

PLENUM FAN

GBP-S series

GS

SINCE 1975

www.gsfan.co.kr

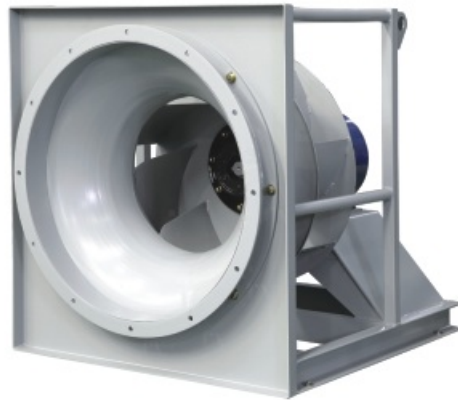
PLENUM FAN GBP-S & GAP-S series

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.

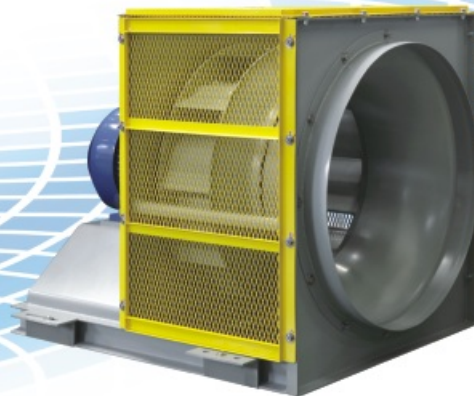
This blower is a small, compact size do not have the housing. In addition, direct expression in motor belt replacement and maintenance cost is low and it is possible to reduce power ratio for the belt losses. General buildings, is suitable for the air conditioning system, such as a building. Can be manufactured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



**GBP MODEL IMPELLER
(BACKWARD CURVE)**



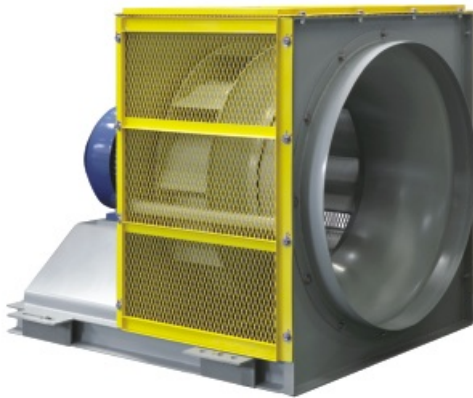
**GAP MODEL IMPELLER
(AIR FOIL)**



GBP-S & GAP-S series

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PLENUM FAN



All models have the AMCA Certified in preparation.
Preparing a high-efficiency equipment certification
in order to have confidence in the energy saving.



GAP-4.75S & GAP- 2.5S for the entire model to have
obtained the AMCA Seal certified performance and sound.

GAP-2.5S & GAP-4.75S

GBP all models are preparing for the AMCA certified
performance and sound.

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.

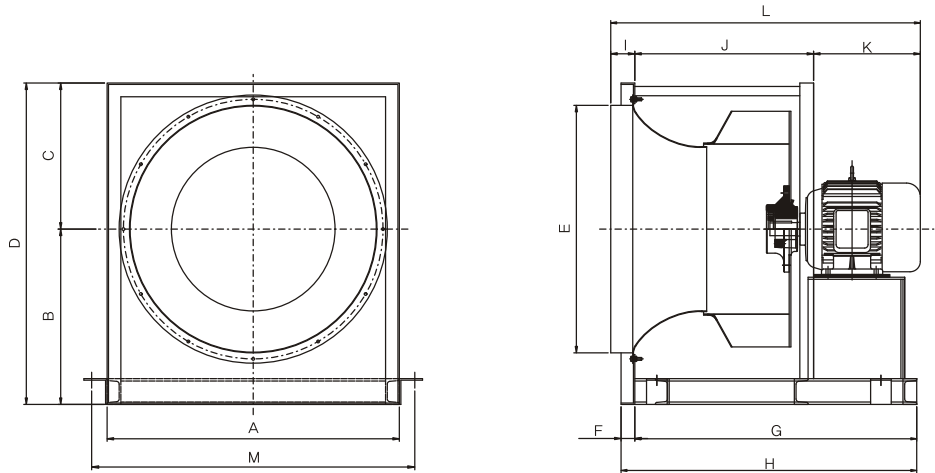
4. Protection guards

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	720	450	360	810	600	30	750	780	70	390	405	865	840	10HP-4P	3HP-6P	165
	#4	800	480	400	880	640	40	810	850	70	470	360	900	920	10HP-4P	3HP-6P	186

※상기 FAN 중량은 모터가 제외된 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	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

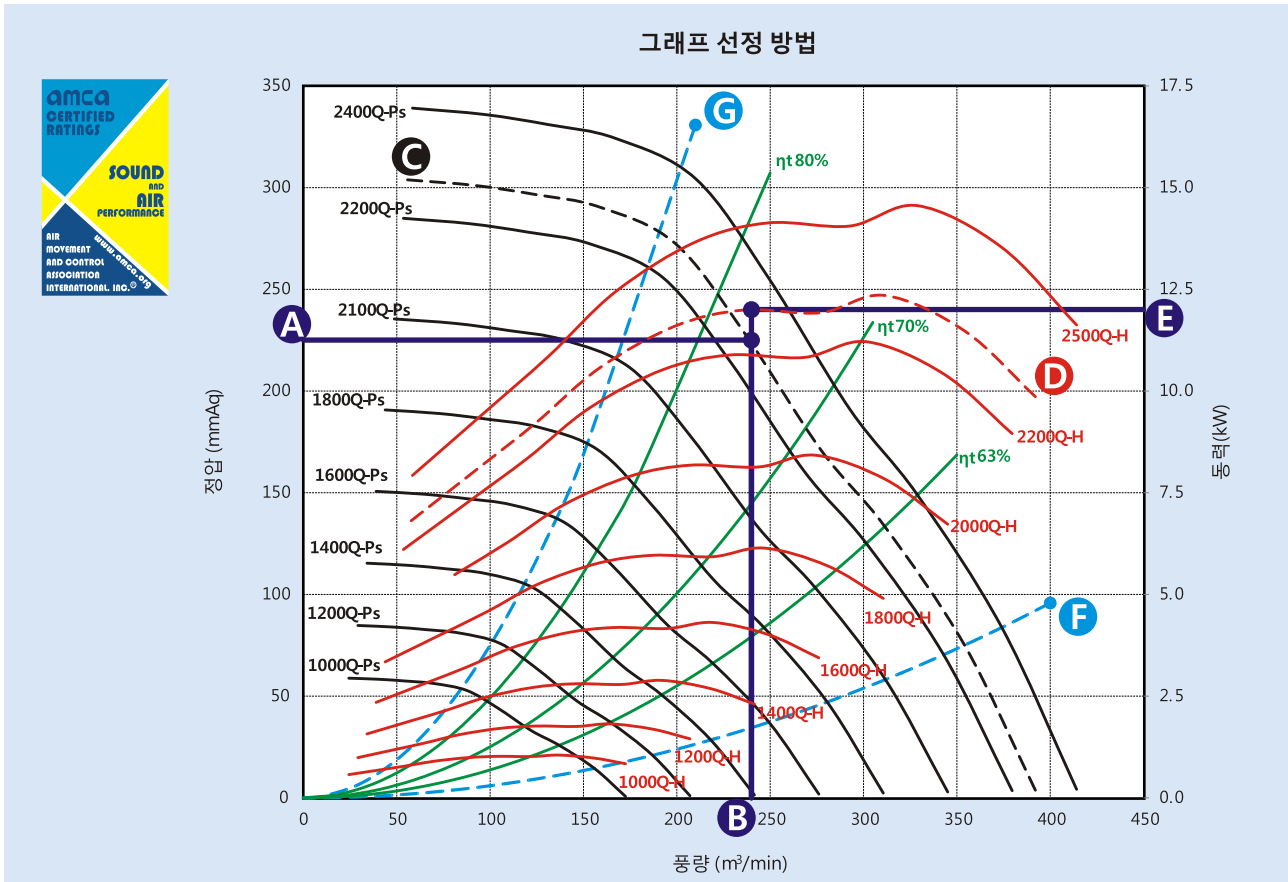
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※Motor weight was not included in the weight of the fan.

※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)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)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.

