

GSFOLD

SINCE 1975



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

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

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

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

2015. 10. (株)金星風力 代表理事 鄭 東 騎 拜上

www.gsfan.co.kr

연혁 HISTORY

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



수상내역 AWARD RECORDS

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

TECHNOLOGY



ISO인증은?

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



고효율에너지기자재 인증은?

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



FAN SELECTION PROGRAM은?

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



KARSE SEAL

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

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AMCA 란?

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

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

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

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



AMCA SEAL(Sound & Air Performance)인증은?

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



AMCA SEAL(FEG)인증은?

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

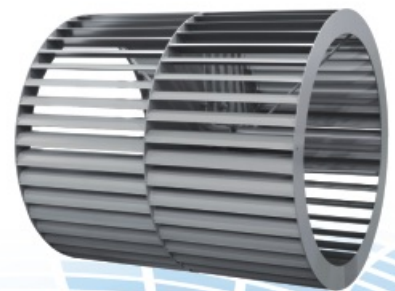
(주)금성풍력은 국내최초 효율등급인증을 위하여 노력하고 있습니다.

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-5.5DS base data is GSF-4DS
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

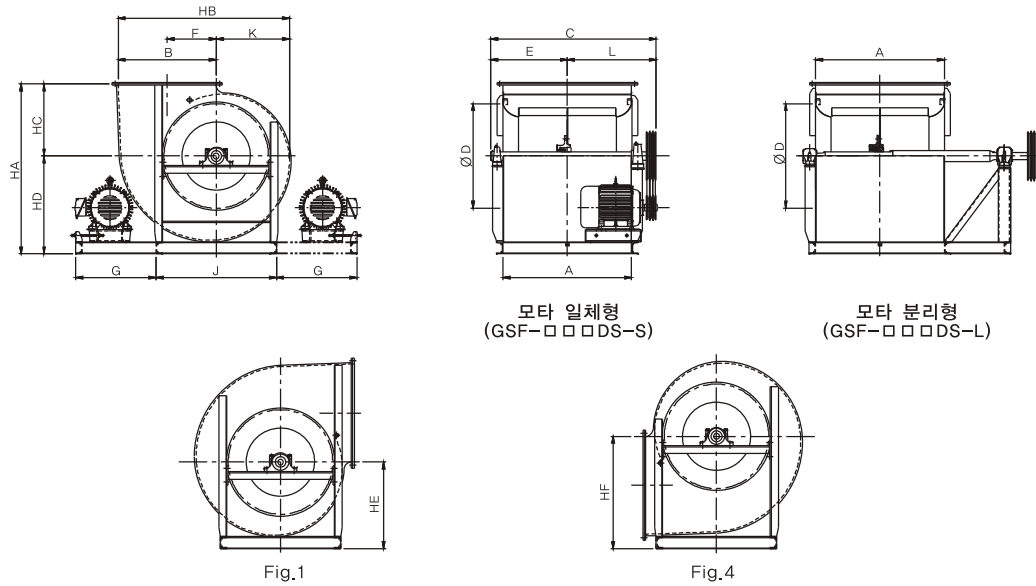
It accurately controls the air flow and change the direction of flow to the wheels. Reduced air volume than outlet damper will provide more economical performance. If you are installing the inlet guide vane damper performance degradation of about 3-5% is caused by the fluid velocity.

GSF-DS series

SIROCCO FAN

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



MODEL NO.	A	B	ØD	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 제외된 중량입니다. ※Motor weight was not included in the weight of the fan.

MOTOR BASE

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

※상기 치수 및 성능 DATA는 성능 및 품질 개선을 위해 예고없이 변경할 수 있습니다.
 ※The dimensions and performance data can change without notice for performance and quality improvement.

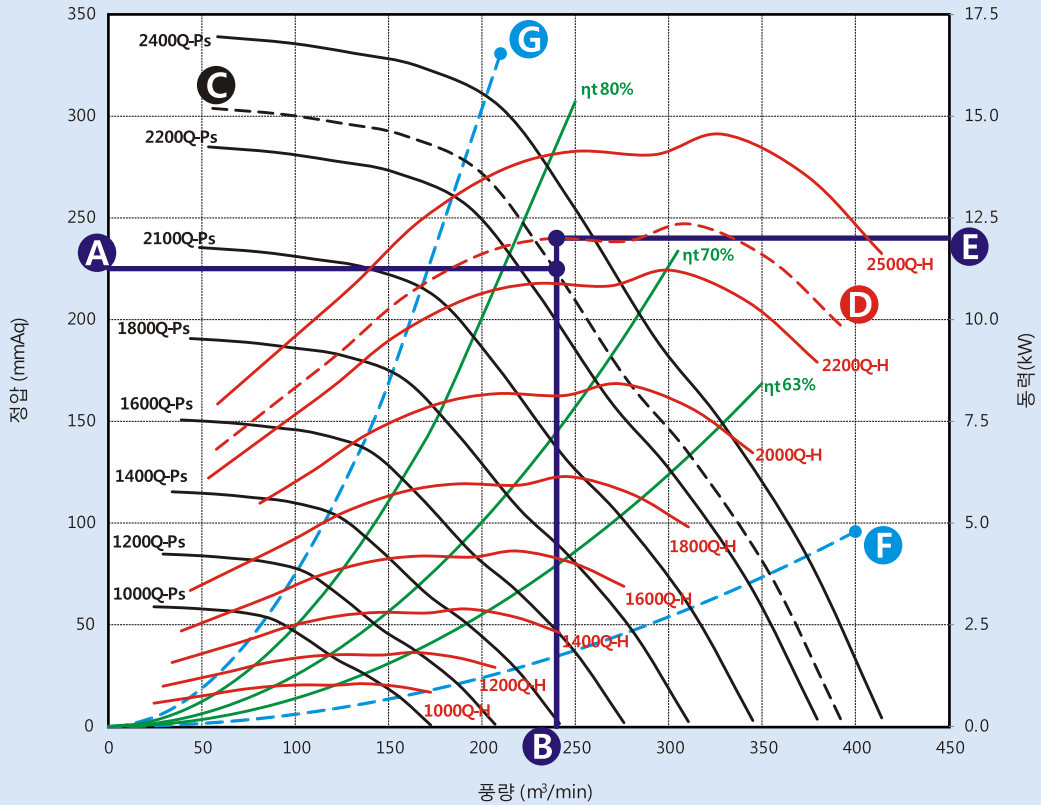
-Notes-
 1. The weight is that of a fan only except for the weight of a motor, and differs according to DS-L or temperature.
 2. The center of inlet and the height of outlet are subject to change according to use frequency and motor HP.

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)를 벗어나는 경우 효율적인 송풍기 운영을 위하여 송풍기 모델 및 기종을 변경하는 것이 바람직하다.

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

FAN DESIGN POINT SELECTION

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

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

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

GSF-DS series

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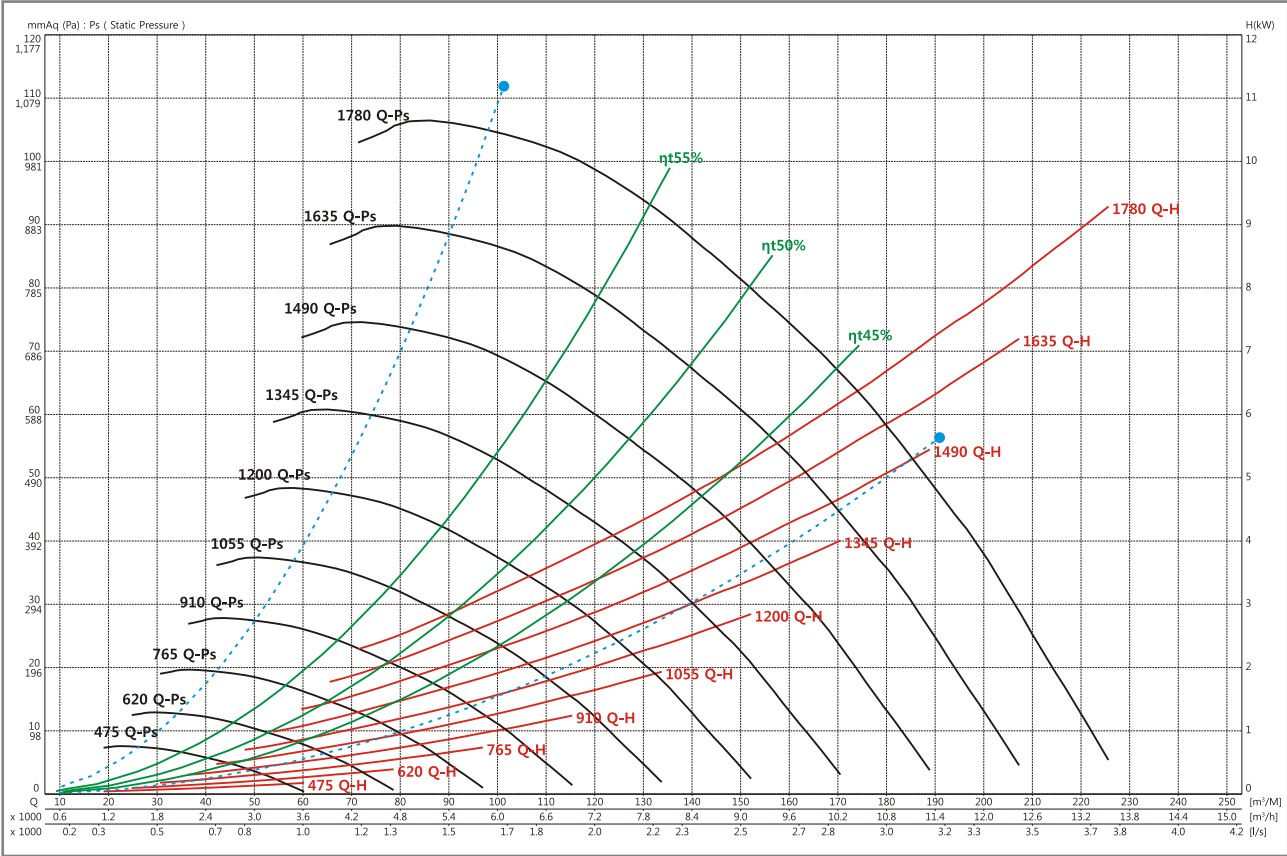
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GSF-2DS

FEG 70

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	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
30	4.10	545	0.09	59.1	60																	
40	5.46	572	0.14	56.4	65																	
50	6.83	614	0.21	51.6	69	789	0.32	58.2	72													
60	8.20	659	0.29	47.2	72	822	0.43	55.4	75	964	0.57	58.3	77	1090	0.72	59.1	79					
70	9.56	713	0.42	43.2	75	862	0.56	52.0	77	993	0.72	56.3	79	1116	0.90	58.2	81	1232	1.08	59.0	82	
80	10.93	769	0.56	40.4	79	907	0.73	48.8	79	1032	0.90	53.7	81	1145	1.09	56.4	83	1250	1.28	58.0	84	
90	12.30	834	0.76	37.4	82	959	0.94	45.7	82	1077	1.14	50.6	83	1182	1.34	54.1	84	1281	1.54	56.3	85	
100	13.66	896	0.98	35.9	84	1012	1.19	43.2	84	1124	1.42	48.0	85	1227	1.64	51.6	86	1320	1.86	54.2	87	
110	15.03	964	1.27	33.7	87	1072	1.50	40.8	87	1174	1.73	45.7	87	1270	1.96	49.3	88	1361	2.20	52.0	89	
120	16.39	1036	1.60	32.7	89	1130	1.83	38.9	89	1223	2.07	43.8	88	1319	2.35	47.2	89	1407	2.62	49.9	90	
130	17.76	1104	1.99	31.3	91	1192	2.23	37.2	91	1285	2.53	41.6	91	1367	2.77	45.3	90	1453	3.06	48.0	91	
140	19.13	1175	2.42	30.7	93	1255	2.68	35.9	93	1345	3.03	39.8	92	1425	3.31	43.4	92	1503	3.59	46.1	93	

Air flow (m³/min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 Pa)				100 mmAq (981 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
30	4.10																					
40	5.46																					
50	6.83																					
60	8.20																					
70	9.56																					
80	10.93	1355	1.49	58.8	85	1453	1.72	59.1	87													
90	12.30	1376	1.76	57.7	87	1470	1.98	58.5	88	1561	2.23	58.9	89									
100	13.66	1409	2.08	56.1	88	1495	2.31	57.3	89	1580	2.57	58.1	90	1663	2.83	58.6	91	1744	3.09	58.9	92	
110	15.03	1448	2.46	54.1	90	1529	2.70	55.8	90	1608	2.96	56.8	91	1686	3.23	57.7	92	1762	3.51	58.3	93	
120	16.39	1488	2.86	52.2	91	1568	3.15	53.9	92	1644	3.42	55.4	92	1717	3.70	56.4	93					
130	17.76	1535	3.36	50.2	92	1609	3.62	52.2	93	1681	3.91	53.7	94	1754	4.24	54.9	94					
140	19.13	1580	3.87	48.5	93	1654	4.17	50.4	94	1724	4.48	52.0	95									

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GSF-DS_Version 10.5_October,2015

GSF-DS series

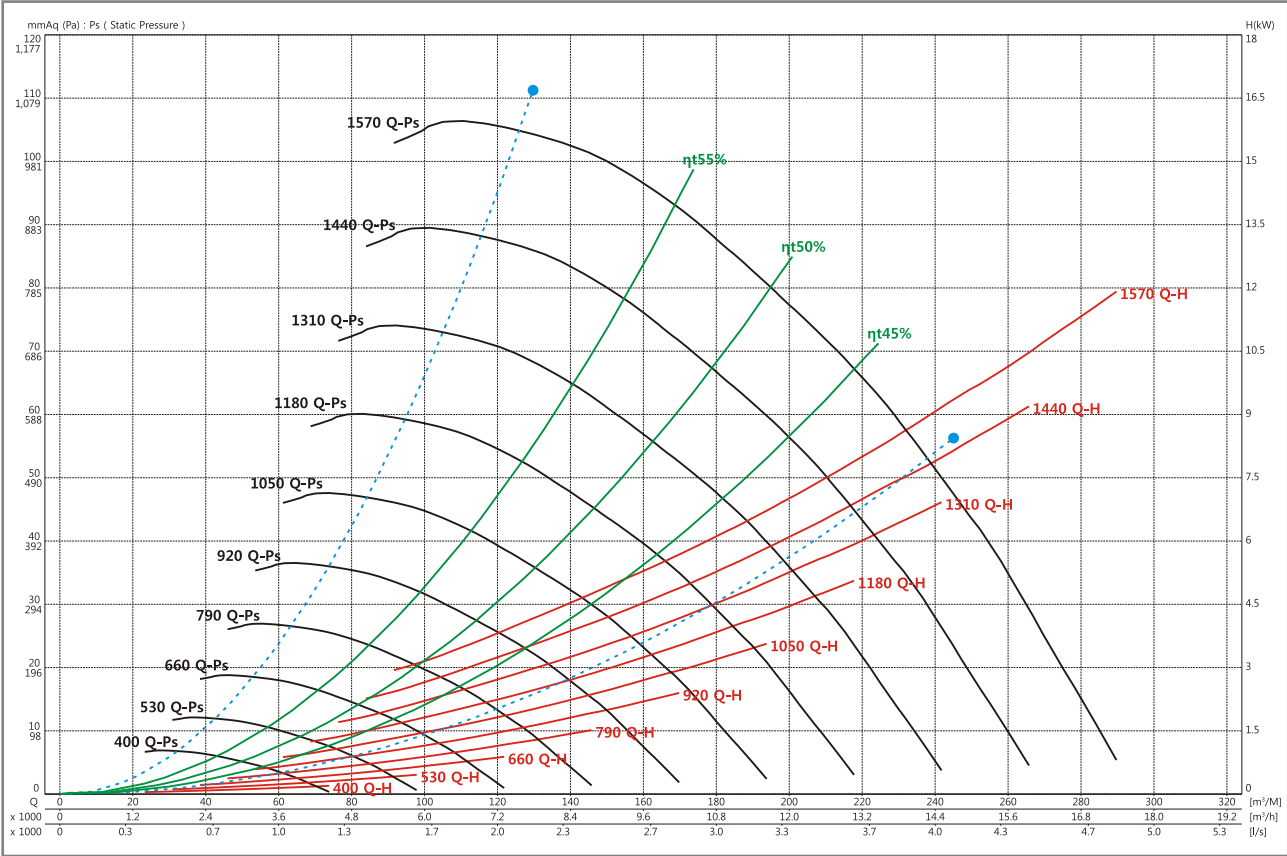
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GSF-2.25DS FEG 67

