

SIROCCO FAN

GSF-DS series

SINCE 1975

GSF

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SIROCCO FAN GSF-DS series

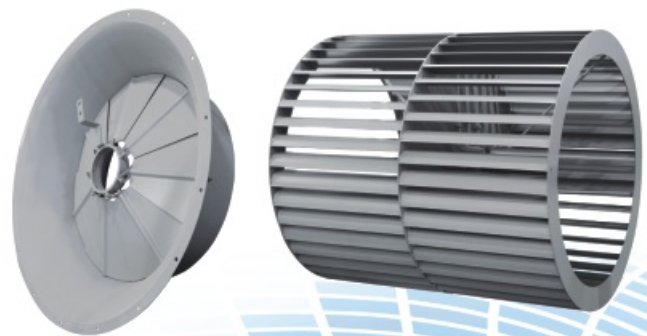


GSF-FAN의 송풍기는 저 정압에서 다량의 공기 또는 가스를 취급하는데 가장 적합한 송풍기로서 공기의 유동상태가 매우 원활하여 불쾌한 소음, 진동이 없으며, 저속회전으로 베어링의 수명이 길다. 이송풍기의 특징은 저압의 송풍기용으로 대략 10 ~ 50mmAq 정도에 있어서 가장 적합한 모델입니다.

용도로는 일반용 송풍, 항구시스템 공기배출, 건축물 또는 공장의 환기, 냉온방장치, 소형저압용 보일러 송배풍, 기타 가스의 반송 또는 배출에 사용됩니다.

GSF model for the transfer of large amount of air in the low pressure. Flowing state of the air is good. Due to the slow rotational speed low vibration, longer bearing life. As designed for low-pressure fans, the fan is the most suitable for pressure of around 10 ~ 50 mmAq.

Used for general ventilation, harbor ventilation, ventilation of building, factory ventilation, air conditioners/heaters, wind of small boilers, conveyance of other gas, air discharge.



GSF-DS (DWDI CENTRIFUGAL FAN)



GUMSUNG POONG RYUK Co.,Ltd. certifies that the GSF-DS 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.



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

GSF-2DS ~ GSF-2.25DS base data is GSF-2DS
GSF-2.5DS ~ GSF-3.75DS base data is GSF-2.5DS
GSF-4DS ~ GSF-4.75DS base data is GSF-4DS
GSF-5DS ~ GSF-5.75DS base data is GSF-5DS
GSF-6DS ~ GSF-7DS base data is GSF-6DS
GSF-8DS ~ GSF-14DS base data is GSF-8DS

Type GSF-DS DWDI Series

Gumsung GSF-DS DWDI model is double suction-center hang type fan with wheel diameter from 12" to 84" applied by aerodynamic design.

1. Wheels

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

2. HUB

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

3. Casing

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

4. Inlet Cone

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

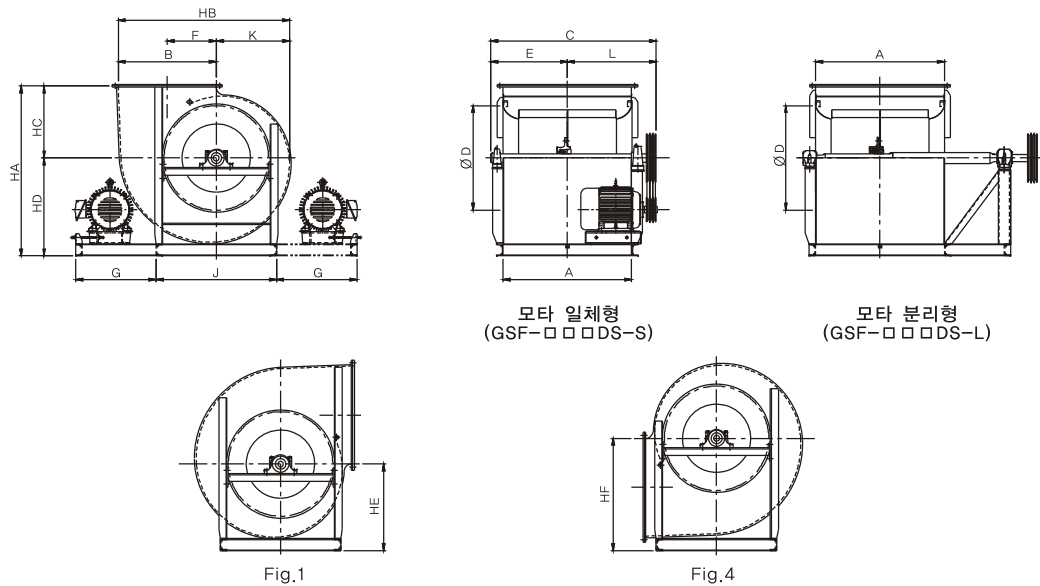
5. Inlet Vane controls

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

GSF-DS series

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표준외형도 Standard shape of SIROCCO FAN(GSF-DS SERIES)



MODEL NO.	A	B	Ø D	E	F	HA	HB	HC	HD	HE	HF	C	J	K	L	FAN WEIGHT kg
#2	400	305	320	265	153	585	535	240	345	315	390	610	400	230	345	90
#2.25	450	345	360	290	173	665	615	275	390	355	430	660	500	270	370	100
#2.5	500	380	400	315	190	685	665	275	410	370	465	710	500	285	395	108
#2.75	550	420	440	340	210	785	735	340	445	400	505	760	570	315	420	130
#3	600	455	480	365	228	815	795	340	475	425	540	810	570	340	445	150
#3.25	650	495	520	390	248	890	870	380	510	460	580	860	660	375	470	165
#3.5	700	535	560	415	268	955	935	410	545	485	620	910	660	400	495	180
#3.75	750	570	600	440	285	1010	1000	430	580	515	655	960	750	430	520	225
#4	800	610	640	465	305	1060	1065	450	610	540	695	1040	750	455	575	265
#4.25	850	650	680	490	325	1125	1135	480	645	570	735	1090	850	485	600	290
#4.5	900	685	720	515	343	1185	1190	490	695	615	795	1140	850	505	625	310
#5	1000	760	800	600	380	1300	1320	540	760	670	870	1330	950	560	730	330
#5.5	1100	840	880	650	420	1420	1460	590	830	730	950	1430	1050	620	780	393
#6	1200	915	960	700	458	1545	1590	650	895	785	1025	1530	1100	675	830	462
#6.5	1300	990	1040	770	495	1695	1730	700	995	850	1100	1675	1250	740	905	820
#7	1400	1065	1120	805	533	1790	1850	740	1050	920	1200	1760	1350	785	955	608
#8	1600	1220	1280	930	610	2060	2120	870	1190	1035	1355	2010	1500	900	1080	820
#9	1800	1370	1440	1030	685	2305	2380	960	1345	1170	1530	2210	1700	1010	1180	1080
#10	2000	1525	1600	1130	763	2530	2650	1050	1480	1285	1685	2410	1900	1125	1280	1470
#11	2200	1675	1760	1250	838	2725	2910	1150	1575	1395	1835	2650	2100	1235	1400	2100
#12	2400	1830	1920	1350	915	2975	3160	1240	1735	1540	2040	2850	2300	1330	1500	2450
#13	2600	1980	2080	1450	990	3220	3440	1350	1870	1670	2190	3050	2500	1460	1600	2880
#14	2800	2135	2240	1550	1068	3450	3710	1450	2000	1785	2345	3250	2700	1575	1700	3150

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

MOTOR BASE

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

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

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

-Notes-

1. The weight is that of a fan only except for the weight of a motor, and differs according to DS-L or temperature.
2. The center of inlet and the height of outlet are subject to change according to use frequency and motor HP.

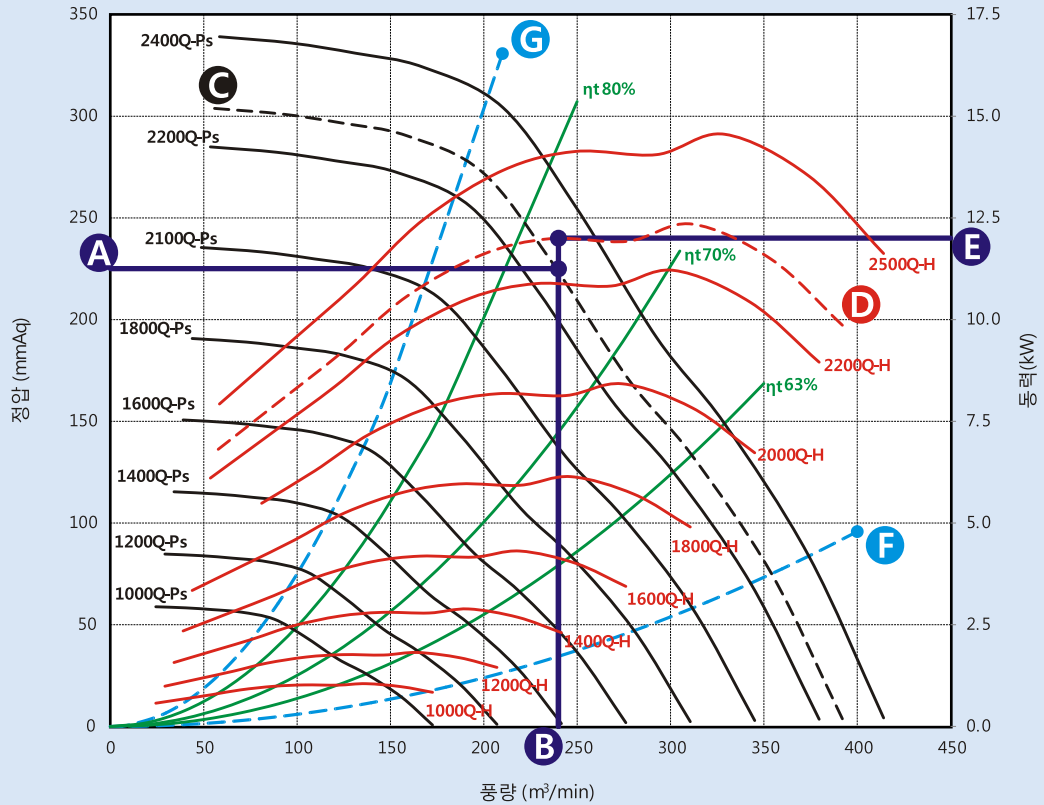
팬 선정 방법 예 Fan Selection Example

Motor separation type model name is "GSF-□□□ DS-L" of the standard shape.

Motor integrated type model name is "GSF-□□□ DS-S" of the standard shape.



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)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.

GSF-DS series

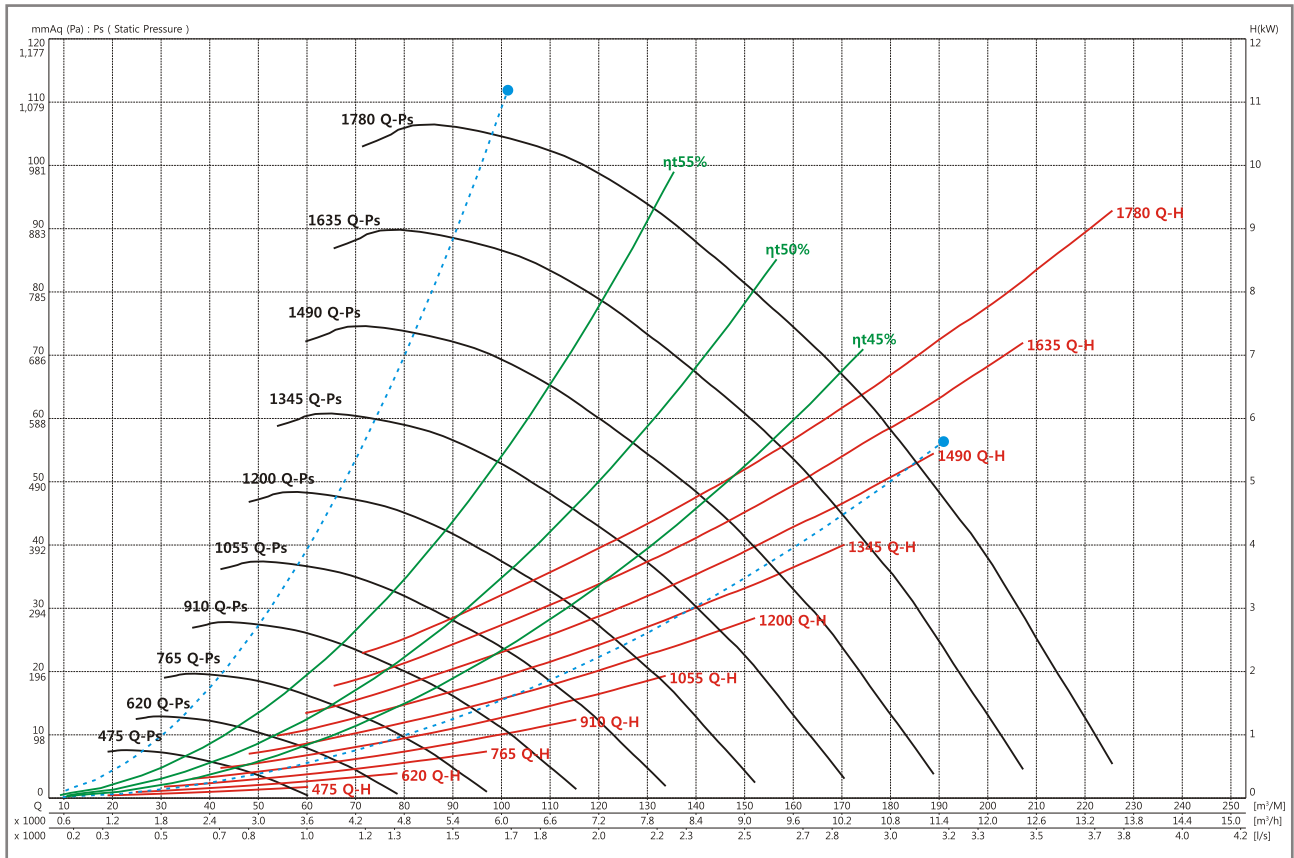
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GSF-2DS

FEG 60

Wheel dia	300 mm	Tip Speed = 0.01571 * rpm	Outlet Dim'	400 * 305	Outlet Area	0.1220 m ²	Class 1	1432 rpm	Class 2	1814 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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
40	5.46	572	0.14	56.4	55																					
50	6.83	614	0.21	51.6	59	789	0.32	58.2	62																	
60	8.20	660	0.29	47.2	62	822	0.43	55.4	65	965	0.57	58.3	67	1090	0.72	59.1	69									
70	9.56	713	0.42	43.2	66	862	0.56	52.0	68	993	0.72	56.3	69	1116	0.90	58.2	71	1232	1.08	59.0	73					
80	10.93	770	0.56	40.4	69	907	0.73	48.8	70	1032	0.90	53.7	72	1145	1.09	56.4	73	1251	1.28	58.0	74					
90	12.30	834	0.76	37.4	72	959	0.94	45.7	72	1078	1.15	50.6	74	1182	1.34	54.1	75	1281	1.54	56.3	76					
100	13.66	897	0.98	35.9	75	1012	1.19	43.2	74	1124	1.42	48.0	75	1227	1.64	51.6	77	1321	1.86	54.2	77					
110	15.03	964	1.27	33.7	77	1072	1.50	40.8	77	1174	1.73	45.7	77	1270	1.95	49.3	78	1361	2.20	52.0	79					
120	16.39	1036	1.60	32.7	80	1130	1.83	38.9	79	1223	2.07	43.8	79	1319	2.35	47.2	79	1407	2.61	49.9	80					
130	17.76	1104	1.99	31.3	82	1192	2.23	37.2	81	1285	2.53	41.6	81	1367	2.77	45.3	81	1454	3.07	48.0	82					
140	19.13	1175	2.42	30.7	83	1256	2.69	35.9	83	1345	3.02	39.8	83	1425	3.31	43.4	83	1503	3.59	46.1	83					
150	20.49	1248	2.96	29.7	85	1326	3.24	34.7	85	1406	3.57	38.3	84	1482	3.88	41.6	84	1554	4.16	44.5	84					

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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
40	5.46																									
50	6.83																									
60	8.20																									
70	9.56																									
80	10.93	1355	1.49	58.8	75	1453	1.72	59.1	77																	
90	12.30	1376	1.75	57.7	77	1470	1.98	58.5	78	1561	2.23	58.9	79													
100	13.66	1410	2.08	56.1	78	1495	2.31	57.3	79	1580	2.57	58.1	80	1663	2.82	58.6	81	1744	3.09	58.9	82					
110	15.03	1448	2.46	54.1	80	1529	2.70	55.8	80	1608	2.96	56.8	81	1686	3.23	57.7	82	1762	3.51	58.3	83					
120	16.39	1489	2.86	52.2	81	1568	3.15	53.9	82	1644	3.42	55.4	83	1717	3.69	56.4	83									
130	17.76	1535	3.36	50.2	82	1609	3.62	52.2	83	1682	3.92	53.7	84	1754	4.24	54.9	84									
140	19.13	1580	3.87	48.5	84	1654	4.17	50.4	84	1724	4.48	52.0	85													
150	20.49	1630	4.51	46.6	85	1702	4.83	48.6	85	1771	5.16	50.2	86													

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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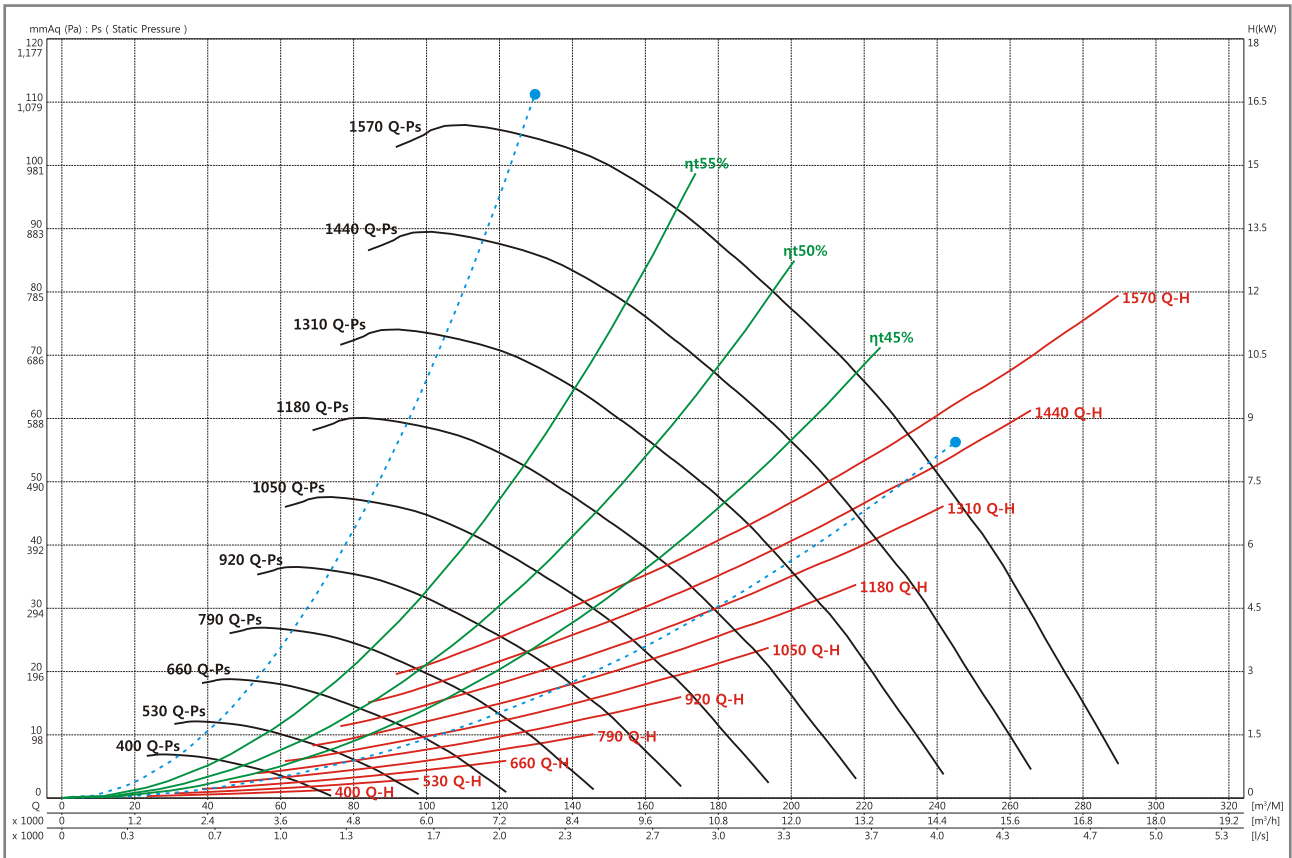
GSF-DS series