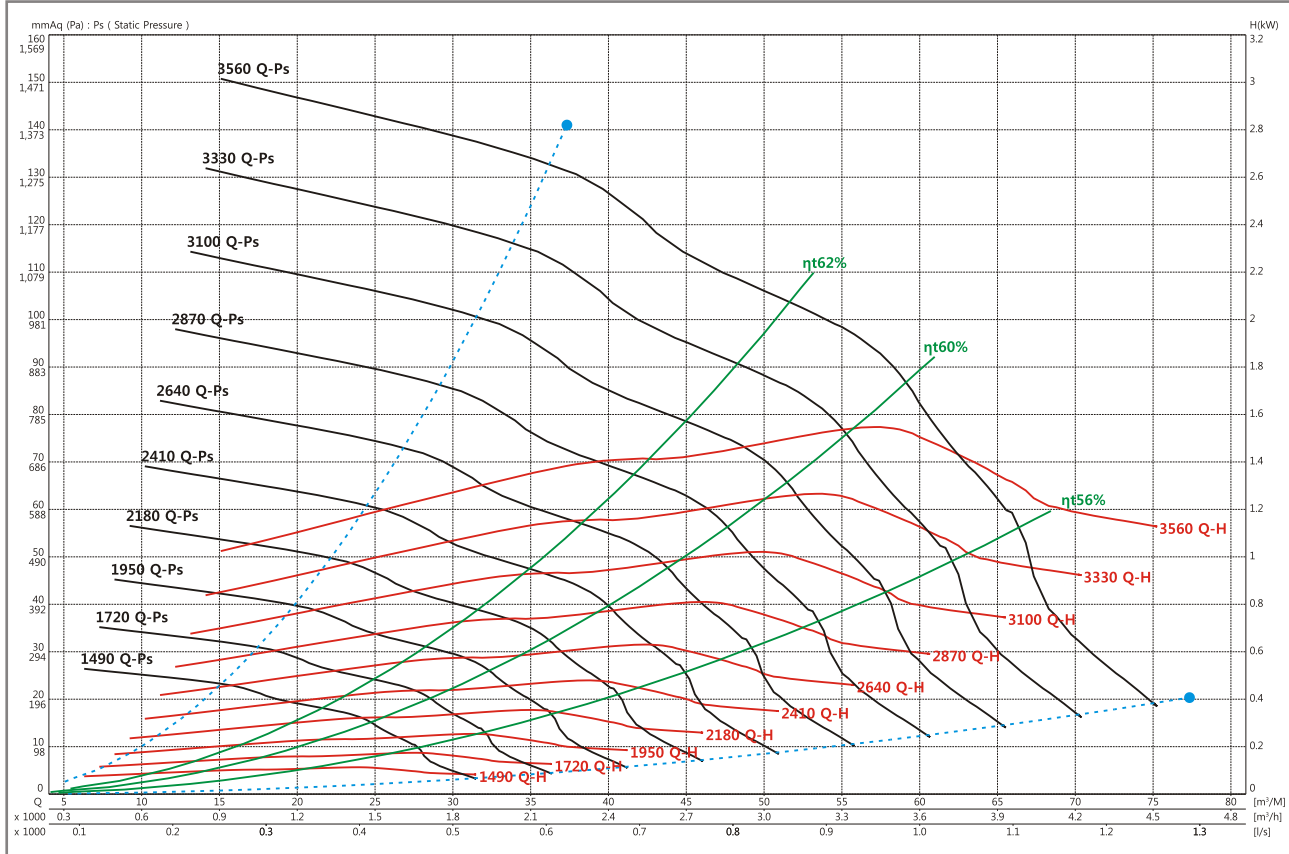
GBP-S series

PLENUM FAN
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GBP-2S

FEG 71

Wheel dia	304 mm	Tip Speed = 0.015917 * 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)	10 mmAq (98 Pa)				20 mmAq (196 Pa)				30 mmAq (294 Pa)				40 mmAq (392 Pa)				50 mmAq (490 Pa)			
		rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
22	4.36					1550	0.12	61.8		1795	0.18	61.1		2002	0.25	60.5		2167	0.31	58.8	
25	4.96					1610	0.14	61.7		1865	0.21	61.6		2057	0.27	61.0		2239	0.35	60.5	
28	5.55	1504	0.10	56.8		1689	0.16	60.4		1925	0.24	61.8		2144	0.31	61.5		2300	0.38	61.0	
31	6.15	1629	0.12	52.1		1803	0.19	58.4		1986	0.27	61.5		2193	0.35	61.8		2377	0.43	61.4	
34	6.74	1786	0.15	46.0		1925	0.22	57.5		2064	0.30	60.4		2243	0.38	61.8		2440	0.47	61.8	
37	7.34	1902	0.18	43.1		2024	0.25	57.3		2186	0.34	58.4		2329	0.43	61.1		2494	0.52	61.8	
40	7.93	2015	0.22	43.1		2148	0.29	56.8		2284	0.38	57.8		2411	0.48	60.4		2564	0.58	61.5	
43	8.53	2123	0.25	40.9		2265	0.33	52.1		2396	0.43	57.5		2539	0.54	58.4		2647	0.63	60.4	
46	9.12	2256	0.29	38.9		2416	0.38	46.0		2515	0.47	56.8		2638	0.59	57.8		2750	0.70	59.4	
49	9.72	2371	0.34	37.2		2567	0.45	46.0		2629	0.52	54.2		2729	0.63	57.5		2851	0.76	58.4	
52	10.31	2468	0.38	36.5		2673	0.51	43.7		2774	0.60	52.1		2843	0.69	57.3		2952	0.82	57.8	
55	10.91	2606	0.44	35.3		2773	0.56	43.1		2888	0.67	49.9		2952	0.75	56.5		3063	0.89	57.5	

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	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
22	4.36																				
25	4.96	2407	0.43	59.2																	
28	5.55	2452	0.46	60.5		2610	0.55	59.7		2757	0.64	58.8									
31	6.15	2539	0.51	61.1		2673	0.60	60.7		2816	0.69	60.3		2948	0.78	59.2		3051	0.86	58.8	
34	6.74	2606	0.56	61.4		2759	0.66	61.1		2887	0.75	61.0		3004	0.84	60.5		3126	0.94	59.8	
37	7.34	2673	0.62	61.8		2834	0.73	61.5		2970	0.82	61.2		3086	0.92	61.0		3194	1.02	60.8	
40	7.93	2722	0.67	61.8		2887	0.79	61.8		3032	0.89	61.5		3168	1.00	61.3		3278	1.10	61.1	
43	8.53	2775	0.73	61.7		2940	0.85	61.8		3086	0.96	61.8		3230	1.08	61.6		3347	1.18	61.3	
46	9.12	2854	0.80	61.1		2997	0.91	61.7		3143	1.04	61.8		3282	1.16	61.8		3405	1.27	61.6	
49	9.72	2952	0.87	60.2		3079	1.00	61.1		3204	1.12	61.7		3334	1.24	61.8		3467	1.37	61.8	
52	10.31	3069	0.95	58.6		3152	1.07	60.4		3269	1.20	61.2		3398	1.33	61.7		3514	1.45	61.8	
55	10.91	3182	1.04	57.9		3254	1.16	59.4		3370	1.31	60.4		3458	1.42	61.4		3560	1.53	61.7	

- Power rating kW does not include V-belt drive & motor efficiency losses.

- Performance shown is for AMCA 210 Fig-16 & Installation type C. Performance ratings do not include the effects of appurtenances in the airstream.

