





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 공구상가에서 1평 남짓 한 점포에서 "동일공사"라는 상호로 출발하여
지금의 남동공단에 2014년 말 기준 임직원 100여명, 년매출 210여억원을 생산하는
송풍기 분야 선도 기업으로서, 국산품 중 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 (美)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

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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	송풍기선정프로그램 국내 최초 개발
2001.10	품질보증시스템인증 획득(ISO 9001/KSA 9001)
2002.09	(주)금성풍력 법인전환
2004.07	ISO 9001 : 2000전환 인증획득
2005.03	남동공단 2단지 98B-11L 본사 · 공장 이전
2007.03	(美)AMCA Air Performance(성능) 인증획득 (국내최초 국산 기술)
2009.01	- 원심형 송풍기(SIROCCO & AIR FOIL FAN) 인증 (편흡입 & 양흡입)
2010.12	송풍기 선정 프로그램 업그레이드 (Ver. 8.0)
	(美)AMCA Sound & Air Performance(소음 & 성능) 인증획득
2015.03	- 원심형 송풍기(SIROCCO & AIR FOIL FAN) 인증 (편흡입 & 양흡입)
	(美)AMCA Sound & Air Performance(소음 & 성능) 인증획득
	- MIXED FLOW(DUCT IN LINE) FAN 인증
	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
2012.03	- 2IC경제주역 「대한민국의 심장, 경제수도 인천」 건설대표브랜드기업, 「비전기업」 선정
2012.05	제 39회 상공의 날 대한상공회의소 표창장 (상공업 발전에 기여)
2012.12	제 24회 전국중소기업인대회 대통령 표창 (모범 중소기업인)
2013.04	인천광역시 중소기업인대상 우수상
	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.

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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 명시토록하여 고객이 믿을 수 있는 효율 보증 프로그램을 운영하고 있습니다.

(주)금성풍력은 국내최초 효율등급인증을 위하여 노력하고 있습니다.

PLENUM FAN GBP-S & 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.

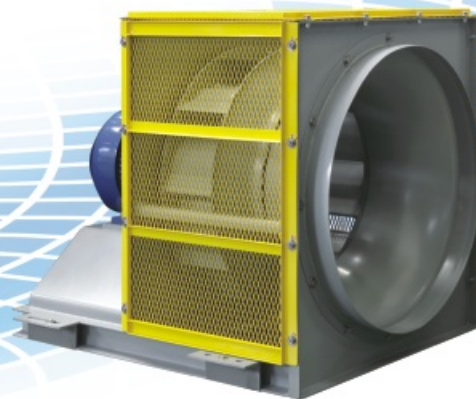
This blower is a small, compact size do not have the housing. In addition, direct expression in motor belt replacement and maintenance cost is low and it is possible to reduce power ratio for the belt losses. General buildings, is suitable for the air conditioning system, such as a building. Can be manufactured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



GBP MODEL IMPELLER
(BACKWARD CURVE)



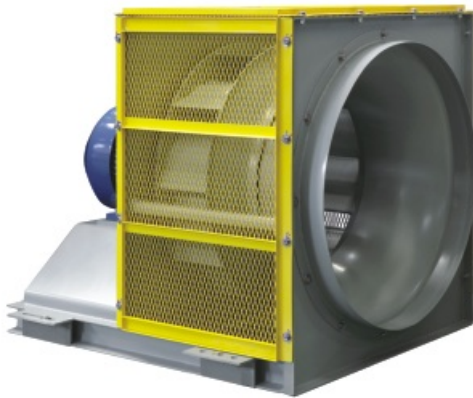
GAP MODEL IMPELLER
(AIR FOIL)



GBP-S & GAP-S series

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PLENUM FAN



GUMSUNG POONG RYUK Co.,Ltd certifies that the GBP-S Fan series shown herein is licensed to bear the AMCA Seal.
The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program



GBP-2S from GBP-4S for the entire model to have obtained the AMCA Seal certified performance and sound

GBP-2S ~ GBP-2.75s base data is GBP-2S
GBP-3S ~ GBP-3.75s base data is GBP-3S
GBP-4S base data is GBP-4S

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.

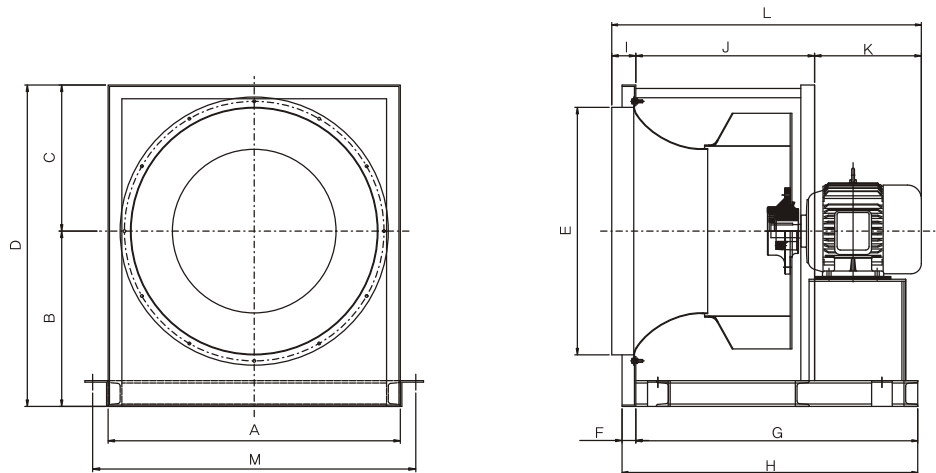
4. Protection guards

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

GBP-S & GAP-S series

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



GBP MODEL : Backward Curve Type Impeller (후곡형)

	MODEL NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	MOTOR	FAN WEIGHT kg
GBP	#2	400	240	200	440	310	30	500	530	70	260	230	560	520	3HP-2P 0.5HP-4P	83
	#2,25	450	270	225	495	360	30	560	590	70	280	268	618	570	5HP-2P 1HP-4P	95
	#2,5	500	300	250	550	380	30	620	650	70	320	300	690	620	7.5HP-2P 1HP-4P	104
	#2,75	550	330	275	605	440	30	630	660	70	320	330	720	670	10HP-2P 2HP-4P	120
	#3	600	360	300	660	480	30	770	800	70	350	460	880	720	15HP-2P 2HP-4P	187
	#3,25	650	390	325	715	520	30	640	670	70	380	270	720	770	5HP-4P 2HP-6P	125
	#3,5	700	420	350	770	560	30	730	760	70	400	325	795	820	7.5HP-4P 2HP-6P	147
	#3,75	700	420	350	770	560	30	730	760	70	400	325	795	820	7.5HP-4P 2HP-6P	147
	#4	720	450	360	810	600	30	750	780	70	390	405	865	840	10HP-4P 3HP-6P	165

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

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	1200	750	600	1350	1025	40	1260	1300	100	770	495	1365	1336	100HP-4P 30HP-6P	540
	#8	1300	780	650	1430	1120	40	1380	1420	100	800	580	1480	1436	120HP-4P 40HP-6P	629

※상기 FAN 중량은 모터가 제외한 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.

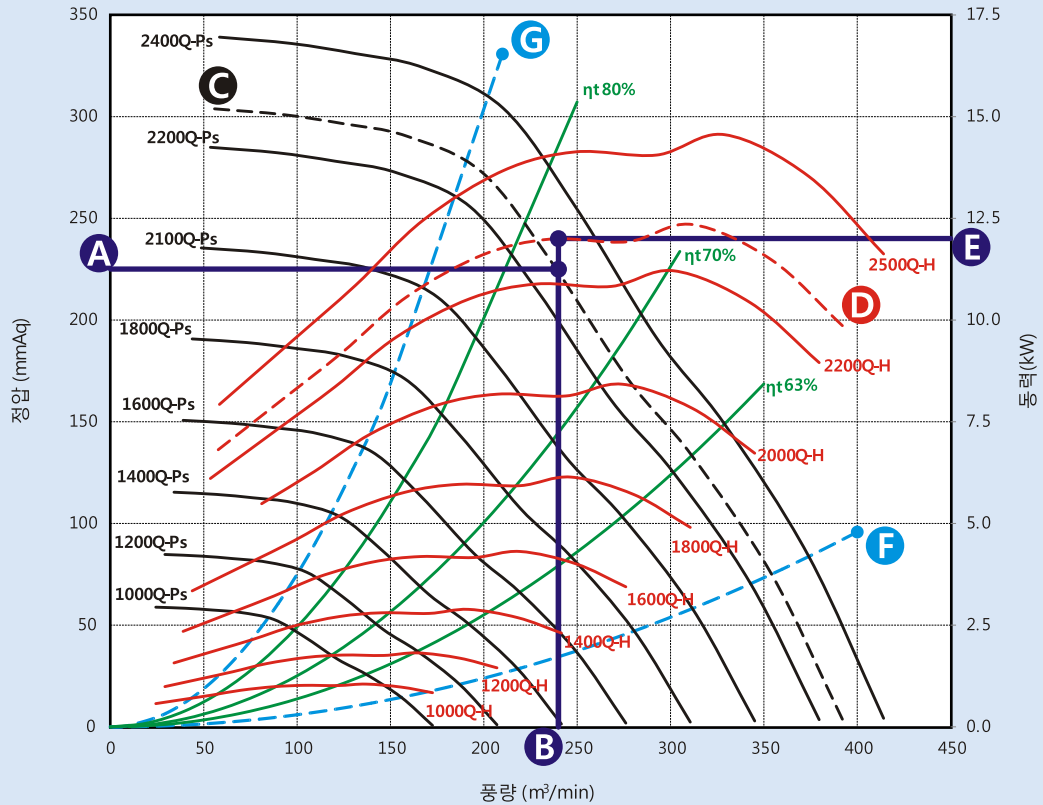
※The dimensions and performance data can change without notice for performance and quality improvement.