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GSF-2.25DS FEG 60

Wheel dia	340 mm	Tip Speed =	0.0178 * rpm	Outlet Dim'	450 * 345	Outlet Area	0.1553 m ²	Class 1	1264 rpm	Class 2	1601 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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
50	5.37	503	0.17	56.6	55																					
60	6.44	529	0.23	53.0	59	691	0.38	58.7	62																	
70	7.51	559	0.31	49.5	61	710	0.48	56.8	64	843	0.65	58.9	66													
80	8.59	591	0.40	46.3	63	732	0.58	54.7	66	856	0.77	58.0	68	972	0.98	59.0	70									
90	9.66	629	0.53	43.4	66	761	0.72	52.0	68	877	0.92	56.3	70	985	1.15	58.2	72	1087	1.38	59.0	73					
100	10.74	670	0.68	40.8	69	793	0.89	49.3	70	903	1.11	54.1	72	1003	1.34	56.8	73	1100	1.59	58.3	74					
110	11.81	711	0.86	38.6	71	826	1.09	46.9	72	932	1.32	52.0	73	1027	1.57	55.2	75	1119	1.84	57.0	76					
120	12.88	754	1.07	36.7	74	862	1.32	44.7	73	964	1.58	49.8	75	1056	1.84	53.3	76	1142	2.11	55.6	77					
130	13.96	799	1.31	35.3	76	897	1.56	43.0	75	995	1.85	47.8	76	1087	2.15	51.3	77	1170	2.44	53.9	78					
140	15.03	844	1.58	34.0	78	938	1.86	41.2	77	1028	2.15	46.0	77	1117	2.47	49.5	79	1199	2.80	52.2	80					
150	16.10	893	1.90	33.2	80	980	2.20	39.5	79	1065	2.52	44.2	79	1149	2.83	48.0	80	1228	3.17	50.6	81					
160	17.18	940	2.26	32.0	81	1023	2.59	38.0	81	1103	2.92	42.6	81	1182	3.24	46.3	81	1261	3.62	48.9	82					

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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
50	5.37																									
60	6.44																									
70	7.51																									
80	8.59																									
90	9.66																									
100	10.74	1193	1.85	58.9	76																					
110	11.81	1206	2.12	58.2	77	1290	2.39	58.8	78	1372	2.70	59.1	79													
120	12.88	1224	2.39	57.2	78	1304	2.70	58.1	79	1383	3.01	58.7	80	1458	3.31	59.0	81									
130	13.96	1246	2.71	55.9	79	1323	3.03	57.1	80	1397	3.36	58.0	81	1470	3.67	58.6	82	1540	4.01	58.9	82					
140	15.03	1272	3.08	54.4	80	1346	3.41	55.9	81	1417	3.76	57.0	82	1486	4.11	57.8	83	1553	4.46	58.3	83					
150	16.10	1301	3.49	52.8	81	1372	3.85	54.5	82	1439	4.17	55.9	83	1505	4.53	56.8	83	1570	4.91	57.6	84					
160	17.18	1331	3.94	51.3	82	1401	4.33	53.0	83	1465	4.66	54.7	84	1529	5.04	55.8	84									

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
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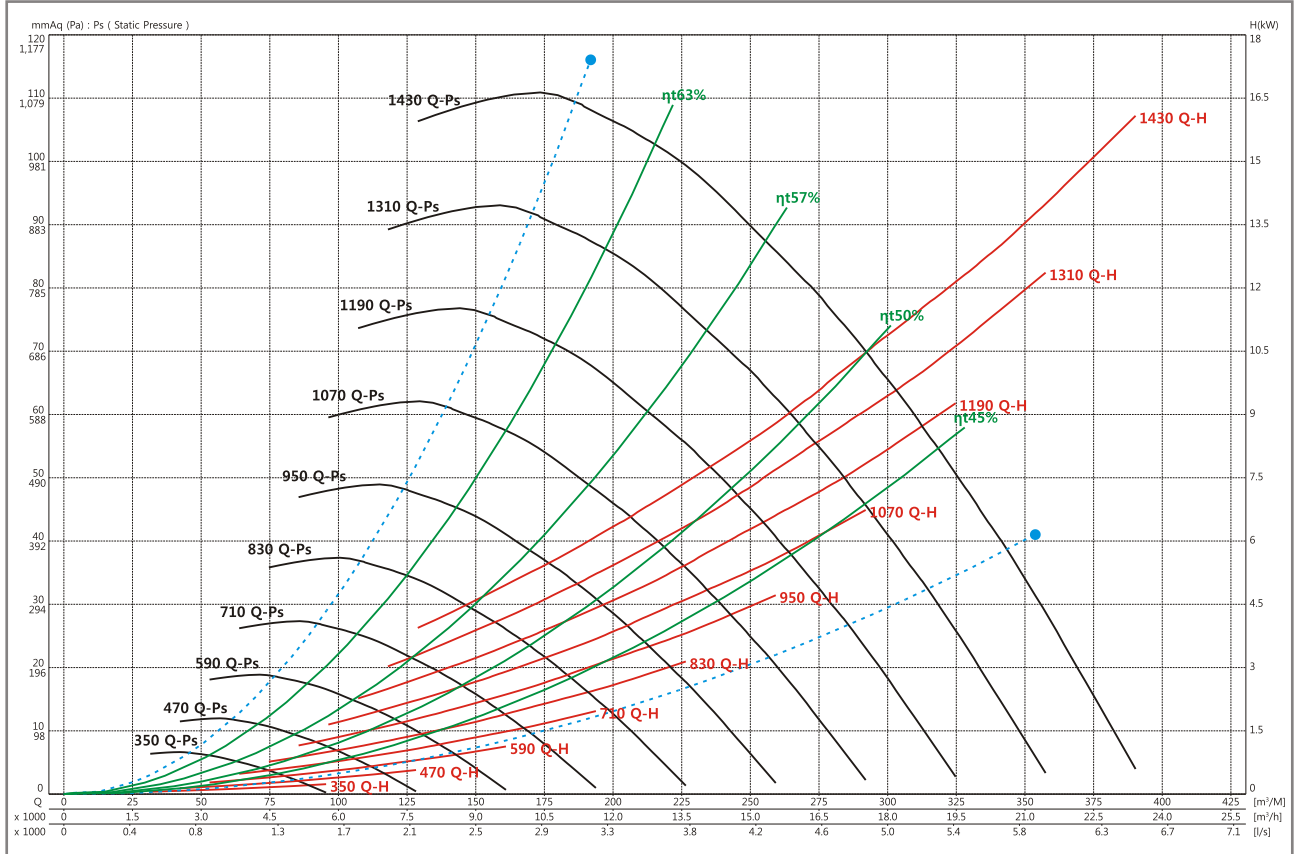
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GSF-2.5DS

FEG 71

Wheel dia	375 mm	Tip Speed = 0.01964 * rpm	Outlet Dim'	500 * 380	Outlet Area	0.1900 m ²	Class 1	1146 rpm	Class 2	1451 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	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
90	7.89	492	0.37	55.7	62	624	0.55	63.9	65												
100	8.77	514	0.45	52.7	65	640	0.65	62.1	66	752	0.86	65.3	70								
110	9.65	540	0.56	50.3	67	658	0.77	59.9	67	765	1.01	63.9	70								
120	10.53	566	0.68	48.0	69	679	0.91	57.6	69	778	1.15	62.5	71	874	1.42	64.6	74				
130	11.40	594	0.83	46.0	71	701	1.07	55.4	71	796	1.32	60.7	72	886	1.60	63.5	74	973	1.89	65.1	78
140	12.28	623	0.99	44.4	72	725	1.26	53.1	73	817	1.52	58.8	73	902	1.81	62.2	74	984	2.10	64.2	77
150	13.16	652	1.17	43.0	74	750	1.47	51.1	74	840	1.75	56.9	75	920	2.05	60.7	75	998	2.34	63.1	77
160	14.04	683	1.39	41.6	76	775	1.69	49.3	76	861	1.99	55.1	76	940	2.30	59.1	77	1013	2.62	61.7	77
170	14.91	713	1.61	40.7	77	801	1.94	48.0	77	884	2.26	53.5	78	962	2.59	57.5	78	1033	2.94	60.3	78
180	15.79	745	1.87	39.9	79	831	2.24	46.5	78	908	2.56	51.8	79	984	2.91	55.9	79	1053	3.25	58.9	79
190	16.67	776	2.16	38.7	80	858	2.53	45.4	80	933	2.89	50.3	80	1006	3.26	54.3	80	1075	3.61	57.5	81
200	17.54	808	2.49	37.9	81	887	2.88	44.1	81	961	3.27	48.9	81	1030	3.65	52.7	82	1096	3.99	56.2	82

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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
90	7.89																									
100	8.77																									
110	9.65																									
120	10.53																									
130	11.40																									
140	12.28	1061	2.41	65.4	79																					
150	13.16	1074	2.68	64.4	79	1145	3.00	65.5	80																	
160	14.04	1087	2.97	63.4	79	1158	3.33	64.5	80	1224	3.67	65.5	81													
170	14.91	1101	3.27	62.4	79	1170	3.64	63.8	81	1237	4.03	64.6	82	1298	4.37	65.5	82									
180	15.79	1119	3.62	61.2	80	1184	3.99	62.8	81	1248	4.38	63.9	82	1311	4.78	64.7	83	1370	5.18	65.4	83					
190	16.67	1138	3.98	59.9	81	1201	4.37	61.7	81	1262	4.77	63.0	82	1322	5.16	64.1	83	1382	5.63	64.6	84					
200	17.54	1160	4.41	58.5	82	1219	4.78	60.5	82	1277	5.18	62.1	83	1336	5.61	63.1	83	1393	6.03	64.1	84					

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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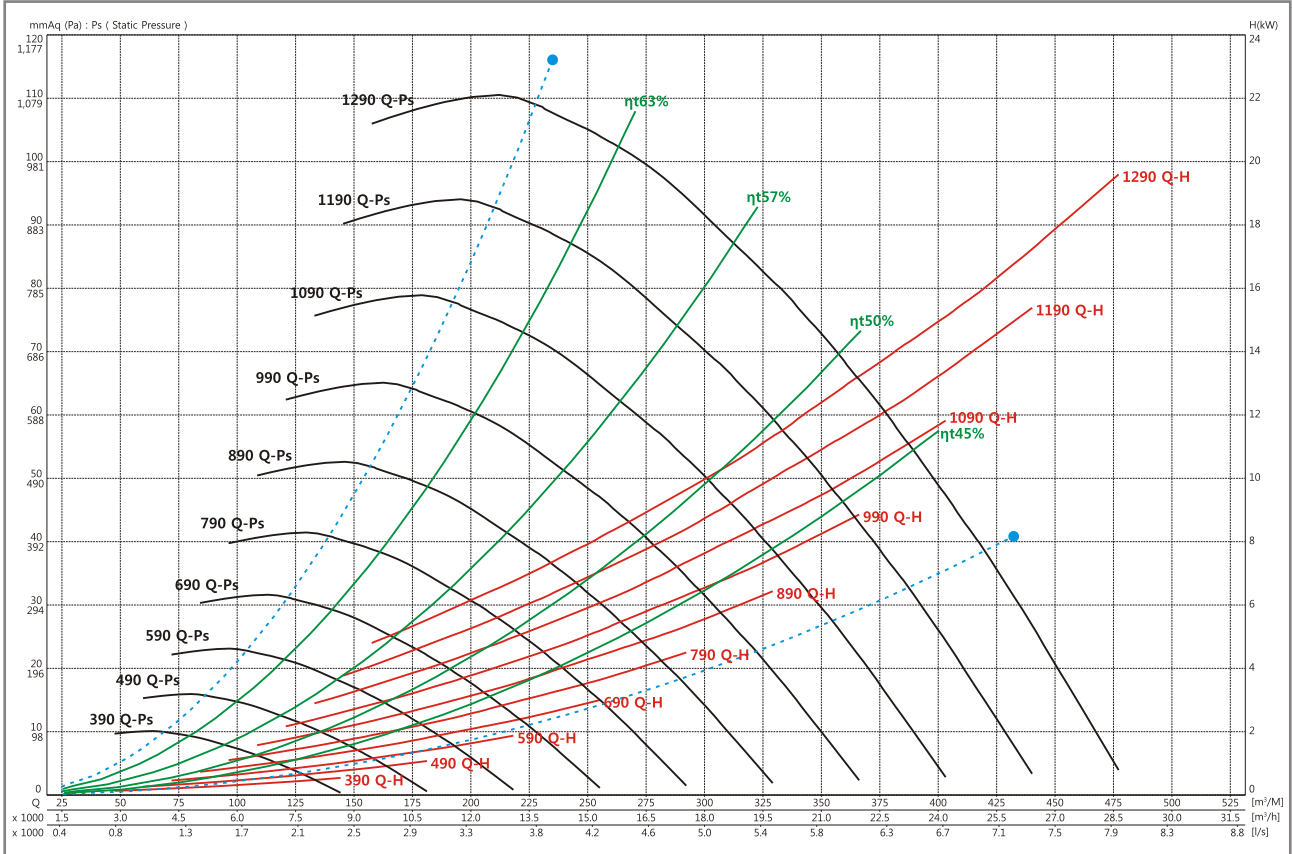
GSF-DS series

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GSF-2.75DS FEG 71

Wheel dia	415 mm	Tip Speed = 0.02173 * rpm	Outlet Dim'	550 * 420	Outlet Area	0.2310 m ²	Class 1	1035 rpm	Class 2	1312 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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
85	6.13	406	0.27	62.5	58																					
100	7.22	428	0.37	58.5	60	555	0.58	65.3	67																	
115	8.30	453	0.49	54.6	64	569	0.72	63.1	67																	
130	9.38	480	0.64	51.1	67	588	0.89	60.7	67	686	1.16	64.4	71													
145	10.46	509	0.82	48.3	69	611	1.09	57.9	70	702	1.38	62.7	71	788	1.70	64.8	74									
160	11.54	539	1.03	46.0	71	635	1.33	55.1	72	721	1.64	60.5	72	802	1.98	63.4	74	879	2.33	65.0	77					
175	12.63	571	1.28	44.0	74	661	1.61	52.6	74	744	1.94	58.3	74	819	2.29	61.9	75	892	2.65	63.9	77					
190	13.71	604	1.57	42.2	76	689	1.93	50.3	76	768	2.28	56.2	76	840	2.66	59.9	76	909	3.05	62.4	78					
205	14.79	638	1.90	40.9	78	719	2.31	48.3	77	793	2.68	53.9	78	864	3.07	57.9	78	928	3.49	60.7	79					
220	15.87	671	2.28	39.6	79	750	2.73	46.6	79	819	3.12	51.8	79	888	3.55	55.9	80	951	3.96	59.1	80					
235	16.96	707	2.72	38.7	81	780	3.17	45.1	81	849	3.65	49.9	81	913	4.07	54.1	81	975	4.51	57.2	81					
250	18.04	742	3.21	37.7	82	812	3.69	43.8	82	878	4.18	48.5	82	940	4.66	52.2	83	1000	5.12	55.6	83					

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
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
85	6.13																				
100	7.22																				
115	8.30																				
130	9.38																				
145	10.46																				
160	11.54																				
175	12.63	963	3.06	65.0	80																
190	13.71	976	3.46	64.0	80	1040	3.87	65.0	82												
205	14.79	992	3.91	62.7	80	1054	4.33	64.1	82	1114	4.82	64.8	83								
220	15.87	1010	4.41	61.2	80	1070	4.86	62.9	82	1128	5.35	64.0	83	1184	5.85	64.7	84	1237	6.31	65.5	85
235	16.96	1032	4.97	59.6	82	1087	5.43	61.5	82	1143	5.93	62.9	83	1197	6.42	63.9	84	1251	6.98	64.5	85
250	18.04	1056	5.59	58.1	83	1109	6.09	60.0	83	1161	6.58	61.6	84	1214	7.14	62.8	84	1265	7.67	63.7	85

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

2015Jan-R10.0

GSF-DS series

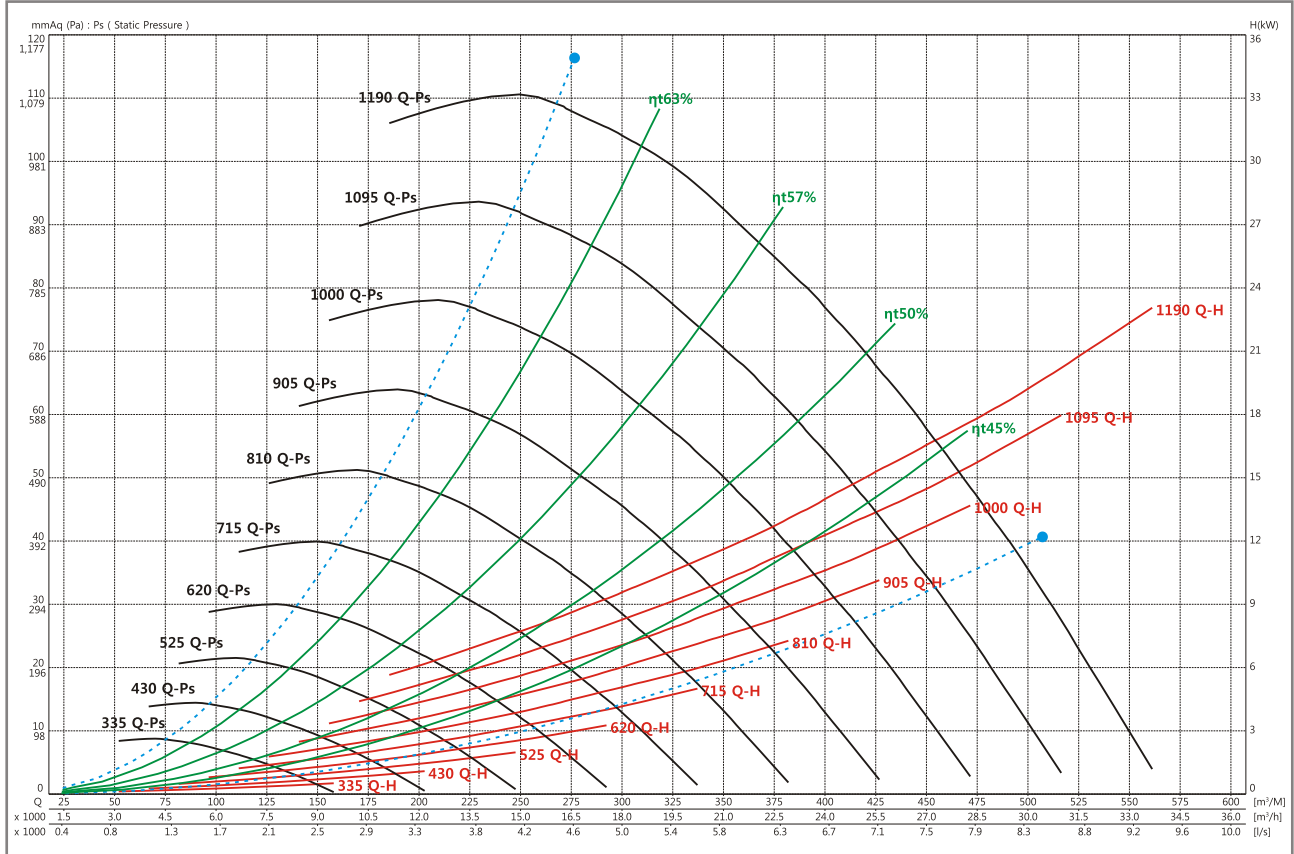
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GSF-3DS

FEG 71

Wheel dia	450 mm	Tip Speed = 0.02356 * rpm	Outlet Dim'	600 * 455	Outlet Area	0.2730 m ²	Class 1	955 rpm	Class 2	1210 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
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
135	8.24	417	0.57	54.6	64	525	0.84	63.2	67												
150	9.16	437	0.72	51.5	67	539	1.00	61.2	67	631	1.33	64.6	71								
165	10.07	461	0.89	49.0	69	556	1.19	58.8	69	642	1.54	63.2	72	723	1.91	65.3	74				
180	10.99	483	1.08	46.9	71	576	1.42	56.6	71	656	1.78	61.6	72	733	2.16	64.2	75	801	2.55	65.6	77
195	11.90	508	1.31	45.2	73	595	1.68	54.2	73	673	2.06	59.6	74	745	2.46	62.9	75	816	2.90	64.5	77
210	12.82	533	1.57	43.6	75	616	1.99	51.8	75	692	2.38	57.8	75	760	2.80	61.3	76	827	3.25	63.4	78
225	13.74	560	1.88	42.2	76	638	2.31	50.2	76	711	2.73	55.9	77	777	3.18	59.6	77	839	3.62	62.2	78
240	14.65	586	2.21	40.9	78	661	2.68	48.5	78	730	3.12	54.1	78	796	3.59	58.1	78	855	4.07	60.8	79
255	15.57	613	2.59	39.9	79	685	3.09	46.9	79	751	3.58	52.1	80	814	4.03	56.4	80	873	4.54	59.4	80
270	16.48	641	3.02	38.9	81	709	3.53	45.6	81	772	4.04	50.6	81	834	4.57	54.7	81	891	5.08	57.8	81
285	17.40	668	3.48	38.1	82	735	4.04	44.4	82	796	4.58	49.2	82	854	5.11	53.3	82	910	5.64	56.4	83
300	18.32	696	4.00	37.3	83	760	4.58	43.3	83	818	5.15	47.9	83	875	5.73	51.7	83	929	6.26	55.0	84