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	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
50	5.37	503	0.17	56.6	65																	
60	6.44	529	0.23	53.0	68	691	0.38	58.7	71													
70	7.51	559	0.31	49.5	71	710	0.48	56.8	74	843	0.65	58.9	76									
80	8.59	591	0.40	46.3	73	732	0.58	54.7	76	856	0.77	58.0	78	972	0.98	59.0	80					
90	9.66	629	0.53	43.4	76	761	0.72	52.0	78	877	0.92	56.3	80	985	1.15	58.2	81	1087	1.38	59.0	83	
100	10.74	670	0.68	40.8	79	793	0.89	49.3	80	903	1.11	54.1	81	1003	1.34	56.8	83	1100	1.59	58.3	84	
110	11.81	711	0.86	38.6	81	826	1.09	46.9	81	932	1.32	52.0	83	1027	1.57	55.2	84	1119	1.84	57.0	85	
120	12.88	754	1.07	36.7	84	862	1.32	44.7	83	964	1.58	49.8	85	1056	1.84	53.3	86	1142	2.11	55.6	87	
130	13.96	799	1.31	35.3	86	897	1.56	43.0	85	995	1.85	47.8	86	1087	2.15	51.3	87	1170	2.44	53.9	88	
140	15.03	844	1.58	34.0	88	938	1.86	41.2	87	1028	2.15	46.0	87	1117	2.47	49.5	88	1199	2.80	52.2	89	
150	16.10	893	1.90	33.2	89	980	2.20	39.5	89	1065	2.52	44.2	89	1149	2.83	48.0	89	1228	3.17	50.6	90	
160	17.18	940	2.26	32.0	91	1023	2.59	38.0	91	1103	2.92	42.6	90	1182	3.24	46.3	90	1261	3.62	48.9	91	

Air flow (m³/min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 Pa)				100 mmAq (981 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
50	5.37																					
60	6.44																					
70	7.51																					
80	8.59																					
90	9.66																					
100	10.74	1193	1.85	58.9	85																	
110	11.81	1206	2.12	58.2	87	1290	2.39	58.8	88	1372	2.70	59.1	89									
120	12.88	1224	2.39	57.2	88	1304	2.70	58.1	89	1383	3.01	58.7	90	1458	3.31	59.0	91					
130	13.96	1246	2.71	55.9	89	1323	3.03	57.1	90	1397	3.36	58.0	91	1470	3.67	58.6	91	1540	4.01	58.9	92	
140	15.03	1272	3.08	54.4	90	1346	3.41	55.9	91	1417	3.76	57.0	91	1486	4.11	57.8	92	1553	4.46	58.3	93	
150	16.10	1301	3.49	52.8	91	1372	3.85	54.5	92	1439	4.17	55.9	92	1505	4.53	56.8	93	1570	4.91	57.6	94	
160	17.18	1331	3.94	51.3	92	1401	4.33	53.0	93	1465	4.66	54.7	93	1529	5.04	55.8	94					

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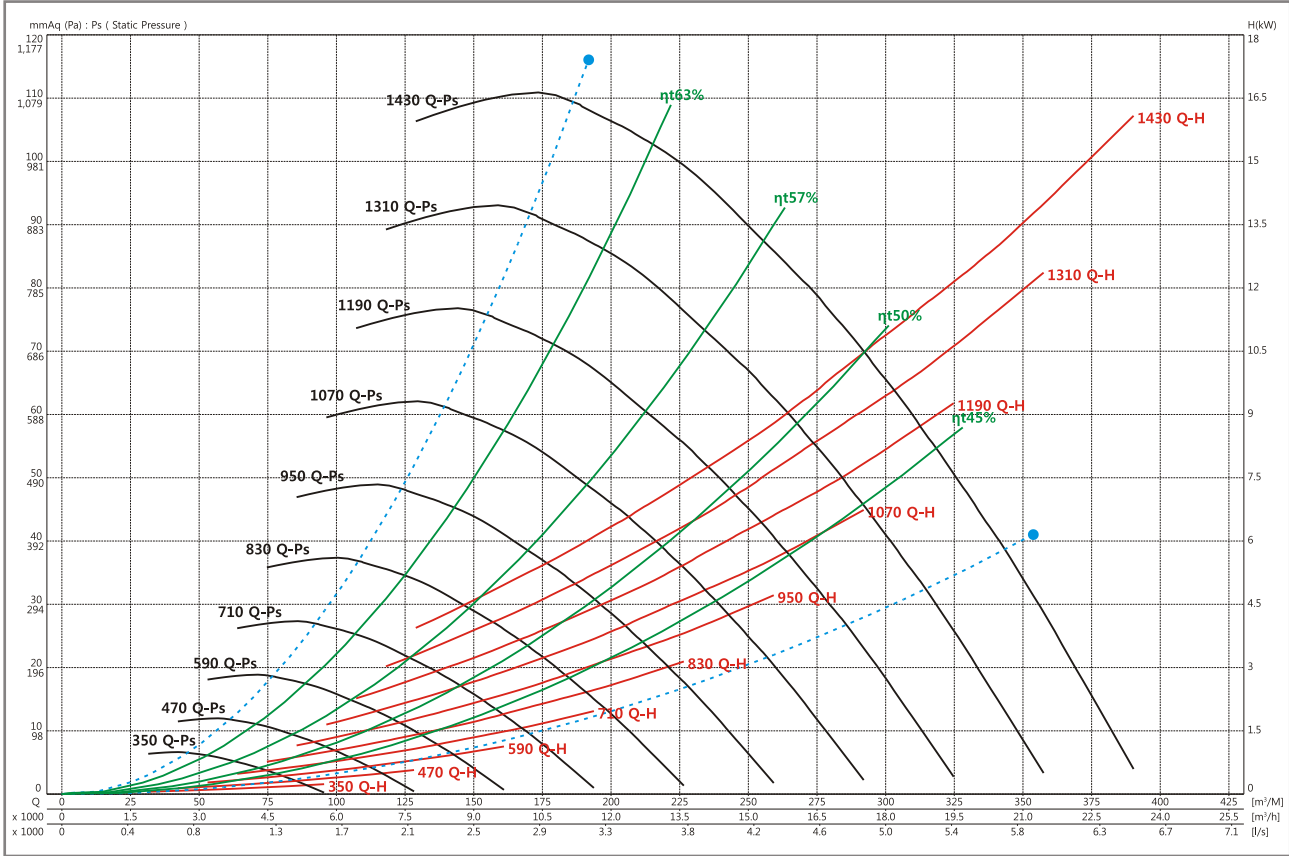
GSF-DS series

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GSF-2.5DS FEG 70

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	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
90	7.89	492	0.37	55.7	72	624	0.55	63.9	75												
100	8.77	514	0.45	52.7	75	640	0.65	62.1	76	752	0.86	65.3	79								
110	9.65	540	0.56	50.3	77	658	0.77	59.9	77	765	1.01	63.9	80								
120	10.53	566	0.68	48.0	79	679	0.91	57.6	79	778	1.15	62.5	80	874	1.42	64.6	84				
130	11.40	594	0.83	46.0	80	701	1.07	55.4	81	796	1.32	60.7	81	886	1.60	63.5	84	973	1.89	65.1	87
140	12.28	623	0.99	44.4	82	725	1.26	53.1	83	817	1.52	58.8	83	902	1.81	62.2	84	984	2.10	64.2	87
150	13.16	652	1.17	43.0	84	750	1.47	51.1	84	840	1.75	56.9	84	920	2.05	60.7	85	998	2.34	63.1	87
160	14.04	683	1.39	41.6	85	775	1.69	49.3	85	861	1.99	55.1	86	940	2.30	59.1	86	1013	2.62	61.7	87
170	14.91	713	1.61	40.7	87	801	1.94	48.0	87	884	2.26	53.5	87	962	2.59	57.5	88	1033	2.94	60.3	88
180	15.79	745	1.87	39.9	88	831	2.24	46.5	88	908	2.56	51.8	89	984	2.91	55.9	89	1053	3.25	58.9	89
190	16.67	776	2.16	38.7	90	858	2.53	45.4	89	933	2.89	50.3	90	1006	3.26	54.3	90	1075	3.61	57.5	90
200	17.54	808	2.49	37.9	91	887	2.88	44.1	91	961	3.27	48.9	91	1030	3.65	52.7	91	1096	3.99	56.2	91

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
90	7.89																				
100	8.77																				
110	9.65																				
120	10.53																				
130	11.40																				
140	12.28	1061	2.41	65.4	89																
150	13.16	1074	2.68	64.4	89	1145	3.00	65.5	90												
160	14.04	1087	2.97	63.4	89	1158	3.33	64.5	90	1224	3.67	65.5	91								
170	14.91	1101	3.27	62.4	89	1170	3.64	63.8	90	1237	4.03	64.6	91	1298	4.37	65.5	92				
180	15.79	1119	3.62	61.2	90	1184	3.99	62.8	91	1248	4.38	63.9	92	1311	4.78	64.7	92	1370	5.18	65.4	93
190	16.67	1138	3.98	59.9	91	1201	4.37	61.7	91	1262	4.77	63.0	92	1322	5.16	64.1	93	1382	5.63	64.6	93
200	17.54	1160	4.41	58.5	92	1219	4.78	60.5	92	1277	5.18	62.1	92	1336	5.61	63.1	93	1393	6.03	64.1	94

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GSF-DS series

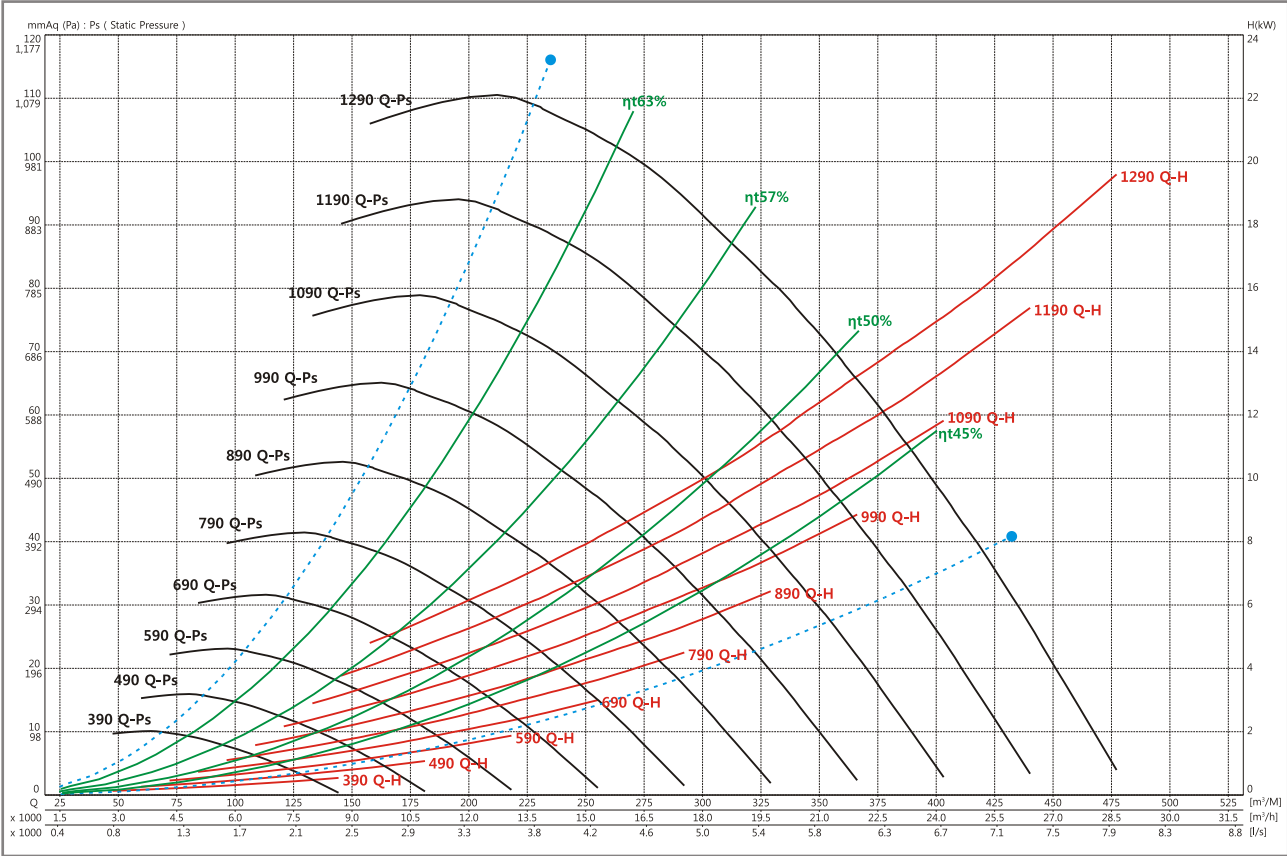
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GSF-2.75DS FEG 70

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	
85	6.13	406	0.27	62.5	67																	
100	7.22	428	0.37	58.5	70	555	0.58	65.3	77													
115	8.30	453	0.49	54.6	74	569	0.72	63.1	76													
130	9.38	480	0.64	51.1	77	588	0.89	60.7	77	686	1.16	64.4	80									
145	10.46	509	0.82	48.3	79	611	1.09	57.9	79	702	1.38	62.7	81	788	1.70	64.8	84					
160	11.54	539	1.03	46.0	81	635	1.33	55.1	82	721	1.64	60.5	82	802	1.98	63.4	84	879	2.33	65.0	87	
175	12.63	571	1.28	44.0	83	661	1.61	52.6	84	744	1.94	58.3	84	819	2.29	61.9	85	892	2.65	63.9	87	
190	13.71	604	1.57	42.2	85	689	1.93	50.3	85	768	2.28	56.2	86	840	2.66	59.9	86	909	3.05	62.4	87	
205	14.79	638	1.90	40.9	87	719	2.31	48.3	87	793	2.68	53.9	88	864	3.07	57.9	88	928	3.49	60.7	88	
220	15.87	671	2.28	39.6	89	750	2.73	46.6	89	819	3.12	51.8	89	888	3.55	55.9	89	951	3.96	59.1	90	
235	16.96	707	2.72	38.7	91	780	3.17	45.1	90	849	3.65	49.9	91	913	4.07	54.1	91	975	4.51	57.2	91	
250	18.04	742	3.21	37.7	92	812	3.69	43.8	92	878	4.18	48.5	92	940	4.66	52.2	92	1000	5.12	55.6	93	

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	
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	90																	
190	13.71	976	3.46	64.0	90	1040	3.87	65.0	92													
205	14.79	992	3.91	62.7	90	1054	4.33	64.1	92	1114	4.82	64.8	93									
220	15.87	1010	4.41	61.2	90	1070	4.86	62.9	92	1128	5.35	64.0	93	1184	5.85	64.7	94	1237	6.31	65.5	94	
235	16.96	1032	4.97	59.6	91	1087	5.43	61.5	92	1143	5.93	62.9	93	1197	6.42	63.9	94	1251	6.98	64.5	95	
250	18.04	1056	5.59	58.1	93	1109	6.09	60.0	93	1161	6.58	61.6	93	1214	7.14	62.8	94	1265	7.67	63.7	95	