2015Jan-R10.0

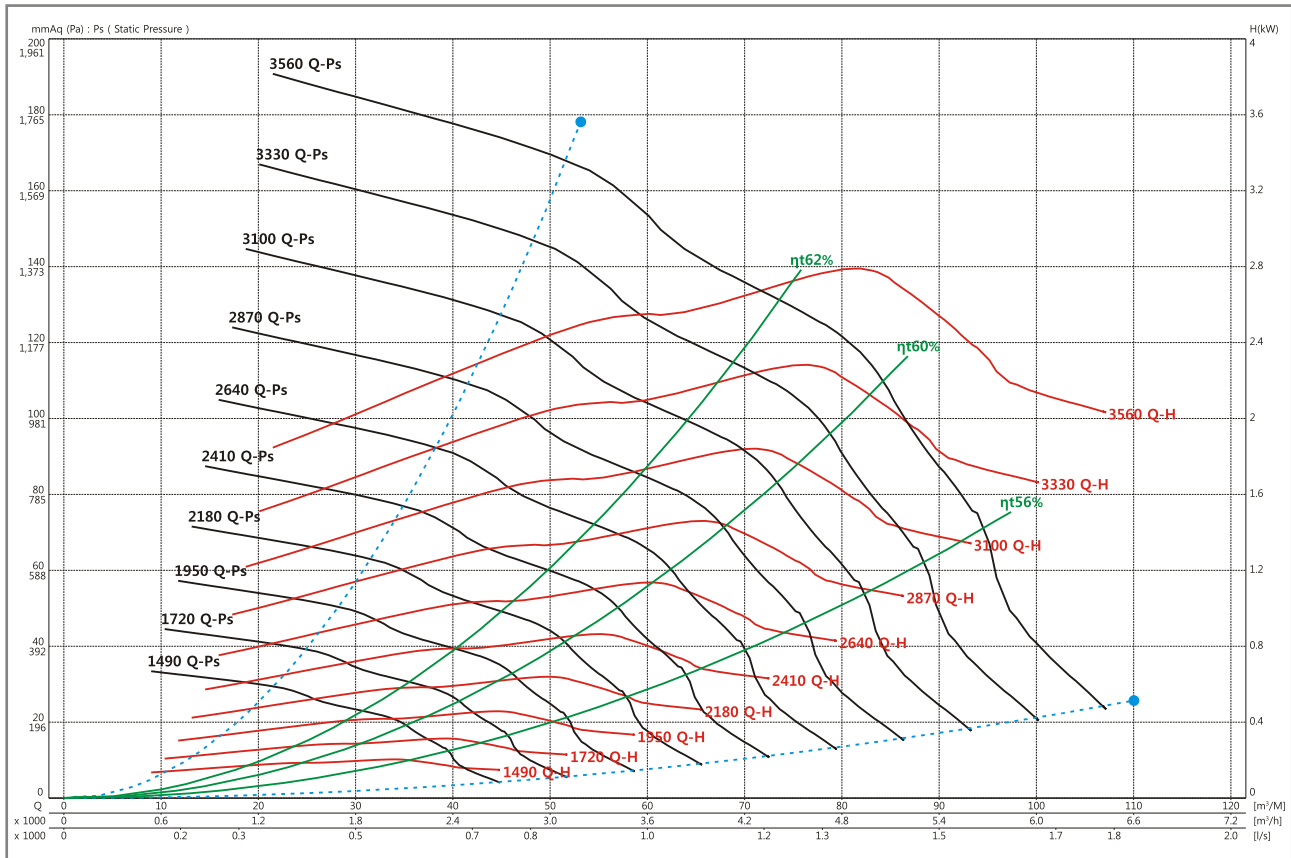
GBP-S series

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GBP-2.25S

FEG 71

Wheel dia	342 mm	Tip Speed = 0.017907 * 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)	10 mmAq (98 Pa)				20 mmAq (196 Pa)				30 mmAq (294 Pa)				40 mmAq (392 Pa)				50 mmAq (490 Pa)			
		rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
30	4.70									1634	0.25	61.4		1815	0.34	61.0		1960	0.42	59.7	
35	5.48					1497	0.21	60.4		1697	0.29	61.8		1887	0.38	61.4		2044	0.48	61.0	
40	6.27	1490	0.17	52.1		1627	0.25	58.4		1769	0.34	61.5		1958	0.45	61.8		2130	0.56	61.5	
45	7.05	1625	0.21	46.0		1761	0.30	57.3		1894	0.41	59.4		2034	0.52	61.6		2189	0.62	61.8	
50	7.83	1769	0.26	42.5		1885	0.35	56.8		2030	0.48	57.8		2118	0.58	60.4		2260	0.71	61.7	
55	8.62	1907	0.32	40.4		2033	0.42	52.1		2151	0.55	57.4		2267	0.69	58.4		2368	0.82	60.4	
60	9.40	2042	0.39	38.4		2213	0.53	46.9		2264	0.61	56.5		2392	0.77	57.5		2488	0.93	59.1	
65	10.18	2191	0.48	36.5		2347	0.62	45.1		2442	0.74	52.1		2501	0.85	57.3		2621	1.04	57.8	
70	10.97	2329	0.57	35.3		2484	0.72	42.5		2581	0.86	49.9		2638	0.96	56.5		2737	1.14	57.5	
75	11.75	2496	0.70	35.3		2639	0.86	40.9		2755	1.02	46.9		2814	1.13	52.1		2878	1.27	56.8	
80	12.54					2773	0.99	39.4		2888	1.16	45.1		2963	1.29	49.9		3013	1.40	54.2	
85	13.32					2889	1.11	38.4		3019	1.31	43.1		3134	1.50	46.9		3183	1.63	52.1	

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	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
30	4.70																				
35	5.48	2180	0.58	60.5		2314	0.68	59.2													
40	6.27	2280	0.67	61.2		2401	0.78	61.0		2517	0.89	60.5		2630	1.01	59.7		2753	1.14	58.8	
45	7.05	2344	0.75	61.6		2483	0.87	61.3		2606	1.00	61.1		2712	1.13	60.9		2814	1.25	60.5	
50	7.83	2414	0.84	61.8		2550	0.97	61.7		2688	1.12	61.5		2800	1.24	61.2		2903	1.38	61.1	
55	8.62	2485	0.94	61.6		2613	1.07	61.8		2752	1.24	61.8		2871	1.37	61.6		2983	1.52	61.4	
60	9.40	2587	1.06	60.4		2696	1.21	61.5		2819	1.36	61.8		2937	1.51	61.8		3057	1.68	61.8	
65	10.18	2701	1.18	59.1		2800	1.35	60.4		2883	1.48	61.5		3002	1.65	61.7		3123	1.84	61.8	
70	10.97	2844	1.33	57.9		2910	1.48	59.1		2995	1.65	60.4		3090	1.82	61.2		3184	1.98	61.7	
75	11.75	2963	1.46	57.5		3047	1.66	58.2		3118	1.82	59.1		3183	1.98	60.4		3275	2.17	61.1	
80	12.54	3079	1.57	57.1		3177	1.81	57.5		3249	2.01	58.2		3314	2.19	59.1		3381	2.37	60.2	
85	13.32	3212	1.74	56.5		3309	1.97	57.3		3385	2.19	57.5		3451	2.41	58.2		3520	2.62	59.1	

- Power rating kW does not include V-belt drive & motor efficiency losses.

- Performance shown is for AMCA 210 Fig-16 & Installation type C. Performance ratings do not include the effects of appurtenances in the airstream.

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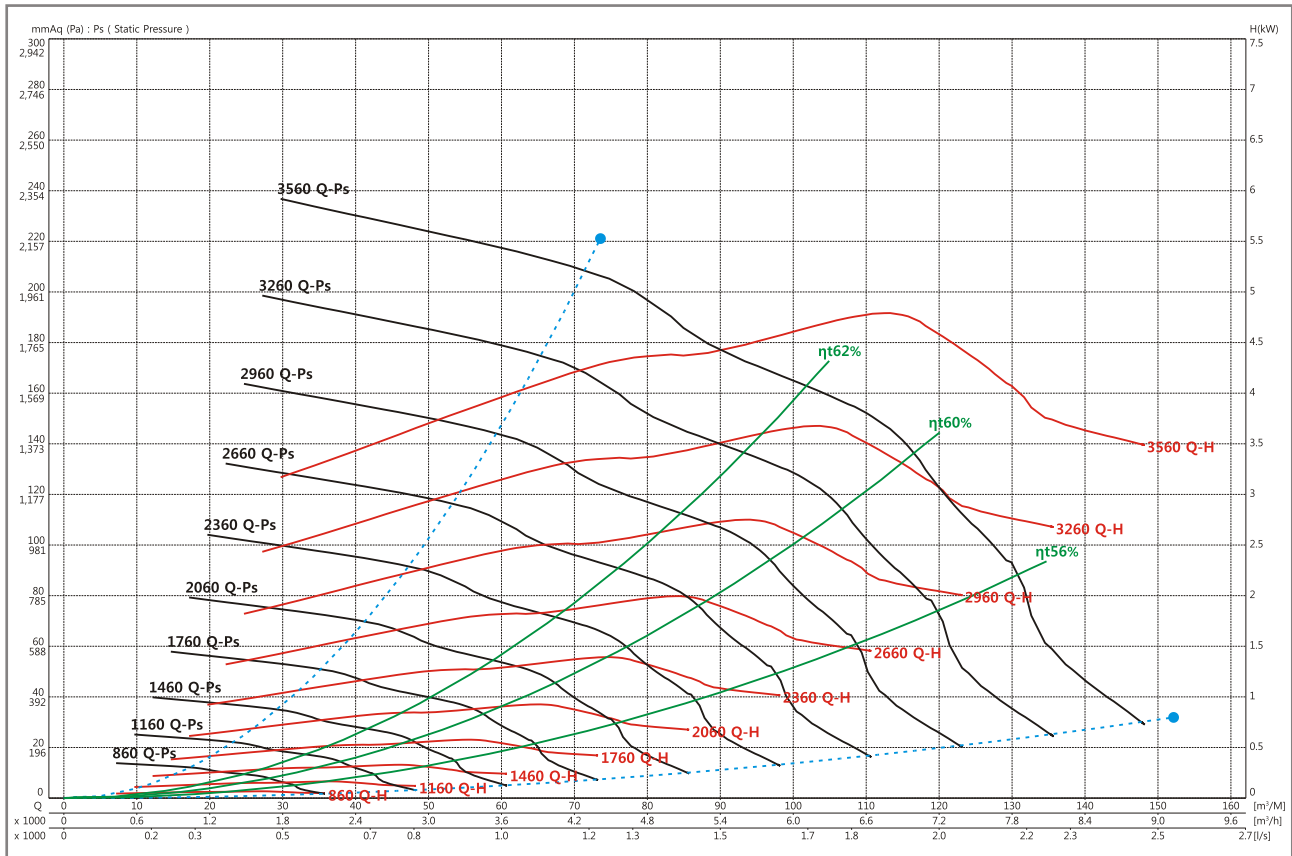
GBP-S series

PLENUM FAN
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GBP-2.5S

FEG 71

Wheel dia	381 mm	Tip Speed = 0.019949 * 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)	15 mmAq (147 Pa)				30 mmAq (294 Pa)				45 mmAq (441 Pa)				60 mmAq (588 Pa)				75 mmAq (735 Pa)			
		rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
43	5.44	1266	0.21	58.4		1522	0.36	61.8		1772	0.54	61.2		1957	0.72	60.5		2140	0.92	58.8	
50	6.33	1389	0.25	57.3		1599	0.43	61.2		1842	0.63	61.8		2051	0.84	61.2		2202	1.03	60.7	
57	7.22	1551	0.32	52.1		1712	0.52	59.1		1907	0.72	61.7		2113	0.94	61.7		2302	1.19	61.3	
64	8.10	1707	0.42	46.9		1846	0.62	57.7		2001	0.85	60.7		2186	1.09	61.8		2368	1.33	61.7	
71	8.99	1854	0.52	43.7		1972	0.71	57.1		2130	0.98	58.6		2268	1.24	61.2		2433	1.49	61.8	
78	9.87	1995	0.64	41.4		2126	0.84	54.2		2251	1.12	57.7		2382	1.41	59.7		2506	1.66	61.5	
85	10.76	2131	0.77	39.4		2279	1.01	49.9		2382	1.26	57.3		2508	1.59	58.2		2613	1.88	60.4	
92	11.65	2261	0.91	38.4		2453	1.23	46.9		2507	1.41	56.5		2641	1.78	57.5		2757	2.14	58.6	
99	12.53	2409	1.09	36.5		2585	1.43	44.8		2682	1.67	52.1		2759	1.96	57.3		2882	2.37	57.8	
106	13.42	2551	1.29	35.3		2727	1.65	43.1		2829	1.93	49.9		2888	2.16	56.5		2996	2.57	57.5	
113	14.30					2874	1.91	41.4		3004	2.27	46.9		3059	2.52	54.2		3135	2.84	57.1	
120	15.19					3008	2.16	39.6		3136	2.55	45.1		3220	2.85	49.9		3268	3.12	56.2	

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	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
43	5.44																				
50	6.33	2361	1.25	59.7																	
57	7.22	2444	1.41	61.0		2589	1.67	60.5		2726	1.93	59.7		2847	2.17	58.7					
64	8.10	2541	1.61	61.4		2680	1.87	61.1		2799	2.12	60.8		2919	2.39	60.3		3048	2.70	59.7	
71	8.99	2606	1.78	61.8		2761	2.08	61.5		2900	2.37	61.2		3016	2.66	61.0		3123	2.95	60.8	
78	9.87	2668	1.97	61.8		2821	2.27	61.8		2970	2.60	61.6		3098	2.90	61.3		3215	3.22	61.1	
85	10.76	2745	2.19	61.5		2892	2.52	61.8		3030	2.83	61.8		3170	3.19	61.7		3301	3.55	61.5	
92	11.65	2852	2.45	60.4		2965	2.76	61.5		3100	3.11	61.8		3235	3.47	61.8		3364	3.84	61.8	
99	12.53	2972	2.71	59.1		3074	3.06	60.4		3177	3.40	61.4		3303	3.78	61.7		3432	4.18	61.8	
106	13.42	3113	3.01	57.9		3192	3.37	59.4		3288	3.75	60.4		3381	4.10	61.3		3500	4.52	61.7	
113	14.30	3238	3.29	57.5		3325	3.71	58.2		3402	4.09	59.4		3493	4.50	60.4					
120	15.19	3369	3.57	57.3		3455	4.04	57.6		3541	4.48	58.2									

- Power rating kW does not include V-belt drive & motor efficiency losses.