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
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
135	8.24																				
150	9.16																				
165	10.07																				
180	10.99																				
195	11.90																				
210	12.82	891	3.71	64.8	80																
225	13.74	901	4.10	63.9	80	961	4.62	64.9	83												
240	14.65	914	4.56	62.8	80	971	5.06	64.2	83	1027	5.61	64.9	84								
255	15.57	928	5.06	61.5	81	983	5.58	63.1	83	1037	6.14	64.2	84	1089	6.72	64.9	85				
270	16.48	944	5.60	60.1	82	997	6.16	62.0	83	1049	6.71	63.2	84	1100	7.31	64.2	85	1149	7.93	64.8	86
285	17.40	963	6.22	58.8	83	1012	6.75	60.8	83	1062	7.36	62.2	84	1111	7.95	63.3	85	1159	8.55	64.2	86
300	18.32	981	6.84	57.5	84	1030	7.44	59.5	84	1077	8.03	61.2	84	1124	8.66	62.4	85	1171	9.31	63.3	86

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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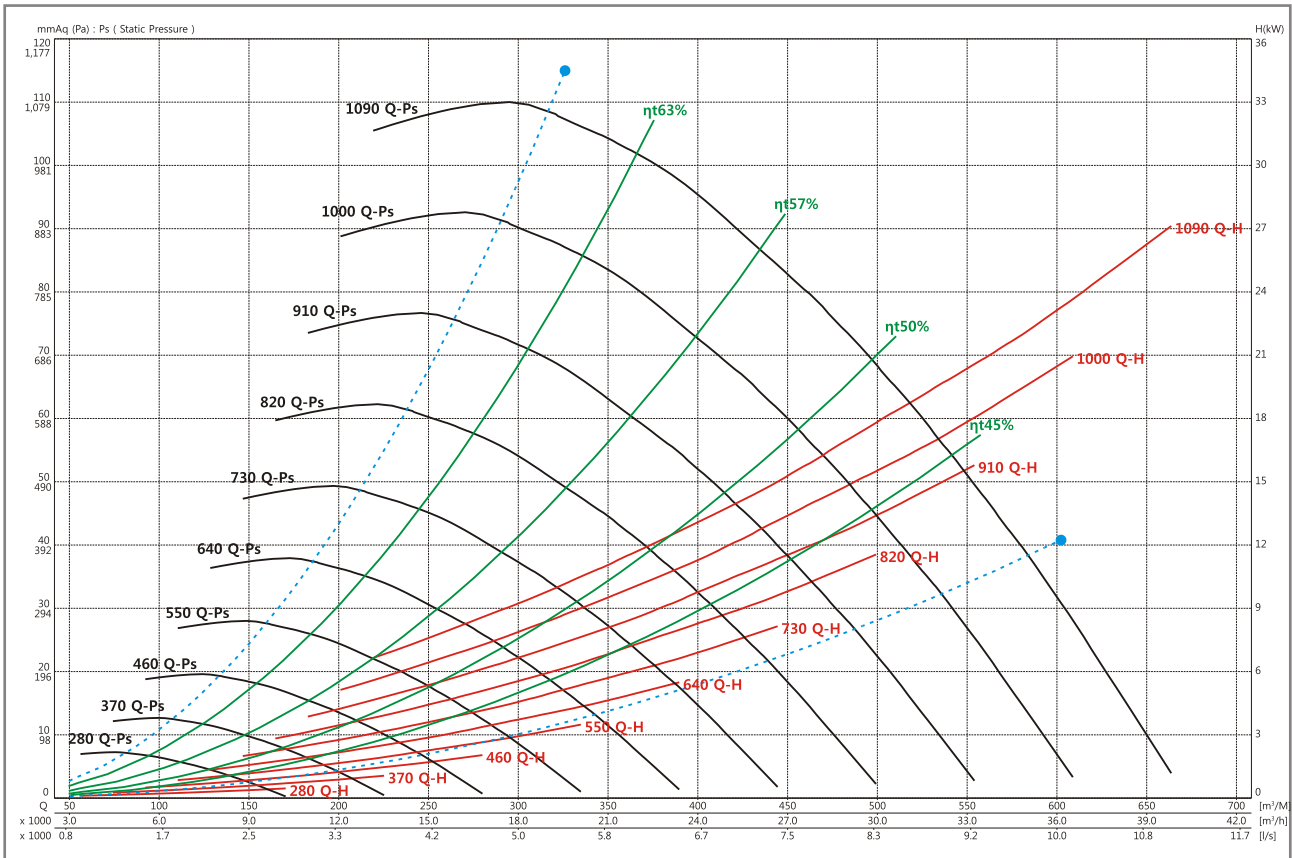
GSF-DS series

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GSF-3.25DS FEG 71

Wheel dia	490 mm	Tip Speed = 0.02566 * rpm	Outlet Dim'	650 * 495	Outlet Area	0.3218 m ²	Class 1	877 rpm	Class 2	1111 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
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
140	7.25	363	0.51	58.5	61	470	0.81	65.1	68												
160	8.29	383	0.68	54.7	65	482	0.99	63.2	68												
180	9.32	404	0.87	51.4	67	497	1.22	60.9	68	581	1.61	64.4	72								
200	10.36	428	1.11	48.5	70	516	1.49	58.1	71	593	1.90	62.9	72	666	2.33	65.0	75				
220	11.40	452	1.38	46.2	72	535	1.80	55.6	73	608	2.23	60.9	73	677	2.69	63.7	75	743	3.17	65.3	77
240	12.43	478	1.70	44.4	74	556	2.17	53.1	75	626	2.62	58.6	75	691	3.11	62.2	76	754	3.62	64.2	78
260	13.47	505	2.08	42.9	76	578	2.58	50.8	76	646	3.07	56.6	77	707	3.58	60.3	77	766	4.11	62.8	78
280	14.50	532	2.51	41.4	78	602	3.07	48.7	78	666	3.59	54.4	78	726	4.11	58.5	79	781	4.68	61.2	79
300	15.54	560	3.01	40.0	80	625	3.58	47.1	80	687	4.17	52.3	80	745	4.72	56.6	80	799	5.32	59.5	80
320	16.58	588	3.57	38.9	81	651	4.19	45.6	81	709	4.79	50.6	81	765	5.39	54.7	82	819	6.01	57.9	82
340	17.61	617	4.20	38.1	83	677	4.85	44.3	83	733	5.52	48.9	83	786	6.15	52.9	83	838	6.77	56.3	83
360	18.65	646	4.90	37.3	84	704	5.59	43.2	84	757	6.28	47.7	84	808	6.97	51.3	84	858	7.64	54.6	85

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
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
140	7.25																				
160	8.29																				
180	9.32																				
200	10.36																				
220	11.40																				
240	12.43	813	4.16	65.3	80																
260	13.47	824	4.68	64.3	80	879	5.26	65.3	82												
280	14.50	836	5.25	63.1	81	890	5.88	64.3	82	941	6.49	65.2	85								
300	15.54	850	5.90	61.7	81	902	6.55	63.2	83	951	7.20	64.3	85	999	7.85	65.0	87				
320	16.58	867	6.64	60.1	82	915	7.29	62.0	83	963	7.98	63.2	85	1010	8.66	64.2	86	1055	9.39	64.8	87
340	17.61	886	7.44	58.6	83	931	8.10	60.6	84	977	8.81	62.1	85	1022	9.54	63.2	86	1066	10.3	64.2	87
360	18.65	905	8.30	57.1	85	950	9.02	59.2	85	993	9.74	60.9	85	1036	10.5	62.2	86	1078	11.2	63.1	87

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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GSF-DS series

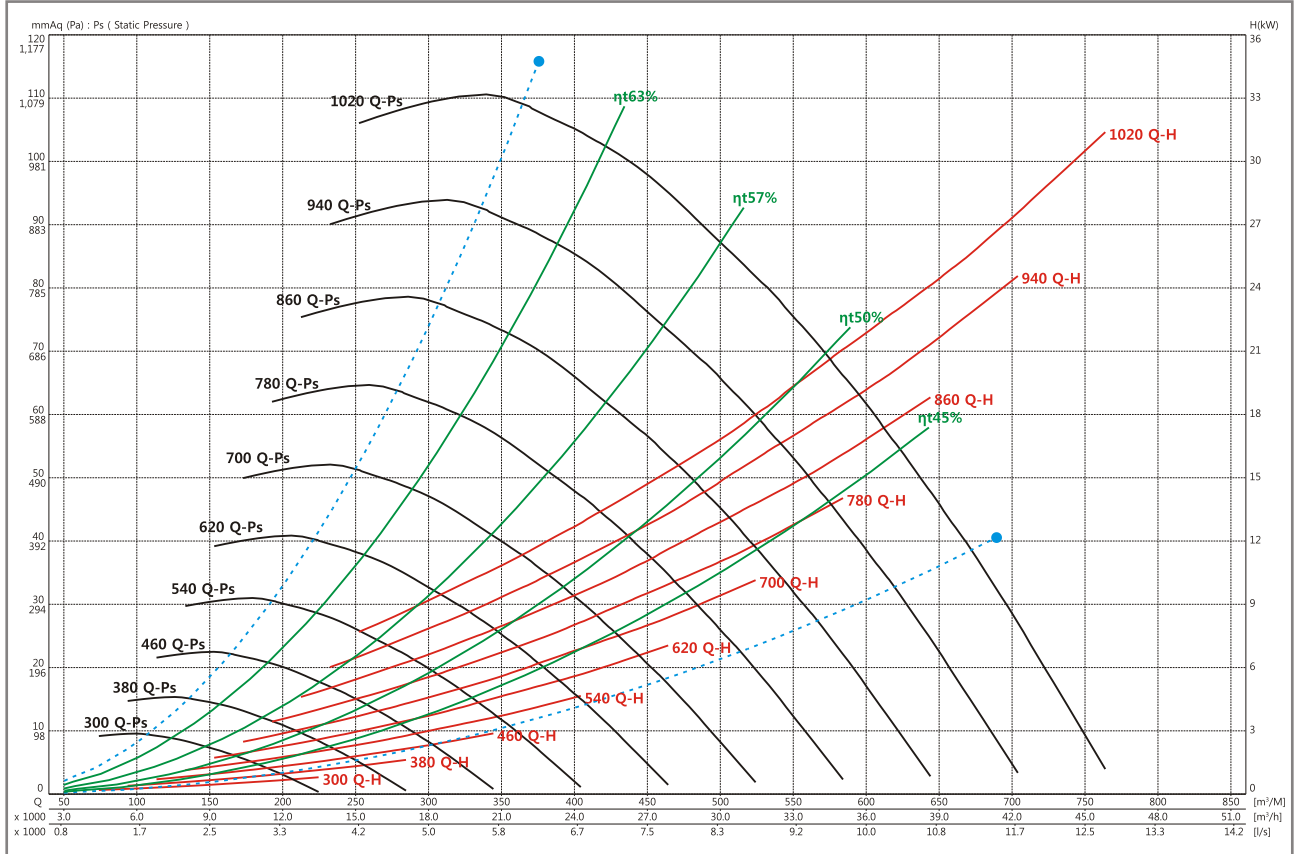
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GSF-3.5DS

FEG 71

Wheel dia	525 mm	Tip Speed = 0.02749 * rpm	Outlet Dim'	700 * 535	Outlet Area	0.3745 m ²	Class 1	819 rpm	Class 2	1037 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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
200	8.90	372	0.94	52.2	67		459	1.32	61.5	68		539	1.75	64.9	74											
220	9.79	390	1.16	49.5	69		474	1.58	59.3	70		548	2.02	63.6	73		616	2.50	65.6	76						
240	10.68	410	1.41	47.4	71		489	1.86	56.9	72		559	2.34	62.0	73		626	2.86	64.4	76						
260	11.57	430	1.70	45.6	73		505	2.19	54.7	74		573	2.71	60.1	74		636	3.24	63.2	76		697	3.82	64.8	78	
280	12.46	451	2.04	44.0	75		522	2.57	52.5	75		588	3.10	58.3	76		647	3.67	61.7	76		706	4.26	63.9	78	
300	13.35	473	2.42	42.8	77		541	3.00	50.6	77		604	3.56	56.4	77		661	4.15	60.1	78		716	4.76	62.7	79	
320	14.24	495	2.85	41.4	79		560	3.47	48.9	78		620	4.07	54.6	79		676	4.69	58.5	79		728	5.33	61.3	79	
340	15.13	517	3.33	40.4	80		580	4.00	47.4	80		637	4.64	52.7	80		692	5.27	56.9	80		742	5.93	59.9	81	
360	16.02	540	3.89	39.2	82		600	4.58	46.0	81		656	5.28	51.2	81		708	5.94	55.3	82		758	6.64	58.3	82	
380	16.91	564	4.50	38.4	83		621	5.22	44.8	82		674	5.95	49.7	82		724	6.62	53.9	83		774	7.38	56.9	83	
400	17.80	587	5.15	37.7	84		642	5.90	43.8	84		694	6.70	48.5	84		743	7.46	52.2	84		790	8.18	55.6	84	
420	18.69	610	5.87	36.9	85		664	6.67	42.9	85		713	7.50	47.1	85		761	8.30	50.9	85		806	9.05	54.2	85	

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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
200	8.90																									
220	9.79																									
240	10.68																									
260	11.57																									
280	12.46	761	4.89	65.0	80																					
300	13.35	770	5.41	64.2	80		821	6.08	65.2	82																
320	14.24	780	6.00	63.1	81		830	6.71	64.3	83		877	7.41	65.2	84											
340	15.13	791	6.65	62.0	81		839	7.37	63.3	83		886	8.11	64.4	84		931	8.86	65.2	86						
360	16.02	804	7.35	60.7	82		850	8.09	62.4	83		895	8.86	63.5	85		939	9.66	64.4	86		982	10.5	65.1	88	
380	16.91	819	8.10	59.4	83		862	8.87	61.2	84		906	9.66	62.7	85		949	10.5	63.7	86		990	11.3	64.4	88	
400	17.80	835	8.95	58.1	84		877	9.76	60.0	85		918	10.5	61.6	85		959	11.4	62.8	86		1000	12.3	63.7	88	
420	18.69	850	9.86	56.7	85		892	10.7	58.8	86		931	11.5	60.5	86		971	12.4	61.9	87		1010	13.3	62.9	88	

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

2015Jan-R10.0

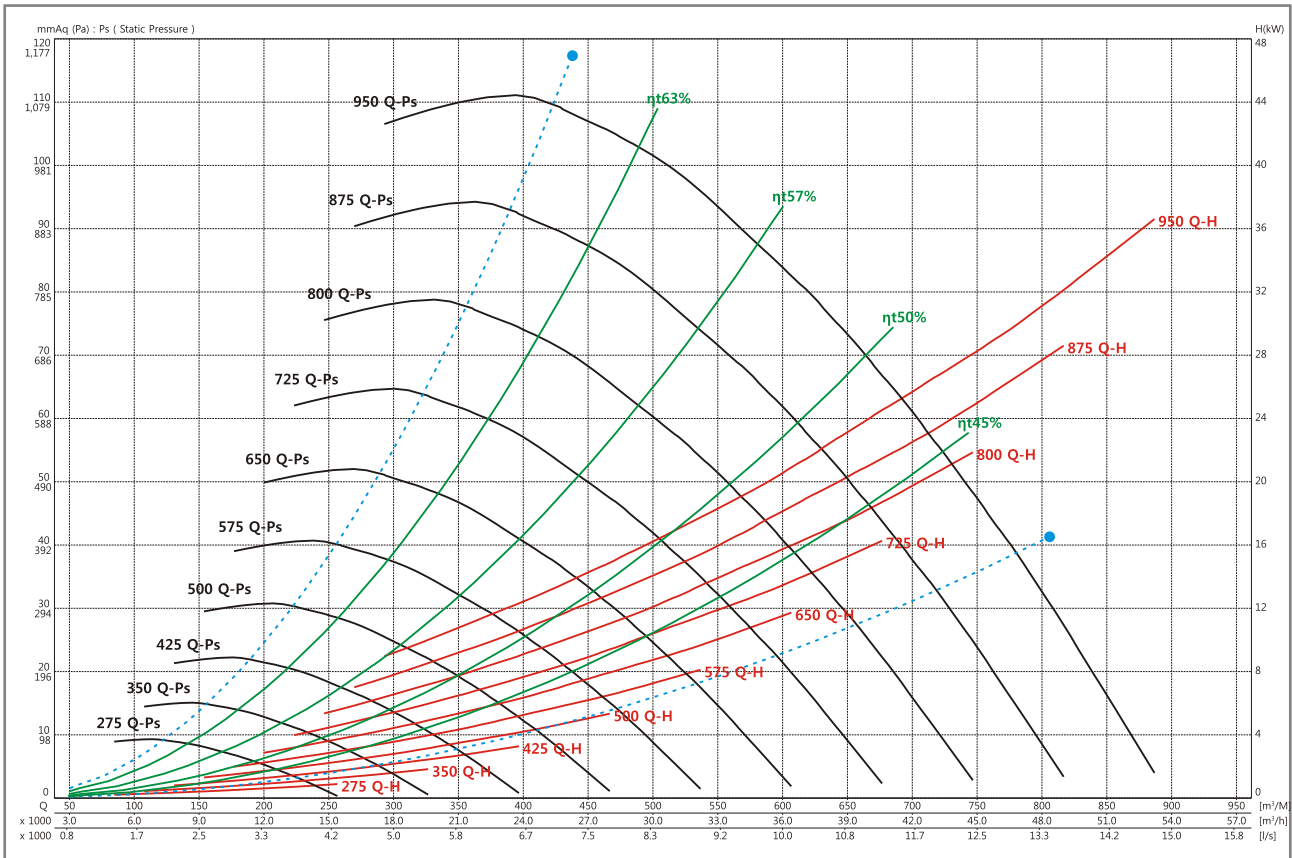
GSF-DS series

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GSF-3.75DS FEG 71

Wheel dia	565 mm	Tip Speed = 0.02958 * rpm	Outlet Dim'	750 * 570	Outlet Area	0.4275 m ²	Class 1	761 rpm	Class 2	963 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
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
210	8.19	330	0.87	55.1	65	417	1.30	63.4	68												
230	8.97	344	1.07	52.3	67	426	1.51	61.7	68	500	2.01	65.0	75								
250	9.75	359	1.28	50.2	69	437	1.76	59.7	70	507	2.28	63.9	74								
270	10.53	374	1.52	48.2	71	450	2.04	57.8	72	516	2.58	62.6	74	579	3.17	64.8	77				
290	11.31	390	1.80	46.5	72	462	2.35	55.7	73	526	2.93	61.0	74	586	3.53	63.9	77	643	4.17	65.3	79
310	12.09	407	2.12	44.9	74	475	2.69	53.9	75	538	3.31	59.5	75	595	3.94	62.7	77	650	4.60	64.4	79
330	12.87	424	2.47	43.6	76	490	3.11	51.9	76	550	3.72	57.8	77	605	4.38	61.5	77	658	5.08	63.5	79
350	13.65	441	2.85	42.5	77	504	3.53	50.3	78	563	4.18	56.3	78	616	4.88	60.0	78	667	5.60	62.5	79
370	14.42	459	3.28	41.4	79	520	4.02	48.9	79	576	4.70	54.6	79	628	5.41	58.6	79	676	6.15	61.3	80
390	15.20	477	3.76	40.5	80	535	4.51	47.7	80	590	5.28	53.1	80	641	6.00	57.2	80	688	6.77	60.1	81
410	15.98	496	4.31	39.6	82	552	5.10	46.5	81	604	5.88	51.7	81	654	6.64	55.9	82	700	7.43	58.8	82
430	16.76	514	4.88	38.7	83	569	5.72	45.4	82	619	6.55	50.3	82	667	7.35	54.4	83	712	8.13	57.6	83

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
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
210	8.19																				
230	8.97																				
250	9.75																				
270	10.53																				
290	11.31																				
310	12.09																				
330	12.87	709	5.80	64.8	81																
350	13.65	716	6.33	64.2	81	764	7.12	65.1	82												
370	14.42	724	6.93	63.1	81	771	7.76	64.3	83	815	8.54	65.3	84								
390	15.20	733	7.56	62.2	82	778	8.40	63.5	83	822	9.25	64.5	84	863	10.1	65.3	86				
410	15.98	743	8.24	61.1	82	787	9.11	62.7	83	829	10.0	63.9	85	871	10.9	64.6	86	910	11.8	65.4	88
430	16.76	755	9.00	59.9	83	796	9.88	61.7	84	837	10.8	63.1	85	877	11.7	64.1	86	917	12.7	64.7	88