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GSF-DS series

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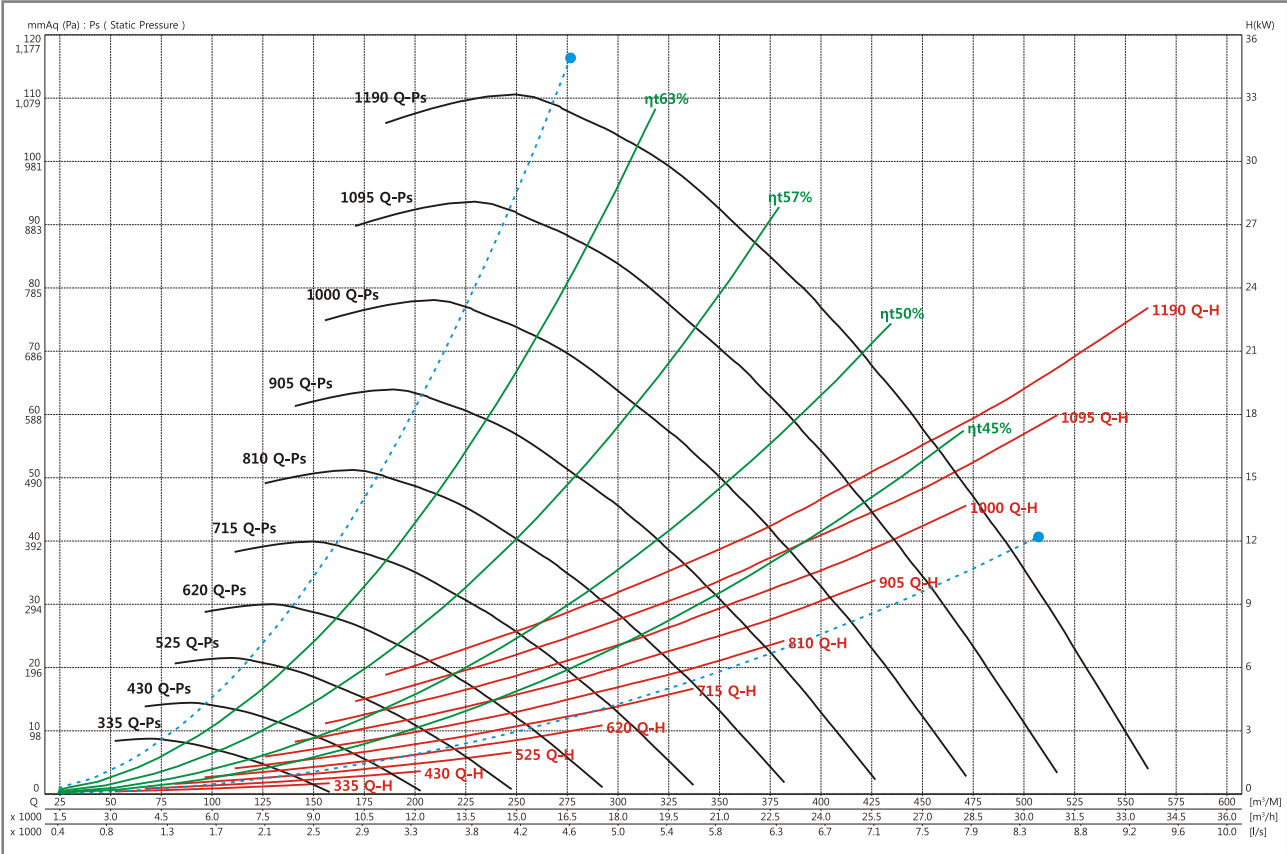
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GSF-3DS

FEG 70

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	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
135	8.24	417	0.57	54.6	74	525	0.84	63.2	77													
150	9.16	437	0.72	51.5	76	539	1.00	61.2	77	631	1.33	64.6	81									
165	10.07	461	0.89	49.0	79	556	1.19	58.8	79	642	1.54	63.2	81	723	1.91	65.3	84					
180	10.99	483	1.08	46.9	81	576	1.42	56.6	81	656	1.78	61.6	82	733	2.16	64.2	84	801	2.55	65.6	87	
195	11.90	508	1.31	45.2	83	595	1.68	54.2	83	673	2.06	59.6	83	745	2.46	62.9	85	816	2.90	64.5	87	
210	12.82	533	1.57	43.6	84	616	1.99	51.8	85	692	2.38	57.8	85	760	2.80	61.3	85	827	3.25	63.4	87	
225	13.74	560	1.88	42.2	86	638	2.31	50.2	86	711	2.73	55.9	86	777	3.18	59.6	87	839	3.62	62.2	88	
240	14.65	586	2.21	40.9	88	661	2.68	48.5	88	730	3.12	54.1	88	796	3.59	58.1	88	855	4.07	60.8	89	
255	15.57	613	2.59	39.9	89	685	3.09	46.9	89	751	3.58	52.1	89	814	4.03	56.4	90	873	4.54	59.4	90	
270	16.48	641	3.02	38.9	91	709	3.53	45.6	90	772	4.04	50.6	90	834	4.57	54.7	91	891	5.08	57.8	91	
285	17.40	668	3.48	38.1	92	735	4.04	44.4	92	796	4.58	49.2	92	854	5.11	53.3	92	910	5.64	56.4	92	
300	18.32	696	4.00	37.3	93	760	4.58	43.3	93	818	5.15	47.9	93	875	5.73	51.7	93	929	6.26	55.0	93	

Air flow (m³/min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 Pa)				100 mmAq (981 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
135	8.24																					
150	9.16																					
165	10.07																					
180	10.99																					
195	11.90																					
210	12.82	891	3.71	64.8	90																	
225	13.74	901	4.10	63.9	90	961	4.62	64.9	92													
240	14.65	914	4.56	62.8	90	971	5.06	64.2	92	1027	5.61	64.9	94									
255	15.57	928	5.06	61.5	90	983	5.58	63.1	92	1037	6.14	64.2	94	1089	6.72	64.9	95					
270	16.48	944	5.60	60.1	92	997	6.16	62.0	92	1049	6.71	63.2	94	1100	7.31	64.2	95	1149	7.93	64.8	96	
285	17.40	963	6.22	58.8	93	1012	6.75	60.8	93	1062	7.36	62.2	94	1111	7.95	63.3	95	1159	8.55	64.2	96	
300	18.32	981	6.84	57.5	94	1030	7.44	59.5	94	1077	8.03	61.2	94	1124	8.66	62.4	95	1171	9.31	63.3	96	

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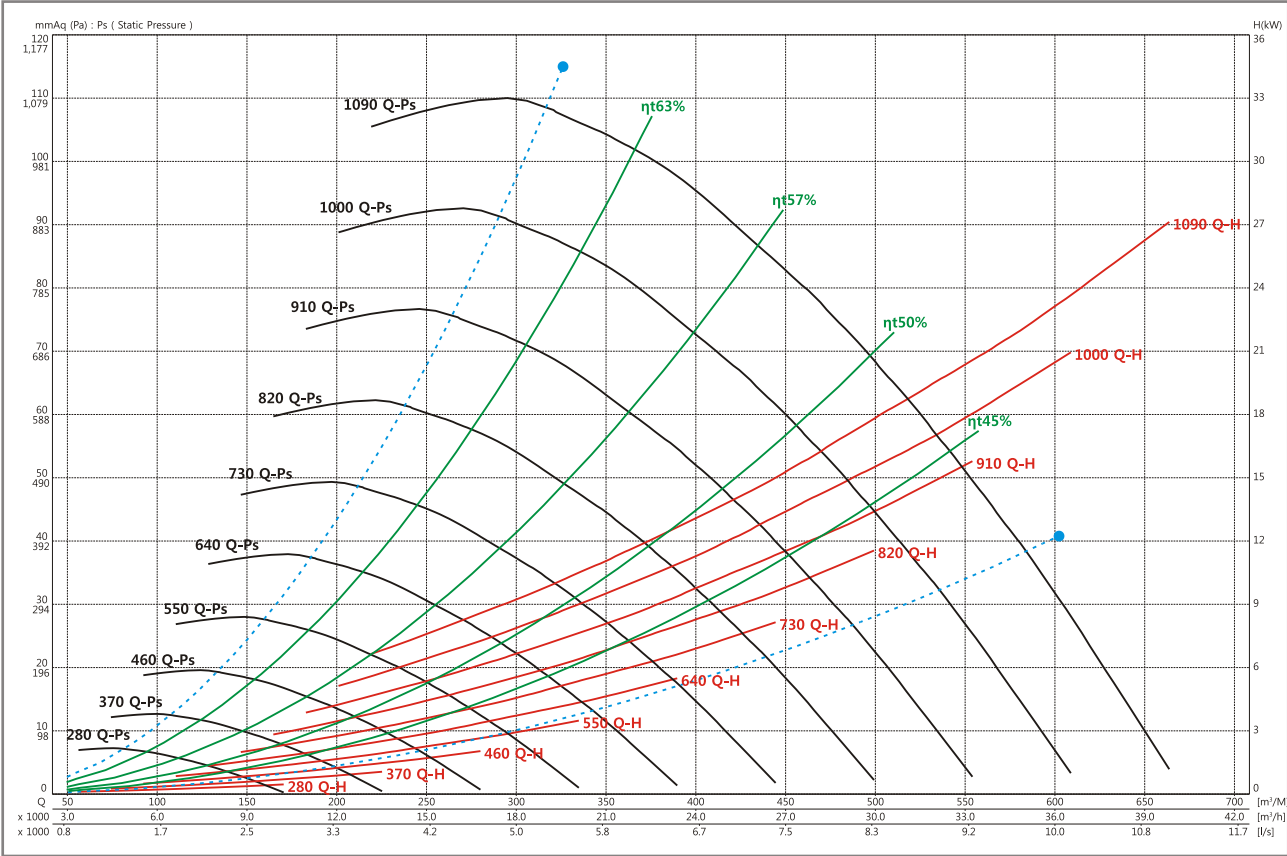
GSF-DS series

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GSF-3.25DS FEG 70

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	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
140	7.25	363	0.51	58.5	71	470	0.81	65.1	78													
160	8.29	383	0.68	54.7	74	482	0.99	63.2	78													
180	9.32	404	0.87	51.4	77	497	1.22	60.9	78	581	1.61	64.4	82									
200	10.36	428	1.11	48.5	79	516	1.49	58.1	80	593	1.90	62.9	82	666	2.33	65.0	85					
220	11.40	452	1.38	46.2	82	535	1.80	55.6	82	608	2.23	60.9	83	677	2.69	63.7	85	743	3.17	65.3	87	
240	12.43	478	1.70	44.4	84	556	2.17	53.1	84	626	2.62	58.6	85	691	3.11	62.2	86	754	3.62	64.2	88	
260	13.47	505	2.08	42.9	86	578	2.58	50.8	86	646	3.07	56.6	86	707	3.58	60.3	87	766	4.11	62.8	88	
280	14.50	532	2.51	41.4	88	602	3.07	48.7	88	666	3.59	54.4	88	726	4.11	58.5	88	781	4.68	61.2	89	
300	15.54	560	3.01	40.0	90	625	3.58	47.1	89	687	4.17	52.3	90	745	4.72	56.6	90	799	5.32	59.5	90	
320	16.58	588	3.57	38.9	91	651	4.19	45.6	91	709	4.79	50.6	91	765	5.39	54.7	91	819	6.01	57.9	92	
340	17.61	617	4.20	38.1	93	677	4.85	44.3	92	733	5.52	48.9	92	786	6.15	52.9	93	838	6.77	56.3	93	
360	18.65	646	4.90	37.3	94	704	5.59	43.2	94	757	6.28	47.7	94	808	6.97	51.3	94	858	7.64	54.6	94	

Air flow (m³/min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 Pa)				100 mmAq (981 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
140	7.25																					
160	8.29																					
180	9.32																					
200	10.36																					
220	11.40																					
240	12.43	813	4.16	65.3	90																	
260	13.47	824	4.68	64.3	90	879	5.26	65.3	92													
280	14.50	836	5.25	63.1	90	890	5.88	64.3	92	941	6.49	65.2	94									
300	15.54	850	5.90	61.7	91	902	6.55	63.2	92	951	7.20	64.3	94	999	7.85	65.0	96					
320	16.58	867	6.64	60.1	92	915	7.29	62.0	93	963	7.98	63.2	94	1010	8.66	64.2	96	1055	9.39	64.8	97	
340	17.61	886	7.44	58.6	93	931	8.10	60.6	94	977	8.81	62.1	94	1022	9.54	63.2	96	1066	10.3	64.2	97	
360	18.65	905	8.30	57.1	94	950	9.02	59.2	95	993	9.74	60.9	95	1036	10.5	62.2	96	1078	11.2	63.1	97	

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GSF-DS_Version 10.5_October,2015

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GSF-DS series

GSF-DS series

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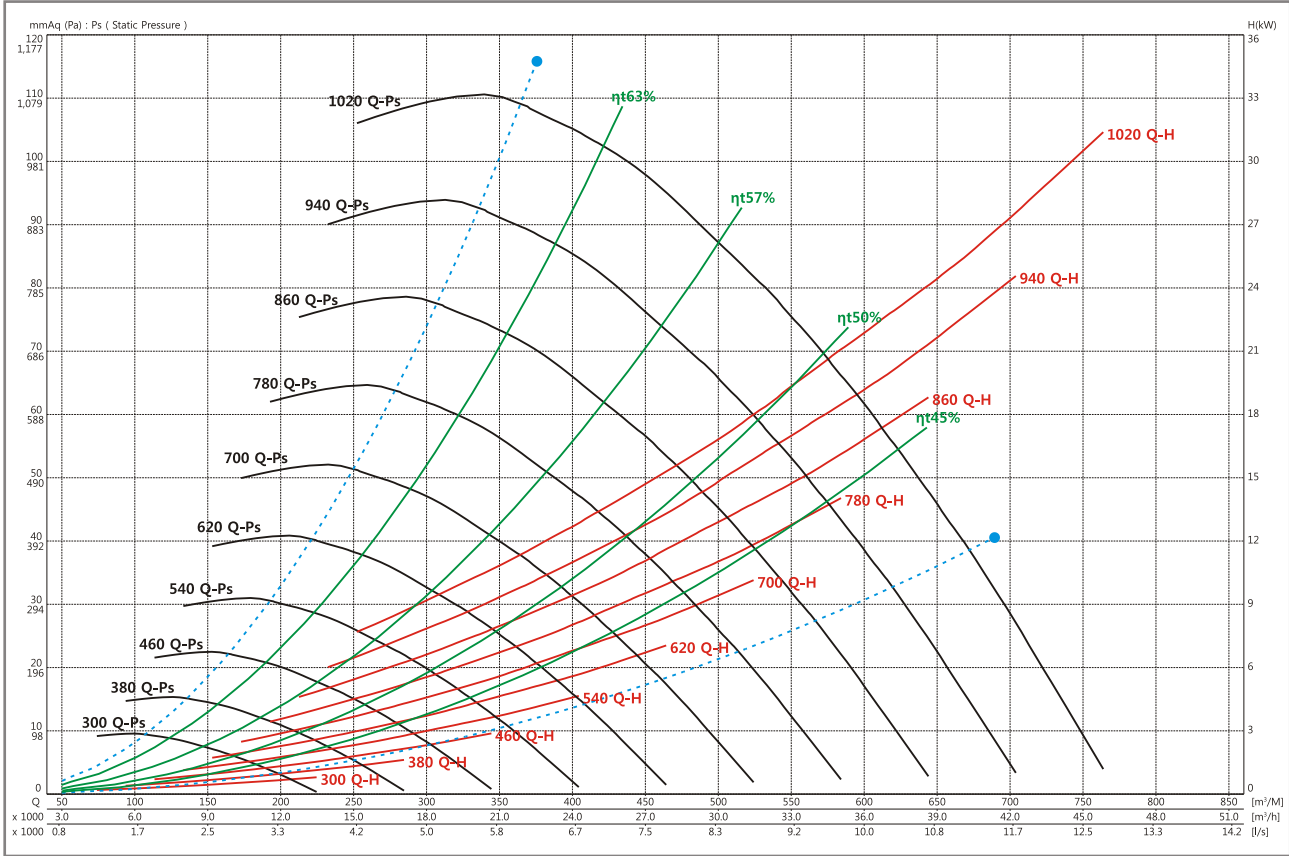
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GSF-3.5DS

FEG 70

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
200	8.90	372	0.94	52.2	77	459	1.32	61.5	78	539	1.75	64.9	83								
220	9.79	390	1.16	49.5	79	474	1.58	59.3	80	548	2.02	63.6	83	616	2.50	65.6	86				
240	10.68	410	1.41	47.4	81	489	1.86	56.9	82	559	2.34	62.0	83	626	2.86	64.4	86				
260	11.57	430	1.70	45.6	83	505	2.19	54.7	84	573	2.71	60.1	84	636	3.24	63.2	86	697	3.82	64.8	88
280	12.46	451	2.04	44.0	85	522	2.57	52.5	85	588	3.10	58.3	85	647	3.67	61.7	86	706	4.26	63.9	88
300	13.35	473	2.42	42.8	87	541	3.00	50.6	87	604	3.56	56.4	87	661	4.15	60.1	87	716	4.76	62.7	88
320	14.24	495	2.85	41.4	88	560	3.47	48.9	88	620	4.07	54.6	88	676	4.69	58.5	89	728	5.33	61.3	89
340	15.13	517	3.33	40.4	90	580	4.00	47.4	90	637	4.64	52.7	90	692	5.27	56.9	90	742	5.93	59.9	90
360	16.02	540	3.89	39.2	91	600	4.58	46.0	91	656	5.28	51.2	91	708	5.94	55.3	91	758	6.64	58.3	92
380	16.91	564	4.50	38.4	93	621	5.22	44.8	92	674	5.95	49.7	92	724	6.62	53.9	93	774	7.38	56.9	93
400	17.80	587	5.15	37.7	94	642	5.90	43.8	93	694	6.70	48.5	93	743	7.46	52.2	94	790	8.18	55.6	94
420	18.69	610	5.87	36.9	95	664	6.67	42.9	95	713	7.50	47.1	94	761	8.30	50.9	95	806	9.05	54.2	95