- Performance shown is for AMCA 210 Fig-16 & Installation type C. Performance ratings do not include the effects of appurtenances in the airstream.

2015Jan-R10.0

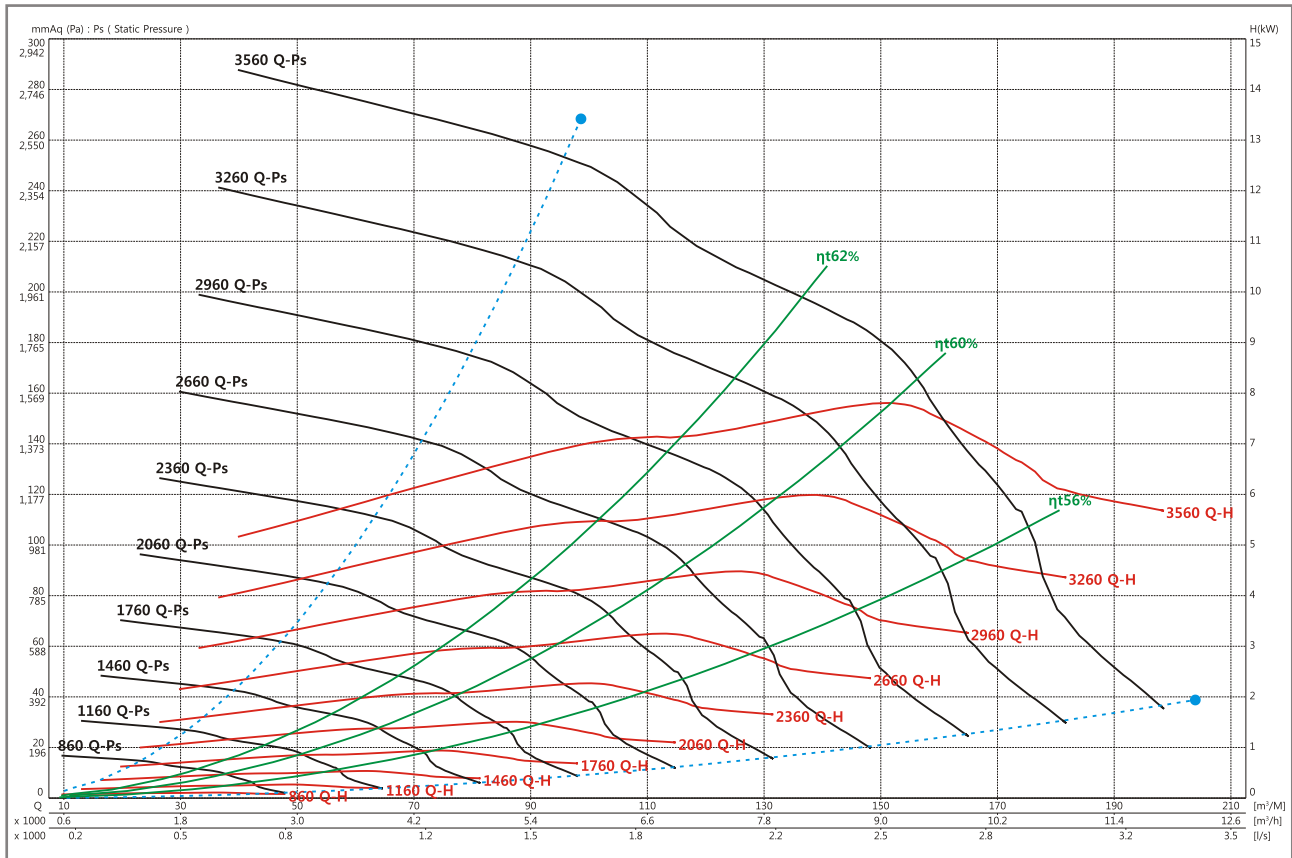
GBP-S series

PLENUM FAN
www.gsfan.co.kr

GBP-2.75S

FEG 71

Wheel dia	420 mm	Tip Speed = 0.021991 * 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)	20 mmAq (196 Pa)				40 mmAq (392 Pa)				60 mmAq (588 Pa)				80 mmAq (785 Pa)				100 mmAq (981 Pa)			
		rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
60	6.21	1318	0.38	58.2		1594	0.67	61.8		1847	0.99	61.1		2041	1.33	60.3		2239	1.71	58.7	
70	7.25	1454	0.46	57.1		1671	0.80	61.4		1928	1.17	61.8		2144	1.56	61.2		2306	1.93	60.7	
80	8.29	1621	0.60	52.1		1797	0.97	59.1		1997	1.35	61.7		2217	1.78	61.7		2408	2.22	61.3	
90	9.32	1792	0.78	46.9		1938	1.16	57.7		2099	1.59	60.7		2290	2.03	61.8		2480	2.49	61.7	
100	10.36	1949	0.99	44.0		2073	1.34	57.1		2238	1.86	58.6		2375	2.31	61.2		2552	2.81	61.8	
110	11.39	2100	1.22	41.7		2235	1.60	54.2		2367	2.11	57.6		2498	2.65	59.7		2634	3.15	61.4	
120	12.43	2245	1.47	39.6		2405	1.93	49.9		2499	2.37	57.3		2634	3.00	58.2		2746	3.55	60.2	
130	13.46	2385	1.74	38.1		2571	2.31	46.9		2644	2.69	56.2		2779	3.36	57.5		2893	4.02	58.6	
140	14.50	2532	2.06	36.5		2729	2.73	44.8		2826	3.18	52.1		2909	3.71	57.1		3028	4.47	57.8	
150	15.54	2695	2.47	35.3		2883	3.17	42.5		2991	3.70	49.0		3049	4.13	56.2		3163	4.91	57.5	
160	16.57					3033	3.65	40.9		3160	4.30	46.9		3227	4.74	52.1		3306	5.39	56.9	
170	17.61					3179	4.16	39.6		3313	4.89	44.8		3407	5.50	49.9		3453	5.93	55.0	

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	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
60	6.21																				
70	7.25	2473	2.35	59.7																	
80	8.29	2560	2.64	61.0		2711	3.13	60.5		2852	3.59	59.4		2979	4.05	58.7					
90	9.32	2661	3.01	61.4		2807	3.49	61.1		2935	3.99	60.8		3061	4.49	60.3		3193	5.06	59.7	
100	10.36	2729	3.34	61.8		2895	3.90	61.5		3040	4.45	61.2		3159	4.98	61.0		3271	5.52	60.8	
110	11.39	2802	3.72	61.8		2962	4.30	61.8		3117	4.91	61.6		3251	5.48	61.4		3373	6.07	61.1	
120	12.43	2878	4.11	61.5		3036	4.75	61.8		3182	5.36	61.8		3324	5.99	61.7		3462	6.68	61.5	
130	13.46	2987	4.58	60.4		3117	5.23	61.4		3255	5.88	61.7		3392	6.54	61.8		3532	7.27	61.8	
140	14.50	3129	5.13	59.0		3227	5.78	60.4		3337	6.42	61.3		3470	7.15	61.7					
150	15.54	3280	5.72	57.9		3363	6.39	59.1		3450	7.06	60.4		3559	7.80	61.2					
160	16.57	3412	6.23	57.5		3503	7.04	58.1													
170	17.61	3539	6.74	57.3																	

- Power rating kW does not include V-belt drive & motor efficiency losses.

- Performance shown is for AMCA 210 Fig-16 & Installation type C. Performance ratings do not include the effects of appurtenances in the airstream.