GBP-S & GAP-S series

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팬 선정 방법 예 Fan Selection Example

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 예상회전수는 2272rpm 이다.
 2272 rpm에 해당되는 예상 동력곡선(D)을 그린 후 동력값(E)은 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.

GBP-S series

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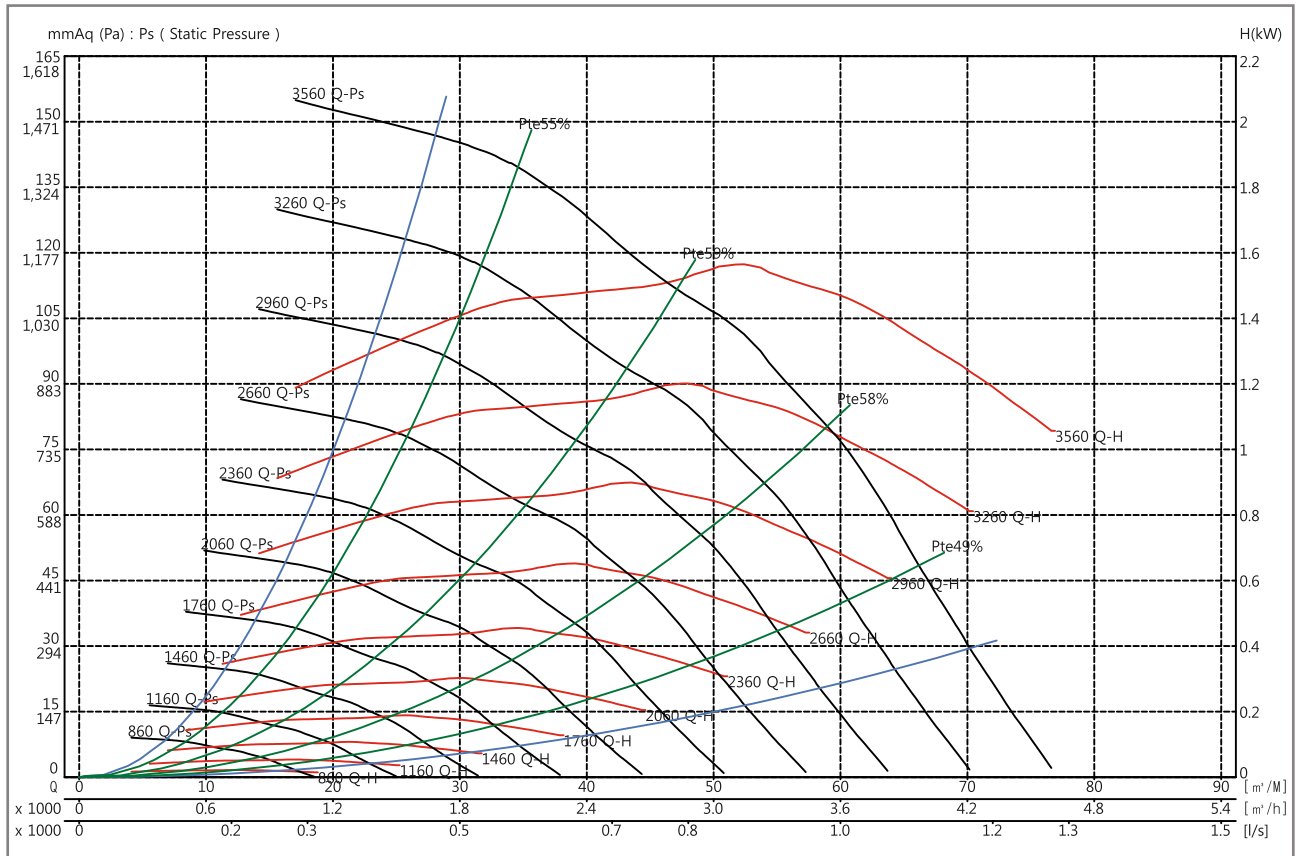
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GBP-2S

FEG 70

Wheel dia	304 mm	Tip Speed = 0.015927 * rpm	Outlet Dim'	88 * 955	Outlet Area	0.0840 m ²	Class 1	3769 rpm	Class 2	5026 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	15 mmAq (147 Pa)				30 mmAq (294 Pa)				45 mmAq (441 Pa)				60 mmAq (588 Pa)				75 mmAq (735 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
10	1.98	1180	0.052	51.9	69	1586	0.114	42.6	77												
15	2.97	1246	0.064	58.7	70	1640	0.142	54.0	77	1963	0.228	48.0	82	2250	0.330	44.8	86	2501	0.438	41.7	89
20	3.97	1364	0.088	59.0	76	1745	0.175	58.6	78	2035	0.273	55.9	82	2296	0.382	51.9	86	2548	0.508	49.8	89
25	4.96	1512	0.114	57.9	81	1861	0.218	59.2	81	2148	0.326	58.7	84	2386	0.442	57.3	86	2601	0.567	54.6	89
30	5.95	1708	0.156	53.8	85	1988	0.269	58.8	86	2269	0.394	59.3	86	2494	0.511	58.8	87	2716	0.656	58.2	89
35	6.94	1919	0.212	49.8	88	2137	0.323	57.9	89	2363	0.457	59.0	90	2629	0.615	59.2	90	2833	0.753	59.1	91
40	7.93	2105	0.272	47.0	90	2322	0.398	55.2	92	2524	0.540	58.5	93	2729	0.704	59.0	93	2942	0.863	59.2	93
45	8.92	2316	0.352	43.4	93	2513	0.486	51.9	94	2701	0.644	57.2	95	2894	0.819	58.6	96	3051	0.984	59.0	96
50	9.92	2520	0.441	39.4	95	2717	0.601	49.8	96	2878	0.758	55.2	97	3038	0.925	57.7	98	3230	1.139	58.6	99
55	10.91	2765	0.570	36.3	98	2914	0.723	47.0	98	3071	0.891	52.4	99	3207	1.066	56.4	99	3379	1.278	57.9	100
60	11.90	2958	0.685	34.2	100	3147	0.891	44.3	100	3285	1.068	50.3	101	3413	1.249	54.1	101	3550	1.450	56.6	102
65	12.89	3196	0.849	32.0	101	3344	1.04	40.4	102	3496	1.257	47.8	102	3580	1.405	51.9	103				

Air flow (m³/min)	Outlet Vel (m/sec)	90 mmAq (883 Pa)				105 mmAq (1030 Pa)				120 mmAq (1177 Pa)				135 mmAq (1324 Pa)				150 mmAq (1471 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
10	1.98																				
15	2.97																				
20	3.97	2773	0.636	47.4	91	2977	0.764	44.8	93	3172	0.906	43.0	95	3356	1.057	41.7	97	3532	1.222	41.0	98
25	4.96	2819	0.710	52.5	91	3020	0.852	50.3	93	3217	1.017	49.2	95	3396	1.170	47.4	97	3571	1.346	46.5	98
30	5.95	2911	0.802	57.0	91	3089	0.952	54.8	93	3271	1.121	53.5	95	3444	1.290	51.9	96				
35	6.94	3022	0.908	58.6	92	3198	1.070	58.1	94	3362	1.236	57.0	95	3525	1.421	55.9	96				
40	7.93	3151	1.042	59.2	93	3316	1.203	58.8	95	3484	1.391	58.6	96								
45	8.92	3262	1.190	59.1	96	3437	1.361	59.3	96	3580	1.522	59.2	96								
50	9.92	3363	1.317	59.0	98	3538	1.525	59.1	98												
55	10.91	3538	1.497	58.6	101																
60	11.90																				
65	12.89																				

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GBP-S series

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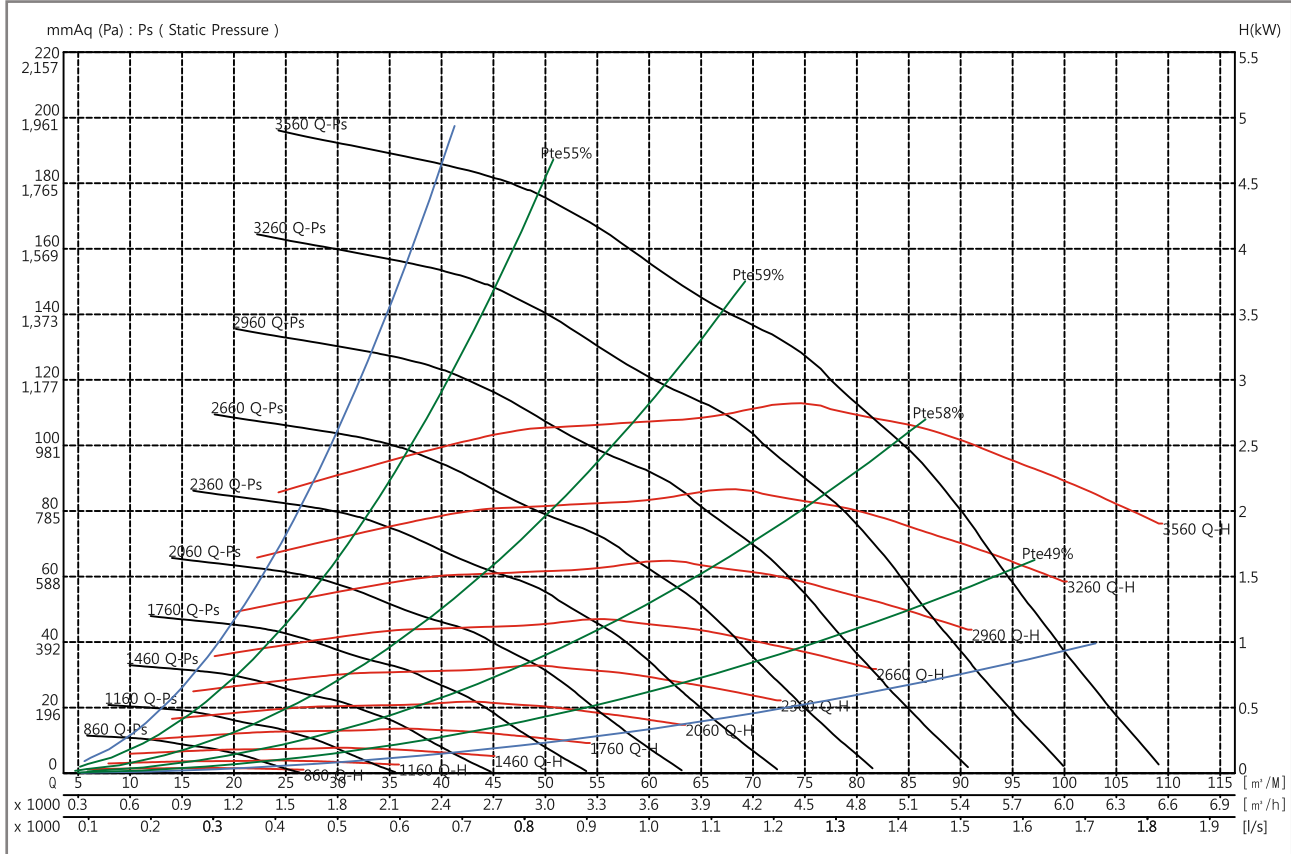
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GBP-2.25S