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
200	8.90																				
220	9.79																				
240	10.68																				
260	11.57																				
280	12.46	761	4.89	65.0	90																
300	13.35	770	5.41	64.2	90	821	6.08	65.2	92												
320	14.24	780	6.00	63.1	91	830	6.71	64.3	92	877	7.41	65.2	94								
340	15.13	791	6.65	62.0	91	839	7.37	63.3	93	886	8.11	64.4	94	931	8.86	65.2	96				
360	16.02	804	7.35	60.7	92	850	8.09	62.4	93	895	8.86	63.5	94	939	9.66	64.4	96	982	10.5	65.1	98
380	16.91	819	8.10	59.4	93	862	8.87	61.2	93	906	9.66	62.7	95	949	10.5	63.7	96	990	11.3	64.4	98
400	17.80	835	8.95	58.1	94	877	9.76	60.0	94	918	10.5	61.6	95	959	11.4	62.8	96	1000	12.3	63.7	98
420	18.69	850	9.86	56.7	95	892	10.7	58.8	95	931	11.5	60.5	96	971	12.4	61.9	96	1010	13.3	62.9	98

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GSF-DS series

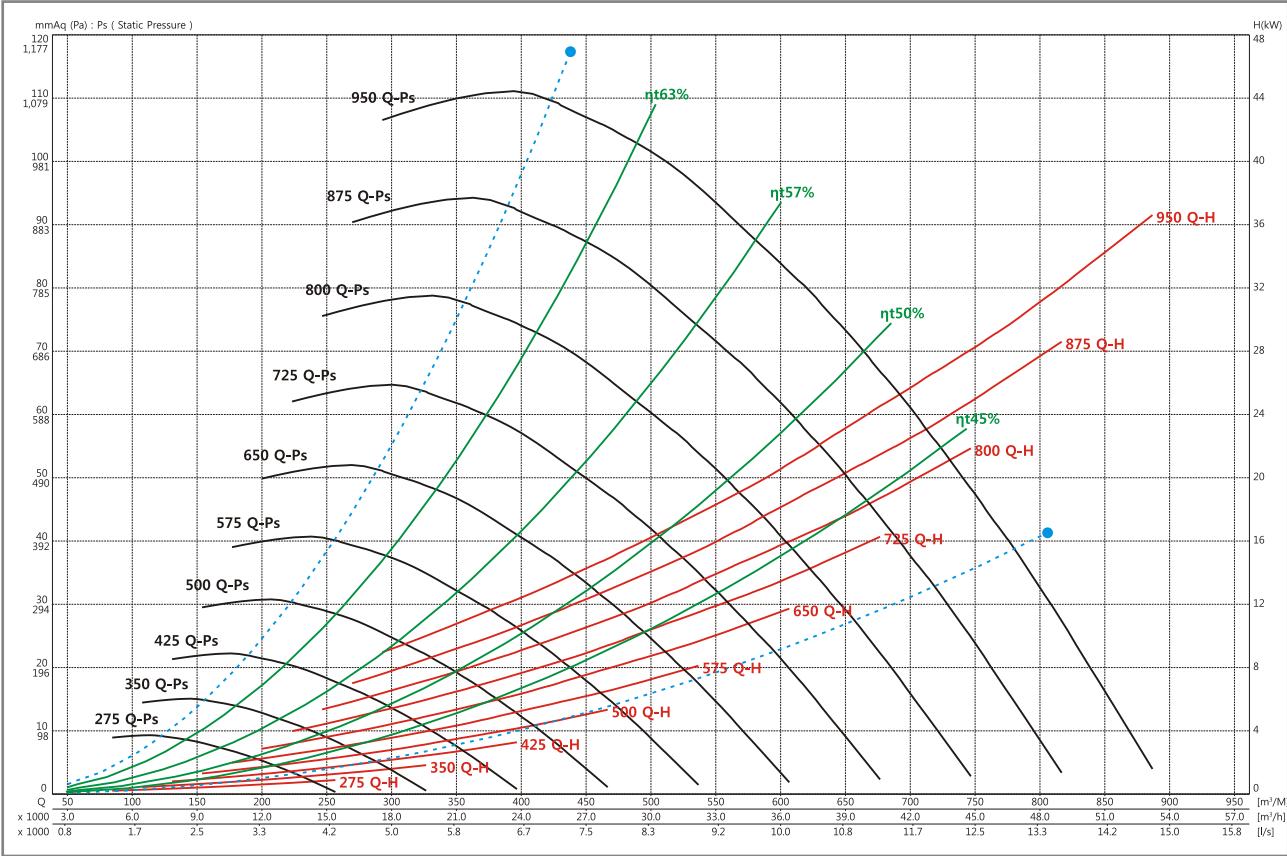
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GSF-3.75DS FEG 70

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
210	8.19	330	0.87	55.1	75	417	1.30	63.4	78												
230	8.97	344	1.07	52.3	77	426	1.51	61.7	78	500	2.01	65.0	85								
250	9.75	359	1.28	50.2	79	437	1.76	59.7	80	507	2.28	63.9	84								
270	10.53	374	1.52	48.2	81	450	2.04	57.8	81	516	2.58	62.6	83	579	3.17	64.8	87				
290	11.31	390	1.80	46.5	82	462	2.35	55.7	83	526	2.93	61.0	84	586	3.53	63.9	86	643	4.17	65.3	88
310	12.09	407	2.12	44.9	84	475	2.69	53.9	85	538	3.31	59.5	85	595	3.94	62.7	86	650	4.60	64.4	89
330	12.87	424	2.47	43.6	86	490	3.11	51.9	86	550	3.72	57.8	86	605	4.38	61.5	87	658	5.08	63.5	89
350	13.65	441	2.85	42.5	87	504	3.53	50.3	87	563	4.18	56.3	88	616	4.88	60.0	88	667	5.60	62.5	89
370	14.42	459	3.28	41.4	89	520	4.02	48.9	89	576	4.70	54.6	89	628	5.41	58.6	89	676	6.15	61.3	90
390	15.20	477	3.76	40.5	90	535	4.51	47.7	90	590	5.28	53.1	90	641	6.00	57.2	90	688	6.77	60.1	91
410	15.98	496	4.31	39.6	91	552	5.10	46.5	91	604	5.88	51.7	91	654	6.64	55.9	91	700	7.43	58.8	92
430	16.76	514	4.88	38.7	93	569	5.72	45.4	92	619	6.55	50.3	92	667	7.35	54.4	93	712	8.13	57.6	93

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
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	90																
350	13.65	716	6.33	64.2	91	764	7.12	65.1	92												
370	14.42	724	6.93	63.1	91	771	7.76	64.3	92	815	8.54	65.3	94								
390	15.20	733	7.56	62.2	91	778	8.40	63.5	93	822	9.25	64.5	94	863	10.1	65.3	96				
410	15.98	743	8.24	61.1	92	787	9.11	62.7	93	829	10.0	63.9	94	871	10.9	64.6	96	910	11.8	65.4	98
430	16.76	755	9.00	59.9	93	796	9.88	61.7	93	837	10.8	63.1	95	877	11.7	64.1	96	917	12.7	64.7	98

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GSF-DS_Version 10.5_October,2015

GSF-DS series

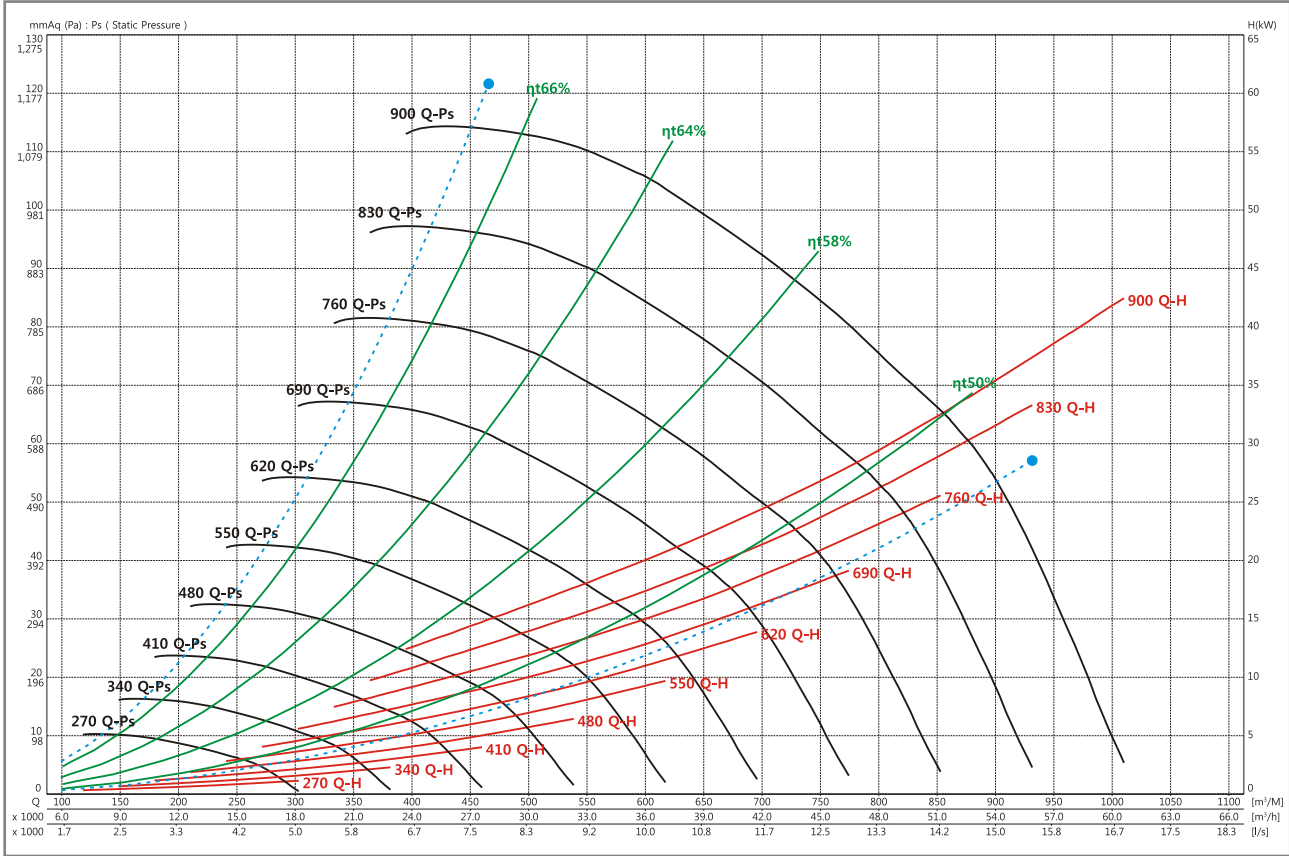
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GSF-4DS

FEG 70

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
250	8.54	306	1.02	57.6	74	388	1.54	64.6	72	463	2.14	65.8	78								
275	9.39	319	1.26	55.1	77	397	1.80	63.1	73	467	2.43	65.6	78	533	3.10	65.8	82				
300	10.25	333	1.52	52.8	79	408	2.12	61.3	75	474	2.76	64.8	78	536	3.45	65.8	82				
325	11.10	347	1.83	50.9	81	419	2.46	59.5	80	482	3.12	63.9	78	541	3.86	65.5	82	596	4.21	65.8	85
350	11.95	362	2.19	48.9	82	431	2.85	57.7	83	492	3.55	62.3	79	548	4.30	64.7	82	602	5.11	65.7	85
375	12.81	379	2.60	47.2	84	443	3.27	56.1	84	503	4.04	60.8	82	556	4.80	63.9	82	608	5.64	65.2	85
400	13.66	397	3.07	45.5	85	457	3.77	54.4	86	514	4.56	59.4	85	566	5.37	62.5	83	615	6.22	64.5	85
425	14.52	417	3.63	44.1	87	471	4.32	52.8	88	526	5.14	57.9	87	577	5.99	61.3	85	624	6.87	63.6	85
450	15.37	436	4.24	42.4	88	485	4.93	51.3	89	538	5.77	56.6	89	588	6.66	60.0	88	634	7.57	62.5	86
475	16.22	456	4.92	41.2	89	499	5.58	50.0	90	552	6.48	55.3	91	600	7.41	58.8	90	645	8.37	61.3	88
500	17.08	476	5.67	40.0	91	515	6.34	48.7	91	565	7.24	53.8	92	612	8.20	57.6	92	656	9.22	60.1	90
525	17.93	497	6.51	39.3	92	532	7.18	47.4	92	580	8.12	52.6	93	624	9.07	56.3	93	667	10.1	59.1	92

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
250	8.54																				
275	9.39																				
300	10.25																				
325	11.10	649	5.41	65.7	87																
350	11.95	655	5.97	65.9	88																
375	12.81	658	6.52	65.8	88	707	7.44	65.9	90												
400	13.66	663	7.12	65.5	88	710	8.08	65.8	90	755	9.07	65.9	92	798	10.1	65.7	93				
425	14.52	670	7.82	64.8	88	714	8.77	65.5	90	758	9.78	65.8	92	801	10.8	65.9	93	843	11.9	65.8	95
450	15.37	678	8.53	64.2	88	721	9.53	65.1	90	763	10.6	65.6	92	804	11.6	65.8	93	845	12.8	65.9	95
475	16.22	687	9.32	63.2	88	728	10.4	64.4	90	769	11.4	65.2	92	808	12.5	65.6	93	848	13.7	65.8	95
500	17.08	698	10.2	62.2	89	737	11.2	63.8	90	776	12.3	64.6	92	814	13.5	65.3	93	852	14.7	65.6	95
525	17.93	708	11.2	61.1	91	747	12.2	62.7	90	784	13.3	64.0	92	822	14.5	64.8	94	858	15.7	65.4	95

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

GSF-DS_Version 10.5_October,2015

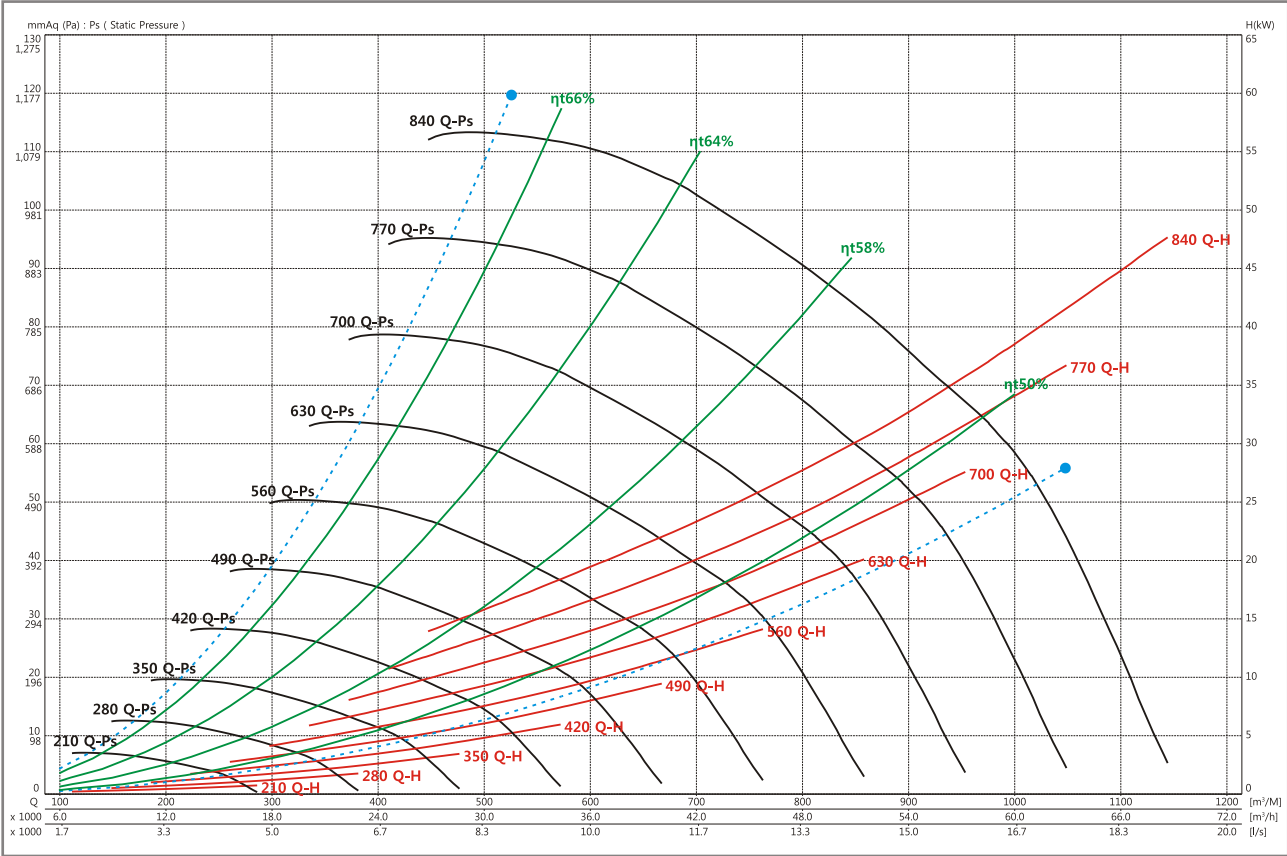
GSF-DS series

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GSF-4.25DS FEG 67

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 (m ³ /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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
250	7.54	274	0.91	60.5	68	357	1.46	65.7	72												
280	8.45	285	1.13	57.9	74	363	1.72	64.8	73	434	2.39	65.9	78								
310	9.35	298	1.40	55.5	77	371	2.02	63.3	73	437	2.72	65.6	78	500	3.49	65.8	82				
340	10.26	312	1.73	52.9	79	382	2.39	61.4	75	444	3.12	64.9	78	503	3.92	65.8	82	558	4.75	65.8	85
370	11.16	326	2.09	50.9	81	393	2.80	59.5	80	452	3.56	63.9	78	507	4.38	65.5	82	561	5.28	65.8	85
400	12.07	341	2.53	48.9	83	405	3.26	57.7	83	462	4.07	62.3	79	514	4.93	64.7	82	565	5.86	65.7	85
430	12.97	357	3.02	46.9	84	417	3.78	56.0	85	472	4.64	60.7	83	522	5.52	63.7	82	571	6.50	65.1	85
460	13.88	376	3.61	45.4	86	431	4.40	54.1	87	484	5.29	59.2	86	533	6.22	62.4	83	578	7.19	64.4	85
490	14.78	395	4.29	43.7	87	445	5.08	52.5	88	496	6.00	57.7	88	543	6.98	61.0	86	587	7.98	63.3	86
520	15.69	414	5.03	42.1	89	459	5.83	51.0	90	508	6.77	56.3	90	554	7.81	59.6	89	597	8.86	62.1	86
550	16.59	434	5.87	41.1	90	473	6.63	49.6	91	521	7.64	54.8	92	566	8.72	58.4	91	608	9.83	60.9	89
580	17.50	454	6.82	39.7	91	489	7.56	48.3	92	535	8.62	53.3	93	578	9.71	57.1	92	619	10.9	59.7	91