2015Jan-R10.0

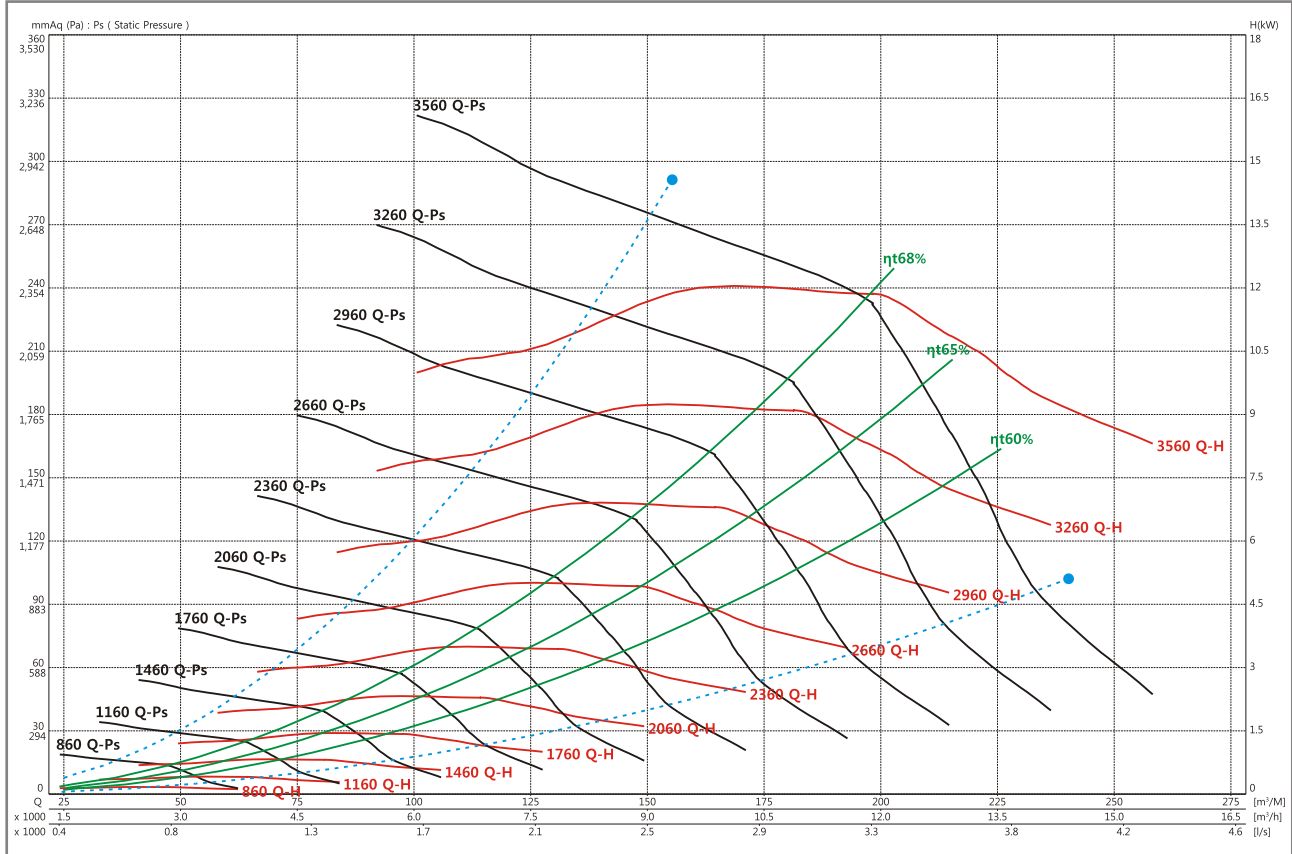
GBP-S series

PLENUM FAN
www.gsfan.co.kr

GBP-3S

FEG 71

Wheel dia	457 mm	Tip Speed = 0.023929 * 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 (245 Pa)				50 mmAq (490 Pa)				75 mmAq (735 Pa)				100 mmAq (981 Pa)				125 mmAq (1226 Pa)			
		rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
90	7.91	1452	0.71	59.0		1639	1.15	68.1		1909	1.85	62.2		2133	2.51	59.8					
100	8.79	1578	0.88	55.1		1745	1.35	65.6		1955	1.97	65.9		2188	2.78	61.2					
110	9.67	1709	1.08	51.2		1853	1.56	63.8		2005	2.11	68.1		2229	2.94	64.0		2438	3.84	60.8	
120	10.55	1834	1.29	48.5		1970	1.82	61.3		2112	2.42	66.1		2276	3.10	67.0		2481	4.06	63.3	
130	11.43	1942	1.50	47.1		2094	2.11	57.8		2222	2.72	64.5		2337	3.34	68.1		2524	4.25	65.9	
140	12.31	2055	1.73	45.8		2222	2.46	55.1		2334	3.06	62.4		2443	3.75	66.1		2577	4.49	68.0	
150	13.19	2164	1.98	44.6		2342	2.81	52.6		2452	3.47	60.2		2562	4.18	64.5		2666	4.94	66.8	
160	14.07	2278	2.26	43.5		2469	3.20	50.0		2575	3.93	57.8		2669	4.62	63.0		2774	5.44	65.6	
170	14.95	2384	2.56	42.8		2594	3.65	48.5		2700	4.44	55.7		2787	5.15	61.1		2881	5.93	64.4	
180	15.83	2498	2.90	41.7		2701	4.06	47.6		2828	4.97	53.0		2904	5.71	59.0		3000	6.54	62.8	
190	16.71	2621	3.32	41.2		2814	4.50	46.5		2953	5.56	51.2		3031	6.35	56.9		3114	7.18	61.1	
200	17.59					2930	5.00	45.5		3078	6.18	49.6		3157	7.06	55.1		3241	7.94	59.0	

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	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
90	7.91																				
100	8.79																				
110	9.67																				
120	10.55	2668	5.03	60.7		2839	5.93	59.8													
130	11.43	2711	5.30	62.8		2881	6.34	60.7		3042	7.33	59.9									
140	12.31	2754	5.53	65.3		2927	6.68	62.8		3086	7.81	60.8		3236	8.87	60.0					
150	13.19	2806	5.81	67.5		2970	6.94	65.2		3130	8.17	62.8		3281	9.40	61.2		3423	10.6	60.2	
160	14.07	2872	6.21	68.0		3017	7.24	67.1		3172	8.47	64.9		3325	9.80	63.1		3464	11.1	61.4	
170	14.95	2982	6.85	66.2		3078	7.65	68.2		3219	8.80	67.0		3364	10.1	64.9		3509	11.5	63.3	
180	15.83	3093	7.44	65.0		3177	8.35	66.6		3275	9.23	68.1		3415	10.5	67.0		3552	11.9	65.2	
190	16.71	3209	8.12	63.8		3283	9.02	65.6		3369	9.99	66.8		3470	11.0	68.1					
200	17.59	3323	8.85	62.4		3402	9.78	64.4		3475	10.8	66.0		3554	11.8	67.2					

- Power rating kW does not include V-belt drive & motor efficiency losses.

- Performance shown is for AMCA 210 Fig-16 & Installation type C. Performance ratings do not include the effects of appurtenances in the airstream.