FEG 67

Wheel dia	342 mm	Tip Speed = 0.01791 * rpm	Outlet Dim'	99 * 1074.4	Outlet Area	0.1064 m ²	Class 1	3351 rpm	Class 2	4468 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	15 mmAq (147 Pa)				30 mmAq (294 Pa)				45 mmAq (441 Pa)				60 mmAq (588 Pa)				75 mmAq (735 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
25	3.92	1212	0.111	59.0	76	1535	0.213	58.4	79	1802	0.341	55.4	83	2039	0.481	51.9	87				
30	4.70	1318	0.137	58.1	81	1625	0.258	59.3	81	1870	0.386	58.2	84	2088	0.531	55.8	87	2300	0.702	53.7	89
35	5.49	1428	0.169	56.4	84	1708	0.311	59.0	85	1961	0.450	59.2	85	2169	0.603	58.4	87	2362	0.772	57.0	90
40	6.27	1569	0.218	53.8	86	1816	0.364	58.6	88	2040	0.520	59.2	88	2252	0.681	59.1	89	2449	0.871	58.6	90
45	7.05	1712	0.271	49.7	89	1918	0.419	57.7	90	2124	0.597	59.0	91	2339	0.781	59.2	91	2531	0.969	59.2	91
50	7.84	1855	0.334	46.5	91	2039	0.493	56.4	92	2243	0.684	58.5	94	2425	0.891	59.0	93	2615	1.092	59.2	93
55	8.62	2003	0.411	43.4	93	2176	0.580	53.8	94	2349	0.770	57.7	95	2523	0.986	58.7	96	2693	1.218	59.0	96
60	9.41	2158	0.501	39.8	95	2312	0.678	51.4	96	2469	0.876	56.4	97	2634	1.101	58.3	98	2794	1.348	58.8	98
65	10.19	2315	0.607	37.3	97	2458	0.796	49.1	97	2598	1.001	54.8	98	2755	1.235	57.4	99	2896	1.473	58.5	100
70	10.97	2456	0.720	36.5	98	2618	0.940	46.5	99	2745	1.147	52.4	100	2860	1.362	56.4	100	3004	1.617	57.9	101
75	11.76	2594	0.834	34.3	100	2750	1.077	45.0	100	2886	1.304	50.3	101	2997	1.536	54.8	102	3117	1.781	57.1	102
80	12.54	2765	0.991	32.1	102	2904	1.237	41.7	102	3022	1.480	49.1	102	3136	1.729	53.4	103	3258	1.992	55.5	103

Air flow (m³/min)	Outlet Vel (m/sec)	90 mmAq (883 Pa)				105 mmAq (1030 Pa)				120 mmAq (1177 Pa)				135 mmAq (1324 Pa)				150 mmAq (1471 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
25	3.92																				
30	4.70	2489	0.864	50.9	92	2673	1.054	49.6	94												
35	5.49	2536	0.948	54.8	92	2709	1.138	52.8	94	2883	1.359	51.9	95	3038	1.553	49.8	97				
40	6.27	2608	1.043	57.6	92	2773	1.247	56.2	94	2924	1.454	54.5	95	3082	1.688	53.5	97	3225	1.903	51.9	98
45	7.05	2700	1.169	58.7	93	2857	1.377	58.2	94	3000	1.585	57.3	96	3132	1.796	55.8	97	3272	2.040	54.8	98
50	7.84	2780	1.285	59.2	94	2933	1.499	58.8	95	3069	1.711	58.4	96	3216	1.960	58.0	97	3345	2.196	57.0	98
55	8.62	2865	1.436	59.2	96	3025	1.663	59.2	96	3169	1.897	59.0	97	3307	2.150	58.7	98	3420	2.364	58.2	99
60	9.41	2938	1.580	59.1	98	3094	1.810	59.2	98	3250	2.069	59.3	98	3379	2.305	59.1	99	3505	2.563	58.8	100
65	10.19	3034	1.735	58.9	100	3182	2.010	59.1	100	3321	2.248	59.2	100	3464	2.513	59.3	100				
70	10.97	3147	1.898	58.6	102	3277	2.187	58.9	102	3411	2.479	59.0	102	3551	2.770	59.1	102				
75	11.76	3259	2.074	58.1	103	3397	2.389	58.6	103	3504	2.673	58.9	103								
80	12.54	3375	2.272	57.4	104	3503	2.583	58.2	105												

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GBP-S series

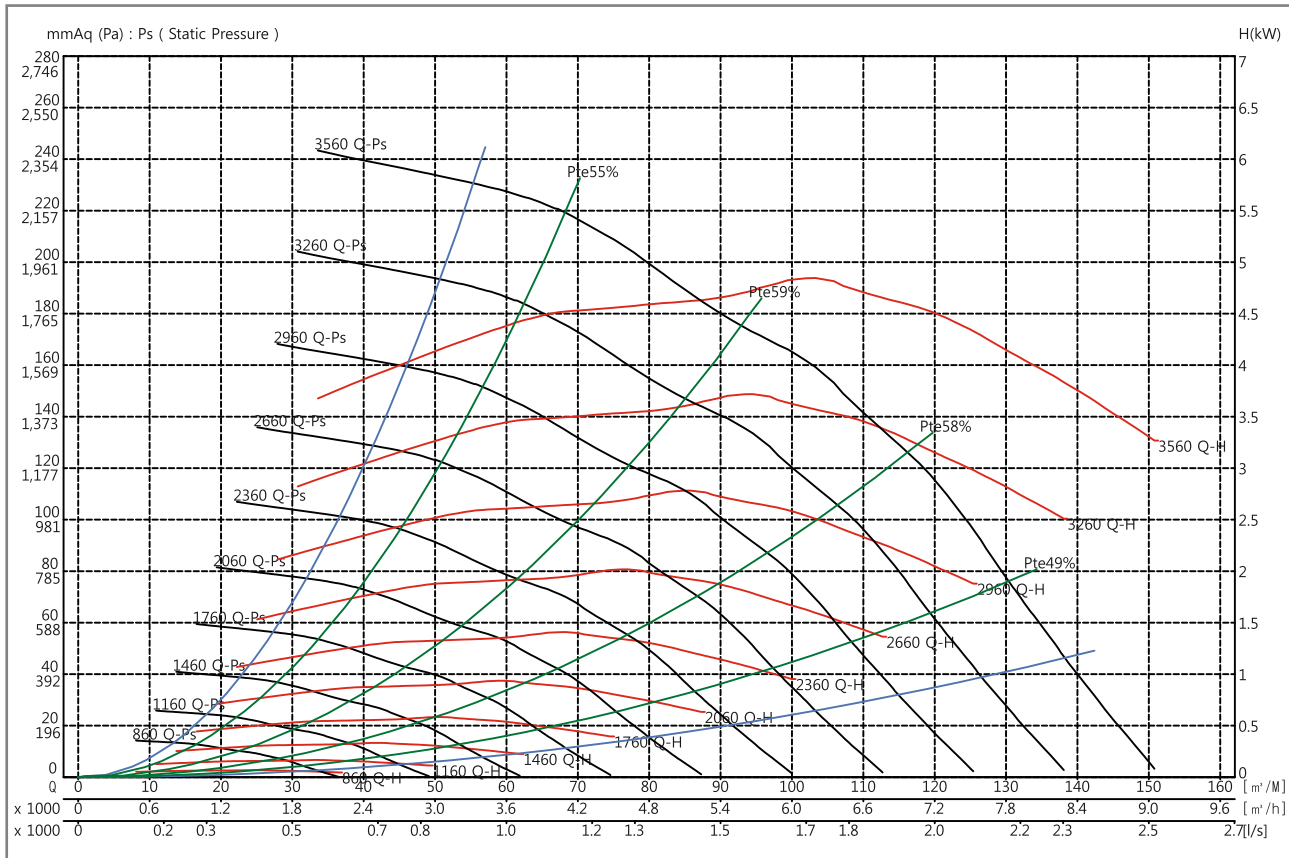
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GBP-2.5S

