104	1123	32.99	59.9	105	1157	38.63	64.5	106	1190	44.40	67.8	106	1223	50.40	70.1	107

Air flow (m³/min)	Outlet Vel (m/sec)	120 mmAq (1177 Pa)				140 mmAq (1373Pa)				160 mmAq (1569Pa)				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
500	7.56																				
600	9.07																				
700	10.58	857	19.45	74.3	95	916	22.83	73.2	97												
800	12.10	881	22.07	76.1	96	934	25.79	75.2	97	987	29.65	74.2	99	1039	33.53	73.3	100				
900	13.61	917	25.12	76.6	97	964	29.03	76.3	98	1010	33.10	75.8	99	1057	37.33	75.0	101	1105	41.70	74.2	102
1000	15.12	957	28.39	76.8	99	1001	32.67	76.7	100	1043	37.01	76.5	101	1085	41.40	76.2	101	1127	45.97	75.7	102
1100	16.63	1001	32.03	76.5	101	1042	36.61	76.7	101	1082	41.23	76.8	102	1121	46.00	76.6	102	1159	50.75	76.4	103
1200	18.14	1049	35.97	76.0	102	1086	40.89	76.5	103	1124	45.85	76.7	103	1161	50.86	76.8	104	1197	56.01	76.7	104
1300	19.66	1099	40.32	75.3	104	1135	45.52	76.0	105	1169	50.82	76.4	105	1204	56.17	76.7	105	1238	61.58	76.8	106
1400	21.17	1149	45.13	74.4	105	1185	50.62	75.3	106	1218	56.20	76.0	106	1250	61.83	76.3	107				
1500	22.68	1201	50.49	73.2	106	1235	56.11	74.5	107												
1600	24.19																				

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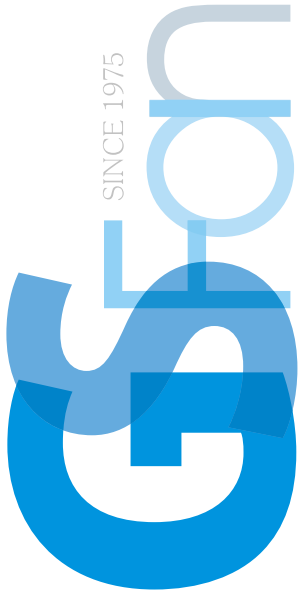
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