2015Jan-R10.0

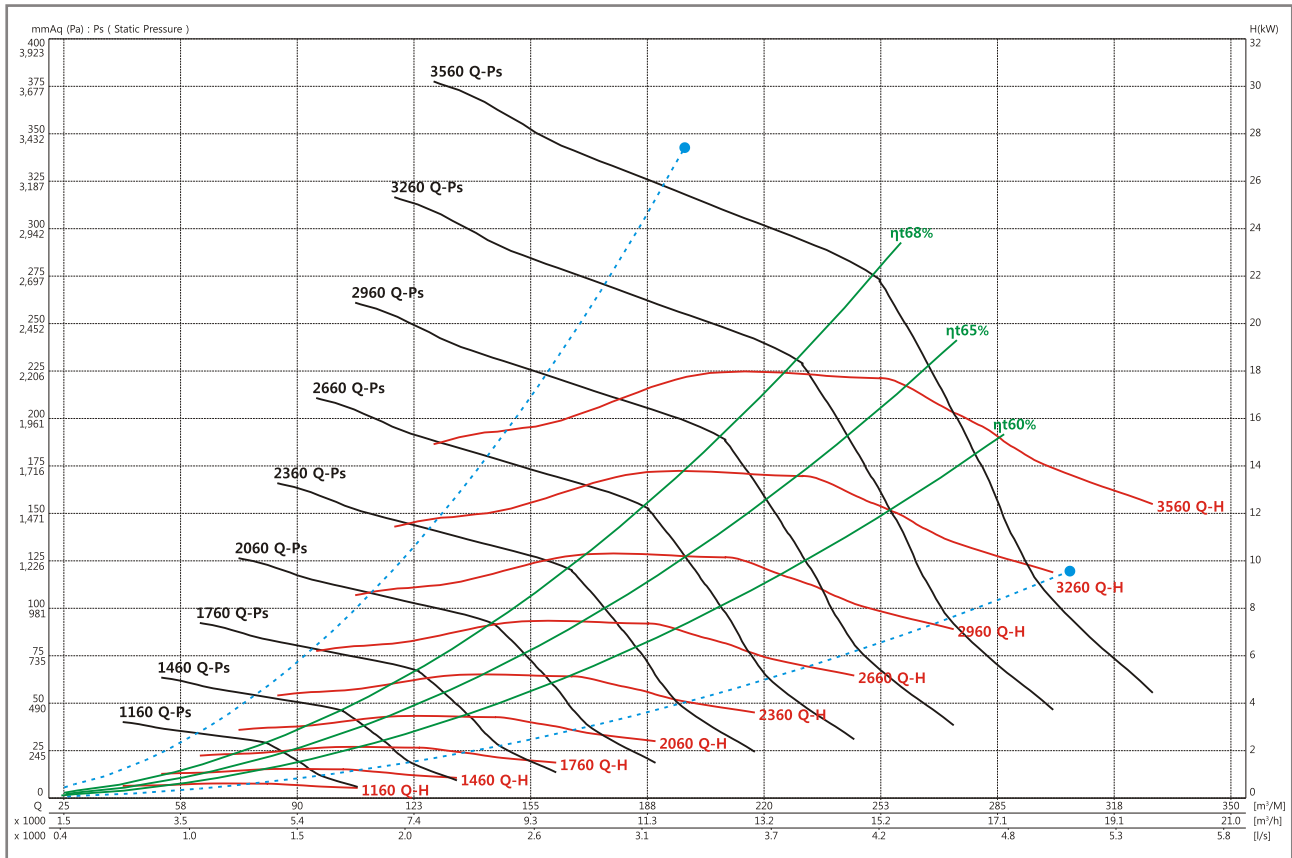
GBP-S series

PLENUM FAN
www.gsfan.co.kr

GBP-3.25S

FEG 71

Wheel dia	495 mm	Tip Speed = 0.025918 * 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)	25 mmAq (245 Pa)				50 mmAq (490 Pa)				75 mmAq (735 Pa)				100 mmAq (981 Pa)				125 mmAq (1226 Pa)			
		rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
95	7.12	1248	0.69	62.2		1471	1.25	65.7		1725	2.00	60.0									
110	8.24	1388	0.91	57.4		1543	1.43	67.4		1779	2.23	63.8		1995	3.10	60.1					
125	9.37	1535	1.18	52.6		1682	1.76	64.4		1833	2.41	67.5		2046	3.39	63.1		2238	4.40	60.3	
140	10.49	1684	1.49	48.7		1810	2.10	61.3		1940	2.81	66.2		2098	3.62	66.8		2288	4.75	63.1	
155	11.62	1814	1.81	46.8		1960	2.57	57.4		2069	3.26	64.2		2181	4.05	67.4		2341	5.04	66.6	
170	12.74	1942	2.16	45.2		2108	3.08	53.5		2210	3.83	61.3		2308	4.65	65.5		2410	5.47	68.1	
185	13.87	2075	2.57	44.0		2252	3.66	50.8		2344	4.45	58.7		2445	5.31	63.2		2535	6.24	66.0	
200	14.99	2207	3.03	42.8		2397	4.29	48.5		2498	5.21	55.1		2580	6.09	61.1		2668	7.00	64.2	
215	16.11	2344	3.55	41.3		2532	4.94	47.1		2644	6.03	52.6		2722	6.96	58.5		2806	7.93	62.2	
230	17.24					2662	5.62	45.8		2791	6.92	50.1		2871	7.96	55.7		2942	8.93	60.0	
245	18.36					2793	6.38	44.9		2936	7.89	48.5		3025	9.07	53.0		3088	10.1	57.4	
260	19.49					2921	7.17	44.0		3067	8.83	47.3		3164	10.2	51.2		3242	11.4	55.1	

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	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
95	7.12																				
110	8.24																				
125	9.37																				
140	10.49	2461	5.88	60.5																	
155	11.62	2511	6.28	63.4		2672	7.56	61.2		2817	8.72	60.0									
170	12.74	2565	6.63	66.6		2723	8.00	64.0		2870	9.39	61.8		3008	10.7	60.4	85	3139	12.0	59.9	
185	13.87	2634	7.14	68.2		2775	8.40	66.8		2919	9.86	64.5		3060	11.4	62.5	85	3189	12.9	61.0	
200	14.99	2759	8.07	66.1		2845	9.01	68.2		2974	10.3	67.0		3111	11.9	65.2	85	3240	13.5	63.3	
215	16.11	2886	8.98	64.9		2969	10.1	66.2		3048	11.1	68.1		3165	12.5	67.4	85	3292	14.1	65.8	
230	17.24	3018	9.96	63.0		3093	11.1	65.0		3174	12.3	66.2		3242	13.4	68.0	85	3352	14.8	67.7	
245	18.36	3156	11.2	61.1		3232	12.3	63.2		3303	13.5	65.0		3372	14.8	66.2	86	3439	15.9	67.6	
260	19.49	3299	12.4	58.7		3368	13.6	61.6		3434	14.8	63.6		3504	16.2	65.0	87				

- Power rating kW does not include V-belt drive & motor efficiency losses.

- Performance shown is for AMCA 210 Fig-16 & Installation type C. Performance ratings do not include the effects of appurtenances in the airstream.

2015Jan-R10.0

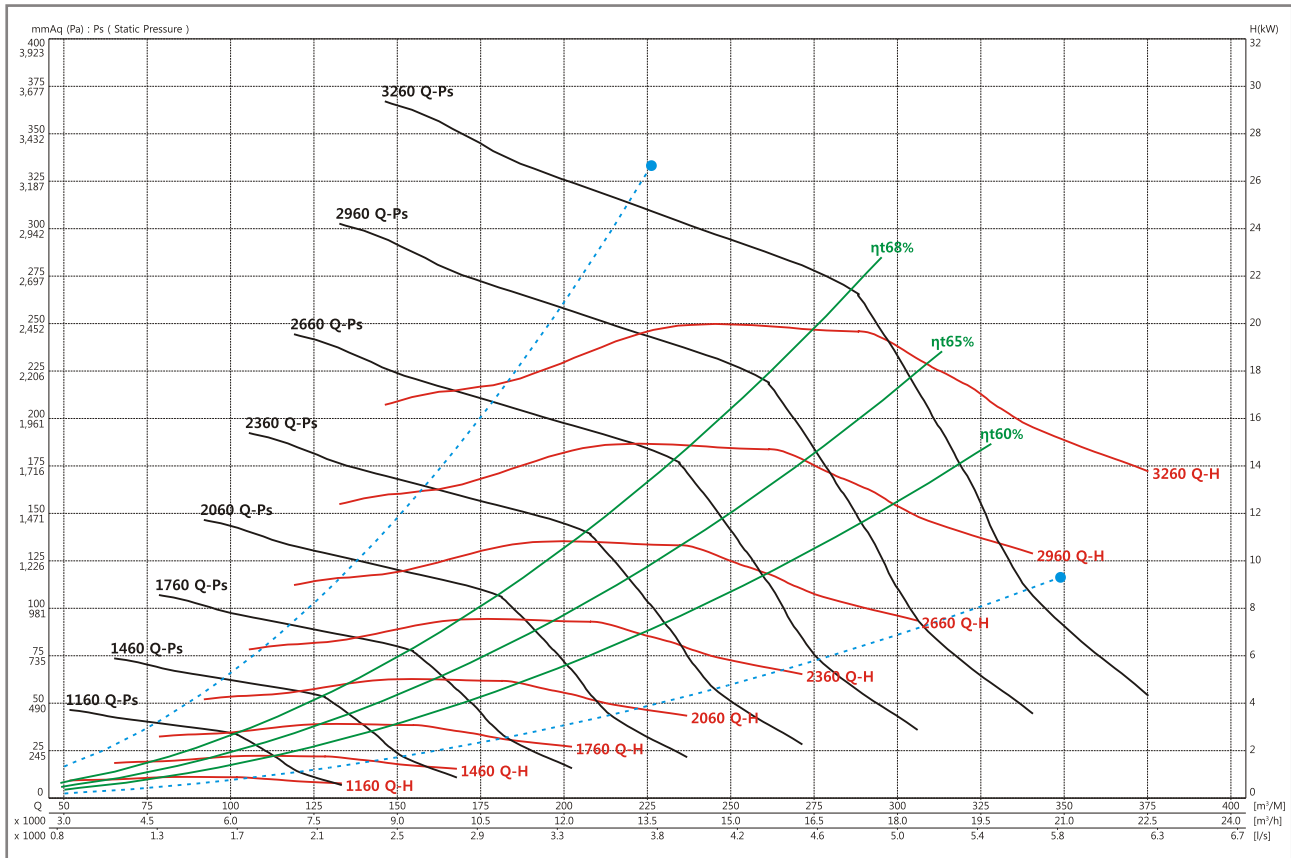
GBP-S series

PLENUM FAN
www.gsfan.co.kr

GBP-3.5S

FEG 71

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)	25 mmAq (245 Pa)				50 mmAq (490 Pa)				75 mmAq (735 Pa)				100 mmAq (981 Pa)				125 mmAq (1226 Pa)			
		rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL
110	7.11	1160	0.82	63.0		1366	1.45	65.7		1602	2.31	60.0									
125	8.08	1270	1.02	57.8		1418	1.61	68.1		1646	2.55	63.1		1844	3.51	59.9					
140	9.05	1391	1.28	53.5		1524	1.92	65.2		1687	2.73	66.8		1887	3.85	61.9		2064	4.94	59.9	
155	10.02	1508	1.57	50.0		1630	2.26	62.8		1753	3.04	67.4		1928	4.09	65.3		2105	5.35	61.6	
170	10.99	1618	1.89	47.8		1745	2.68	59.3		1851	3.47	65.5		1975	4.36	67.8		2147	5.66	64.7	
185	11.96	1720	2.21	46.3		1858	3.15	56.9		1961	3.98	63.6		2059	4.89	66.6		2191	5.96	67.4	
200	12.93	1827	2.58	44.8		1981	3.69	53.0		2068	4.53	61.1		2169	5.53	65.0		2258	6.51	67.6	
215	13.90	1932	3.00	44.0		2095	4.26	50.8		2182	5.19	58.5		2276	6.20	63.2		2360	7.25	65.9	
230	14.87	2036	3.44	42.8		2212	4.89	48.7		2305	5.96	55.7		2381	6.94	61.3		2469	8.06	64.4	
245	15.84	2142	3.94	41.7		2317	5.52	47.5		2425	6.79	53.5		2493	7.79	59.0		2572	8.90	62.8	
260	16.81	2260	4.60	41.2		2422	6.17	46.3		2538	7.61	51.2		2610	8.75	56.9		2685	9.92	60.9	
275	17.78					2528	6.91	45.4		2656	8.54	49.3		2731	9.81	54.5		2797	11.0	58.7	

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	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL
110	7.11																				
125	8.08																				
140	9.05																				
155	10.02	2265	6.56	60.0																	
170	10.99	2306	7.04	61.6		2453	8.37	60.1													
185	11.96	2348	7.42	64.5		2496	8.93	61.9		2631	10.4	60.3		2755	11.7	59.8					
200	12.93	2390	7.76	67.0		2536	9.35	64.5		2672	11.0	62.2		2801	12.6	60.7		2922	14.1	60.0	
215	13.90	2446	8.28	68.2		2577	9.74	66.8		2713	11.4	64.6		2842	13.2	62.6		2964	15.0	61.1	
230	14.87	2548	9.23	66.3		2631	10.3	68.1		2755	11.9	66.8		2883	13.7	64.8		3005	15.6	63.1	
245	15.84	2652	10.1	65.0		2724	11.4	66.6		2811	12.6	68.1		2928	14.3	67.0		3045	16.2	65.2	
260	16.81	2755	11.1	63.8		2828	12.4	65.5		2900	13.7	66.8		2981	15.0	68.1		3089	16.8	67.1	
275	17.78	2867	12.2	62.0		2935	13.5	64.2		3002	14.9	65.8		3070	16.3	66.9		3143	17.6	68.1	

- Power rating kW does not include V-belt drive & motor efficiency losses.