Air flow (m ³ /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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
250	7.54																				
280	8.45																				
310	9.35																				
340	10.26																				
370	11.16	609	6.17	65.7	88																
400	12.07	614	6.83	65.9	88	658	7.78	65.7	90												
430	12.97	617	7.50	65.7	88	663	8.55	65.9	90	706	9.63	65.8	92								
460	13.88	622	8.23	65.4	88	666	9.32	65.8	90	709	10.5	65.9	92	749	11.6	65.8	93				
490	14.78	630	9.08	64.7	88	671	10.2	65.5	90	712	11.4	65.8	92	752	12.5	65.9	93	790	13.8	65.8	95
520	15.69	638	10.0	64.0	88	678	11.1	64.9	90	716	12.3	65.5	92	755	13.5	65.8	93	793	14.8	65.9	95
550	16.59	648	11.0	62.9	88	685	12.1	64.2	90	723	13.3	65.0	92	759	14.6	65.5	93	796	15.9	65.8	95
580	17.50	658	12.1	61.7	90	695	13.3	63.3	90	730	14.5	64.4	92	766	15.8	65.1	94	801	17.1	65.5	95

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GSF-DS_Version 10.5_October,2015

GSF-DS series

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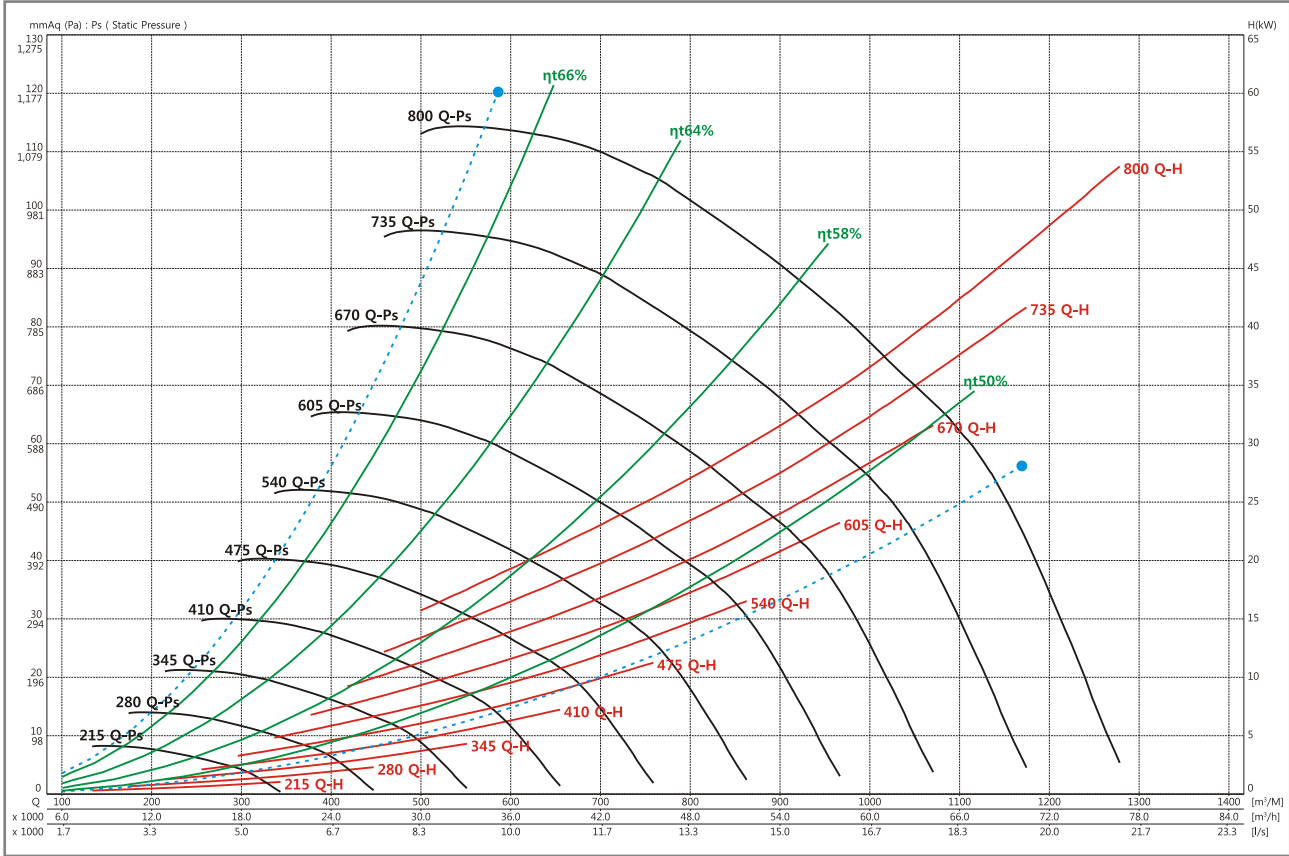
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GSF-4.5DS

FEG 67

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
260	7.03	254	0.89	62.0	64	336	1.48	65.8	73												
300	8.11	266	1.17	58.7	73	342	1.81	65.2	73	411	2.54	65.8	78								
340	9.19	280	1.50	55.7	77	351	2.20	63.6	73	414	2.97	65.7	78	474	3.82	65.8	82				
380	10.27	296	1.93	52.8	79	363	2.68	61.3	76	421	3.49	64.8	78	477	4.39	65.8	82	530	5.34	65.8	85
420	11.35	312	2.43	50.4	82	375	3.24	59.0	81	431	4.10	63.5	79	482	5.01	65.4	82	532	6.02	65.8	85
460	12.44	330	3.04	48.1	84	389	3.88	56.9	84	442	4.80	61.5	81	491	5.77	64.3	83	537	6.80	65.5	85
500	13.52	350	3.78	45.8	85	404	4.65	54.8	87	455	5.63	59.7	85	501	6.63	62.8	83	546	7.74	64.6	86
540	14.60	371	4.64	43.7	87	420	5.53	52.7	88	468	6.54	57.9	88	513	7.63	61.1	86	555	8.73	63.5	86
580	15.68	393	5.63	41.9	89	435	6.50	50.9	90	482	7.57	56.2	90	526	8.74	59.6	89	567	9.92	62.1	87
620	16.76	416	6.78	40.6	91	452	7.63	49.2	91	497	8.74	54.4	92	539	10.0	58.0	92	579	11.2	60.6	90
660	17.84	439	8.08	39.3	92	471	8.93	47.7	93	513	10.1	52.7	94	553	11.3	56.5	93	592	12.6	59.2	93
700	18.92	462	9.53	38.3	94	491	10.4	46.1	94	529	11.6	51.2	95	568	12.8	55.0	95	605	14.2	57.8	95

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
260	7.03																				
300	8.11																				
340	9.19																				
380	10.27																				
420	11.35	580	7.07	65.8	88																
460	12.44	583	7.93	65.8	88	627	9.08	65.8	90												
500	13.52	588	8.86	65.5	88	630	10.1	65.8	90	671	11.3	65.8	92								
540	14.60	596	9.94	64.8	88	635	11.1	65.5	90	674	12.4	65.8	92	712	13.8	65.9	93	749	15.2	65.8	95
580	15.68	605	11.1	63.9	88	643	12.4	64.8	90	679	13.7	65.5	92	716	15.1	65.8	93	752	16.5	65.8	95
620	16.76	616	12.4	62.6	89	652	13.8	64.1	90	687	15.2	64.8	92	721	16.5	65.5	94	756	18.0	65.7	95
660	17.84	628	14.0	61.2	91	663	15.3	62.9	91	696	16.7	64.2	92	729	18.2	64.8	94	761	19.6	65.4	95
700	18.92	641	15.6	60.0	94	675	17.0	61.7	92	707	18.5	63.0	92	738	19.9	64.2	94	770	21.5	64.8	95

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GSF-DS_Version 10.5_October,2015

GSF-DS series

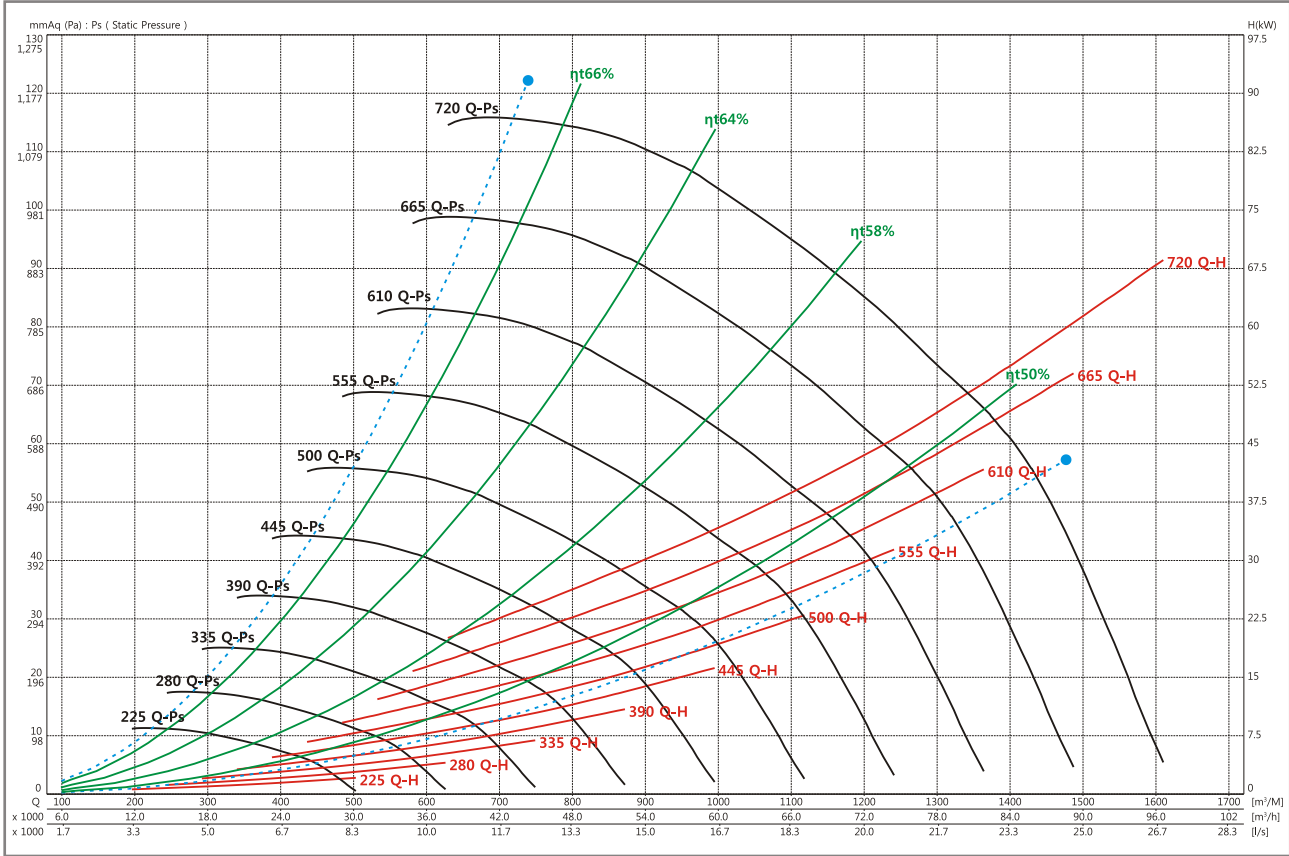
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GSF-5DS

FEG 67

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
300	6.58	225	0.99	64.0	64	299	1.68	65.8	73												
350	7.68	232	1.27	60.3	69	302	2.04	65.7	73												
400	8.77	244	1.66	57.2	75	309	2.49	64.5	73	368	3.43	65.8	78								
450	9.87	258	2.14	54.4	79	319	3.04	62.5	73	373	4.02	65.5	79	425	5.11	65.9	83				
500	10.96	272	2.72	51.6	81	330	3.69	60.2	79	380	4.70	64.3	79	428	5.85	65.6	82	475	7.09	65.9	86
550	12.06	287	3.41	49.3	83	341	4.43	57.9	83	390	5.54	62.5	79	435	6.74	64.8	83	478	8.01	65.7	86
600	13.16	303	4.22	46.9	85	354	5.30	55.9	86	401	6.51	60.6	83	443	7.73	63.6	83	484	9.07	65.1	86
650	14.25	322	5.23	44.7	87	368	6.32	53.8	88	412	7.57	58.8	87	454	8.92	62.0	84	491	10.2	64.2	86
700	15.35	342	6.41	43.0	89	382	7.51	51.7	90	425	8.82	57.1	90	464	10.2	60.3	88	501	11.6	62.8	86
750	16.45	362	7.73	41.6	90	396	8.79	50.1	91	438	10.2	55.4	92	476	11.6	58.9	91	512	13.2	61.4	88
800	17.54	382	9.25	40.0	92	412	10.3	48.5	93	452	11.8	53.7	93	488	13.3	57.3	93	523	14.9	59.9	92
850	18.64	403	11.0	39.0	93	430	12.0	47.0	94	466	13.5	52.0	95	501	15.0	55.8	95	535	16.7	58.5	94

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	
300	6.58																					
350	7.68																					
400	8.77																					
450	9.87																					
500	10.96																					
550	12.06	520	9.36	65.9	88																	
600	13.16	523	10.5	65.7	88	562	12.0	65.9	90	599	13.5	65.8	92									
650	14.25	529	11.7	65.2	88	565	13.2	65.7	90	601	14.8	65.8	92	636	16.5	65.8	94					
700	15.35	536	13.1	64.4	88	571	14.7	65.3	90	605	16.4	65.7	92	638	18.0	65.8	94	671	19.8	65.8	95	
750	16.45	546	14.7	63.3	89	578	16.3	64.5	91	611	18.0	65.3	92	642	19.8	65.6	94	674	21.6	65.8	95	
800	17.54	556	16.5	61.9	90	587	18.1	63.5	91	618	19.9	64.5	92	648	21.7	65.2	94	678	23.5	65.6	95	
850	18.64	567	18.4	60.6	93	598	20.2	62.3	91	627	21.9	63.7	93	656	23.8	64.5	94	684	25.7	65.1	95	

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GSF-DS_Version 10.5_October,2015