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

2015Jan-R10.0

GSF-DS series

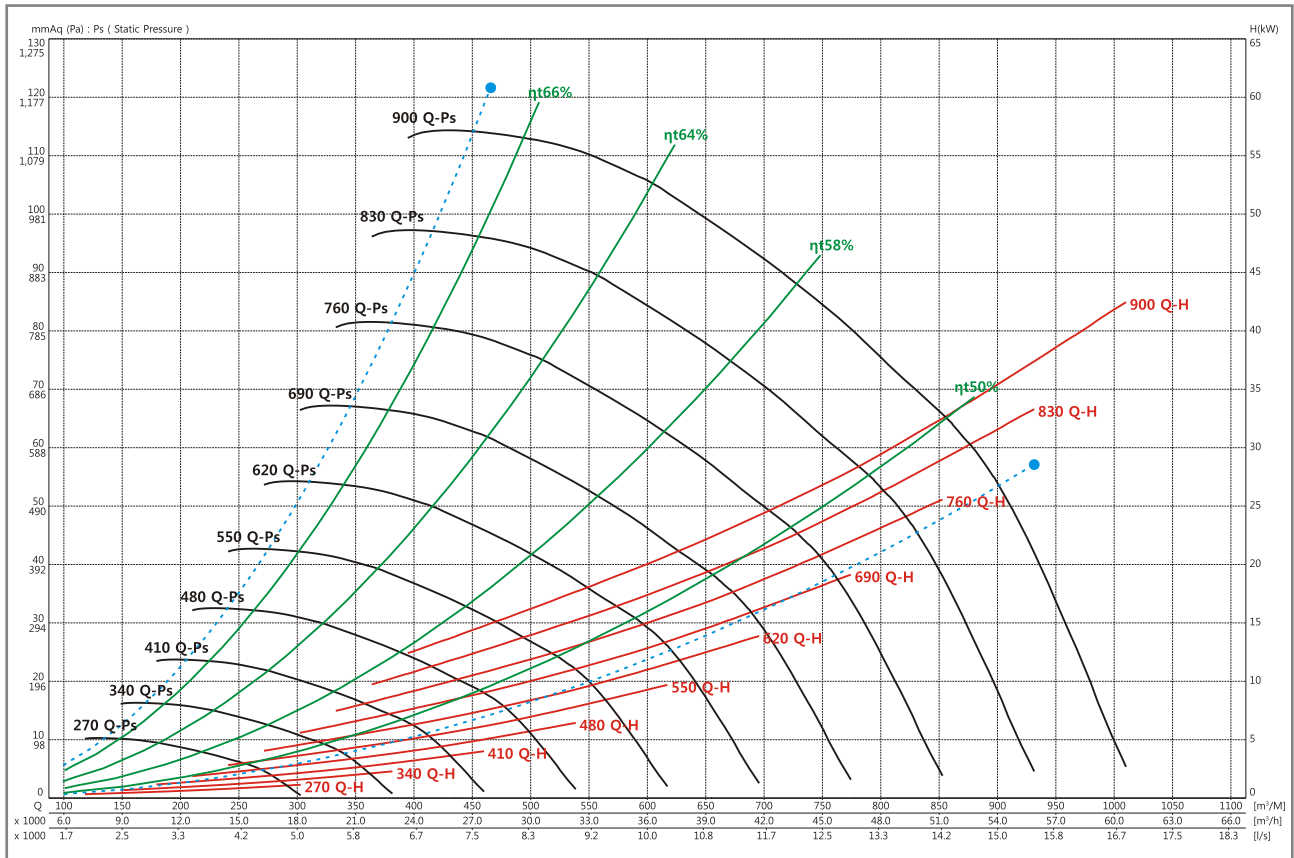
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GSF-4DS

FEG 71

Wheel dia	600 mm	Tip Speed = 0.03142 * rpm	Outlet Dim'	800 * 610	Outlet Area	0.4880 m ²	Class 1	716 rpm	Class 2	907 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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
250	8.54	306	1.02	57.6	64		388	1.54	64.6	63		463	2.14	65.8	68											
275	9.39	319	1.26	55.1	67		397	1.80	63.1	63		467	2.43	65.6	68		533	3.10	65.8	72						
300	10.25	333	1.52	52.8	69		408	2.12	61.3	66		474	2.76	64.8	68		536	3.45	65.8	72		596	4.21	65.8	75	
325	11.10	347	1.83	50.9	71		419	2.46	59.5	70		482	3.12	63.9	69		541	3.86	65.5	72		598	4.63	65.8	75	
350	11.95	362	2.19	48.9	72		431	2.85	57.7	73		492	3.55	62.3	69		548	4.30	64.7	72		602	5.11	65.7	75	
375	12.81	379	2.60	47.2	74		443	3.27	56.1	75		503	4.04	60.8	72		556	4.80	63.9	73		608	5.64	65.2	75	
400	13.66	397	3.07	45.5	75		457	3.77	54.4	77		514	4.56	59.4	76		566	5.37	62.5	73		615	6.22	64.5	76	
425	14.52	417	3.63	44.1	77		471	4.32	52.8	78		526	5.14	57.9	78		577	5.99	61.3	75		624	6.87	63.6	76	
450	15.37	436	4.24	42.4	78		485	4.93	51.3	79		538	5.77	56.6	79		588	6.66	60.0	78		634	7.57	62.5	76	
475	16.22	456	4.92	41.2	80		499	5.58	50.0	80		552	6.48	55.3	81		600	7.41	58.8	80		645	8.37	61.3	78	
500	17.08	476	5.67	40.0	81		515	6.34	48.7	81		565	7.24	53.8	82		612	8.20	57.6	82		656	9.22	60.1	81	
525	17.93	497	6.51	39.3	82		532	7.18	47.4	83		580	8.12	52.6	83		624	9.07	56.3	83		667	10.1	59.1	83	

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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
250	8.54																									
275	9.39																									
300	10.25																									
325	11.10	649	5.41	65.7	78																					
350	11.95	655	5.97	65.9	78																					
375	12.81	658	6.52	65.8	78	707	7.44	65.9	80																	
400	13.66	663	7.12	65.5	78	710	8.08	65.8	80	755	9.07	65.9	82	798	10.1	65.7	83									
425	14.52	670	7.82	64.8	78	714	8.77	65.5	80	758	9.78	65.8	82	801	10.8	65.9	83	843	11.9	65.8	85					
450	15.37	678	8.53	64.2	78	721	9.53	65.1	80	763	10.6	65.6	82	804	11.6	65.8	83	845	12.8	65.9	85					
475	16.22	687	9.32	63.2	78	728	10.4	64.4	80	769	11.4	65.2	82	808	12.5	65.6	83	848	13.7	65.8	85					
500	17.08	698	10.2	62.2	79	737	11.2	63.8	80	776	12.3	64.6	82	814	13.5	65.3	84	852	14.7	65.6	85					
525	17.93	708	11.2	61.1	81	747	12.2	62.7	81	784	13.3	64.0	82	822	14.5	64.8	84	858	15.7	65.4	85					

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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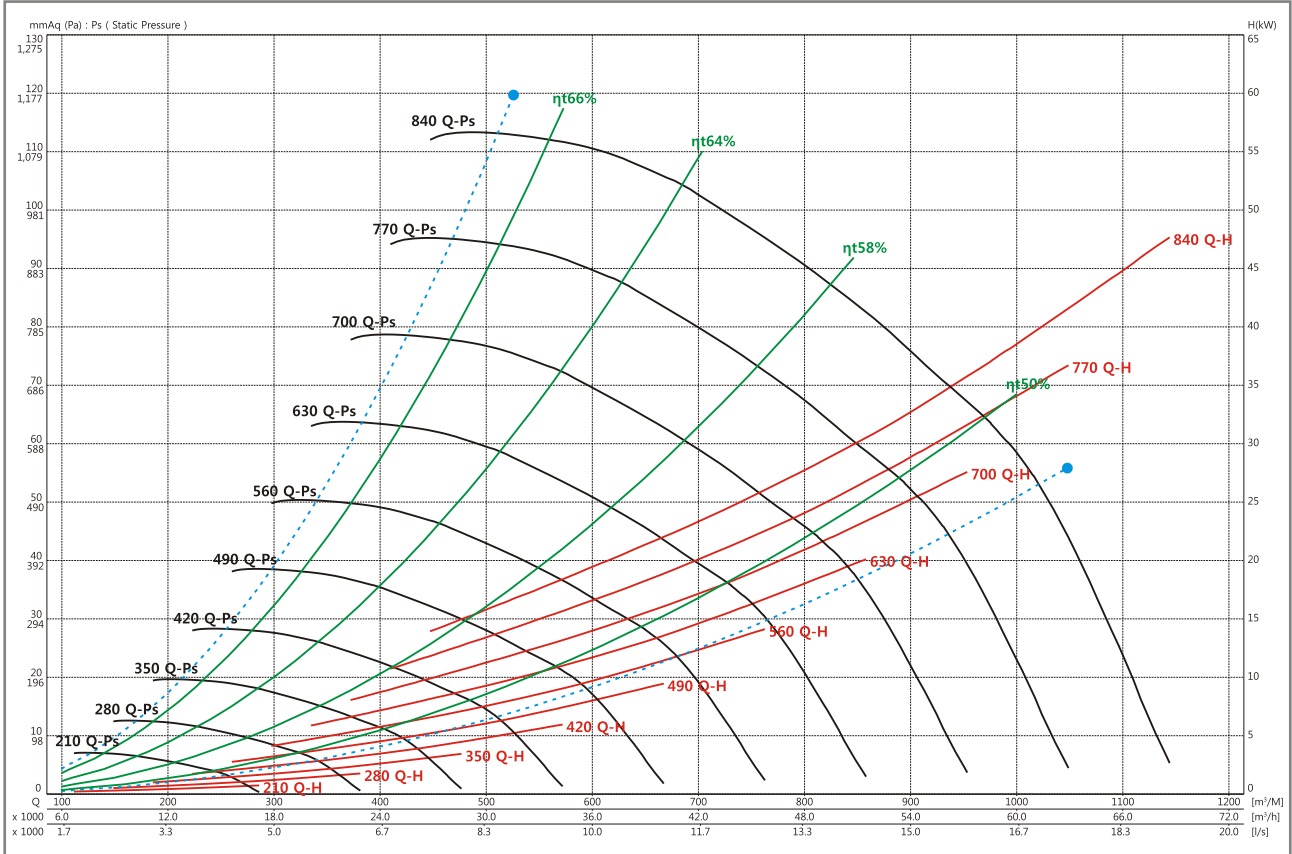
GSF-DS series

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GSF-4.25DS FEG 71

Wheel dia	640 mm	Tip Speed = 0.03351 * rpm	Outlet Dim'	850 * 650	Outlet Area	0.5525 m ²	Class 1	671 rpm	Class 2	850 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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
250	7.54	274	0.91	60.5	58		357	1.46	65.7	63																
280	8.45	285	1.13	57.9	64		363	1.72	64.8	63		434	2.39	65.9	68											
310	9.35	298	1.40	55.5	67		371	2.02	63.3	63		437	2.72	65.6	68		500	3.49	65.8	72						
340	10.26	312	1.73	52.9	69		382	2.39	61.4	65		444	3.12	64.9	69		503	3.92	65.8	72		558	4.75	65.8	75	
370	11.16	326	2.09	50.9	71		393	2.80	59.5	70		452	3.56	63.9	69		507	4.38	65.5	72		561	5.28	65.8	75	
400	12.07	341	2.53	48.9	73		405	3.26	57.7	73		462	4.07	62.3	69		514	4.93	64.7	73		565	5.86	65.7	75	
430	12.97	357	3.02	46.9	74		417	3.78	56.0	75		472	4.64	60.7	73		522	5.52	63.7	73		571	6.50	65.1	76	
460	13.88	376	3.61	45.4	76		431	4.40	54.1	77		484	5.29	59.2	76		533	6.22	62.4	73		578	7.19	64.4	76	
490	14.78	395	4.29	43.7	78		445	5.08	52.5	79		498	6.00	57.7	78		543	6.98	61.0	76		587	7.98	63.3	76	
520	15.69	414	5.03	42.1	79		459	5.83	51.0	80		506	6.77	56.3	80		554	7.81	59.6	79		597	8.86	62.1	77	
550	16.59	434	5.87	41.1	80		473	6.63	49.6	81		521	7.64	54.8	82		566	8.72	58.4	81		608	9.83	60.9	79	
580	17.50	454	6.82	39.7	82		489	7.56	48.3	82		535	8.62	53.3	83		578	9.71	57.1	83		619	10.9	59.7	82	

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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
250	7.54																									
280	8.45																									
310	9.35																									
340	10.26																									
370	11.16	609	6.17	65.7	78																					
400	12.07	614	6.83	65.9	78		658	7.78	65.7	80																
430	12.97	617	7.50	65.7	78		663	8.55	65.9	80		706	9.63	65.8	82											
460	13.88	622	8.23	65.4	78		666	9.32	65.8	80		709	10.5	65.9	82		749	11.6	65.8	84						
490	14.78	630	9.08	64.7	78		671	10.2	65.5	80		712	11.4	65.8	82		752	12.5	65.9	84		790	13.8	65.8	85	
520	15.69	638	10.0	64.0	78		678	11.1	64.9	80		716	12.3	65.5	82		755	13.5	65.8	84		793	14.8	65.9	85	
550	16.59	648	11.0	62.9	79		685	12.1	64.2	80		723	13.3	65.0	82		759	14.6	65.5	84		796	15.9	65.8	85	
580	17.50	658	12.1	61.7	80		695	13.3	63.3	81		730	14.5	64.4	82		766	15.8	65.1	84		801	17.1	65.5	85	

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

2015Jan-R10.0

GSF-DS series

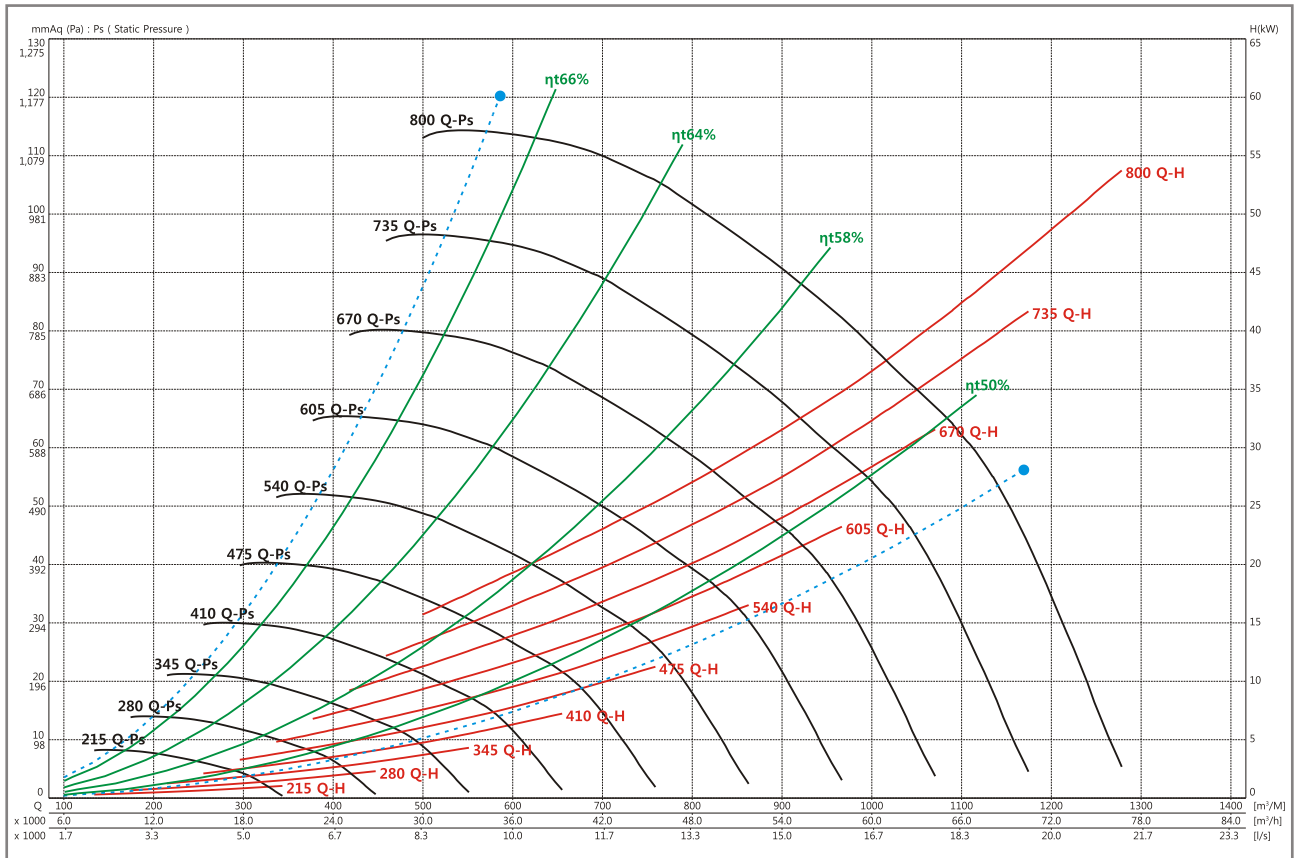
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GSF-4.5DS

FEG 71

Wheel dia	675 mm	Tip Speed = 0.03534 * rpm	Outlet Dim'	900 * 685	Outlet Area	0.6165 m ²	Class 1	637 rpm	Class 2	806 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
260	7.03	254	0.89	62.0	54	336	1.48	65.8	63												
300	8.11	266	1.17	58.7	63	342	1.81	65.2	63	411	2.54	65.8	69								
340	9.19	280	1.50	55.7	67	351	2.20	63.6	63	414	2.97	65.7	68	474	3.82	65.8	73				
380	10.27	296	1.93	52.8	70	363	2.68	61.3	66	421	3.49	64.8	69	477	4.39	65.8	73	530	5.34	65.8	76
420	11.35	312	2.43	50.4	72	375	3.24	59.0	71	431	4.10	63.5	69	482	5.01	65.4	73	532	6.02	65.8	76
460	12.44	330	3.04	48.1	74	389	3.88	56.9	74	442	4.80	61.5	71	491	5.77	64.3	73	537	6.80	65.5	76
500	13.52	350	3.78	45.8	76	404	4.65	54.8	77	455	5.63	59.7	75	501	6.63	62.8	73	546	7.74	64.6	76
540	14.60	371	4.64	43.7	78	420	5.53	52.7	79	468	6.54	57.9	78	513	7.63	61.1	76	555	8.73	63.5	76
580	15.68	393	5.63	41.9	79	435	6.50	50.9	80	482	7.57	56.2	80	526	8.74	59.6	79	567	9.92	62.1	77
620	16.76	416	6.78	40.6	81	452	7.63	49.2	82	497	8.74	54.4	82	539	10.0	58.0	82	579	11.2	60.6	80
660	17.84	439	8.08	39.3	82	471	8.93	47.7	83	513	10.1	52.7	84	553	11.3	56.5	84	592	12.6	59.2	83
700	18.92	462	9.53	38.3	84	491	10.4	46.1	84	529	11.6	51.2	85	568	12.8	55.0	85	605	14.2	57.8	85

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
260	7.03																				
300	8.11																				
340	9.19																				
380	10.27																				
420	11.35	580	7.07	65.8	78																
460	12.44	583	7.93	65.8	78	627	9.08	65.8	80												
500	13.52	588	8.86	65.5	78	630	10.1	65.8	80	671	11.3	65.8	82								
540	14.60	596	9.94	64.8	78	635	11.1	65.5	80	674	12.4	65.8	82	712	13.8	65.9	84	749	15.2	65.8	85
580	15.68	605	11.1	63.9	78	643	12.4	64.8	80	679	13.7	65.5	82	716	15.1	65.8	84	752	16.5	65.8	85
620	16.76	616	12.4	62.6	79	652	13.8	64.1	81	687	15.2	64.8	82	721	16.5	65.5	84	756	18.0	65.7	85
660	17.84	628	14.0	61.2	81	663	15.3	62.9	81	696	16.7	64.2	82	729	18.2	64.8	84	761	19.6	65.4	85
700	18.92	641	15.6	60.0	84	675	17.0	61.7	82	707	18.5	63.0	83	738	19.9	64.2	84	770	21.5	64.8	85