FEG 67

Wheel dia	381 mm	Tip Speed = 0.01995 * rpm	Outlet Dim'	110 * 1197	Outlet Area	0.1317 m ²	Class 1	3008 rpm	Class 2	4010 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	20 mmAq (196 Pa)				40 mmAq (393 Pa)				60 mmAq (588 Pa)				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
20	2.53	1071	0.123	54.5	73																
30	3.80	1191	0.174	59.3	76	1530	0.359	55.8	82	1824	0.583	50.9	87								
40	5.06	1317	0.241	58.7	83	1651	0.460	59.1	84	1904	0.694	57.3	87	2143	0.981	54.5	91	2363	1.284	51.9	94
50	6.33	1477	0.322	56.4	88	1767	0.591	59.0	89	2032	0.860	59.2	89	2250	1.155	58.4	92	2448	1.476	57.0	94
60	7.59	1674	0.444	51.9	91	1915	0.727	58.4	93	2143	1.050	59.1	93	2375	1.380	59.2	93	2568	1.728	58.8	95
70	8.86	1894	0.611	46.5	95	2089	0.911	56.4	96	2298	1.270	58.6	97	2480	1.631	59.1	97	2686	2.012	59.3	97
80	10.13	2101	0.814	43.4	97	2276	1.134	53.4	98	2454	1.505	57.6	100	2630	1.913	58.7	100	2796	2.343	59.0	100
90	11.39	2319	1.066	39.8	100	2494	1.436	49.7	101	2641	1.812	55.2	102	2789	2.222	57.9	103	2957	2.708	58.6	103
100	12.66	2537	1.363	36.5	103	2705	1.779	46.5	103	2835	2.169	52.4	104	2960	2.592	56.4	104	3114	3.092	57.9	105
110	13.92	2754	1.703	33.6	105	2915	2.182	43.9	105	3044	2.628	50.3	106	3161	3.069	54.1	106	3286	3.559	56.6	107
120	15.19	2990	2.135	31.3	107	3120	2.625	41.2	107	3244	3.100	47.6	107	3354	3.575	51.9	108	3467	4.076	54.7	108
130	16.46	3202	2.605	30.5	109	3348	3.169	38.0	109	3457	3.670	45.0	109	3560	4.153	49.1	109				

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	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
20	2.53																				
30	3.80																				
40	5.06	2569	1.606	49.6	96																
50	6.33	2628	1.813	54.8	96	2808	2.177	52.8	98	2986	2.587	51.6	100	3149	2.971	49.8	101				
60	7.59	2741	2.088	58.2	97	2899	2.453	57.0	98	3061	2.878	55.8	100	3215	3.319	54.5	101	3359	3.740	53.0	102
70	8.86	2859	2.395	59.1	98	3023	2.818	58.7	99	3165	3.218	58.2	100	3311	3.668	57.6	101	3446	4.118	56.5	103
80	10.13	2981	2.790	59.2	100	3151	3.237	59.3	100	3302	3.691	59.1	101	3428	4.113	58.7	102	3557	4.578	58.4	103
90	11.39	3098	3.188	59.0	103	3260	3.691	59.1	103	3415	4.164	59.3	103	3556	4.642	59.2	103				
100	12.66	3260	3.624	58.6	106	3390	4.158	58.9	106	3526	4.700	59.1	106								
110	13.92	3411	4.067	57.9	108	3552	4.669	58.5	108												
120	15.19																				
130	16.46																				

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GBP-S series

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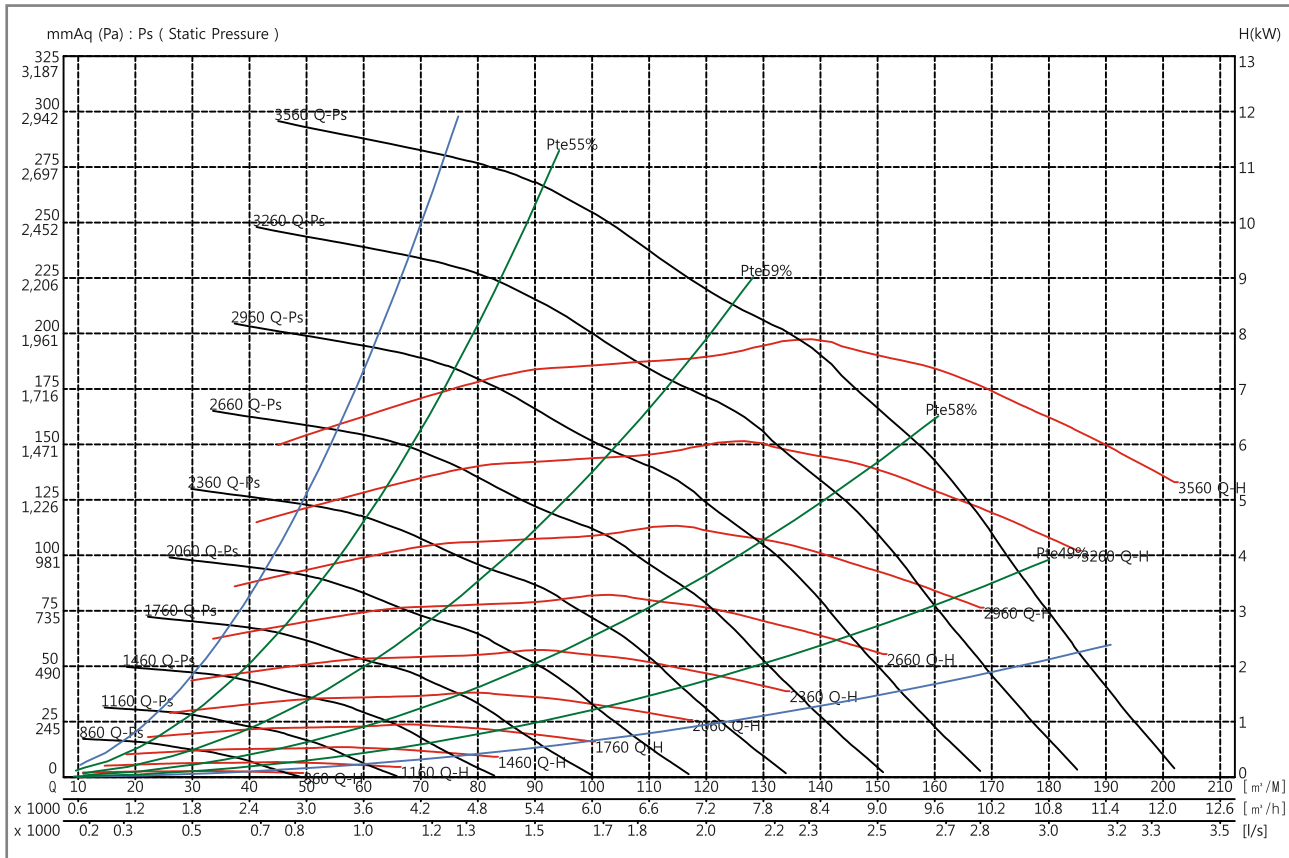
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GBP-2.75S

FEG 63

Wheel dia	420 mm	Tip Speed = 0.02199 * rpm	Outlet Dim'	122 * 1319	Outlet Area	0.1609 m ²	Class 1	2728 rpm	Class 2	3638 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 _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
40	4.14	1201	0.290	59.2	79	1546	0.602	55.4	85	1848	0.986	50.6	90								
50	5.18	1283	0.368	59.0	84	1630	0.717	58.6	87	1901	1.120	55.8	91	2150	1.587	52.5	94	2380	2.087	49.8	97
60	6.21	1409	0.466	57.9	89	1721	0.860	59.3	89	1984	1.291	58.4	91	2209	1.763	56.4	94	2421	2.296	53.9	97
70	7.25	1538	0.585	55.5	92	1804	1.024	59.0	93	2082	1.513	59.2	93	2301	2.016	58.6	95	2493	2.542	57.3	97
80	8.29	1689	0.742	51.9	94	1925	1.208	58.5	96	2164	1.755	59.1	96	2398	2.310	59.2	96	2591	2.888	58.7	98
90	9.32	1836	0.928	49.1	97	2050	1.422	57.4	98	2262	2.007	58.9	99	2474	2.601	59.2	99	2681	3.231	59.2	99
100	10.36	2000	1.156	45.0	99	2190	1.681	55.2	100	2379	2.270	58.4	102	2566	2.946	59.0	101	2761	3.610	59.2	101
110	11.39	2156	1.419	42.1	101	2328	1.972	53.2	102	2508	2.605	57.4	103	2688	3.312	58.6	104	2851	4.045	59.0	104
120	12.43	2310	1.716	39.8	103	2491	2.349	50.6	104	2639	2.973	56.0	105	2804	3.684	58.0	106	2965	4.481	58.7	106
130	13.46	2472	2.065	37.3	105	2646	2.753	48.2	105	2787	3.408	53.8	106	2930	4.134	57.1	107	3084	4.946	58.3	108
140	14.50	2651	2.502	35.0	107	2798	3.198	46.2	107	2941	3.925	51.9	108	3072	4.668	55.5	108	3202	5.450	57.6	109
150	15.54	2800	2.912	33.6	108	2963	3.720	43.4	108	3094	4.465	49.7	109	3212	5.245	54.1	110	3338	6.060	56.4	110