- Performance shown is for AMCA 210 Fig-16 & Installation type C. Performance ratings do not include the effects of appurtenances in the airstream.

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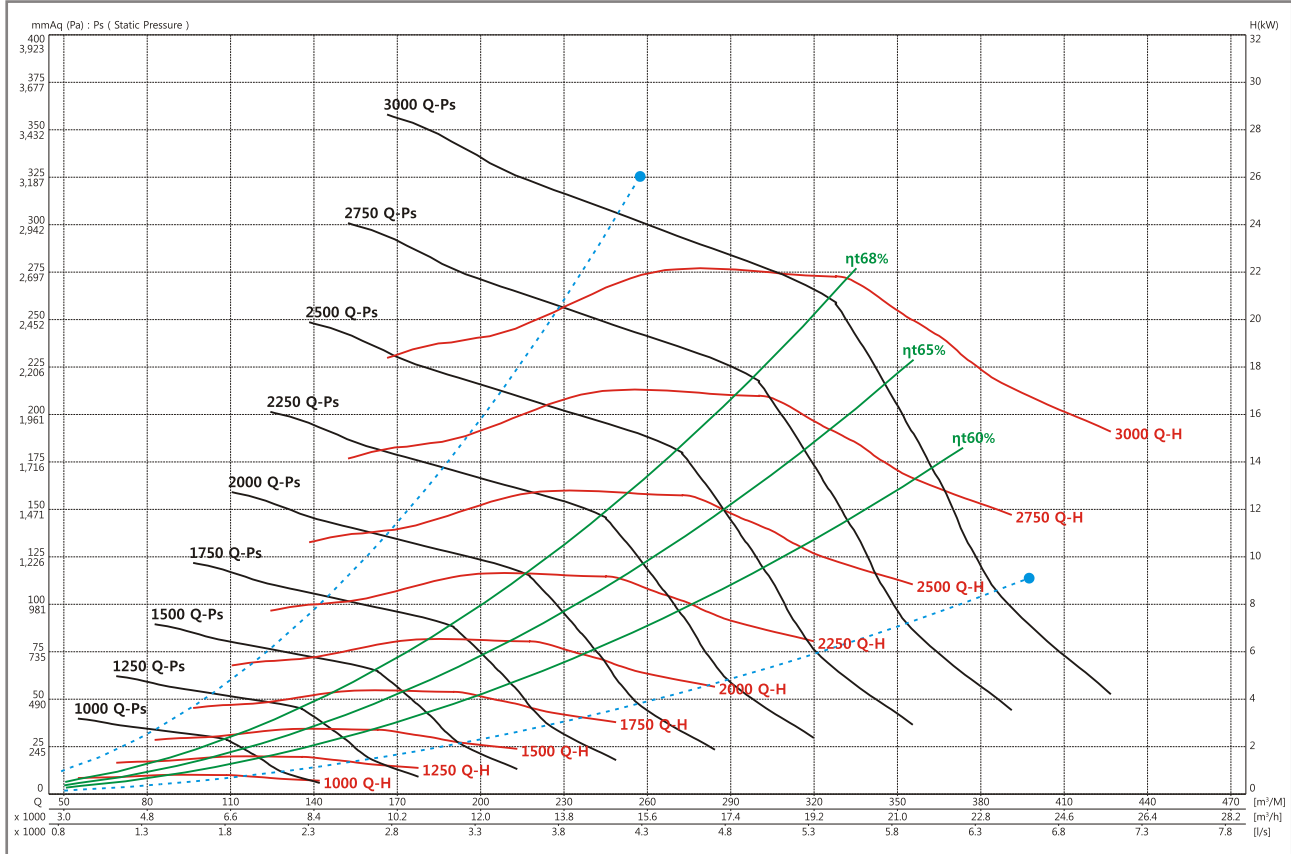
GBP-S series

PLENUM FAN
www.gsfan.co.kr

GBP-3.75S

FEG 71

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)	25 mmAq (245 Pa)				50 mmAq (490 Pa)				75 mmAq (735 Pa)				100 mmAq (981 Pa)				125 mmAq (1226 Pa)			
		rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
115	6.46	1010	0.79	65.0		1245	1.57	62.2													
135	7.59	1131	1.05	60.2		1293	1.74	67.5		1512	2.81	61.0									
155	8.71	1255	1.36	55.1		1382	2.08	66.0		1558	3.07	65.5		1745	4.33	61.0					
175	9.84	1380	1.73	50.8		1500	2.52	63.2		1615	3.39	68.1		1789	4.66	64.7		1954	6.09	61.2	
195	10.96	1503	2.15	47.8		1619	3.04	59.3		1721	3.97	65.5		1839	5.01	67.8		1997	6.49	64.5	
215	12.09	1617	2.60	46.0		1747	3.70	56.0		1840	4.66	63.2		1930	5.72	66.4		2046	6.91	67.5	
235	13.21	1727	3.09	44.6		1871	4.40	52.6		1959	5.44	60.2		2047	6.55	64.5		2130	7.74	66.9	
255	14.33	1842	3.67	43.4		2001	5.22	49.6		2080	6.33	57.4		2163	7.49	62.4		2242	8.74	65.3	
275	15.46	1954	4.29	42.2		2118	6.04	47.9		2211	7.38	54.2		2281	8.57	59.8		2355	9.81	63.5	
295	16.58	2075	5.06	41.2		2233	6.93	46.6		2339	8.53	51.7		2403	9.77	57.4		2474	11.1	61.3	
315	17.71					2344	7.86	45.5		2462	9.73	49.6		2538	11.2	54.5		2594	12.5	59.0	
335	18.83					2458	8.90	44.5		2582	11.0	48.1		2661	12.7	52.4		2720	14.1	56.9	

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	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
115	6.46																				
135	7.59																				
155	8.71																				
175	9.84	2102	7.40	59.8																	
195	10.96	2147	8.09	61.6		2284	9.60	60.1													
215	12.09	2191	8.57	64.7		2329	10.3	62.2		2457	12.1	60.5		2575	13.6	59.8					
235	13.21	2242	9.10	67.5		2373	10.9	65.1		2501	12.8	62.8		2621	14.7	61.2		2734	16.6	60.2	
255	14.33	2317	10.0	67.2		2421	11.5	67.5		2546	13.4	65.7		2665	15.5	63.6		2778	17.6	61.8	
275	15.46	2428	11.2	65.6		2498	12.5	67.4		2595	14.1	67.7		2709	16.2	66.1		2821	18.4	64.2	
295	16.58	2544	12.5	64.0		2611	14.0	65.8		2677	15.4	67.2		2762	17.0	67.9		2868	19.2	66.7	
315	17.71	2660	13.9	62.2		2724	15.4	64.4		2788	17.0	65.8		2849	18.6	67.1		2923	20.2	68.1	
335	18.83	2782	15.6	60.0		2842	17.1	62.6		2902	18.7	64.5		2961	20.4	65.8					

- Power rating kW does not include V-belt drive & motor efficiency losses.

- Performance shown is for AMCA 210 Fig-16 & Installation type C. Performance ratings do not include the effects of appurtenances in the airstream.