GSF-DS series

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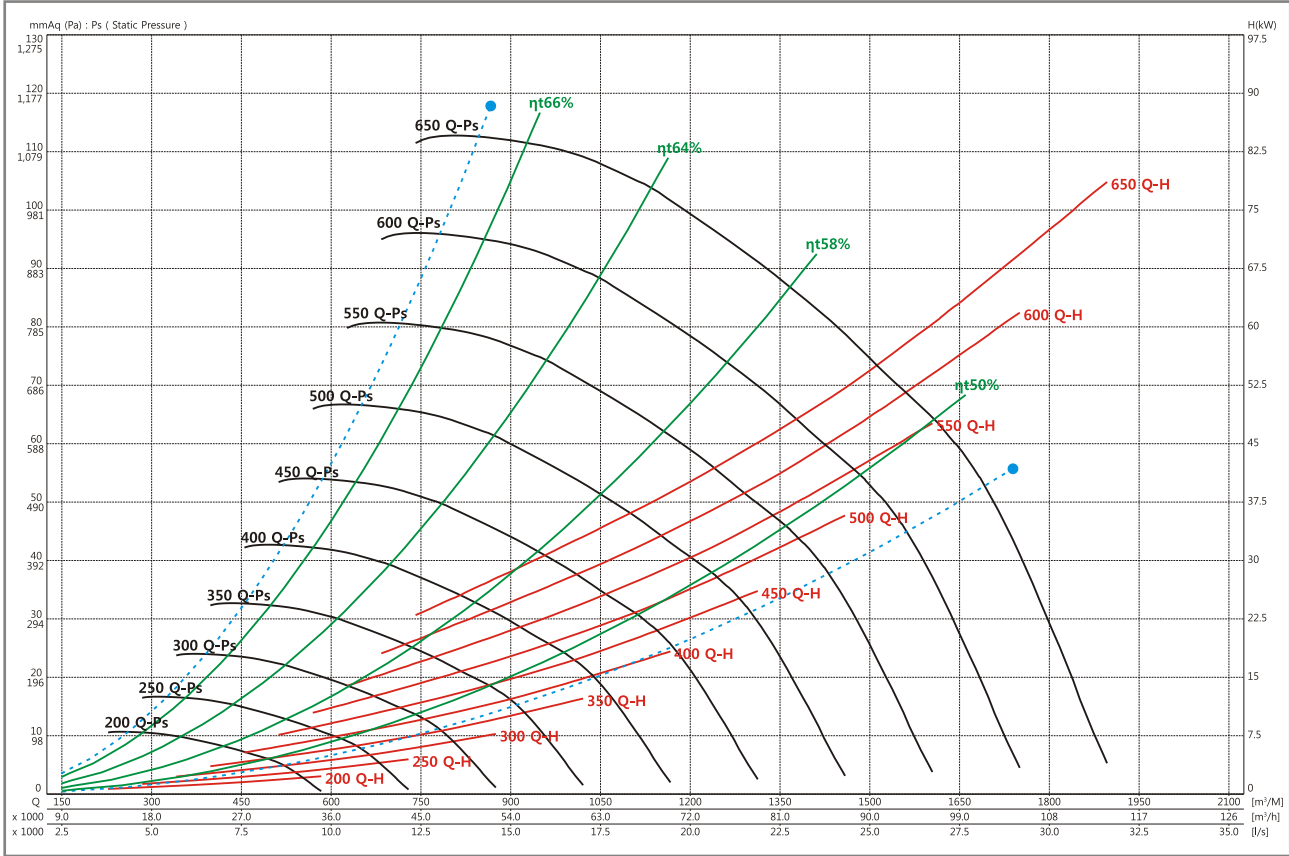
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GSF-5.5DS

FEG 67

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	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
450	8.12	218	1.75	58.7	74	280	2.72	65.2	73	336	3.81	65.8	79									
500	9.02	228	2.18	56.2	77	286	3.20	63.9	73	338	4.34	65.8	79	384	5.50	65.7	83					
550	9.92	238	2.68	53.6	80	294	3.78	62.0	74	342	4.96	65.2	79	389	6.28	65.8	83					
600	10.82	249	3.28	51.3	82	302	4.43	60.0	80	348	5.67	64.2	79	392	7.05	65.6	83	434	8.48	65.9	86	
650	11.72	261	3.97	49.6	83	311	5.18	58.2	83	356	6.51	62.7	79	397	7.92	64.9	83	437	9.43	65.8	86	
700	12.63	273	4.76	47.5	85	321	6.03	56.5	86	364	7.44	61.1	82	403	8.87	64.1	83	441	10.4	65.4	86	
750	13.53	287	5.70	45.6	87	331	6.99	54.7	88	373	8.48	59.6	86	411	10.0	62.7	83	447	11.6	64.6	86	
800	14.43	302	6.78	44.1	88	342	8.10	52.9	89	382	9.63	58.1	89	419	11.2	61.4	86	453	12.9	63.7	86	
850	15.33	317	8.00	42.6	90	353	9.33	51.4	90	391	10.9	56.6	91	427	12.6	60.0	89	461	14.3	62.5	87	
900	16.23	332	9.35	41.1	91	364	10.6	50.1	92	401	12.3	55.2	92	436	14.0	58.7	92	469	15.8	61.2	89	
950	17.14	348	10.9	40.2	92	376	12.1	48.7	93	412	13.9	53.7	94	446	15.7	57.4	93	478	17.6	60.0	92	
1000	18.04	364	12.6	39.2	93	389	13.8	47.3	94	423	15.6	52.4	95	455	17.4	56.2	95	487	19.4	58.9	94	

Air flow (m³/min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 Pa)				100 mmAq (981 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
450	8.12																					
500	9.02																					
550	9.92																					
600	10.82																					
650	11.72	476	11.1	65.8	88																	
700	12.63	478	12.1	65.8	88	514	13.9	65.8	91													
750	13.53	481	13.3	65.5	88	516	15.1	65.8	91	549	17.0	65.8	92									
800	14.43	487	14.7	64.9	89	519	16.5	65.6	91	551	18.4	65.8	92	583	20.4	65.9	94	613	22.4	65.7	96	
850	15.33	493	16.1	64.2	89	524	18.0	65.1	91	555	20.0	65.6	92	585	22.0	65.8	94	614	24.1	65.9	95	
900	16.23	500	17.7	63.2	89	530	19.6	64.4	91	559	21.6	65.2	92	588	23.8	65.6	94	617	25.9	65.8	95	
950	17.14	508	19.5	62.0	90	537	21.5	63.7	91	565	23.5	64.6	93	593	25.7	65.3	94	620	27.9	65.6	95	
1000	18.04	516	21.4	60.9	92	545	23.5	62.6	91	571	25.5	63.9	93	598	27.7	64.7	94	625	30.0	65.3	96	

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GSF-DS_Version 10.5_October,2015

GSF-DS series

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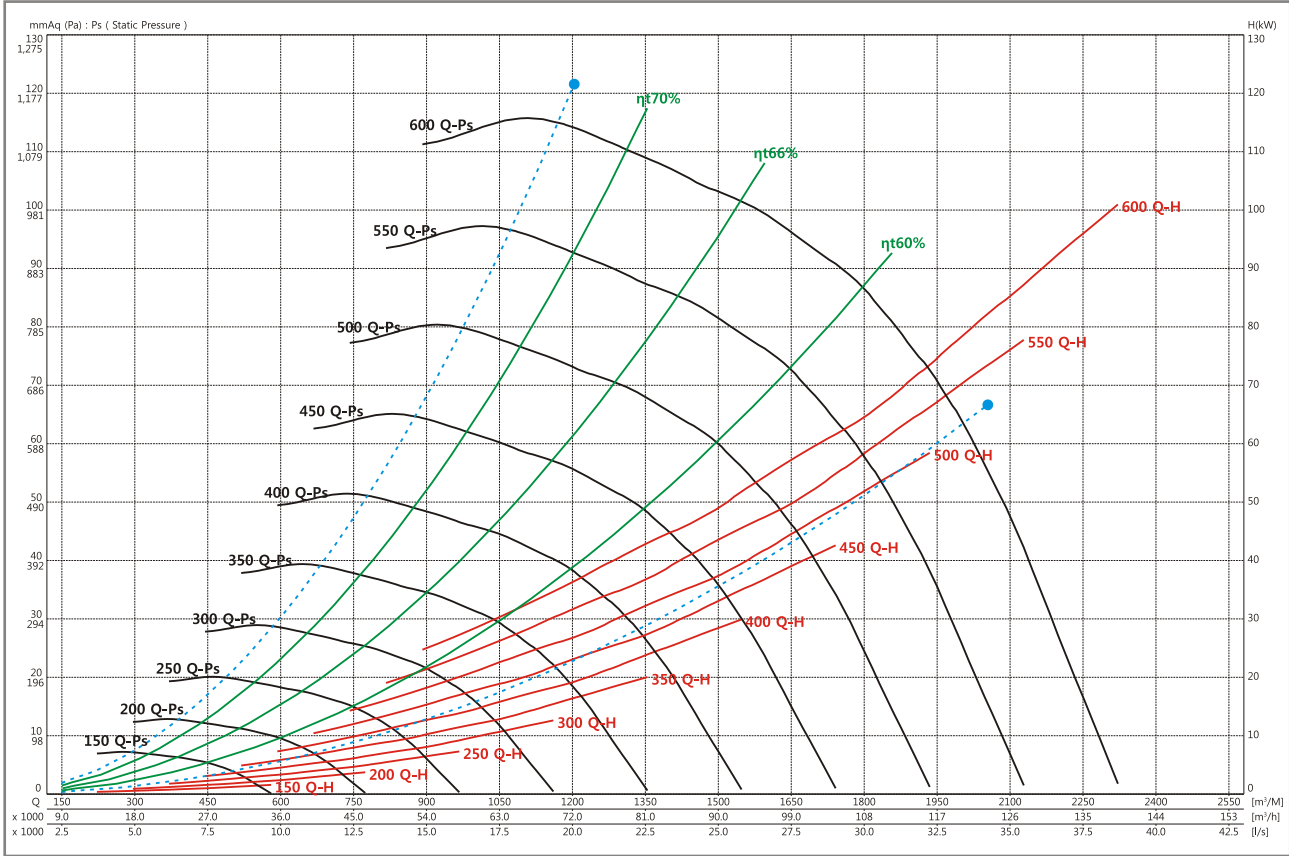
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GSF-6DS

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 (m ³ /min)	Outlet Vel (m/sec)	10 mmAq (98 Pa)				20 mmAq (196 Pa)				30 mmAq (294 Pa)				40 mmAq (392 Pa)				50 mmAq (490 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
540	8.20	194	1.98	62.9	76	254	3.01	70.7	80													
600	9.11	202	2.44	60.6	78	259	3.57	68.9	81	306	4.71	73.0	84									
660	10.02	212	3.05	57.0	81	264	4.19	67.3	82	311	5.52	70.7	85									
720	10.93	223	3.8	53.5	83	269	4.99	64.5	85	315	6.35	69.1	86	355	7.70	72.2	88					
780	11.84	235	4.69	50.4	86	277	5.84	62.4	86	321	7.23	68.1	87	360	8.81	70.2	89	396	10.2	72.9	91	
840	12.75	248	5.71	48.0	88	285	6.75	60.9	87	326	8.32	65.9	89	365	9.95	69.0	90	400	11.6	71.0	92	
900	13.66	261	6.87	45.8	90	294	7.89	58.5	89	332	9.53	63.9	90	371	11.1	68.1	90	405	13.0	69.6	92	
960	14.57	274	8.18	44.1	92	305	9.28	55.8	91	340	10.8	62.2	91	375	12.5	66.3	92	410	14.4	68.8	93	
1020	15.48	288	9.67	42.5	94	316	10.8	53.5	93	347	12.2	61.1	92	381	14.1	64.5	94	416	15.9	67.8	94	
1080	16.39	302	11.3	41.2	95	328	12.5	51.3	94	357	13.8	59.3	94	389	15.8	62.9	95	420	17.7	66.1	95	
1140	17.30	317	13.2	40.0	97	340	14.5	49.4	96	367	15.7	57.2	95	396	17.6	61.7	96	426	19.7	64.5	97	
1200	18.21	331	15.3	39.0	98	353	16.6	47.7	97	378	17.9	55.0	97	404	19.5	60.6	97	434	21.8	63.0	97	

Air flow (m ³ /min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 Pa)				100 mmAq (981 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
540	8.20																					
600	9.11																					
660	10.02																					
720	10.93																					
780	11.84																					
840	12.75	431	13.0	73.1	94																	
900	13.66	437	14.6	71.7	94																	
960	14.57	442	16.3	70.1	95	471	18.1	72.0	96													
1020	15.48	446	18.0	69.1	95	475	20.0	70.5	97	503	21.8	72.2	98									
1080	16.39	452	19.7	68.5	96	480	22.0	69.3	97	508	24.1	70.7	98	533	26.0	72.2	100					
1140	17.30	457	21.6	67.4	97	485	23.9	68.8	98	512	26.3	69.6	99	538	28.5	70.8	100	562	30.5	72.2	101	
1200	18.21	462	24.0	65.7	98	491	26.1	68.0	98	517	28.5	68.9	99	543	31.0	69.7	100	567	33.3	70.8	101	

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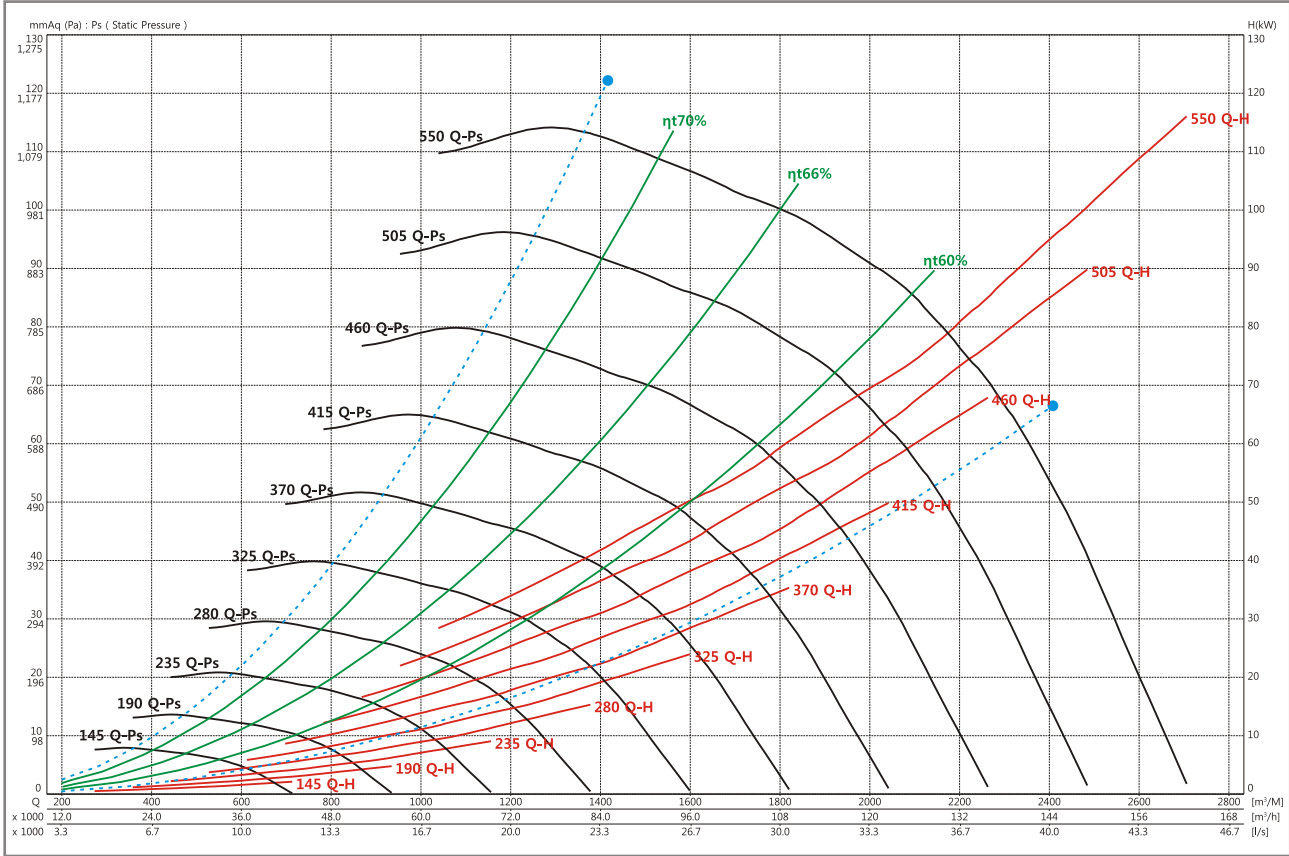
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GSF-6.5DS