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 _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
40	4.14																				
50	5.18																				
60	6.21	2626	2.870	51.9	99	2817	3.460	49.8	101												
70	7.25	2679	3.135	55.4	99	2861	3.783	53.7	101	3035	4.450	52.1	103	3202	5.139	50.6	105	3358	5.853	49.6	106
80	8.29	2763	3.476	58.0	100	2933	4.134	56.8	101	3093	4.832	55.4	103	3249	5.557	53.9	104	3401	6.297	52.5	106
90	9.32	2854	3.866	58.8	101	3018	4.551	58.4	102	3166	5.223	57.6	103	3312	5.957	56.4	104	3458	6.761	55.4	106
100	10.36	2945	4.288	59.2	101	3116	5.046	59.0	103	3260	5.755	58.6	104	3398	6.488	58.2	105	3536	7.280	57.4	106
110	11.39	3030	4.780	59.2	104	3201	5.536	59.3	104	3352	6.296	59.1	105	3496	7.115	58.8	106				
120	12.43	3120	5.309	59.0	106	3286	6.125	59.2	106	3441	6.903	59.3	106								
130	13.46	3230	5.812	58.8	108	3373	6.709	59.0	108	3520	7.548	59.1	108								
140	14.50	3351	6.375	58.4	110	3477	7.276	58.8	110												
150	15.54	3471	6.973	57.8	111																

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GBP-S series

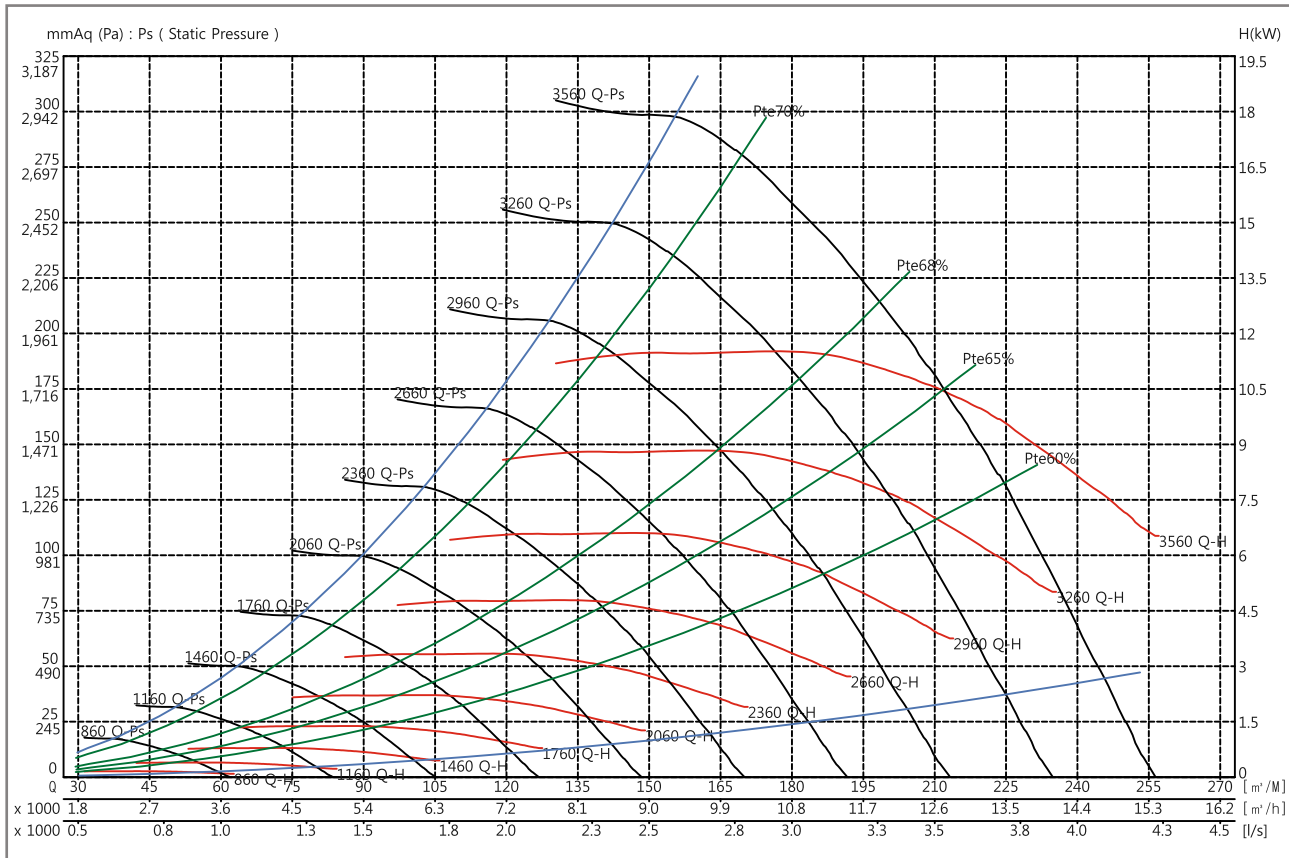
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GBP-3S

FEG 75

Wheel dia	457 mm	Tip Speed = 0.02393 * rpm	Outlet Dim'	132 * 1436	Outlet Area	0.1896 m ²	Class 1	2507 rpm	Class 2	4179 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	25 mmAq (245Pa)				50 mmAq (490 Pa)				75 mmAq (735 Pa)				100 mmAq (981 Pa)				125 mmAq (1226 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
60	5.28	1143	0.376	69.2	83																
75	6.59	1293	0.512	66.6	88	1535	0.918	70.2	91												
90	7.91	1458	0.685	62.3	92	1664	1.146	68.7	93	1863	1.641	70.4	96	2065	2.226	68.4	101				
105	9.23	1642	0.905	56.9	96	1816	1.420	66.6	96	1989	1.982	69.2	97	2156	2.546	70.3	100	2326	3.186	69.7	103
120	10.55	1826	1.184	53.4	99	1982	1.760	63.8	99	2136	2.369	67.8	99	2286	3.016	69.2	100	2437	3.681	70.1	102
135	11.87	2018	1.524	48.9	101	2156	2.148	60.4	102	2295	2.815	65.6	102	2430	3.516	68.1	102	2561	4.235	69.2	103
150	13.19	2215	1.953	45.7	104	2343	2.627	57.3	104	2456	3.318	63.1	104	2582	4.073	66.4	104	2703	4.852	68.2	105
165	14.51	2415	2.450	42.3	106	2527	3.168	54.1	106	2640	3.946	60.4	106	2749	4.754	64.4	107	2861	5.575	66.8	107
180	15.83	2610	3.013	39.6	108	2724	3.822	50.8	108	2815	4.599	57.9	108	2916	5.465	62.1	109	3026	6.384	64.8	109
195	17.15	2807	3.688	37.6	110	2910	4.546	48.4	110	3003	5.386	55.2	110	3093	6.309	60.1	110	3190	7.250	62.9	110
210	18.46	3021	4.515	35.6	111	3103	5.367	45.7	111	3196	6.300	52.6	112	3278	7.200	57.3	112	3361	8.236	61.1	112
225	19.78	3218	5.380	34.0	113	3308	6.329	42.9	113	3389	7.292	49.9	113	3463	8.271	55.2	113	3547	9.342	58.9	114

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 _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
60	5.28																				
75	6.59																				
90	7.91																				
105	9.23																				
120	10.55	2578	4.348	70.2	105	2732	5.165	68.4	107												
135	11.87	2693	4.971	69.9	104	2821	5.709	70.4	106	2955	6.549	69.9	108	3096	7.528	68.2	110				
150	13.19	2827	5.686	69.1	105	2946	6.505	69.6	106	3063	7.324	70.3	108	3176	8.154	70.4	109	3294	9.079	69.8	111
165	14.51	2969	6.426	68.1	107	3082	7.345	68.9	107	3191	8.251	69.4	108	3295	9.119	69.9	109	3401	10.04	70.4	110
180	15.83	3126	7.280	66.8	109	3229	8.235	67.9	109	3324	9.185	68.7	109	3427	10.19	69.2	109	3521	11.13	69.6	110
195	17.15	3280	8.185	65.2	111	3381	9.218	66.8	111	3468	10.19	67.9	111	3560	11.21	68.5	111				
210	18.46	3453	9.270	63.4	112	3537	10.28	65.2	112												
225	19.78																				

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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 appurtenance(Accessories).