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

2015Jan-R10.0

GSF-DS series

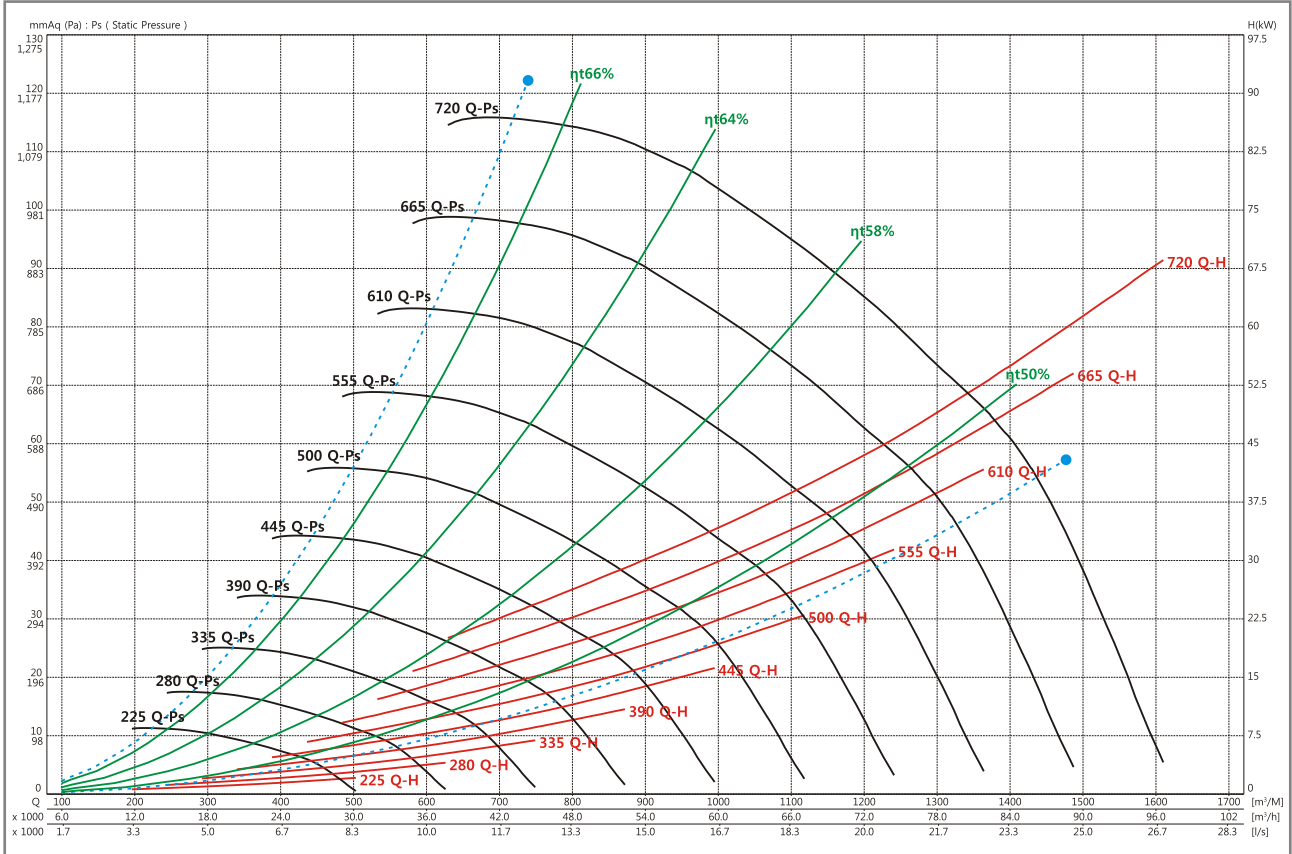
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GSF-5DS

FEG 71

Wheel dia	755 mm	Tip Speed = 0.03953 * rpm	Outlet Dim'	1000 * 760	Outlet Area	0.7600 m ²	Class 1	569 rpm	Class 2	721 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
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
300	6.58	225	0.99	64.0	54	299	1.68	65.8	63												
350	7.68	232	1.27	60.3	59	302	2.04	65.7	63												
400	8.77	244	1.66	57.2	66	309	2.49	64.5	63	368	3.43	65.8	69								
450	9.87	258	2.14	54.4	69	319	3.04	62.5	64	373	4.02	65.5	69	425	5.11	65.9	73				
500	10.96	272	2.72	51.6	71	330	3.69	60.2	69	380	4.70	64.3	69	428	5.85	65.6	73	475	7.09	65.9	76
550	12.06	287	3.41	49.3	73	341	4.43	57.9	74	390	5.54	62.5	69	435	6.74	64.8	73	478	8.01	65.7	76
600	13.16	303	4.22	46.9	75	354	5.30	55.9	76	401	6.51	60.6	73	443	7.73	63.6	73	484	9.07	65.1	76
650	14.25	322	5.23	44.7	77	368	6.32	53.8	78	412	7.57	58.8	78	454	8.92	62.0	74	491	10.2	64.2	76
700	15.35	342	6.41	43.0	79	382	7.51	51.7	80	425	8.82	57.1	80	464	10.2	60.3	78	501	11.6	62.8	76
750	16.45	362	7.73	41.6	81	396	8.79	50.1	81	438	10.2	55.4	82	476	11.6	58.9	81	512	13.2	61.4	79
800	17.54	382	9.25	40.0	82	412	10.3	48.5	83	452	11.8	53.7	84	488	13.3	57.3	83	523	14.9	59.9	82
850	18.64	403	11.0	39.0	84	430	12.0	47.0	84	466	13.5	52.0	85	501	15.0	55.8	85	535	16.7	58.5	85

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
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
300	6.58																				
350	7.68																				
400	8.77																				
450	9.87																				
500	10.96																				
550	12.06	520	9.36	65.9	78																
600	13.16	523	10.5	65.7	78	562	12.0	65.9	81	599	13.5	65.8	82								
650	14.25	529	11.7	65.2	78	565	13.2	65.7	80	601	14.8	65.8	82	636	16.5	65.8	84				
700	15.35	536	13.1	64.4	79	571	14.7	65.3	81	605	16.4	65.7	82	638	18.0	65.8	84	671	19.8	65.8	85
750	16.45	546	14.7	63.3	79	578	16.3	64.5	81	611	18.0	65.3	82	642	19.8	65.6	84	674	21.6	65.8	85
800	17.54	556	16.5	61.9	80	587	18.1	63.5	81	618	19.9	64.5	83	648	21.7	65.2	84	678	23.5	65.6	85
850	18.64	567	18.4	60.6	83	598	20.2	62.3	81	627	21.9	63.7	83	656	23.8	64.5	84	684	25.7	65.1	86

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

2015Jan-R10.0

GSF-DS series

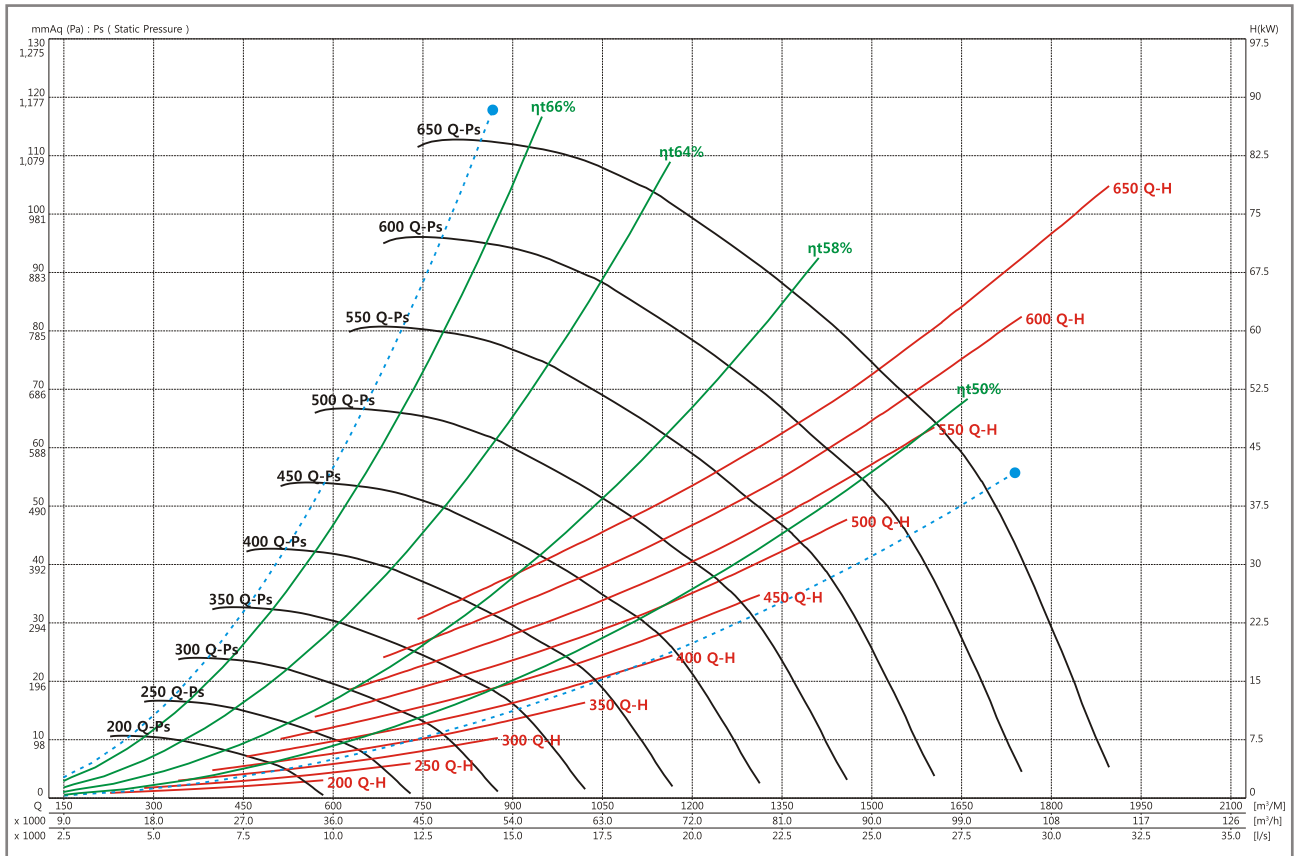
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GSF-5.5DS

FEG 71

Wheel dia	825 mm	Tip Speed =	0.0432 * rpm	Outlet Dim'	1100 * 840	Outlet Area	0.9240 m ²	Class 1	521 rpm	Class 2	660 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	SPL		rpm	BkW	η _t	SPL		rpm	BkW	η _t	SPL		rpm	BkW	η _t	SPL		rpm	BkW	η _t	SPL	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
450	8.12	218	1.75	58.7	64		280	2.72	65.2	64		336	3.81	65.8	69											
500	9.02	228	2.18	56.2	67		286	3.20	63.9	64		338	4.34	65.8	69		384	5.50	65.7	73						
550	9.92	238	2.68	53.6	70		294	3.78	62.0	65		342	4.96	65.2	69		389	6.28	65.8	73						
600	10.82	249	3.28	51.3	72		302	4.43	60.0	70		348	5.67	64.2	69		392	7.05	65.6	73		434	8.48	65.9	76	
650	11.72	261	3.97	49.6	74		311	5.18	58.2	74		356	6.51	62.7	69		397	7.92	64.9	73		437	9.43	65.8	76	
700	12.63	273	4.76	47.5	75		321	6.03	56.5	76		364	7.44	61.1	73		403	8.87	64.1	73		441	10.4	65.4	76	
750	13.53	287	5.70	45.6	77		331	6.99	54.7	78		373	8.48	59.6	76		411	10.0	62.7	73		447	11.6	64.6	76	
800	14.43	302	6.78	44.1	78		342	8.10	52.9	79		382	9.63	58.1	79		419	11.2	61.4	76		453	12.9	63.7	76	
850	15.33	317	8.00	42.6	80		353	9.33	51.4	81		391	10.9	56.6	81		427	12.6	60.0	79		461	14.3	62.5	77	
900	16.23	332	9.35	41.1	81		364	10.6	50.1	82		401	12.3	55.2	82		436	14.0	58.7	82		469	15.8	61.2	79	
950	17.14	348	10.9	40.2	82		376	12.1	48.7	83		412	13.9	53.7	84		446	15.7	57.4	84		478	17.6	60.0	82	
1000	18.04	364	12.6	39.2	84		389	13.8	47.3	84		423	15.6	52.4	85		455	17.4	56.2	85		487	19.4	58.9	85	

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	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
450	8.12																				
500	9.02																				
550	9.92																				
600	10.82																				
650	11.72	476	11.1	65.8	79																
700	12.63	478	12.1	65.8	79	514	13.9	65.8	81												
750	13.53	481	13.3	65.5	79	516	15.1	65.8	81	549	17.0	65.8	83								
800	14.43	487	14.7	64.9	79	519	16.5	65.6	81	551	18.4	65.8	83	583	20.4	65.9	84	613	22.4	65.7	86
850	15.33	493	16.1	64.2	79	524	18.0	65.1	81	555	20.0	65.6	83	585	22.0	65.8	84	614	24.1	65.9	86
900	16.23	500	17.7	63.2	79	530	19.6	64.4	81	559	21.6	65.2	83	588	23.8	65.6	84	617	25.9	65.8	86
950	17.14	508	19.5	62.0	80	537	21.5	63.7	81	565	23.5	64.6	83	593	25.7	65.3	84	620	27.9	65.6	86
1000	18.04	516	21.4	60.9	83	545	23.5	62.6	81	571	25.5	63.9	83	598	27.7	64.7	84	625	30.0	65.3	86

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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GSF-DS series

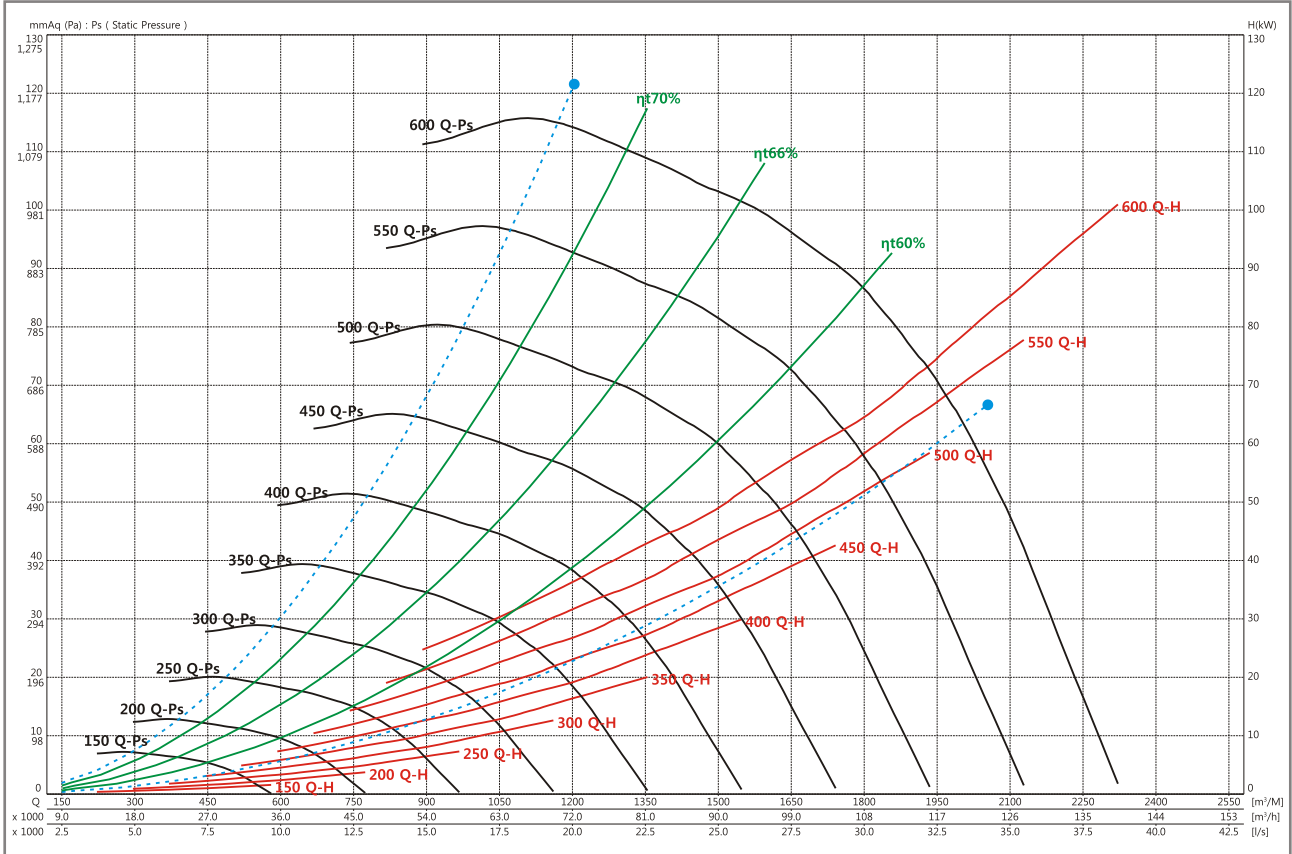
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GSF-6DS

FEG 75

Wheel dia	900 mm	Tip Speed = 0.04712 * rpm	Outlet Dim'	1200 * 915	Outlet Area	1.0980 m ²	Class 1	477 rpm	Class 2	605 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	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
540	8.20	194	1.98	62.9	67	254	3.01	70.7	70												
600	9.11	202	2.44	60.6	69	259	3.57	68.9	71	306	4.71	73.0	75								
660	10.02	212	3.05	57.0	71	264	4.19	67.3	72	311	5.52	70.7	75								
720	10.93	223	3.8	53.5	74	269	4.99	64.5	75	315	6.35	69.1	76	355	7.70	72.2	79				
780	11.84	235	4.69	50.4	76	277	5.84	62.4	76	321	7.23	68.1	77	360	8.81	70.2	79	396	10.2	72.9	82
840	12.75	248	5.71	48.0	78	285	6.75	60.9	78	326	8.32	65.9	79	365	9.95	69.0	80	400	11.6	71.0	82
900	13.66	261	6.87	45.8	81	294	7.89	58.5	79	332	9.53	63.9	80	371	11.1	68.1	81	405	13.0	69.6	83
960	14.57	274	8.18	44.1	82	305	9.28	55.8	81	340	10.8	62.2	82	375	12.5	66.3	82	410	14.4	68.8	83
1020	15.48	288	9.67	42.5	84	316	10.8	53.5	83	347	12.2	61.1	83	381	14.1	64.5	84	416	15.9	67.8	84
1080	16.39	302	11.3	41.2	86	328	12.5	51.3	85	357	13.8	59.3	84	389	15.8	62.9	85	420	17.7	66.1	86
1140	17.30	317	13.2	40.0	87	340	14.5	49.4	86	367	15.7	57.2	85	396	17.6	61.7	86	426	19.7	64.5	87
1200	18.21	331	15.3	39.0	89	353	16.6	47.7	88	378	17.9	55.0	87	404	19.5	60.6	87	434	21.8	63.0	88

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	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
540	8.20																				
600	9.11																				
660	10.02																				
720	10.93																				
780	11.84																				
840	12.75	431	13.0	73.1	84																
900	13.66	437	14.6	71.7	84																
960	14.57	442	16.3	70.1	85	471	18.1	72.0	86												
1020	15.48	446	18.0	69.1	85	475	20.0	70.5	87	503	21.8	72.2	88								
1080	16.39	452	19.7	68.5	86	480	22.0	69.3	87	508	24.1	70.7	89	533	26.0	72.2	90				
1140	17.30	457	21.6	67.4	87	485	23.9	68.8	88	512	26.3	69.6	89	538	28.5	70.8	90	562	30.5	72.2	91
1200	18.21	462	24.0	65.7	88	491	26.1	68.0	88	517	28.5	68.9	90	543	31.0	69.7	91	567	33.3	70.8	92

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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GSF-DS series

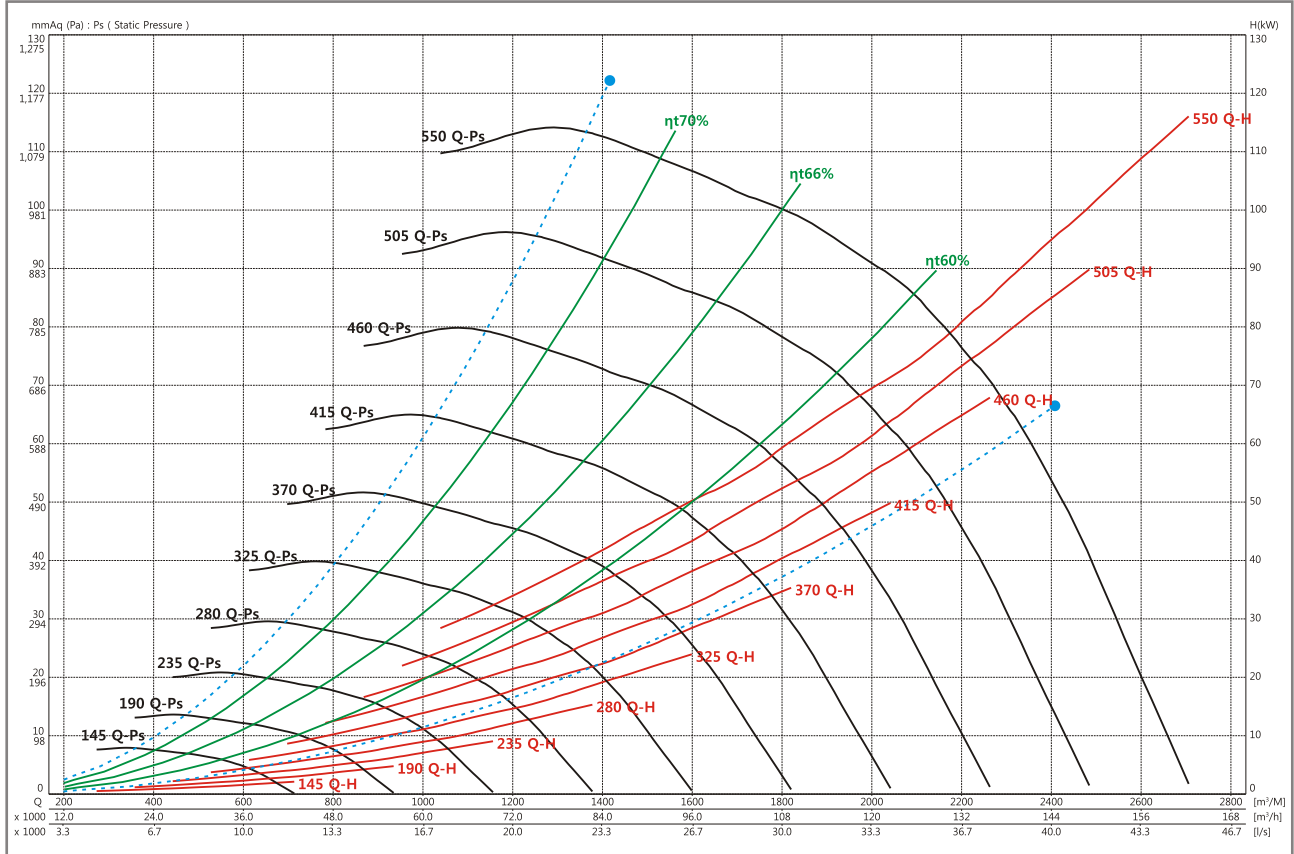
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GSF-6.5DS