2015Jan-R10.0

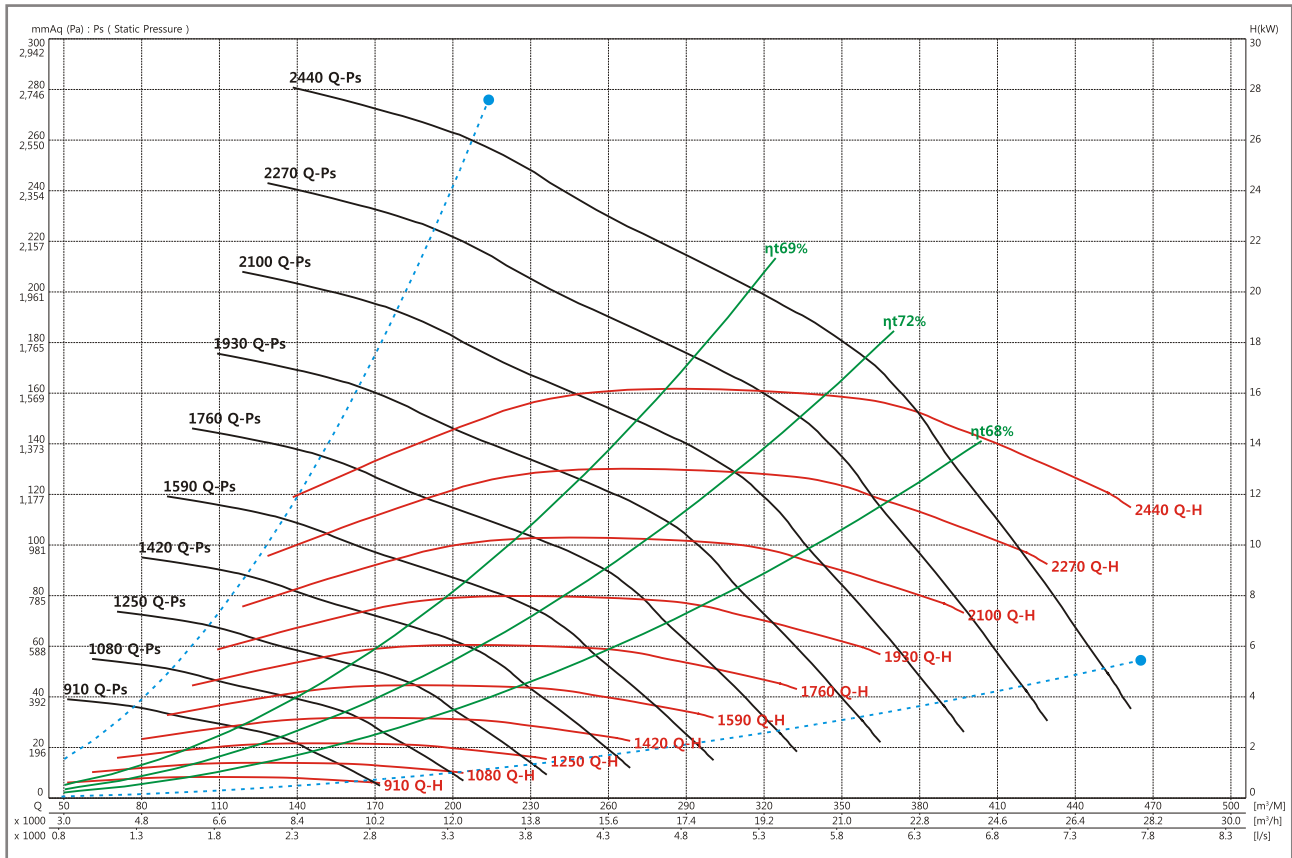
GBP-S series

PLENUM FAN
www.gsfan.co.kr

GBP-4S

FEG 75

Wheel dia	609 mm	Tip Speed = 0.031887 * 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)				40 mmAq (392 Pa)				60 mmAq (588 Pa)				80 mmAq (785 Pa)				100 mmAq (981 Pa)			
		rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
100	4.95					1000	1.09	62.1		1174	1.65	60.6									
125	6.19					1054	1.3	66.5		1230	2.04	62.3		1374	2.74	61.1					
150	7.43	938	0.84	68.3		1112	1.51	70.5		1284	2.35	66.0		1434	3.24	62.9		1560	4.1	61.6	
175	8.66	1043	1.09	64.3		1181	1.77	71.7		1339	2.65	69.5		1487	3.65	66.2		1618	4.68	63.7	
200	9.90	1150	1.4	60.8		1278	2.16	69.6		1403	3.01	71.5		1542	4.05	69.3		1671	5.18	66.7	
225	11.14	1263	1.78	57.1		1381	2.62	66.8		1485	3.48	71.2		1603	4.5	71.3		1727	5.69	69.4	
235	11.63	1311	1.97	55.6		1424	2.82	65.6		1523	3.7	70.6		1632	4.73	71.6		1750	5.9	70.2	
250	12.38	1379	2.26	54.0		1484	3.13	64.2		1584	4.08	69.2		1678	5.08	71.7		1788	6.26	71.3	
275	13.61	1493	2.8	51.0		1593	3.74	61.4		1688	4.78	66.8		1771	5.82	70.4		1861	6.96	71.8	
300	14.85	1611	3.43	48.1		1704	4.45	58.9		1793	5.56	64.6		1875	6.69	68.3		1952	7.85	70.8	
350	17.33	1852	5.04	44.5		1933	6.23	54.0		2007	7.4	60.5		2084	8.7	64.3		2157	10	67.2	
370	18.32					2025	7.07	52.5		2096	8.29	58.7		2170	9.63	62.9		2240	11	65.8	

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	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
100	4.95																				
125	6.19																				
150	7.43	1677	4.94	61.0																	
175	8.66	1734	5.7	62.2		1839	6.69	61.5		1939	7.67	61.0		2036	8.68	60.7					
200	9.90	1790	6.36	64.6		1899	7.56	63.0		1997	8.7	62.0		2090	9.86	61.6		2176	10.9	61.2	
225	11.14	1843	6.95	67.3		1951	8.25	65.5		2054	9.61	64.0		2148	10.9	62.9		2235	12.2	62.1	
235	11.63	1866	7.2	68.3		1973	8.54	66.6		2075	9.93	65.0		2171	11.3	63.7		2259	12.7	62.7	
250	12.38	1899	7.56	69.6		2006	8.95	67.9		2107	10.4	66.5		2201	11.9	65.0		2292	13.4	63.8	
275	13.61	1961	8.25	71.3		2064	9.7	70.0		2161	11.2	68.5		2256	12.8	67.2		2344	14.3	66.0	
300	14.85	2034	9.1	71.8		2127	10.5	71.4		2221	12.1	70.4		2310	13.7	69.2		2399	15.3	68.0	
350	17.33	2222	11.3	69.5		2288	12.7	71.0		2357	14.2	71.7		2437	15.8	71.6					
370	18.32	2305	12.4	68.1		2366	13.8	70.1		2428	15.3	71.2									

- Power rating kW does not include V-belt drive & motor efficiency losses.

- Performance shown is for AMCA 210 Fig-16 & Installation type C. Performance ratings do not include the effects of appurtenances in the airstream.

2015Jan-R10.0

송풍기 견적 및 발주 사양서

주 문 주:		납품장소:		부	상대플랜지 : 유 무	
주 문 일: 20		용 도:			☆덤 퍼 : 유토출 흡입무	
수 량:		설치장소:		품	☆공동배드 : 유 무	
납 기: 20		운전조건:			☆기초보울트 : 유 무	
종 류:		온 도: MAX at °C		속	☆캔바스 : 유토출 흡입무	
모 델: G		습 도: %			☆방 진 : 유 무	
품 량: m³/min at °C		취급기체:			☆	
풍 압: mmAq at °C		기체성질:				
회 전 수: r.p.m		비 중 량: kg/m³		구 비 서 류	입회검사 : 유 무	
토 출 구: mm X mm		재 질	CASING:		시험성적서 : 유 무	
흡 입 구: Ø mm			IMPELLER:		바란싱성적서 : 유 무	
흡입방식: 편흡입 양흡입			SHAFT:		외형치수검사서: 유 무	

전 동 기:	TYPE,	KW-	P-	r.p.m. ,	ϕ	HZ-	VOLT, MAKER:	수주측부담 ☐
도 장:	제조회사기분					지정:		발주측부담 ☐

비 고: 송풍기 모델기입"예"

GTF- # 4.5-G6-Z

송풍기의 종류 ◀

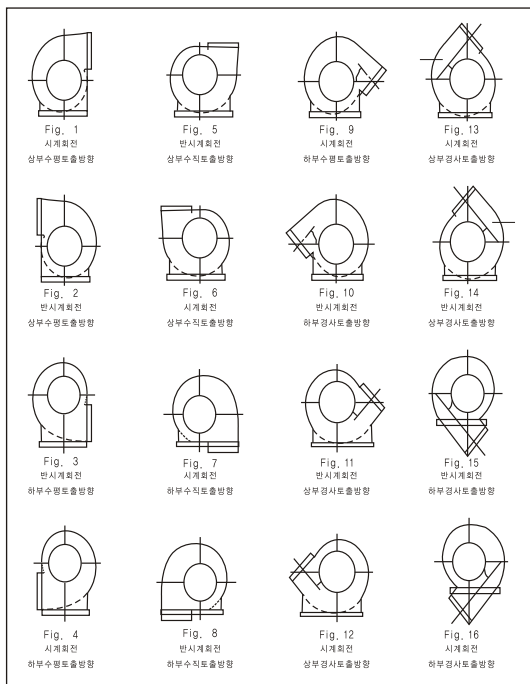
송풍기의 크기 ◀

→ 전동기의 위치

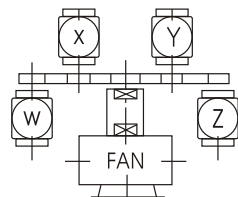
→ 송풍기의 구동방법

송풍기의 구동방법

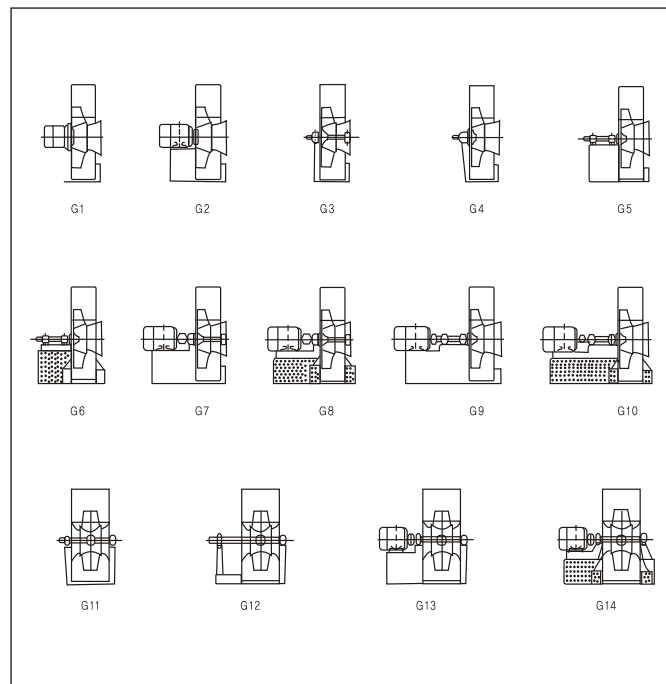
■ 송풍기의 회전방향 (흡입구측에서 보았을때)



전동기의 위치



■ 송풍기의 구동방법



위 사항의(견적, 도면)이 (예산용, 입찰용)으로 필요하니
20 년 월 일 까지(전화, 우편, 인편)으로 제출바랍니다.

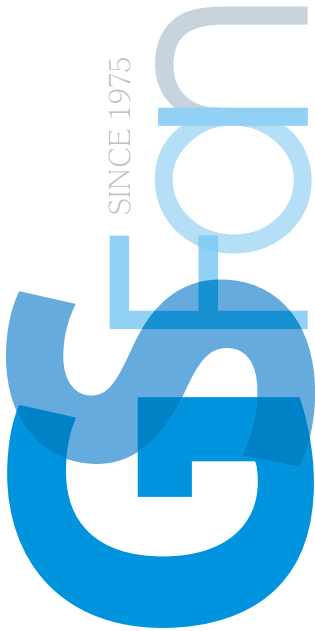
회 사 명 :

소속 :

전화번호 :

작성일:

$\frac{1}{2}$
 $\frac{1}{2}$



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