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GBP-S series

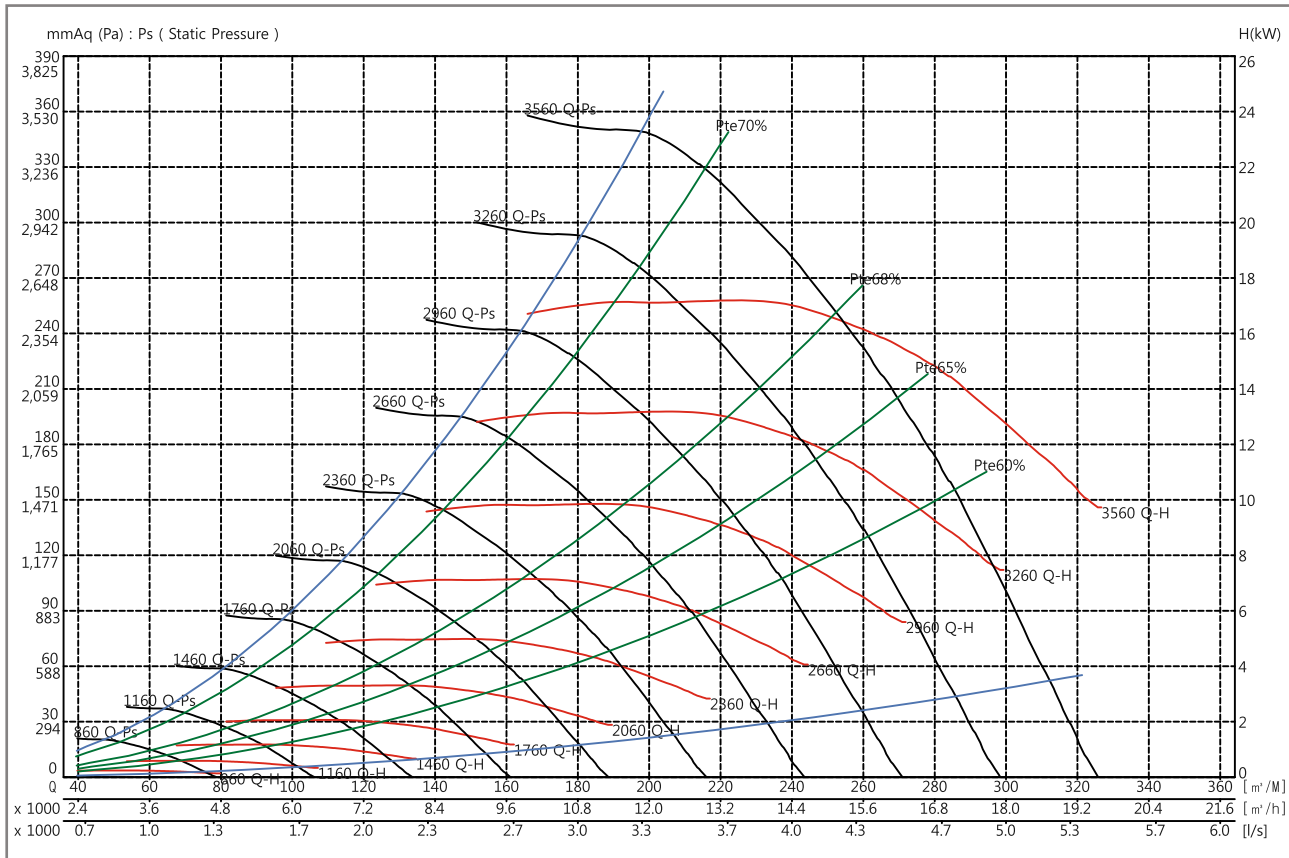
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GBP-3.25S

FEG 75

Wheel dia	495 mm	Tip Speed = 0.02592 * rpm	Outlet Dim'	143 * 1555	Outlet Area	0.2224 m ²	Class 1	2315 rpm	Class 2	3858 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	30 mmAq (294 Pa)				60 mmAq (588 Pa)				90 mmAq (441 Pa)				120 mmAq (1177 Pa)				150 mmAq (1471 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
80	6.00	1178	0.609	68.9	87	1473	1.206	66.9	96												
100	7.50	1337	0.828	65.5	91	1573	1.473	69.9	94	1806	2.223	67.9	100								
120	8.99	1521	1.134	61.0	96	1715	1.854	68.3	96	1911	2.644	70.1	99	2101	3.499	69.6	103				
140	10.49	1711	1.504	56.3	99	1881	2.320	65.9	100	2052	3.212	68.7	100	2218	4.138	69.9	102	2375	5.065	70.3	105
160	11.99	1909	1.970	51.3	102	2054	2.877	62.8	103	2211	3.860	67.1	103	2356	4.885	68.9	103	2501	5.933	69.8	105
180	13.49	2115	2.573	47.4	105	2242	3.540	59.4	105	2372	4.578	64.8	105	2512	5.713	67.5	106	2636	6.845	68.9	106
200	14.99	2317	3.279	44.0	107	2434	4.334	56.3	107	2553	5.467	62.1	108	2673	6.655	65.7	108	2791	7.874	67.7	108
220	16.49	2522	4.116	41.2	109	2636	5.269	52.6	110	2741	6.472	59.4	110	2850	7.770	63.4	110	2955	9.044	66.0	110
240	17.99	2737	5.141	38.7	111	2833	6.352	49.9	112	2932	7.647	56.9	112	3029	9.005	61.2	112	3128	10.39	64.1	112
260	19.49	2943	6.304	37.0	113	3042	7.626	46.9	113	3127	8.955	54.1	114	3217	10.38	58.8	114	3306	11.88	62.0	114
280	20.99	3157	7.628	34.8	115	3245	9.052	44.6	115	3334	10.52	51.3	115	3417	12.00	56.3	115	3490	13.52	60.1	116
300	22.49	3372	9.195	33.7	116	3451	10.66	42.3	117	3535	12.23	48.9	117								

Air flow (m³/min)	Outlet Vel (m/sec)	180 mmAq (1765 Pa)				210 mmAq (2059 Pa)				240 mmAq (2354 Pa)				270 mmAq (2648 Pa)				300 mmAq (2942 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
80	6.00																				
100	7.50																				
120	8.99																				
140	10.49	2554	6.297	67.6	108																
160	11.99	2642	6.993	70.4	107	2784	8.160	69.8	109	2947	9.247	66.9	112								
180	13.49	2772	8.077	69.5	107	2896	9.226	70.3	109	3017	10.17	70.4	111	3150	11.83	69.5	112	3295	13.58	66.9	114
200	14.99	2909	9.172	68.7	108	3026	10.49	69.4	109	3143	11.34	69.9	110	3253	13.10	70.4	112	3367	14.50	70.4	113
220	16.49	3067	10.43	67.6	110	3172	11.85	68.5	111	3278	12.78	69.2	111	3385	14.75	69.6	112	3489	16.19	70.1	113
240	17.99	3229	11.84	66.1	112	3327	13.31	67.5	112	3428	14.28	68.3	113	3523	16.42	69.0	113				
260	19.49	3400	13.39	64.3	114	3488	14.93	66.1	114												
280	20.99																				
300	22.49																				

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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 appurtenance(Accessories).

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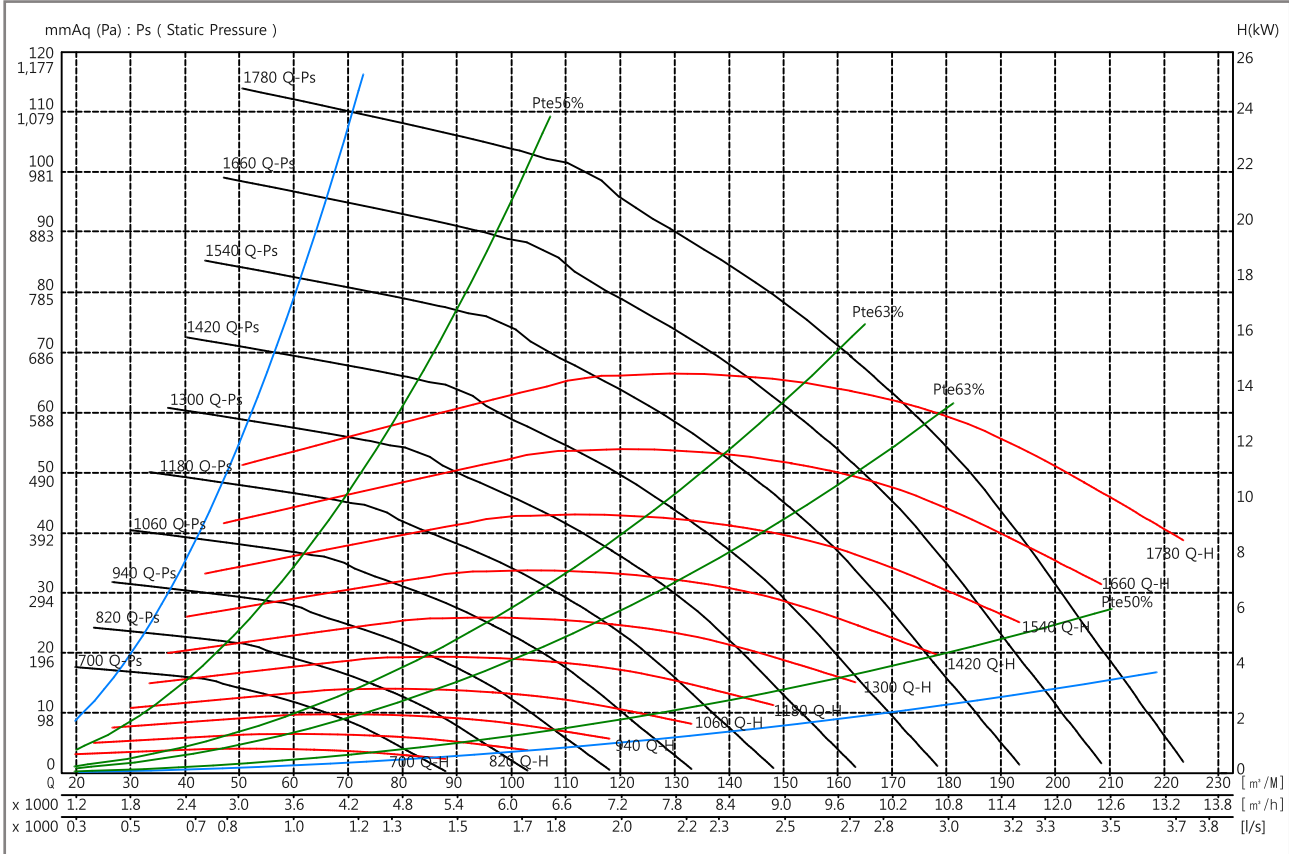
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GBP-3.5S