FEG 75

Wheel dia	975 mm	Tip Speed = 0.05105 * rpm	Outlet Dim'	1300 * 990	Outlet Area	1.2870 m ²	Class 1	441 rpm	Class 2	558 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
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
625	8.09	178	2.26	63.2	67	234	3.46	70.9	70												
700	9.07	186	2.82	60.8	69	238	4.15	68.9	71	283	5.49	73.0	75								
775	10.04	196	3.58	57.0	71	244	4.92	67.3	73	287	6.48	70.7	76								
850	11.01	207	4.53	53.3	74	249	5.91	64.3	75	291	7.53	69.0	76	328	9.16	71.9	79				
925	11.98	218	5.65	50.1	77	256	7.00	62.1	77	297	8.63	67.9	77	333	10.5	70.0	80	366	12.3	72.5	82
1000	12.95	231	6.94	47.6	79	264	8.16	60.5	78	302	10.0	65.5	80	338	11.9	68.8	80	370	13.9	70.7	82
1075	13.92	244	8.45	45.3	81	274	9.67	57.8	80	308	11.6	63.4	81	343	13.4	67.8	81	375	15.7	69.3	83
1150	14.89	258	10.2	43.5	83	285	11.5	54.9	82	316	13.2	61.8	82	348	15.3	65.6	83	380	17.4	68.6	84
1225	15.86	271	12.1	42.0	85	296	13.5	52.5	84	324	15.0	60.5	83	355	17.4	63.8	85	385	19.4	67.3	85
1300	16.84	285	14.3	40.5	87	308	15.7	50.4	86	334	17.2	58.3	85	362	19.5	62.3	86	390	21.9	65.4	87
1375	17.81	299	16.7	39.5	88	320	18.2	48.4	87	344	19.8	56.0	87	369	21.8	61.2	87	397	24.4	63.7	88
1450	18.78	313	19.4	38.5	90	333	21.0	46.8	89	355	22.6	53.9	88	378	24.4	59.7	88	404	27.2	62.3	89

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
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
625	8.09																				
700	9.07																				
775	10.04																				
850	11.01																				
925	11.98																				
1000	12.95	400	15.8	72.8	84																
1075	13.92	404	17.8	71.1	85	432	19.7	72.9	86												
1150	14.89	409	19.8	69.7	85	436	22.0	71.4	87	462	24.1	72.9	88								
1225	15.86	414	21.9	68.8	86	441	24.4	70.0	87	466	26.7	71.5	89	490	28.9	72.8	90				
1300	16.84	419	24.1	68.0	86	445	26.9	69.0	88	471	29.4	70.2	89	494	31.9	71.5	90	517	34.2	72.7	91
1375	17.81	424	26.8	66.5	88	451	29.3	68.5	88	475	32.3	69.1	90	499	35	70.2	91	521	37.5	71.5	92
1450	18.78	430	29.8	64.8	89	456	32.2	67.3	89	480	35	68.7	90	504	38.1	69.2	91	526	41.0	70.2	92

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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GSF-DS series

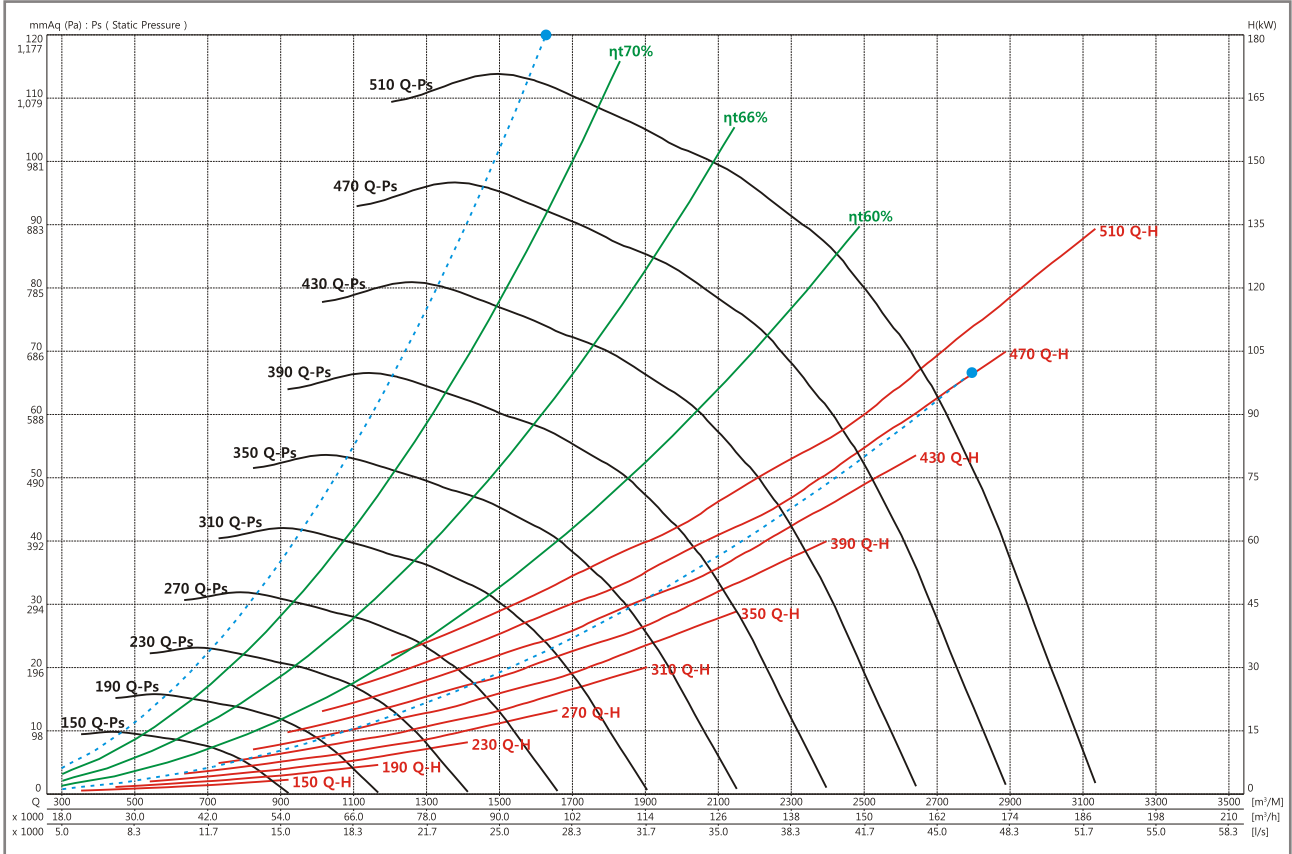
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GSF-7DS

FEG 75

Wheel dia	1050 mm	Tip Speed = 0.05498 * rpm	Outlet Dim'	1400 * 1065	Outlet Area	1.4910 m ²	Class 1	409 rpm	Class 2	518 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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
600	6.71	158	1.82	68.5	62																					
700	7.82	164	2.45	64.2	66	216	3.77	71.9	70																	
800	8.94	172	3.18	61.1	69	221	4.70	69.1	71	259	6.08	73.1	75													
900	10.06	182	4.17	56.9	72	226	5.72	67.3	73	266	7.52	70.7	76													
1000	11.18	193	5.44	52.8	75	232	7.06	63.9	76	271	8.92	68.9	77	306	10.9	71.6	79									
1100	12.30	206	7.01	49.3	78	240	8.51	61.7	77	277	10.5	67.3	78	311	12.7	69.5	80	341	14.7	72.1	82					
1200	13.41	220	8.85	46.4	80	249	10.2	59.3	79	283	12.4	64.5	81	316	14.6	68.5	81	346	17.1	70.0	83					
1300	14.53	234	11.0	44.2	83	260	12.5	56.0	82	291	14.6	62.4	82	321	16.9	66.5	83	351	19.4	68.8	84					
1400	15.65	249	13.5	42.4	85	272	15.0	53.2	84	299	16.9	60.9	84	328	19.5	64.2	85	357	21.9	67.7	85					
1500	16.77	264	16.3	40.7	87	285	18.0	50.6	86	309	19.7	58.5	85	335	22.4	62.4	86	362	25.1	65.5	87					
1600	17.89	279	19.6	39.4	89	298	21.4	48.3	88	320	23.2	55.8	87	343	25.4	61.2	87	369	28.5	63.6	88					
1700	19.00	294	23.3	38.2	90	312	25.1	46.4	90	331	26.9	53.5	89	353	29.0	59.2	88	377	32.2	62.1	89					

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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
600	6.71																									
700	7.82																									
800	8.94																									
900	10.06																									
1000	11.18																									
1100	12.30																									
1200	13.41	373	19.2	72.2	85																					
1300	14.53	378	22.0	70.3	85	403	24.4	72.2	87																	
1400	15.65	383	24.8	69.0	86	408	27.6	70.3	87	431	30.2	72.0	89													
1500	16.77	389	27.7	68.1	87	413	30.9	69.1	88	436	33.8	70.3	89	458	36.6	71.7	90	480	39.3	72.9	91					
1600	17.89	394	31.3	66.3	88	419	34.2	68.4	89	442	37.6	69.1	90	463	40.8	70.2	91	484	43.8	71.3	92					
1700	19.00	400	35.3	64.5	90	424	38.1	67.0	90	447	41.3	68.5	90	468	45.0	69.1	91	489	48.4	70.0	92					

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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GSF-DS series

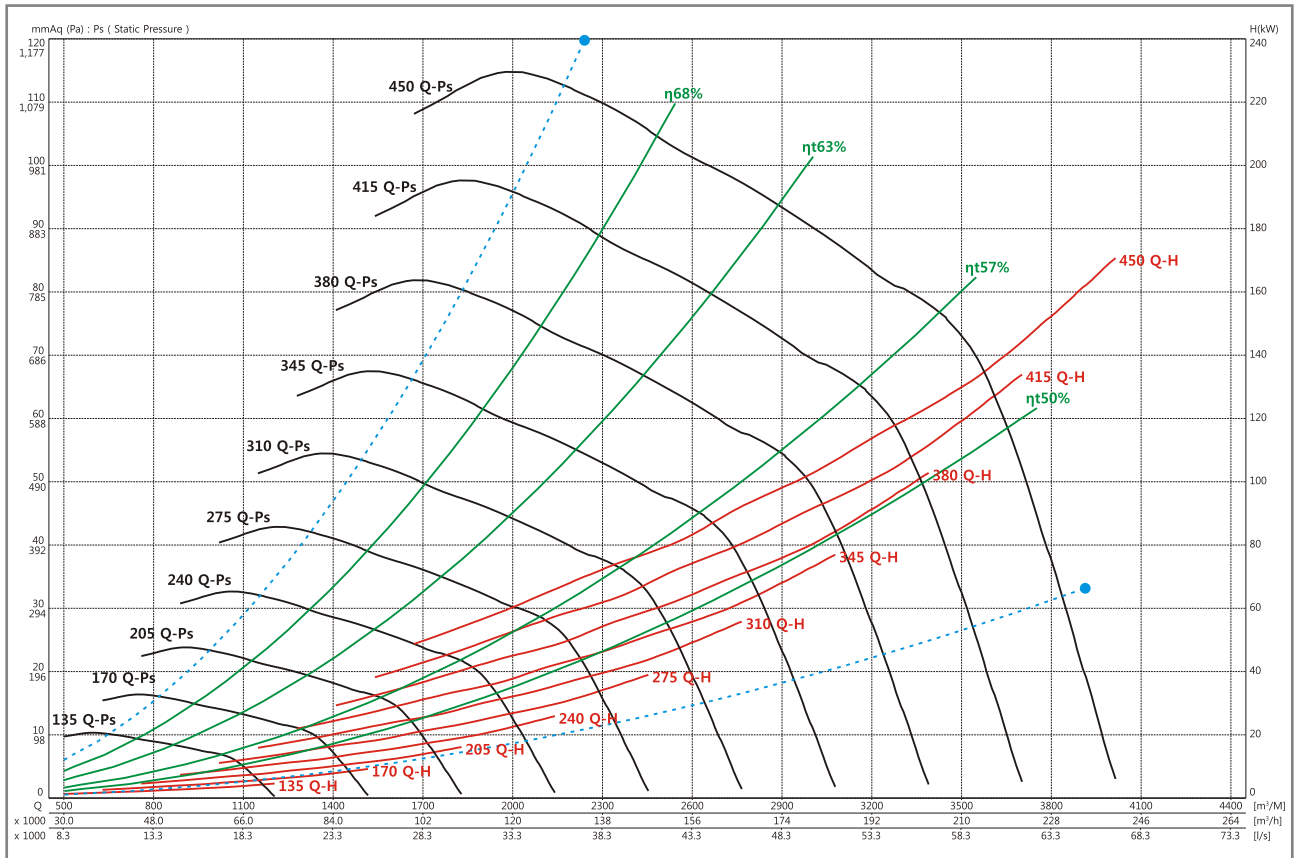
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GSF-8DS

FEG 75

Wheel dia	1200 mm	Tip Speed = 0.06283 * rpm	Outlet Dim'	1600 * 1220	Outlet Area	1.9520 m ²	Class 1	358 rpm	Class 2	454 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	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
1000	8.54	150	3.81	62.0	69	193	5.80	68.9	71												
1100	9.39	155	4.66	59.3	71	197	6.71	67.8	73	228	8.78	70.4	75								
1200	10.25	160	5.55	57.9	73	202	7.91	65.4	75	235	10.3	69.1	76								
1300	11.10	167	6.66	55.7	75	206	9.21	63.5	76	239	11.6	68.3	78	268	14.4	70.2	79				
1400	11.95	175	8.07	52.7	77	211	10.6	62.2	78	244	13.2	67.0	79	272	16.1	69.0	81				
1500	12.81	185	9.79	50.3	78	216	12.2	60.3	79	248	15.1	64.7	81	276	17.9	68.4	82	302	21.1	69.7	83
1600	13.66	195	11.7	48.0	80	222	14.0	58.6	81	253	17.0	63.4	82	281	19.9	67.3	83	305	23.3	68.7	84
1700	14.52	205	13.9	45.7	81	227	15.8	57.8	82	258	19.0	62.4	83	285	22.4	65.3	84	310	25.6	68.2	85
1800	15.37	216	16.4	44.1	83	233	17.9	56.5	83	263	21.4	61.0	84	290	25.0	63.9	85	315	28.1	67.1	86
1900	16.22	226	19.2	42.2	84	241	20.5	54.8	85	269	24.1	59.4	85	295	27.6	62.9	86	319	31.3	65.4	87
2000	17.08	236	22.2	40.9	86	250	23.5	52.6	86	274	26.7	58.4	87	300	30.4	62.0	87	323	34.5	64.0	88
2100	17.93	247	25.6	39.7	87	260	26.9	50.7	87	279	29.5	57.7	88	305	33.6	60.6	88	328	37.8	63.1	89

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	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL	rpm	BkW	η _t	SPL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
1000	8.54																				
1100	9.39																				
1200	10.25																				
1300	11.10																				
1400	11.95																				
1500	12.81																				
1600	13.66	329	26.6	70.1	85																
1700	14.52	332	29.2	69.1	86	352	32.3	70.4	86												
1800	15.37	337	31.9	68.6	87	358	35.7	69.5	87												
1900	16.22	342	34.7	67.9	88	362	38.8	68.7	88	382	42.8	69.6	89								
2000	17.08	346	38.0	66.8	88	366	41.9	68.3	89	385	46.3	68.9	90	404	50.4	69.7	90				
2100	17.93	350	41.9	65.1	89	371	45.4	67.5	90	390	49.8	68.5	91	408	54.4	69.0	91	426	58.7	69.8	92

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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GSF-DS series

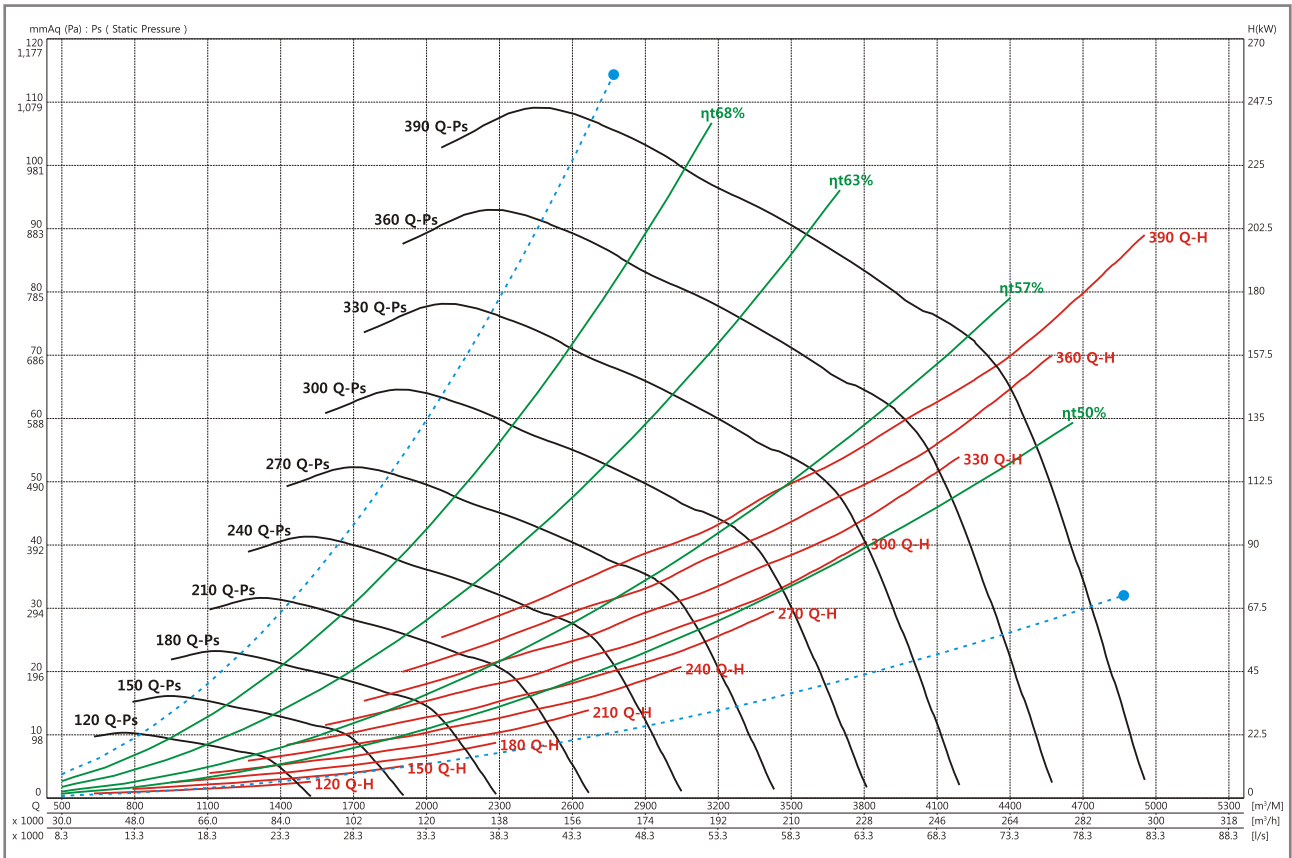
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GSF-9DS