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	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
625	8.09	178	2.26	63.2	76	234	3.46	70.9	80													
700	9.07	186	2.82	60.8	78	238	4.15	68.9	81	283	5.49	73.0	85									
775	10.04	196	3.58	57.0	81	244	4.92	67.3	82	287	6.48	70.7	85									
850	11.01	207	4.53	53.3	84	249	5.91	64.3	85	291	7.53	69.0	86	328	9.16	71.9	89					
925	11.98	218	5.65	50.1	87	256	7.00	62.1	87	297	8.63	67.9	87	333	10.5	70.0	90	366	12.3	72.5	92	
1000	12.95	231	6.94	47.6	89	264	8.16	60.5	88	302	10.0	65.5	89	338	11.9	68.8	90	370	13.9	70.7	92	
1075	13.92	244	8.45	45.3	91	274	9.67	57.8	90	308	11.6	63.4	91	343	13.4	67.8	91	375	15.7	69.3	93	
1150	14.89	258	10.2	43.5	93	285	11.5	54.9	92	316	13.2	61.8	92	348	15.3	65.6	93	380	17.4	68.6	93	
1225	15.86	271	12.1	42.0	95	296	13.5	52.5	94	324	15.0	60.5	93	355	17.4	63.8	94	385	19.4	67.3	95	
1300	16.84	285	14.3	40.5	97	308	15.7	50.4	95	334	17.2	58.3	95	362	19.5	62.3	95	390	21.9	65.4	96	
1375	17.81	299	16.7	39.5	98	320	18.2	48.4	97	344	19.8	56.0	96	369	21.8	61.2	96	397	24.4	63.7	97	
1450	18.78	313	19.4	38.5	99	333	21.0	46.8	99	355	22.6	53.9	98	378	24.4	59.7	97	404	27.2	62.3	98	

Air flow (m³/min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 Pa)				100 mmAq (981 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
625	8.09																					
700	9.07																					
775	10.04																					
850	11.01																					
925	11.98																					
1000	12.95	400	15.8	72.8	94																	
1075	13.92	404	17.8	71.1	95	432	19.7	72.9	96													
1150	14.89	409	19.8	69.7	95	436	22.0	71.4	97	462	24.1	72.9	98									
1225	15.86	414	21.9	68.8	96	441	24.4	70.0	97	466	26.7	71.5	98	490	28.9	72.8	100					
1300	16.84	419	24.1	68.0	96	445	26.9	69.0	98	471	29.4	70.2	99	494	31.9	71.5	100	517	34.2	72.7	101	
1375	17.81	424	26.8	66.5	98	451	29.3	68.5	98	475	32.3	69.1	99	499	35	70.2	100	521	37.5	71.5	101	
1450	18.78	430	29.8	64.8	99	456	32.2	67.3	99	480	35	68.7	100	504	38.1	69.2	101	526	41.0	70.2	102	

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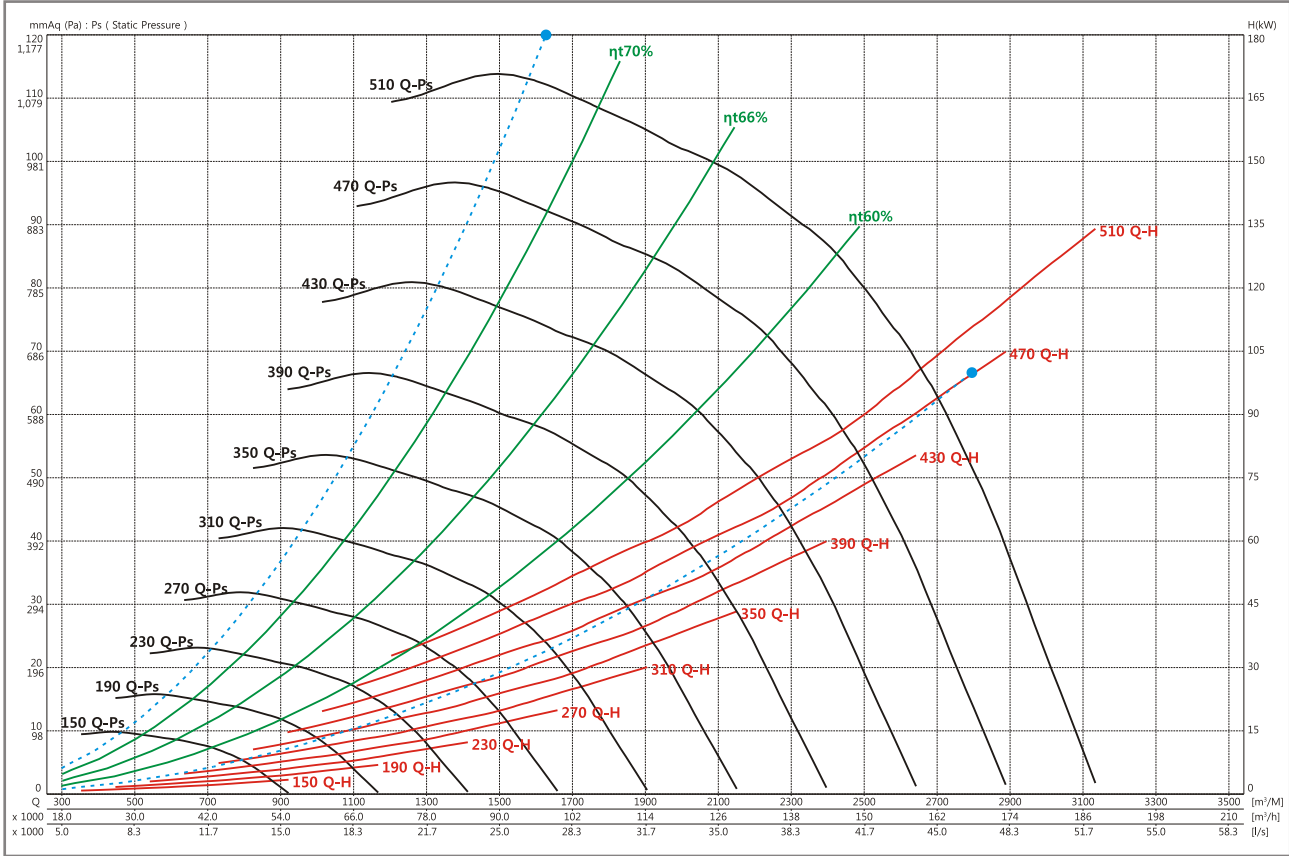
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GSF-7DS

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
600	6.71	158	1.82	68.5	72																
700	7.82	164	2.45	64.2	76	216	3.77	71.9	80												
800	8.94	172	3.18	61.1	78	221	4.70	69.1	81	259	6.08	73.1	84								
900	10.06	182	4.17	56.9	81	226	5.72	67.3	83	266	7.52	70.7	86								
1000	11.18	193	5.44	52.8	85	232	7.06	63.9	85	271	8.92	68.9	87	306	10.9	71.6	89				
1100	12.30	206	7.01	49.3	88	240	8.51	61.7	87	277	10.5	67.3	88	311	12.7	69.5	90	341	14.7	72.1	92
1200	13.41	220	8.85	46.4	90	249	10.2	59.3	89	283	12.4	64.5	91	316	14.6	68.5	91	346	17.1	70.0	93
1300	14.53	234	11.0	44.2	93	260	12.5	56.0	91	291	14.6	62.4	92	321	16.9	66.5	93	351	19.4	68.8	93
1400	15.65	249	13.5	42.4	95	272	15.0	53.2	94	299	16.9	60.9	93	328	19.5	64.2	94	357	21.9	67.7	94
1500	16.77	264	16.3	40.7	97	285	18.0	50.6	96	309	19.7	58.5	95	335	22.4	62.4	96	362	25.1	65.5	97
1600	17.89	279	19.6	39.4	99	298	21.4	48.3	98	320	23.2	55.8	97	343	25.4	61.2	97	369	28.5	63.6	98
1700	19.00	294	23.3	38.2	100	312	25.1	46.4	99	331	26.9	53.5	99	353	29.0	59.2	98	377	32.2	62.1	99

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	
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	94																	
1300	14.53	378	22.0	70.3	95	403	24.4	72.2	97													
1400	15.65	383	24.8	69.0	96	408	27.6	70.3	97	431	30.2	72.0	98									
1500	16.77	389	27.7	68.1	96	413	30.9	69.1	98	436	33.8	70.3	99	458	36.6	71.7	100	480	39.3	72.9	101	
1600	17.89	394	31.3	66.3	98	419	34.2	68.4	98	442	37.6	69.1	100	463	40.8	70.2	101	484	43.8	71.3	102	
1700	19.00	400	35.3	64.5	100	424	38.1	67.0	100	447	41.3	68.5	100	468	45.0	69.1	101	489	48.4	70.0	102	

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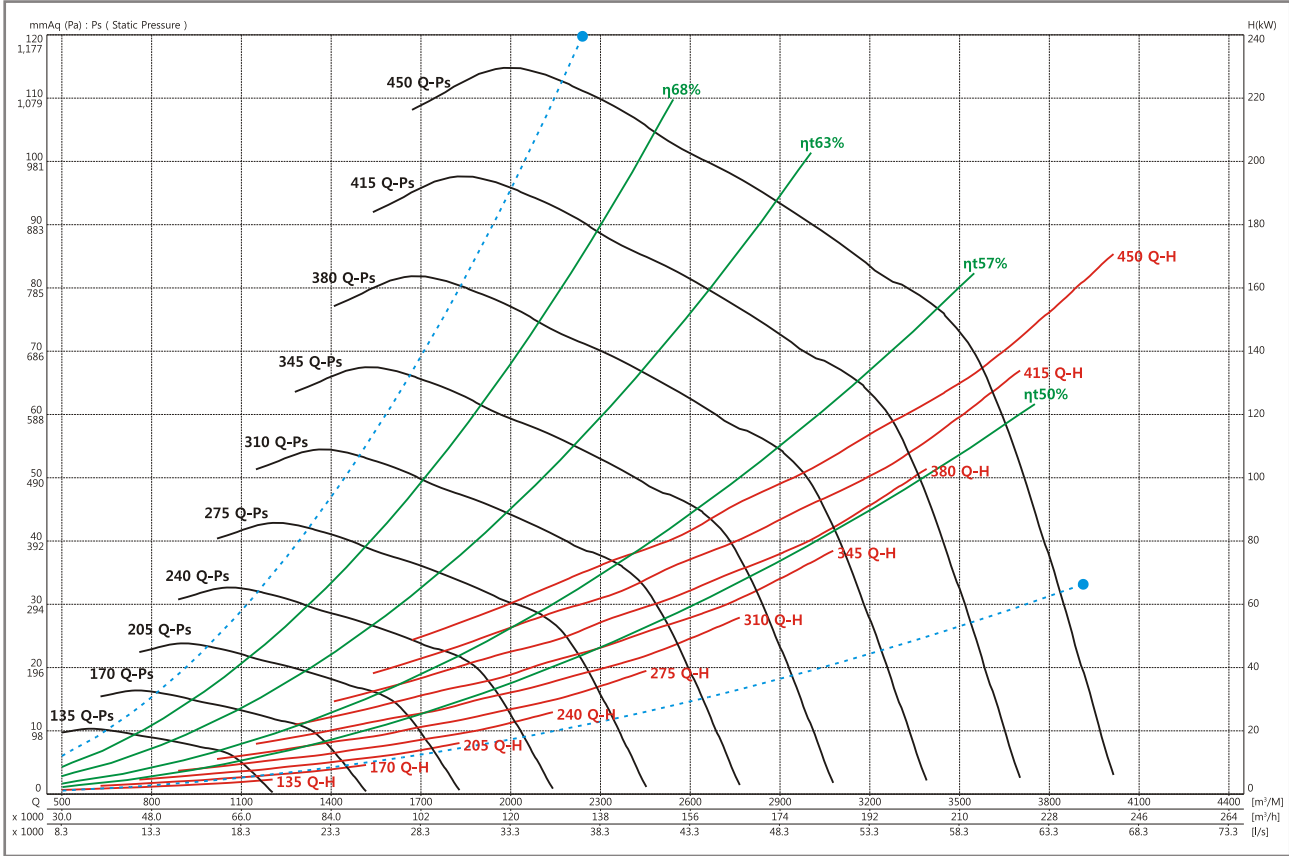
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GSF-8DS

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	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
1000	8.54	150	3.81	62.0	79	193	5.80	68.9	81													
1100	9.39	155	4.66	59.3	81	197	6.71	67.8	83	228	8.78	70.4	85									
1200	10.25	160	5.55	57.9	83	202	7.91	65.4	84	235	10.3	69.1	86									
1300	11.10	167	6.66	55.7	85	206	9.21	63.5	86	239	11.6	68.3	88	268	14.4	70.2	89					
1400	11.95	175	8.07	52.7	86	211	10.6	62.2	88	244	13.2	67.0	89	272	16.1	69.0	90					
1500	12.81	185	9.79	50.3	88	216	12.2	60.3	89	248	15.1	64.7	90	276	17.9	68.4	91	302	21.1	69.7	92	
1600	13.66	195	11.7	48.0	90	222	14.0	58.6	90	253	17.0	63.4	92	281	19.9	67.3	93	305	23.3	68.7	94	
1700	14.52	205	13.9	45.7	91	227	15.8	57.8	92	258	19.0	62.4	93	285	22.4	65.3	94	310	25.6	68.2	95	
1800	15.37	216	16.4	44.1	93	233	17.9	56.5	93	263	21.4	61.0	94	290	25.0	63.9	95	315	28.1	67.1	96	
1900	16.22	226	19.2	42.2	94	241	20.5	54.8	94	269	24.1	59.4	95	295	27.6	62.9	96	319	31.3	65.4	97	
2000	17.08	236	22.2	40.9	95	250	23.5	52.6	96	274	26.7	58.4	96	300	30.4	62.0	97	323	34.5	64.0	98	
2100	17.93	247	25.6	39.7	97	260	26.9	50.7	97	279	29.5	57.7	97	305	33.6	60.6	98	328	37.8	63.1	99	

Air flow (m³/min)	Outlet Vel (m/sec)	60 mmAq (588 Pa)				70 mmAq (686 Pa)				80 mmAq (785 Pa)				90 mmAq (883 Pa)				100 mmAq (981 Pa)				
		rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
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	94																	
1700	14.52	332	29.2	69.1	95	352	32.3	70.4	96													
1800	15.37	337	31.9	68.6	96	358	35.7	69.5	97													
1900	16.22	342	34.7	67.9	97	362	38.8	68.7	98	382	42.8	69.6	99									
2000	17.08	346	38.0	66.8	98	366	41.9	68.3	99	385	46.3	68.9	100	404	50.4	69.7	100					
2100	17.93	350	41.9	65.1	99	371	45.4	67.5	100	390	49.8	68.5	100	408	54.4	69.0	101	426	58.7	69.8	101	

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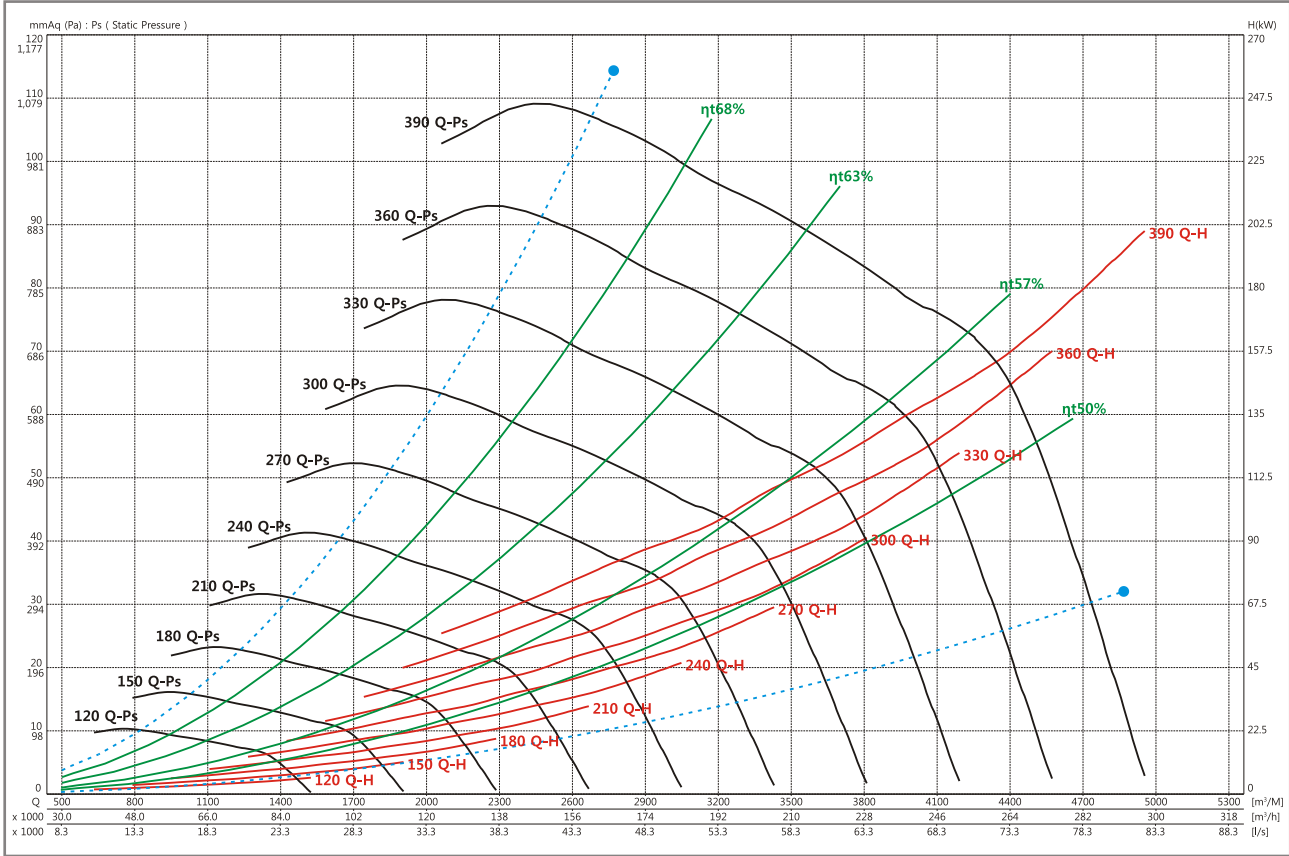