FEG 67

Wheel dia	533 mm	Tip Speed = 0.027908 * rpm	Outlet Dim'	154 * 1674	Outlet Area	0.2578 m ²	Class 1	2150 rpm	Class 2	3583 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	10 mmAq (98 Pa)				20 mmAq (196 Pa)				30 mmAq (294 Pa)				40 mmAq (392 Pa)				50 mmAq (490 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
70	4.53	719	0.204	63.0	73	874	0.392	62.2	76	1009	0.603	59.4	79	1120	0.814	57.7	81	1236	1.058	55.5	84
80	5.17	783	0.249	61.3	76	920	0.447	63.2	78	1047	0.676	61.2	80	1160	0.918	59.3	82	1257	1.155	58.0	84
90	5.82	843	0.299	59.3	79	970	0.51	63.4	80	1089	0.751	62.7	81	1198	1.014	60.8	83	1300	1.29	59.3	85
100	6.47	914	0.364	56.9	81	1027	0.588	62.8	82	1134	0.835	63.3	83	1242	1.121	62.4	84	1340	1.417	60.8	86
110	7.11	982	0.434	54.0	83	1084	0.671	61.9	84	1186	0.936	63.4	84	1285	1.226	63.1	85	1380	1.537	62.1	87
120	7.76	1053	0.519	51.6	85	1150	0.774	60.5	86	1244	1.05	63.0	86	1333	1.344	63.4	87	1422	1.665	62.9	88
130	8.40	1132	0.622	49.2	87	1217	0.885	58.6	87	1303	1.176	62.2	88	1389	1.489	63.3	88	1473	1.825	63.3	89
140	9.05	1204	0.728	47.0	89	1282	1.004	56.9	89	1362	1.306	61.3	89	1443	1.635	62.9	90	1524	1.986	63.4	90
150	9.70	1273	0.851	45.8	90	1349	1.142	55.2	91	1427	1.456	59.8	91	1503	1.805	62.2	91	1578	2.166	63.2	92
160	10.34	1349	0.982	43.3	92	1427	1.313	53.1	92	1493	1.632	58.6	92	1561	1.976	61.4	93	1635	2.362	62.7	93
170	10.99	1424	1.14	42.1	93	1492	1.471	51.6	93	1557	1.81	57.2	94	1626	2.185	60.5	94	1692	2.563	62.1	94
180	11.64	1498	1.31	41.1	94	1568	1.676	50.2	95	1629	2.02	55.5	95	1690	2.391	59.1	95	1755	2.797	61.3	96

Air flow (m³/min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 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
70	4.53	1342	1.311	53.3	86	1440	1.581	51.3	87	1532	1.869	49.7	89	1619	2.168	48.3	90	1701	2.474	46.9	91
80	5.17	1361	1.43	56.4	86	1457	1.714	54.6	88	1548	2.006	53.0	89	1634	2.316	51.5	90	1717	2.649	50.4	92
90	5.82	1387	1.56	58.4	87	1476	1.846	57.2	88	1566	2.161	55.8	90	1651	2.485	54.5	91	1732	2.816	53.2	92
100	6.47	1430	1.719	59.5	88	1510	2.017	58.7	89	1587	2.323	57.9	90	1670	2.658	56.8	91	1749	3.006	55.6	92
110	7.11	1468	1.862	60.8	88	1552	2.199	59.7	90	1628	2.533	58.9	91	1699	2.868	58.4	92	1771	3.215	57.7	93
120	7.76	1508	2.008	62.0	89	1591	2.372	61.0	90	1668	2.731	60.0	92	1739	3.09	59.2	93				
130	8.40	1550	2.162	62.8	90	1633	2.547	62.1	91	1708	2.931	61.2	92	1778	3.314	60.3	93				
140	9.05	1601	2.35	63.3	91	1674	2.724	62.8	92	1749	3.132	62.2	93								
150	9.70	1651	2.541	63.4	92	1721	2.928	63.2	93												
160	10.34	1701	2.737	63.3	94	1773	3.158	63.4	94												
170	10.99	1759	2.971	63.0	95																
180	11.64																				

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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(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).

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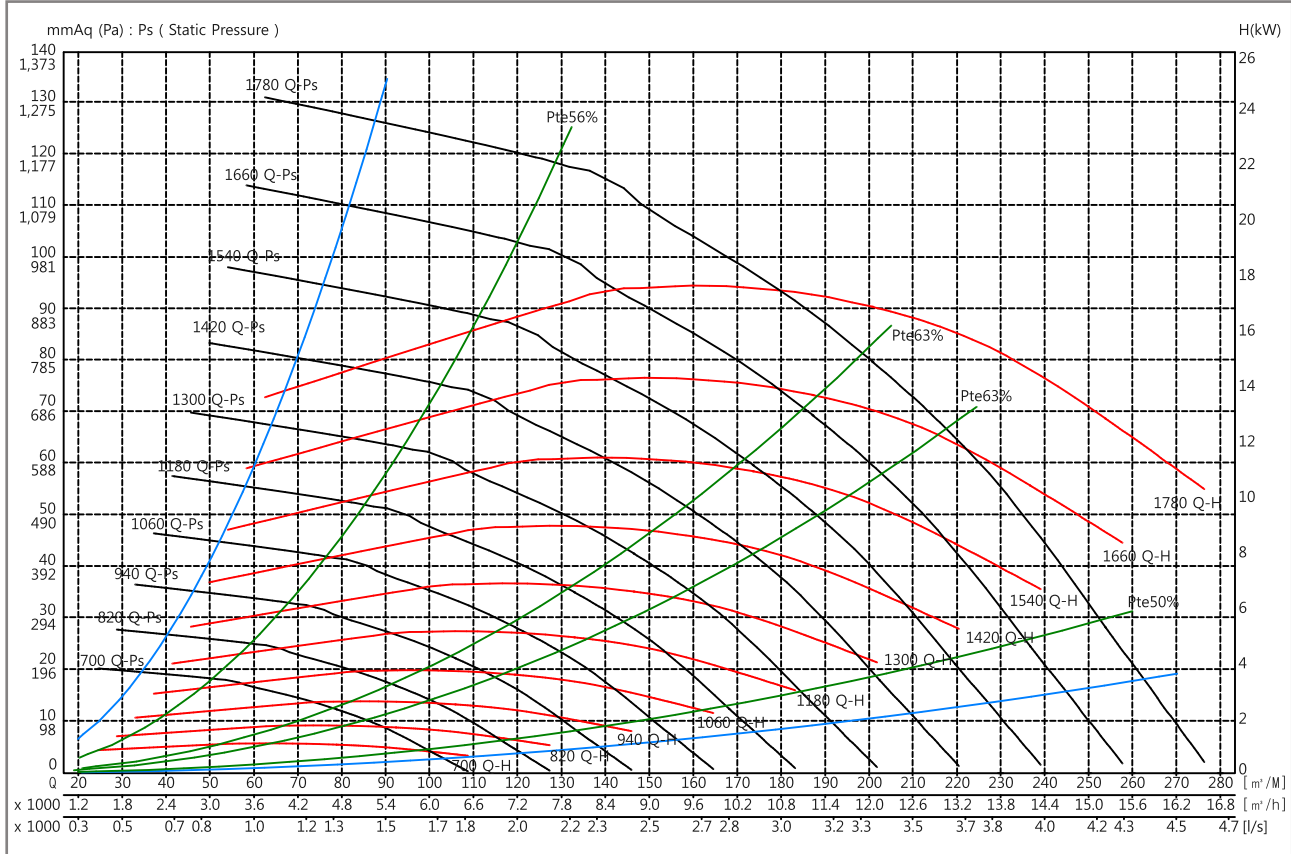
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GBP-3.75S

FEG 67

Wheel dia	572 mm	Tip Speed = 0.02995 * rpm	Outlet Dim'	165 * 1797	Outlet Area	0.2965 m ²	Class 1	2003 rpm	Class 2	3339 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	10 mmAq (98 Pa)				20 mmAq (196 Pa)				30 mmAq (294 Pa)				40 mmAq (392 Pa)				50 mmAq (490 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
100	5.62	771	0.329	59.8	78	890	0.566	63.4	79	1002	0.838	62.4	81	1105	1.13	60.3	83	1199	1.441	58.9	85
110	6.18	823	0.385	57.8	80	931	0.634	63.2	81	1037	0.917	63.1	82	1138	1.231	61.7	84	1231	1.563	60.1	86
120	6.75	880	0.452	55.2	83	981	0.718	62.4	83	1078	1.01	63.4	84	1173	1.338	62.7	85	1263	1.685	61.4	87
130	7.31	938	0.532	53.1	85	1027	0.805	61.5	85	1121	1.114	63.3	85	1212	1.456	63.2	86	1295	1.808	62.4	88
140	7.87	994	0.62	51.6	86	1078	0.903	60.3	86	1164	1.224	62.9	87	1252	1.581	63.4	87	1334	1.954	63.1	89
150	8.43	1056	0.721	49.2	88	1135	1.022	58.6	88	1214	1.354	62.2	88	1294	1.716	63.3	89	1373	2.102	63.3	89
160	8.99	1113	0.824	47.3	89	1186	1.139	57.2	89	1263	1.489	61.4	90	1338	1.862	63.0	90	1413	2.261	63.4	91
170	9.56	1174	0.95	45.8	90	1245	1.283	55.5	91	1316	1.642	60.3	91	1387	2.031	62.4	91	1456	2.435	63.3	92
180	10.12	1229	1.071	44.6	92	1299	1.425	54.0	92	1368	1.803	59.1	92	1435	2.201	61.7	93	1502	2.625	62.9	93
190	10.68	1289	1.219	43.3	93	1358	1.591	52.1	93	1425	1.992	57.8	93	1482	2.383	61.0	94	1550	2.832	62.4	94
200	11.24	1354	1.394	42.1	94	1419	1.78	50.6	94	1478	2.172	56.4	95	1537	2.606	60.0	95	1595	3.04	61.9	95
210	11.80	1411	1.561	41.1	95	1479	1.984	49.4	95	1536	2.399	55.2	96	1590	2.826	59.0	96	1648	3.284	61.1	96