FEG 75

Wheel dia	1350 mm	Tip Speed = 0.07069 * rpm	Outlet Dim'	1800 * 1370	Outlet Area	2.4660 m ²	Class 1	318 rpm	Class 2	403 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	12.5 mmAq (123 Pa)				20 mmAq (196 Pa)				27.5 mmAq (270 Pa)				35 mmAq (343 Pa)				42.5 mmAq (417 Pa)			
		rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
1000	6.76	136	3.65	68.9	65																
1125	7.60	140	4.38	67.5	68																
1250	8.45	143	5.33	64.1	70	171	7.20	69.0	72												
1375	9.29	148	6.40	62.6	72	175	8.32	68.0	73	198	10.5	70.0	75								
1500	10.14	152	7.59	60.2	74	179	9.76	65.9	75	202	12.1	68.8	76								
1625	10.98	157	9.01	58.4	75	183	11.4	63.7	76	206	13.6	67.9	78	225	16.1	69.3	79				
1750	11.83	162	10.5	57.4	77	187	13.0	62.4	78	210	15.6	66.1	79	229	18.1	68.5	80	247	20.9	69.6	81
1875	12.67	168	12.4	55.1	79	192	15.0	60.8	80	213	17.8	63.9	80	233	20.2	67.5	81	251	23.3	68.7	82
2000	13.52	176	14.7	52.6	80	197	17.3	59.0	81	218	20.1	62.9	82	237	22.9	65.6	83	255	25.7	68.0	83
2150	14.53	186	17.9	49.7	82	202	19.9	57.9	82	223	23.1	61.4	83	242	26.4	63.7	84	260	29.2	66.5	85
2250	15.21	193	20.3	48.0	83	206	22.0	56.8	84	227	25.5	60.0	84	245	28.6	62.9	85	263	32.0	65.0	86
2375	16.05	202	23.7	46.1	85	213	25.1	55.3	85	232	28.6	58.7	85	250	31.8	62.0	86	267	35.5	63.7	87

Air flow (m³/min)	Outlet Vel (m/sec)	50 mmAq (490 Pa)				57.5 mmAq (564 Pa)				65 mmAq (637 Pa)				72.5 mmAq (711 Pa)				80 mmAq (785 Pa)			
		rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL	rpm	BkW	ηt	SPL
		m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)	m ⁻¹	kW	%	dB(A)
1000	6.76																				
1125	7.60																				
1250	8.45																				
1375	9.29																				
1500	10.14																				
1625	10.98																				
1750	11.83																				
1875	12.67	268	26.2	69.9	83																
2000	13.52	271	29.0	68.9	84	287	32.1	70.0	85												
2150	14.53	276	32.3	68.2	85	291	35.9	68.9	86	306	39.3	69.8	87								
2250	15.21	279	34.8	67.4	86	294	38.4	68.5	87	308	42.0	69.1	87	322	45.4	69.9	88				
2375	16.05	283	38.6	65.8	87	298	41.8	67.7	88	312	45.6	68.6	88	325	49.4	69.1	89	339	53.2	69.8	89

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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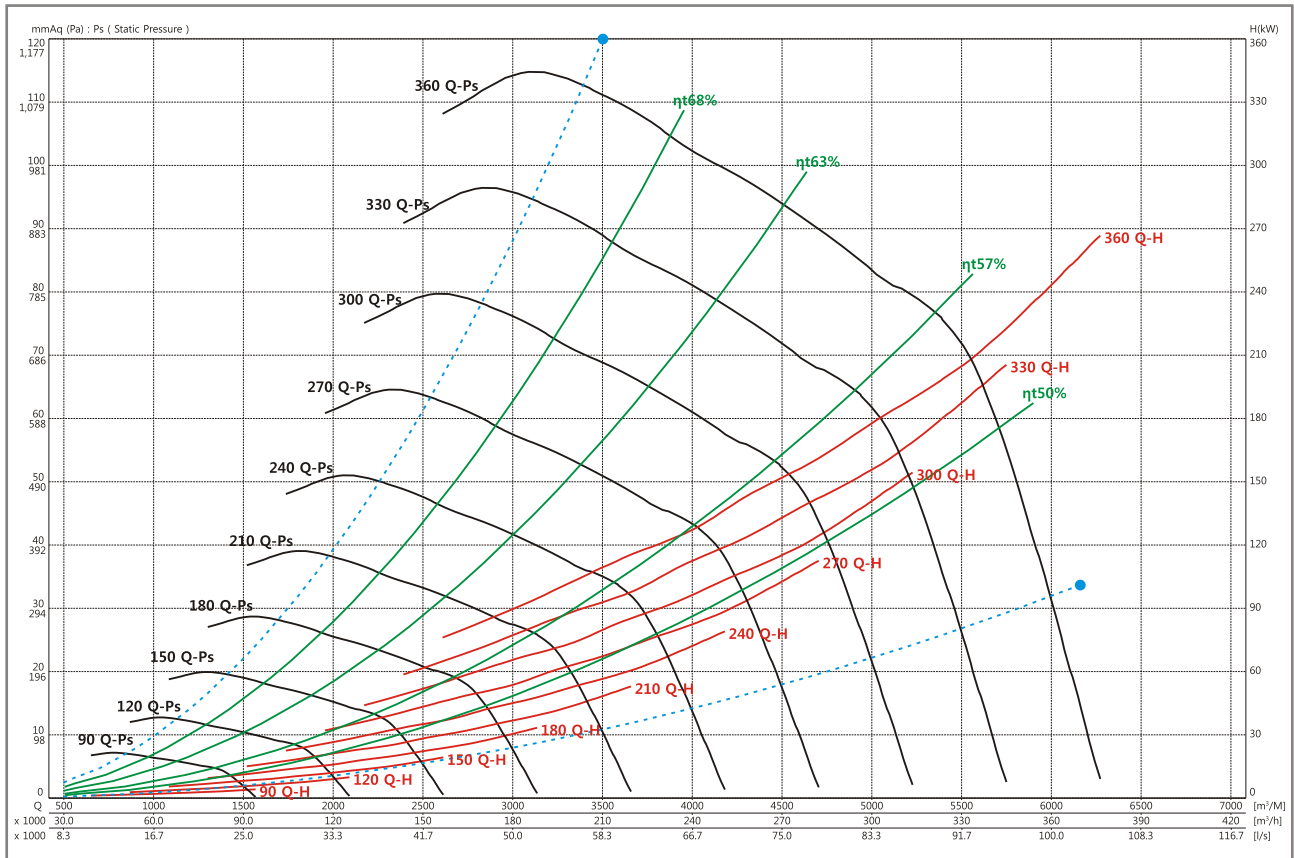
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GSF-10DS

FEG 75

Wheel dia	1500 mm	Tip Speed = 0.07854 * rpm	Outlet Dim'	2000 * 1525	Outlet Area	3.0500 m ²	Class 1	286 rpm	Class 2	363 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	12.5 mmAq (123 Pa)					20 mmAq (196 Pa)					27.5 mmAq (270 Pa)					35 mmAq (343 Pa)					42.5 mmAq (417 Pa)				
		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
1350	7.38	125	5.15	67.9	67																					
1500	8.20	128	6.25	65.0	69	153	8.48	69.5	71																	
1650	9.02	132	7.50	63.1	71	156	9.78	68.4	73	175	12.10	70.3	74													
1800	9.84	136	8.88	61.3	73	160	11.4	66.8	75	180	14.2	69.1	76													
1950	10.66	140	10.5	58.9	75	163	13.3	64.2	76	184	16.1	68.3	78	202	19.2	69.7	79									
2100	11.48	144	12.2	57.9	77	167	15.3	62.9	78	187	18.1	66.9	79	205	21.5	68.7	80	222	24.8	70.2	81					
2250	12.30	149	14.3	56.2	79	171	17.5	61.6	79	190	20.8	64.6	80	209	24.0	68.0	81	224	27.4	69.0	82					
2400	13.11	155	16.8	53.7	80	175	20.0	59.6	81	194	23.5	63.3	82	212	26.7	66.6	82	228	30.4	68.5	83					
2550	13.93	162	19.8	50.9	82	179	22.7	58.4	82	198	26.3	62.3	83	215	30.2	64.5	84	232	33.6	67.6	84					
2700	14.75	170	23.2	49.4	83	183	25.5	57.5	83	202	29.5	60.9	84	219	33.6	63.4	85	235	37.4	65.9	85					
2850	15.57	177	27.0	46.5	84	188	28.8	56.0	85	206	33.1	59.2	85	223	37.2	62.6	86	238	41.5	64.2	86					
3000	16.39	185	31.3	44.9	86	194	32.8	53.9	86	210	36.8	58.3	86	226	40.9	61.2	87	242	45.7	63.3	87					

Air flow (m³/min)	Outlet Vel (m/sec)	50 mmAq (490 Pa)					57.5 mmAq (564 Pa)					65 mmAq (637 Pa)					72.5 mmAq (711 Pa)					80 mmAq (785 Pa)				
		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
1350	7.38																									
1500	8.20																									
1650	9.02																									
1800	9.84																									
1950	10.66																									
2100	11.48																									
2250	12.30	239	30.7	70.4	83																					
2400	13.11	242	34.0	69.3	84	255	37.3	70.4	85																	
2550	13.93	246	37.6	68.6	85	260	41.6	69.5	86																	
2700	14.75	249	40.9	67.9	86	263	45.5	68.7	87	276	49.7	69.5	87													
2850	15.57	253	45.1	66.8	87	266	49.2	68.1	88	279	54.0	68.8	88	291	58.3	69.5	89	302	62.1	70.3	89					
3000	16.39	256	49.9	65.0	88	270	53.7	67.3	89	282	58.1	68.3	89	294	63.2	68.8	90	306	67.8	69.5	90					

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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GSF-DS series

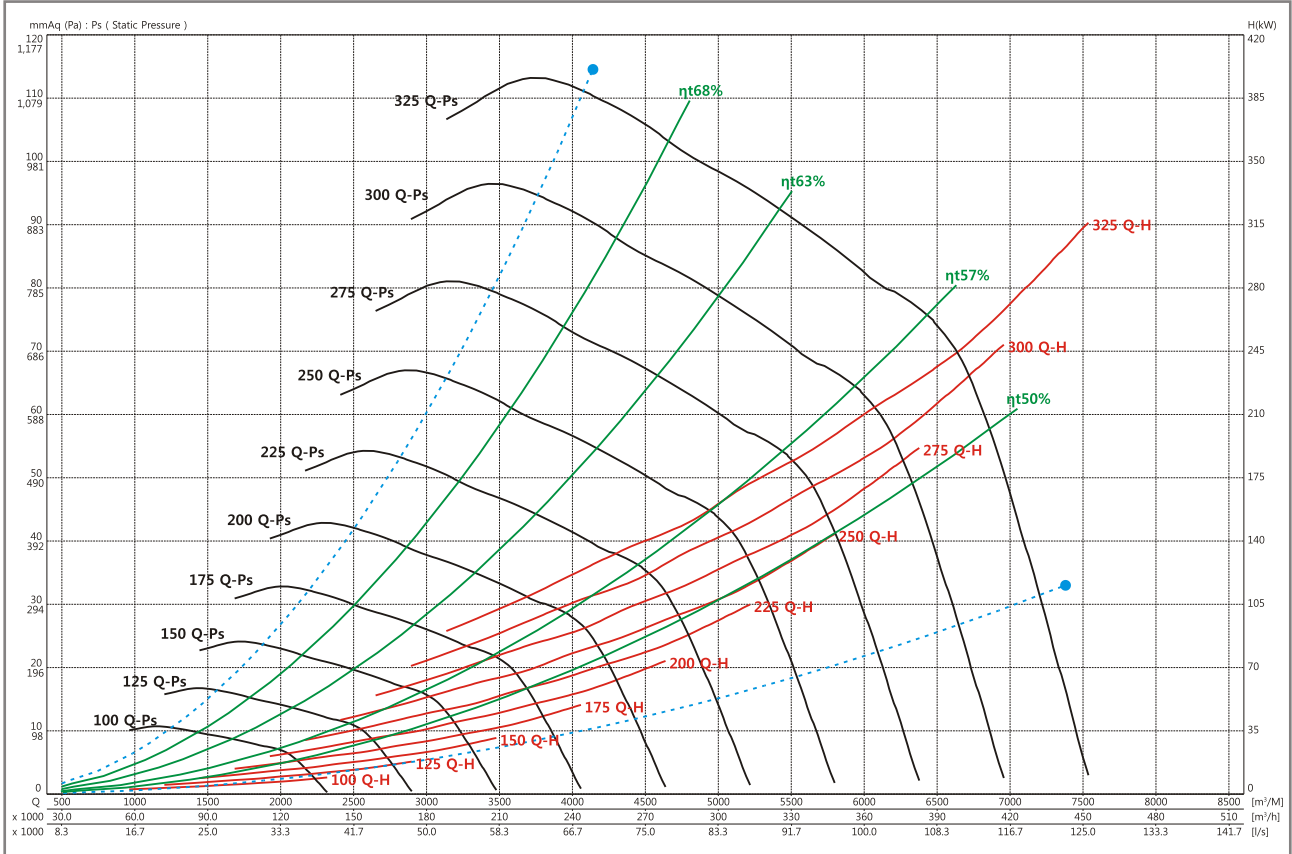
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GSF-11DS

FEG 75

Wheel dia	1650 mm	Tip Speed = 0.08639 * rpm	Outlet Dim'	2200 * 1675	Outlet Area	3.6850 m ²	Class 1	260 rpm	Class 2	330 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	12.5 mmAq (123 Pa)					20 mmAq (196 Pa)					27.5 mmAq (270 Pa)					35 mmAq (343 Pa)					42.5 mmAq (417 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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
1500	6.78	111	5.44	68.8	66																					
1700	7.69	115	6.68	67.3	68	135	8.98	70.2	70																	
1900	8.59	118	8.27	63.9	71	140	11.0	68.8	73																	
2100	9.50	122	9.97	62.2	73	144	12.9	67.6	74	163	16.3	69.7	76													
2300	10.40	126	12.0	59.6	75	147	15.3	64.8	76	166	18.7	68.6	77	183	22.3	70.3	78									
2500	11.31	130	14.3	58.2	77	151	18.0	63.2	78	170	21.4	67.4	79	186	25.5	68.9	80	199	28.6	70.3	81					
2700	12.21	135	17.0	56.6	79	155	20.8	61.8	80	173	24.9	65.0	80	189	28.5	68.1	81	204	33.0	69.2	82					
2900	13.12	141	20.3	54.0	80	159	24.2	59.7	81	176	28.3	63.3	82	193	32.4	66.7	83	207	36.6	68.5	83					
3100	14.02	148	24.3	51.0	82	163	27.7	58.3	83	180	32.0	62.2	83	196	36.9	64.4	84	211	40.9	67.5	85					
3300	14.93	156	29.0	49.2	84	167	31.5	57.3	84	184	36.4	60.5	85	199	41.2	63.2	85	214	46.1	65.5	86					
3500	15.83	163	34.0	46.1	85	173	36.4	55.8	85	189	41.6	59.0	86	203	46.0	62.2	86	217	51.5	63.9	87					
3700	16.73	171	40.0	44.3	87	179	41.8	53.3	87	192	46.1	58.1	87	207	51.6	60.7	88	221	57.1	63.0	88					

Air flow (m³/min)	Outlet Vel (m/sec)	50 mmAq (490 Pa)					57.5 mmAq (564 Pa)					65 mmAq (637 Pa)					72.5 mmAq (711 Pa)					80 mmAq (785 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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
1500	6.78																									
1700	7.69																									
1900	8.59																									
2100	9.50																									
2300	10.40																									
2500	11.31																									
2700	12.21																									
2900	13.12	220	41.1	69.3	84																					
3100	14.02	224	45.9	68.6	85	236	50.5	69.4	86	247	54.7	70.3	87													
3300	14.93	227	50.3	67.7	87	239	55.6	68.6	87	251	60.9	69.4	88	263	66.0	70.4	88									
3500	15.83	231	56.2	66.4	88	243	61.1	67.9	88	254	66.6	68.6	89	265	72.0	69.3	89	276	77.40	70.1	90					
3700	16.73	234	62.8	64.5	89	247	67.5	66.8	89	258	72.7	68.0	90	269	78.9	68.6	90	279	84.5	69.2	91					

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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GSF-DS series

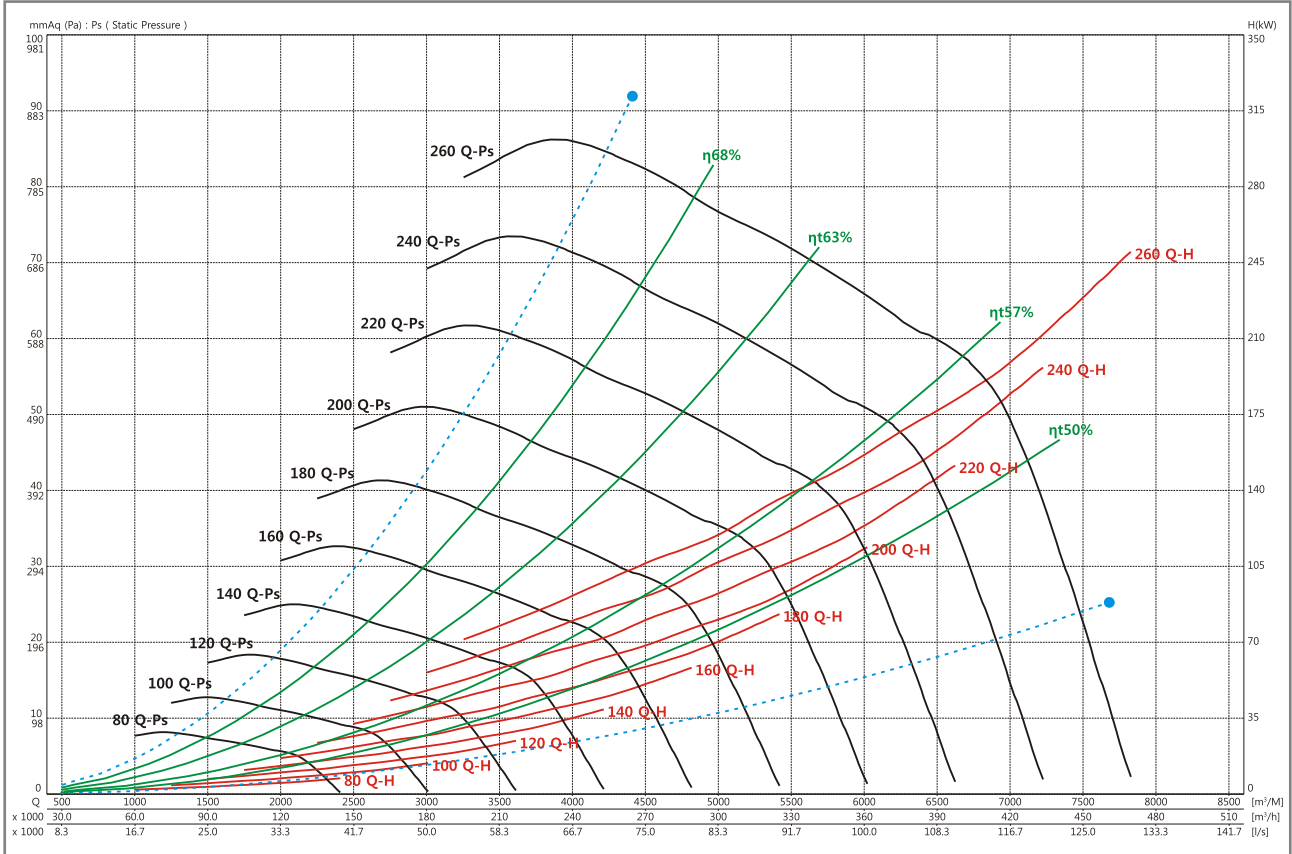
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GSF-12DS

FEG 75

Wheel dia	1800 mm	Tip Speed = 0.09425 * rpm	Outlet Dim'	2400 * 1830	Outlet Area	4.3920 m ²	Class 1	239 rpm	Class 2	302 rpm	Not Applicable
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Air flow (m ³ /min)	Outlet Vel (m/sec)	12.5 mmAq (123 Pa)					20 mmAq (196 Pa)					27.5 mmAq (270 Pa)					35 mmAq (343 Pa)					42.5 mmAq (417 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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
2000	7.59	105	7.78	67.5	68																					
2250	8.54	108	9.75	64.0	71	129	13.1	68.9	73																	
2500	9.49	112	11.9	62.2	73	132	15.3	67.6	75	149	19.3	69.6	76													
2750	10.44	116	14.5	59.6	75	135	18.4	64.7	77	152	22.3	68.5	78	168	26.8	70.2	79									
3000	11.38	119	17.2	57.9	77	139	21.8	63.1	78	156	25.8	67.2	79	170	30.4	68.8	80	184	35.0	70.3	81					
3250	12.33	124	20.6	55.9	79	142	25.2	61.3	80	159	30.2	64.6	81	174	34.6	67.9	82	187	39.8	69.0	83					
3500	13.28	130	24.9	52.7	81	147	29.8	59.4	82	162	34.5	63.1	82	177	39.4	66.1	83	190	44.4	68.2	84					
3750	14.23	137	30.1	49.8	83	150	34.0	58.1	83	166	39.4	61.8	84	180	45.1	64.0	85	194	50.1	67.1	85					
4000	15.18	145	36.2	48.3	85	155	39.3	57.0	85	170	45.2	60.0	85	184	50.9	62.9	86	197	56.9	64.9	87					
4250	16.13	152	42.9	45.4	86	160	45.3	54.7	86	174	51.3	58.5	87	188	57.3	61.8	87	200	63.5	63.5	88					
4500	17.08	160	50.7	44.1	88	167	52.9	52.6	88	178	57.7	57.8	88	192	64.6	60.2	88	204	70.7	62.6	89					
4750	18.03	168	59.4	42.9	89	174	61.3	50.4	89	182	64.7	56.3	89	196	72.5	58.7	90	208	78.8	61.4	90					