Air flow (m³/min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 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
100	5.62	1281	1.736	57.9	87	1370	2.074	56.4	88	1454	2.434	55.0	90	1534	2.809	53.7	91	1609	3.184	52.3	92
110	6.18	1314	1.894	58.9	88	1389	2.225	58.2	89	1469	2.587	57.0	90	1548	2.968	55.8	91	1623	3.37	54.6	93
120	6.75	1348	2.054	60.1	88	1425	2.418	59.1	90	1492	2.767	58.4	91	1564	3.148	57.5	92	1638	3.559	56.5	93
130	7.31	1378	2.191	61.2	89	1456	2.589	60.1	90	1526	2.972	59.1	91	1592	3.366	58.6	92	1656	3.76	58.0	93
140	7.87	1412	2.343	62.2	90	1489	2.763	61.2	91	1559	3.181	60.2	92	1628	3.612	59.4	93	1689	4.023	58.8	94
150	8.43	1447	2.504	62.9	90	1521	2.935	62.1	92	1591	3.375	61.2	93	1657	3.816	60.3	94	1722	4.279	59.5	94
160	8.99	1485	2.675	63.2	91	1556	3.119	62.8	92	1625	3.576	62.1	93	1691	4.047	61.3	94	1753	4.52	60.4	95
170	9.56	1525	2.862	63.4	92	1594	3.319	63.2	93	1660	3.787	62.7	94	1725	4.277	62.1	95				
180	10.12	1567	3.062	63.4	93	1634	3.534	63.4	94	1696	4.011	63.1	95	1760	4.519	62.7	95				
190	10.68	1611	3.28	63.2	95	1677	3.771	63.4	95	1736	4.256	63.3	95								
200	11.24	1659	3.526	62.8	96	1719	4.014	63.3	96	1778	4.516	63.4	96								
210	11.80	1704	3.764	62.4	97	1762	4.264	63.1	97												

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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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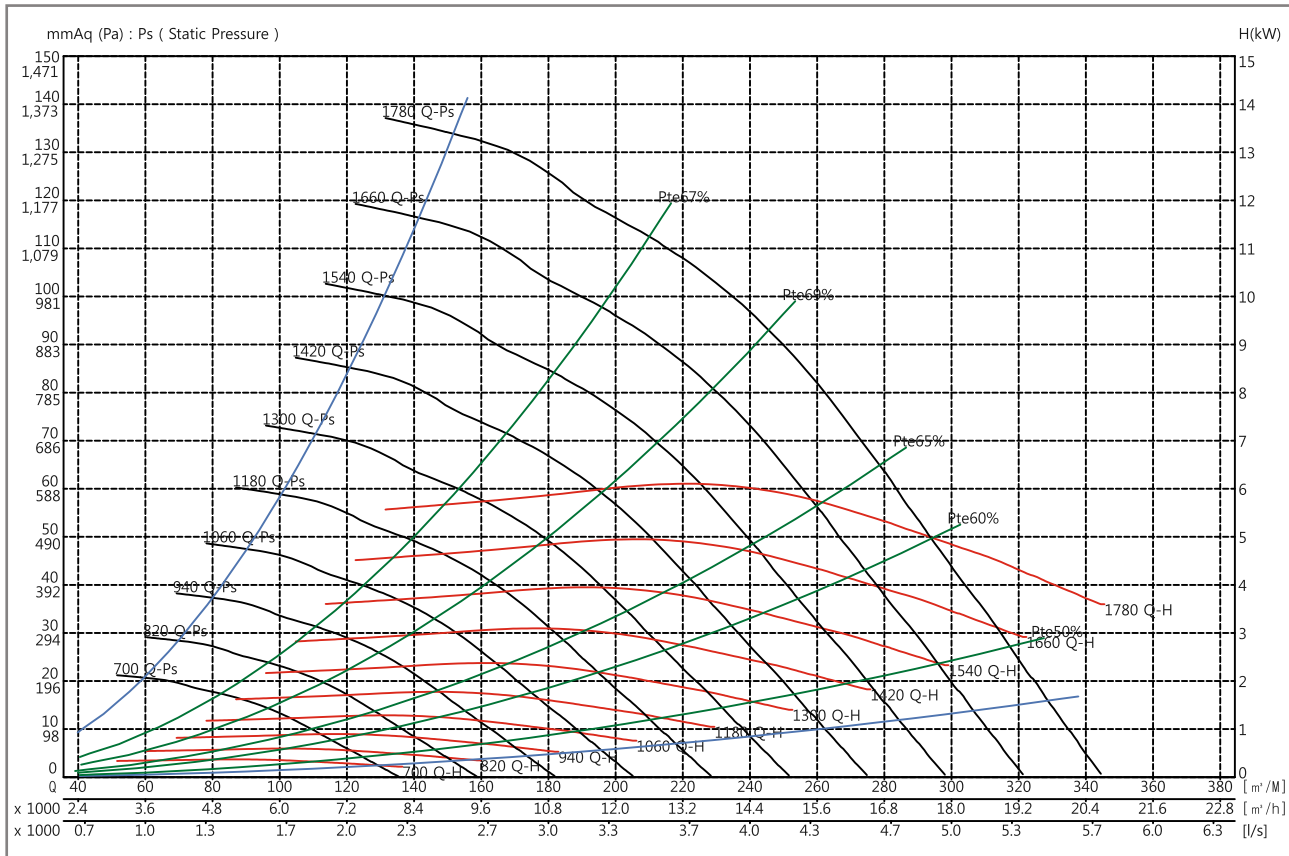
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GBP-4S

FEG 70

Wheel dia	609 mm	Tip Speed = 0.03189 * rpm	Outlet Dim'	176 * 1913	Outlet Area	0.3367 m ²	Class 1	1882 rpm	Class 2	3136 rpm	Not Applicable
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Air flow (m³/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 _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
80	3.96	1212	0.111	59.0	76	1535	0.213	58.4	79	1802	0.341	55.4	83	2039	0.481	51.9	87				
100	4.95	1318	0.137	58.1	81	1625	0.258	59.3	81	1870	0.386	58.2	84	2088	0.531	55.8	87	2300	0.702	53.7	89
120	5.94	1428	0.169	56.4	84	1708	0.311	59.0	85	1961	0.450	59.2	85	2169	0.603	58.4	87	2362	0.772	57.0	90
140	6.93	1569	0.218	53.8	86	1816	0.364	58.6	88	2040	0.520	59.2	88	2252	0.681	59.1	89	2449	0.871	58.6	90
160	7.92	1712	0.271	49.7	89	1918	0.419	57.7	90	2124	0.597	59.0	91	2339	0.781	59.2	91	2531	0.969	59.2	91
180	8.91	1855	0.334	46.5	91	2039	0.493	56.4	92	2243	0.684	58.5	94	2425	0.891	59.0	93	2615	1.092	59.2	93
200	9.90	2003	0.411	43.4	93	2176	0.580	53.8	94	2349	0.770	57.7	95	2523	0.986	58.7	96	2693	1.218	59.0	96
220	10.89	2158	0.501	39.8	95	2312	0.678	51.4	96	2469	0.876	56.4	97	2634	1.101	58.3	98	2794	1.348	58.8	98
240	11.88	2315	0.607	37.3	97	2458	0.796	49.1	97	2598	1.001	54.8	98	2755	1.235	57.4	99	2896	1.473	58.5	100
260	12.87	2456	0.720	36.5	98	2618	0.940	46.5	99	2745	1.147	52.4	100	2860	1.362	56.4	100	3004	1.617	57.9	101
280	13.86	2594	0.834	34.3	100	2750	1.077	45.0	100	2886	1.304	50.3	101	2997	1.536	54.8	102	3117	1.781	57.1	102
300	14.85	2765	0.991	32.1	102	2904	1.237	41.7	102	3022	1.480	49.1	102	3136	1.729	53.4	103	3258	1.992	55.5	103

Air flow (m³/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 _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL
80	3.96																				
100	4.95																				
120	5.94	1300	2.243	63.1	90	1378	2.647	60.5	92												
140	6.93	1344	2.543	65.5	91	1412	2.917	65.0	93	1480	3.325	63.8	94	1548	3.775	62.1	95	1616	4.271	60.5	96
160	7.92	1392	2.894	66.7	93	1463	3.315	65.8	94	1528	3.746	65.5	95	1586	4.153	65.2	96	1646	4.606	64.6	97
180	8.91	1441	3.240	67.9	94	1508	3.705	67.2	95	1574	4.183	66.5	96	1637	4.662	65.9	97	1696	5.139	65.5	98
200	9.90	1500	3.617	68.5	95	1563	4.122	68.1	96	1622	4.622	67.6	97	1684	5.154	67.2	98	1742	5.675	66.6	99
220	10.89	1569	4.045	68.5	97	1624	4.560	68.6	97	1679	5.099	68.3	98	1735	5.656	68.0	99				
240	11.88	1644	4.527	68.0	98	1696	5.076	68.5	99	1746	5.634	68.6	99								
260	12.87	1725	5.080	66.9	100	1771	5.639	67.8	100												
280	13.86																				
300	14.85																				

- 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 outlet PWL(LwoA(dBA)) 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 appurtenance(Accessories).

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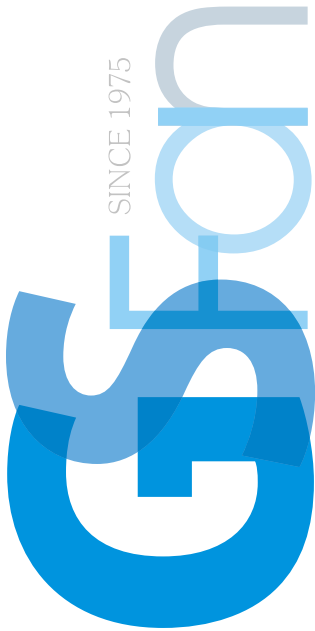
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