Air flow (m ³ /min)	Outlet Vel (m/sec)	50 mmAq (490 Pa)					57.5 mmAq (564 Pa)					65 mmAq (637 Pa)					72.5 mmAq (711 Pa)					80 mmAq (785 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	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
2000	7.59																									
2250	8.54																									
2500	9.49																									
2750	10.44																									
3000	11.38																									
3250	12.33	199	44.3	70.3	83																					
3500	13.28	203	50.4	69.2	85	214	55.3	70.2	85																	
3750	14.23	206	55.8	68.5	86	217	61.7	69.1	87	228	67.3	70.1	87													
4000	15.18	209	61.7	67.4	87	220	67.9	68.5	88	231	74.7	69.1	88	242	81.0	70.0	89									
4250	16.13	213	69.8	65.7	88	224	75.1	67.6	89	234	81.6	68.5	89	244	88.6	69.0	90	254	95.2	69.7	90					
4500	17.08	216	78.0	64.0	89	227	83.5	66.0	90	238	89.8	67.7	90	248	97.1	68.5	91	257	104.2	68.9	91					
4750	18.03	219	85.6	63.0	91	230	93.0	64.3	91	241	98.9	66.3	91	251	105.4	67.7	92	260	112.6	68.4	92					

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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GSF-DS series

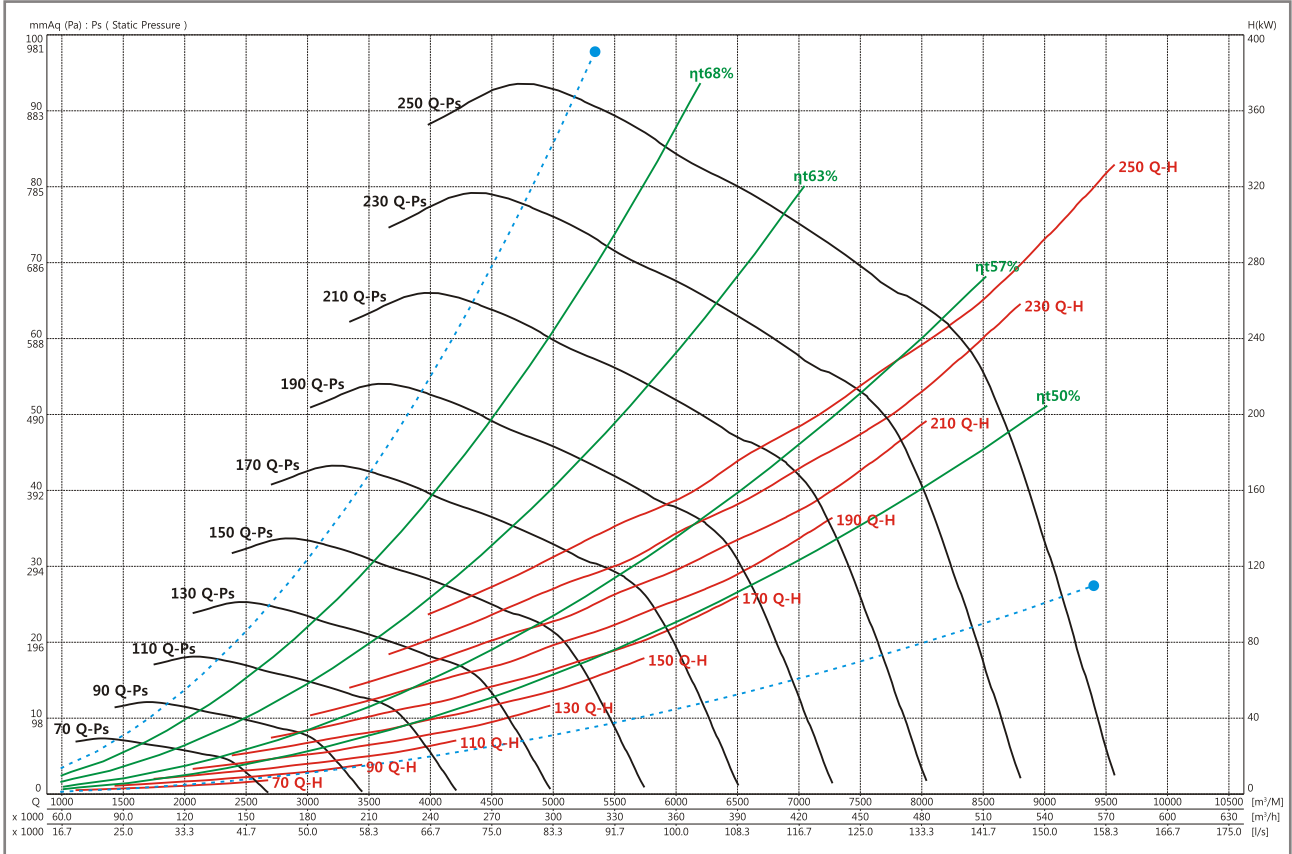
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GSF-13DS

FEG 75

Wheel dia	1950 mm	Tip Speed =	0.1021 * rpm	Outlet Dim'	2600 * 1980	Outlet Area	5.1480 m ²	Class 1	220 rpm	Class 2	279 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	12.5 mmAq (123 Pa)					20 mmAq (196 Pa)					27.5 mmAq (270 Pa)					35 mmAq (343 Pa)					42.5 mmAq (417 Pa)				
		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
2400	7.77	97	9.44	66.8	69		116	13.0	70.3	71																
2700	8.74	100	11.8	63.5	71		119	15.7	68.6	73																
3000	9.71	104	14.6	61.6	74		123	18.8	67.3	75		138	23.4	69.3	77											
3300	10.68	108	17.9	59.0	76		126	22.7	64.3	77		141	27.0	68.2	78		155	32.3	69.7	80						
3600	11.66	111	21.2	57.5	78		129	26.5	62.7	79		145	31.7	66.6	80		158	37.0	68.6	81		171	42.8	69.9	82	
3900	12.63	116	25.5	55.2	80		133	31.2	61.0	81		148	37.2	64.1	82		162	42.3	67.7	83		174	48.6	68.8	83	
4200	13.60	122	31.1	51.8	82		137	36.7	58.9	83		151	42.3	62.8	83		164	48.3	65.2	84		177	54.3	68.0	85	
4500	14.57	129	37.7	49.4	84		140	41.9	57.8	84		155	48.7	61.4	85		168	55.6	63.7	85		180	61.3	66.4	86	
4800	15.54	136	45.2	47.0	86		144	48.2	55.9	86		158	55.5	59.3	86		171	62.2	62.6	87		183	69.8	64.3	87	
5100	16.51	143	53.7	44.7	87		150	56.3	53.9	87		162	63.0	58.3	88		175	70.4	61.2	88		186	77.7	63.1	89	
5400	17.48	151	63.6	44.0	88		157	66.1	52.0	89		166	71.1	57.4	89		178	79.1	59.4	89		190	86.8	62.2	90	
5700	18.45	158	74.2	42.2	90		163	76.3	49.0	90		171	80.7	56.0	90		182	88.7	58.4	90		193	96.5	60.6	91	

Air flow (m³/min)	Outlet Vel (m/sec)	50 mmAq (490 Pa)					57.5 mmAq (564 Pa)					65 mmAq (637 Pa)					72.5 mmAq (711 Pa)					80 mmAq (785 Pa)				
		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
2400	7.77																									
2700	8.74																									
3000	9.71																									
3300	10.68																									
3600	11.66																									
3900	12.63	185	54.3	69.9	84																					
4200	13.60	188	61.1	68.8	85		199	67.6	69.8	86																
4500	14.57	191	67.7	68.1	87		201	74.8	68.8	87		212	82.4	69.7	88											
4800	15.54	194	75.5	66.8	88		205	83.1	68.2	88		214	90.5	68.8	89		224	98.2	69.6	90		232	104.3	70.4	90	
5100	16.51	197	85.3	64.8	89		208	91.7	67.2	90		218	99.8	68.3	90		227	108.2	68.8	91		236	116.0	69.5	91	
5400	17.48	200	94.7	63.5	90		211	102.8	65.3	91		221	109.5	67.3	91		230	117.7	68.2	92		238	126.0	68.6	92	
5700	18.45	204	105.0	62.7	91		214	114.0	63.9	92		224	121.7	65.6	92		233	128.5	67.3	93		242	137.6	68.1	93	

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

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GSF-DS series

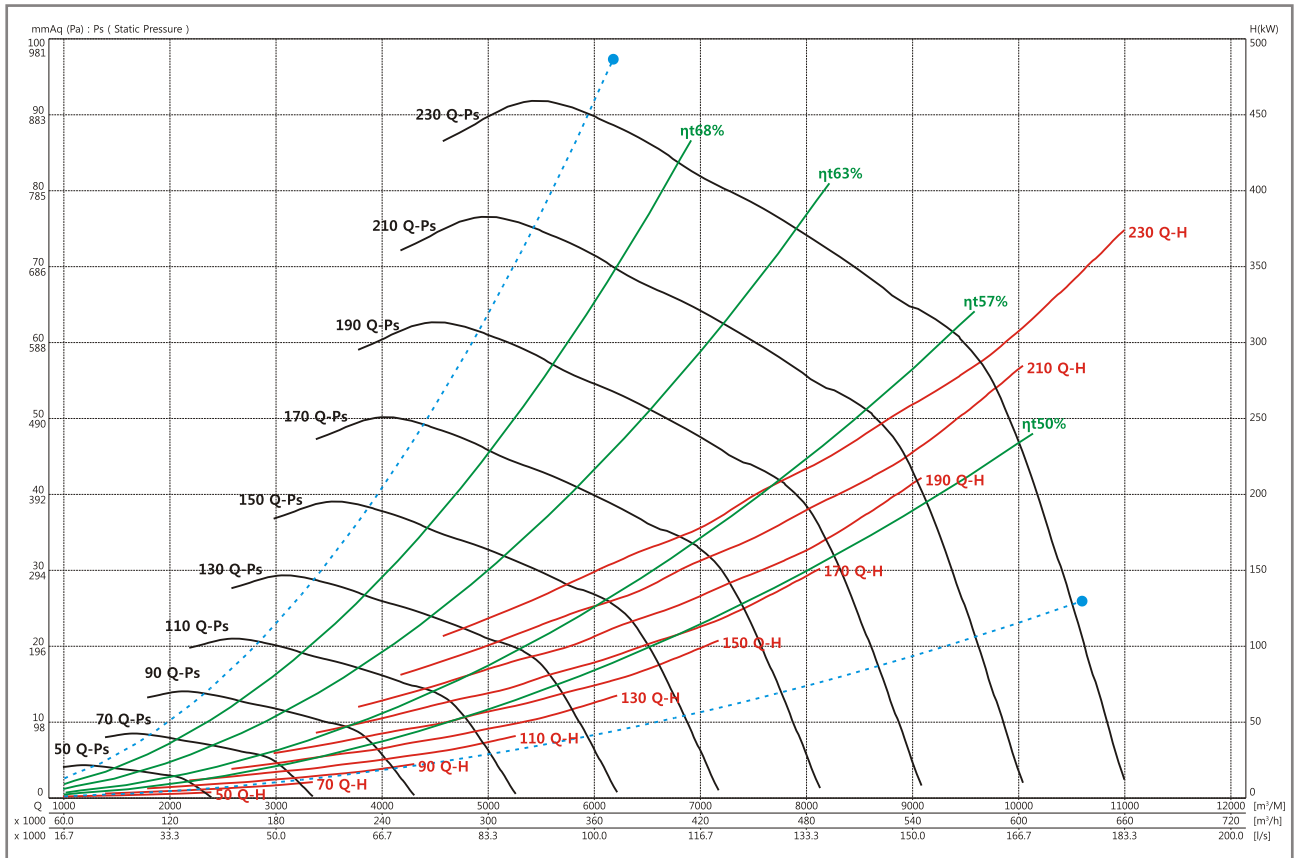
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GSF-14DS

FEG 75

Wheel dia	2100 mm	Tip Speed = 0.10996 * rpm	Outlet Dim'	2800 * 2135	Outlet Area	5.9780 m ²	Class 1	205 rpm	Class 2	259 rpm	Not Applicable
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Air flow (m³/min)	Outlet Vel (m/sec)	12.5 mmAq (123 Pa)					20 mmAq (196 Pa)					27.5 mmAq (270 Pa)					35 mmAq (343 Pa)					42.5 mmAq (417 Pa)				
		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
2600	7.25	89	9.84	68.2	68																					
3000	8.36	92	12.8	64.4	71	110	17.3	69.2	73																	
3400	9.48	96	16.2	62.3	74	113	20.8	67.6	75	128	26.3	69.7	77													
3800	10.59	100	20.4	59.2	76	116	25.7	64.3	77	131	31.1	68.4	79	144	37.2	69.8	80									
4200	11.71	104	25.1	57.6	78	120	31.1	62.6	79	134	36.9	66.2	81	147	43.3	68.6	81	159	50.1	69.8	82					
4600	12.82	109	31.0	54.6	81	124	37.4	60.3	82	138	44.4	63.8	82	151	50.5	67.3	83	162	57.7	68.6	84					
5000	13.94	116	38.9	51.3	83	128	44.6	58.4	83	141	51.3	62.2	84	154	59.4	64.6	85	165	65.4	67.5	85					
5400	15.06	123	48.0	47.9	85	132	52.3	57.1	85	145	60.3	60.1	86	157	68.1	63.0	86	168	75.9	65.0	87					
5800	16.17	131	59.0	46.1	87	138	62.4	55.1	87	149	70.0	58.4	87	161	78.2	61.7	88	172	87.3	63.5	88					
6200	17.29	139	71.7	44.4	89	144	74.2	51.6	89	153	80.3	57.5	89	165	90.1	59.7	89	176	98.9	62.5	90					
6600	18.40	146	85.3	41.5	90	152	88.6	50.1	90	158	92.7	55.7	90	169	102.6	58.4	91	179	111.5	60.7	91					
7000	19.52	154	101.2	40.3	92	159	104.3	47.3	92	165	108.4	54.0	92	173	115.8	57.6	92	184	127.4	59.2	92					

Air flow (m³/min)	Outlet Vel (m/sec)	50 mmAq (490 Pa)					57.5 mmAq (564 Pa)					65 mmAq (637 Pa)					72.5 mmAq (711 Pa)					80 mmAq (785 Pa)				
		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL		rpm	BkW	ηt	SPL	
		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)		m ⁻¹	kW	%	dB(A)	
2600	7.25																									
3000	8.36																									
3400	9.48																									
3800	10.59																									
4200	11.71																									
4600	12.82	173	65.1	69.7	85																					
5000	13.94	176	74.0	68.6	86	185	81.1	69.4	87																	
5400	15.06	179	83.0	67.6	88	189	92.1	68.6	88	198	100.6	69.3	89	207	108.7	70.1	89									
5800	16.17	182	95.1	65.4	89	192	102.6	67.6	89	201	111.9	68.5	90	210	121.9	69.0	91	218	130.3	69.7	91					
6200	17.29	186	108.7	63.8	90	195	116.4	65.5	91	205	125.0	67.6	91	213	134.3	68.4	92	221	144.6	68.8	92					
6600	18.40	189	121.0	62.7	92	199	132.2	63.9	92	208	140.8	65.7	92	217	149.4	67.4	93	224	158.3	68.1	93					
7000	19.52	193	136.1	61.4	93	202	146.3	62.9	93	211	157.6	63.9	94	220	167.3	65.5	94	228	175.6	67.1	94					

- The sound pressure level(SPL) is the value calculated on the assumption of the sound power level(PWL) value on the free-field in sound source at 1.5m distance.
- The A-weighted sound ratings calculated per AMCA standard 301. Values shown are for inlet PWL dB(A) sound power levels for installation type B. Rating do not include the effect of duct end corrections.
- Performance shown is for AMCA 210 Fig-12 & Installation type B. Performance ratings do not include the effects of appurtenances in the airstream. Power rating kW does not include V-belt drive & motor efficiency losses.

2015Jan-R10.0

송풍기 견적 및 발주주 사양서

주 문 주:	납품장소:	부	상대플랜지	: 유	무		
주 문 일: 20 . . .	용 도:		☆댐 퍼	: 유	토출	흡입	
수 량:	설치장소:		☆공동배드	: 유	무		
납 기: 20 . . .	운전조건:		☆기초보울트	: 유	무		
종 류:	온 도: MAX at °C	속	☆캔바스	: 유	토출	흡입	
모 델: G	습 도: %		☆방 진	: 유	무		
품 량: m³/min at °C	취급기체:		☆				
풍 압: mmAq at °C	기체성질:		구	입회검사	: 유	무	
회 전 수: r.p.m	비 중 량: kg/m³	비	시험성적서	: 유	무		
토 출 구: mm X mm	재 질		서	바란싱성적서	: 유	무	
흡 입 구: Ø mm				류	외형치수검사서:	유	무
흡입방식: 편흡입 양흡입							
전 동 기: TYPE, KW- P- r.p.m- , Ø HZ- VOLT, MAKER:	수주측부담 ☐						
도 장: 제조회사기본	지정:	발주측부담 ☐					
비 고: 송풍기 모델기입"예"							

GTF- # 4.5-G6-Z

송풍기의 종류 ←

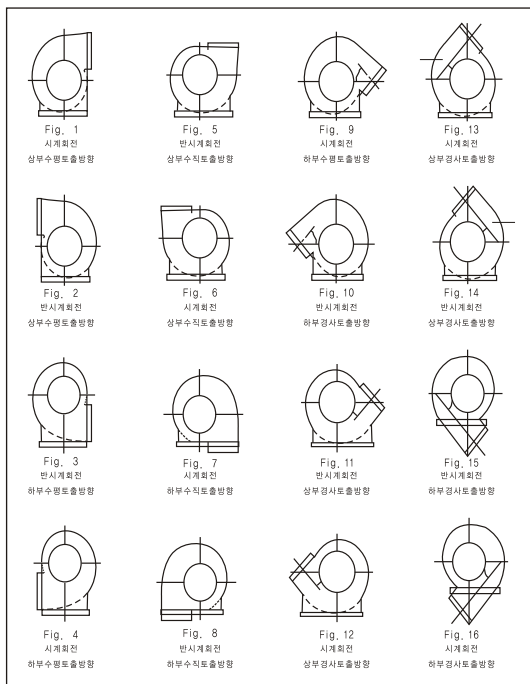
송풍기의 크기 ←

→ 전동기의 위치

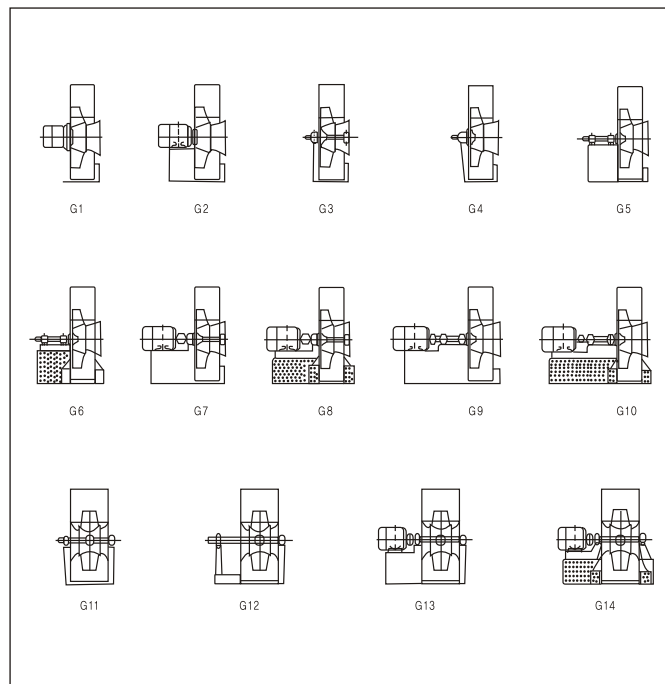
→ 송풍기의 구동방법

송풍기의 구동방법

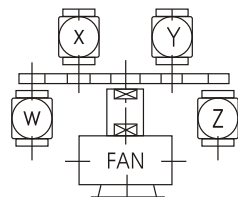
■ 송풍기의 회전방향 (흡입구측에서 보았을때)



■ 송풍기의 구동방법

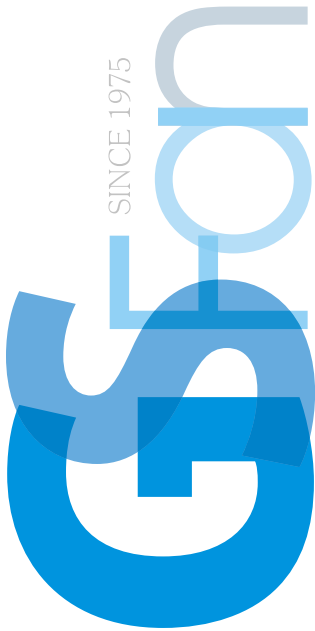


전동기의 위치



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

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소 속 : 담 당:
전화번호 :



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