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GSF-DS series

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 (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	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
1250	8.45	143	5.36	64.2	79	171	7.20	69.0	81													
1375	9.29	147	6.36	62.5	81	175	8.32	68.0	83	198	10.5	70.0	84									
1500	10.14	152	7.63	60.4	83	179	9.76	65.9	85	201	12.0	68.8	86									
1625	10.98	157	9.01	58.4	85	183	11.4	63.7	86	205	13.6	67.9	87	225	16.2	69.3	89					
1750	11.83	161	10.5	57.2	87	187	13.0	62.4	88	209	15.6	66.0	89	229	18.1	68.5	90	247	20.9	69.7	91	
1875	12.67	168	12.4	55.1	88	191	15.0	60.6	89	213	17.8	64.0	90	233	20.3	67.5	91	251	23.3	68.7	92	
2000	13.52	176	14.7	52.6	90	196	17.2	58.9	91	217	20.0	62.9	91	237	22.9	65.6	92	255	25.7	68.0	93	
2125	14.36	184	17.4	50.3	92	201	19.5	58.1	92	222	22.5	61.7	93	241	25.8	63.9	93	259	28.5	66.8	94	
2250	15.21	193	20.3	48.0	93	206	22.0	56.8	93	227	25.5	60.0	94	245	28.6	62.9	95	262	32.0	64.9	95	
2375	16.05	202	23.7	46.1	94	212	25.0	55.0	95	232	28.6	58.7	95	249	31.7	61.9	96	266	35.4	63.6	96	
2500	16.90	211	27.5	44.4	96	220	28.7	53.1	96	236	31.6	58.0	96	254	35.3	60.5	97	271	38.9	62.8	97	
2625	17.74	220	31.6	42.8	97	229	32.9	51.2	97	241	35.1	57.0	97	259	39.3	59.1	98	275	42.7	61.9	98	

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	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
1250	8.45																					
1375	9.29																					
1500	10.14																					
1625	10.98																					
1750	11.83																					
1875	12.67	267	26.2	69.8	93																	
2000	13.52	271	29.0	68.9	94	287	32.1	70.0	94													
2125	14.36	275	31.7	68.4	95	290	35.2	69.0	96	305	38.5	70.0	96									
2250	15.21	279	34.9	67.5	96	294	38.4	68.5	96	308	42.0	69.1	97	322	45.4	69.9	98					
2375	16.05	283	38.6	65.8	97	298	41.9	67.8	97	312	45.6	68.6	98	325	49.5	69.1	98	338	53.1	69.8	99	
2500	16.90	286	42.7	64.2	98	302	45.9	66.5	98	316	49.4	67.9	99	329	53.4	68.6	99	342	57.5	69.1	100	
2625	17.74	291	46.8	63.4	99	305	50.6	64.8	99	320	53.8	66.9	100	333	57.7	68.0	100	345	61.8	68.6	101	

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GSF-DS_Version 10.5_October,2015

GSF-DS series

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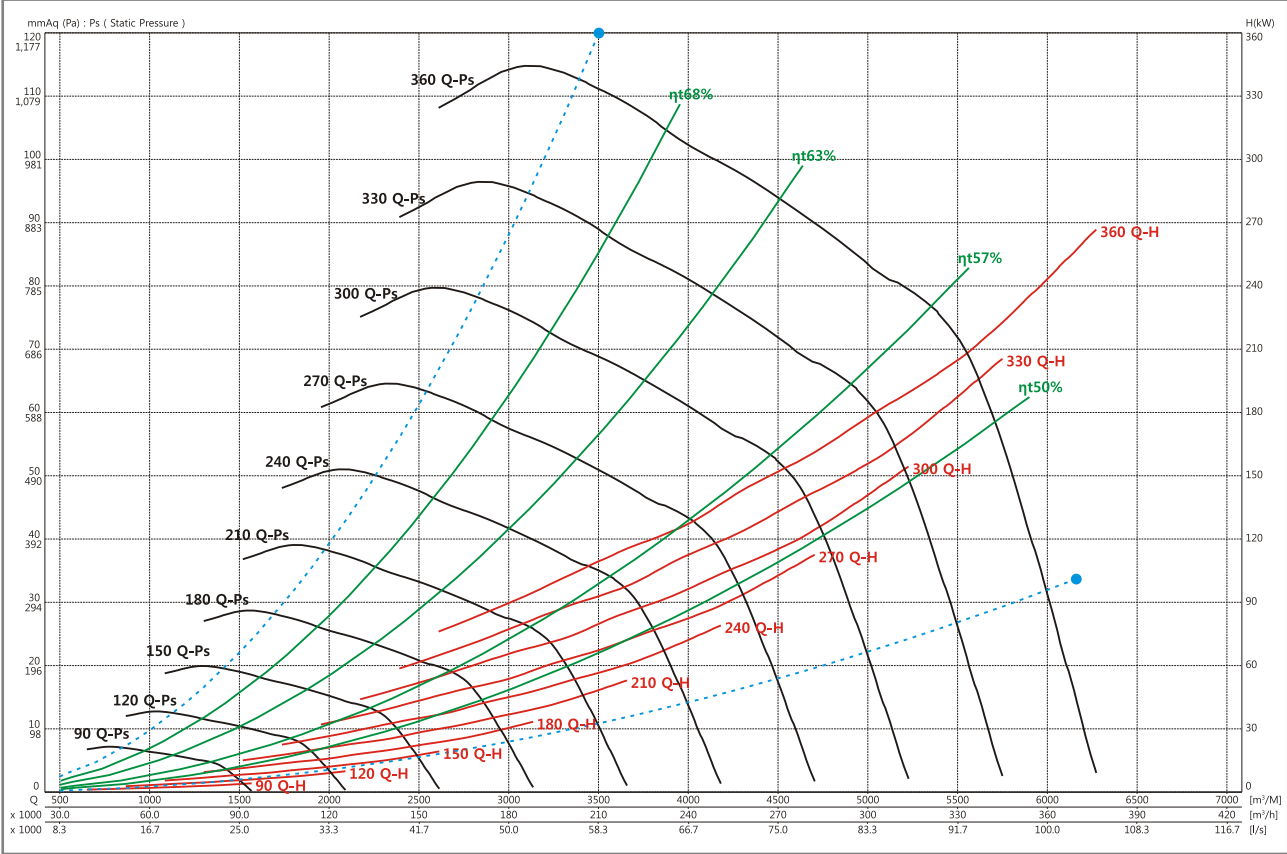
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GSF-10DS

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
1500	8.20	128	6.25	65.0	79	153	8.48	69.5	81												
1650	9.02	131	7.45	63.0	81	156	9.84	68.4	83	175	12.1	70.4	84								
1800	9.84	135	8.83	61.1	83	160	11.4	66.8	84	180	14.2	69.1	86								
1950	10.66	140	10.5	58.9	85	163	13.3	64.2	86	183	16.0	68.3	87	202	19.2	69.7	88				
2100	11.48	143	12.2	57.8	87	167	15.3	62.9	88	187	18.2	67.0	89	205	21.5	68.7	90	221	24.7	70.2	91
2250	12.30	148	14.2	56.0	88	171	17.5	61.6	89	190	20.9	64.7	90	208	23.9	68.0	91	224	27.5	69.1	92
2400	13.11	155	16.8	53.7	90	175	20.0	59.6	90	194	23.5	63.3	91	212	26.7	66.6	92	227	30.3	68.4	93
2550	13.93	162	19.8	51.5	91	179	22.7	58.4	92	198	26.3	62.3	93	215	30.2	64.5	93	231	33.5	67.5	94
2700	14.75	169	23.2	48.7	93	183	25.5	57.5	93	202	29.5	60.9	94	218	33.5	63.4	94	234	37.3	65.8	95
2850	15.57	177	27.0	47.1	94	188	28.8	56.0	94	206	33.1	59.2	95	222	37.0	62.5	96	238	41.5	64.2	96
3000	16.39	185	31.3	45.5	95	194	32.9	54.3	96	210	36.8	58.3	96	226	41.0	61.3	97	241	45.5	63.3	97
3150	17.21	193	36.1	44.0	97	201	37.5	52.2	97	214	40.6	57.6	97	230	45.5	59.8	98	245	49.9	62.5	98

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
1500	8.20																				
1650	9.02																				
1800	9.84																				
1950	10.66																				
2100	11.48																				
2250	12.30	239	30.7	70.4	93																
2400	13.11	242	34.2	69.3	94	255	37.3	70.4	94												
2550	13.93	245	37.5	68.6	95	259	41.5	69.5	95												
2700	14.75	249	41.0	67.9	96	262	45.3	68.7	96	276	49.7	69.5	97								
2850	15.57	253	45.1	66.8	97	266	49.4	68.2	97	279	54.0	68.8	98	291	58.3	69.5	98	302	62.3	70.4	99
3000	16.39	256	49.9	65.0	98	270	53.7	67.3	98	282	58.3	68.3	99	294	63.2	68.8	99	306	67.8	69.5	100
3150	17.21	259	54.8	63.8	99	273	59.0	65.7	99	286	63.1	67.6	100	297	67.9	68.4	100	309	73.3	68.8	101

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GSF-DS series

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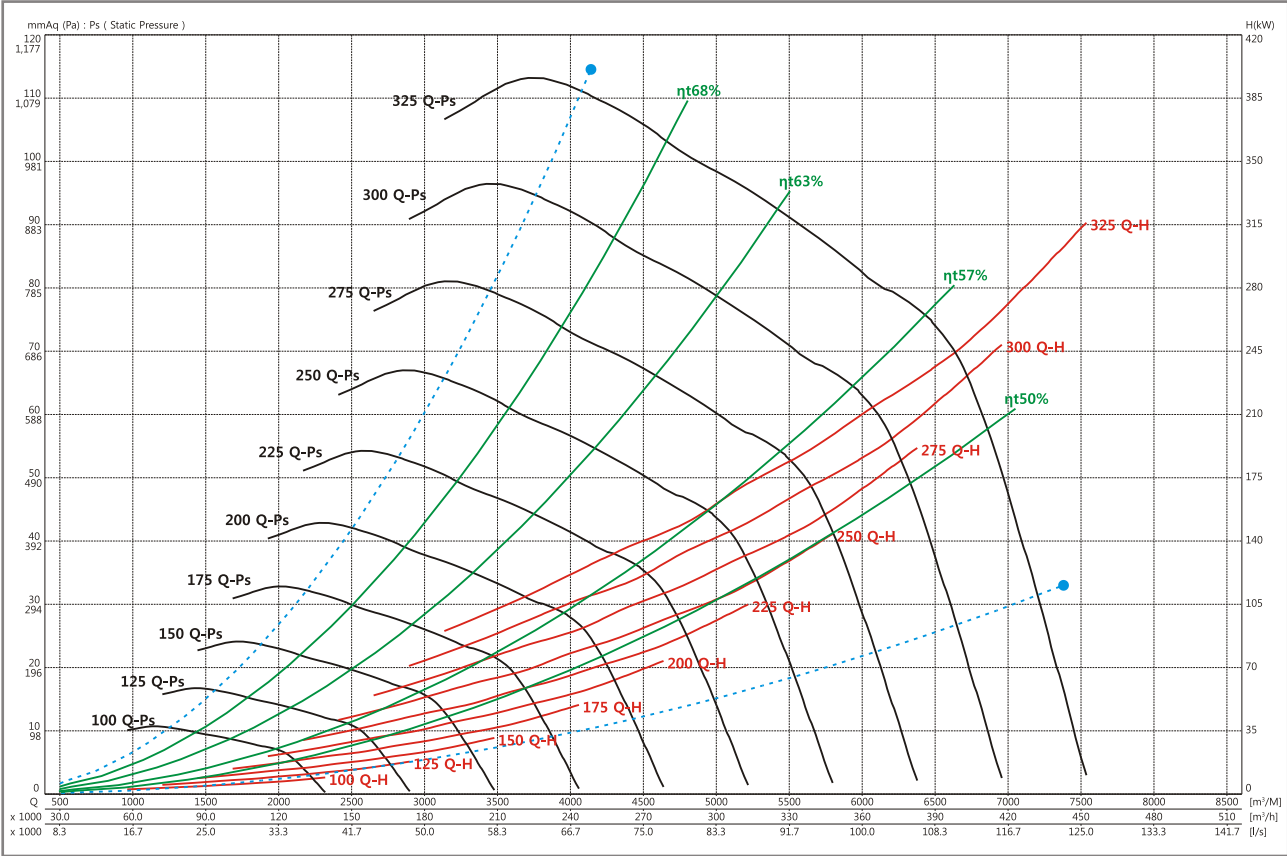
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GSF-11DS

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	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
1900	8.59	117	8.25	63.8	80	140	11.0	68.8	82													
2100	9.50	121	9.92	62.1	83	144	12.9	67.7	84	162	16.2	69.7	86									
2300	10.40	125	12.0	59.6	85	147	15.4	65.0	86	165	18.6	68.6	87	182	22.2	70.2	88					
2500	11.31	129	14.2	58.1	87	150	17.9	63.2	88	169	21.3	67.4	89	185	25.4	68.9	90	199	28.8	70.4	91	
2700	12.21	134	16.9	56.4	88	154	20.8	61.7	89	172	24.8	64.9	90	189	28.5	68.1	91	203	32.9	69.2	92	
2900	13.12	140	20.2	53.8	90	159	24.2	59.7	91	176	28.4	63.4	92	192	32.3	66.6	92	207	36.6	68.5	93	
3100	14.02	148	24.3	51.0	92	163	27.7	58.3	92	180	32.1	62.2	93	195	36.9	64.4	94	210	40.8	67.5	94	
3300	14.93	155	28.9	48.7	93	167	31.5	57.3	94	184	36.5	60.6	94	199	41.3	63.2	95	213	46.0	65.5	96	
3500	15.83	163	34.1	46.7	95	172	36.2	55.6	95	188	41.5	58.9	96	203	46.1	62.2	96	217	51.6	63.9	97	
3700	16.73	171	40.0	44.6	96	179	41.8	53.5	96	192	46.2	58.1	97	207	51.7	60.8	97	221	57.1	63.0	98	
3900	17.64	179	46.6	43.0	98	186	48.4	51.2	98	196	51.7	57.1	98	211	57.9	59.2	99	224	63.0	62.0	99	
4100	18.54	187	53.7	41.8	99	194	55.6	49.5	99	202	58.2	55.6	99	215	64.1	58.3	100	229	70.0	60.6	100	

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	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
1900	8.59																					
2100	9.50																					
2300	10.40																					
2500	11.31																					
2700	12.21																					
2900	13.12	220	41.3	69.4	94																	
3100	14.02	223	45.7	68.6	95	236	50.6	69.4	96	247	54.9	70.4	96									
3300	14.93	227	50.5	67.8	96	239	55.8	68.6	97	251	60.9	69.4	98	262	65.8	70.3	98					
3500	15.83	230	56.2	66.3	97	243	61.2	67.9	98	254	66.8	68.6	99	265	72.2	69.3	99	276	77.6	70.1	100	
3700	16.73	234	62.8	64.5	98	246	67.3	66.8	99	258	72.7	68.0	100	268	78.7	68.6	100	279	84.6	69.2	101	
3900	17.64	237	69.1	63.4	100	249	74.8	65.0	100	261	79.6	67.0	100	272	85.4	68.1	101	282	91.7	68.6	101	
4100	18.54	241	75.8	62.6	101	253	82.2	63.8	101	264	87.9	65.4	101	276	92.9	67.2	102	286	99.2	68.1	102	

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GSF-DS series

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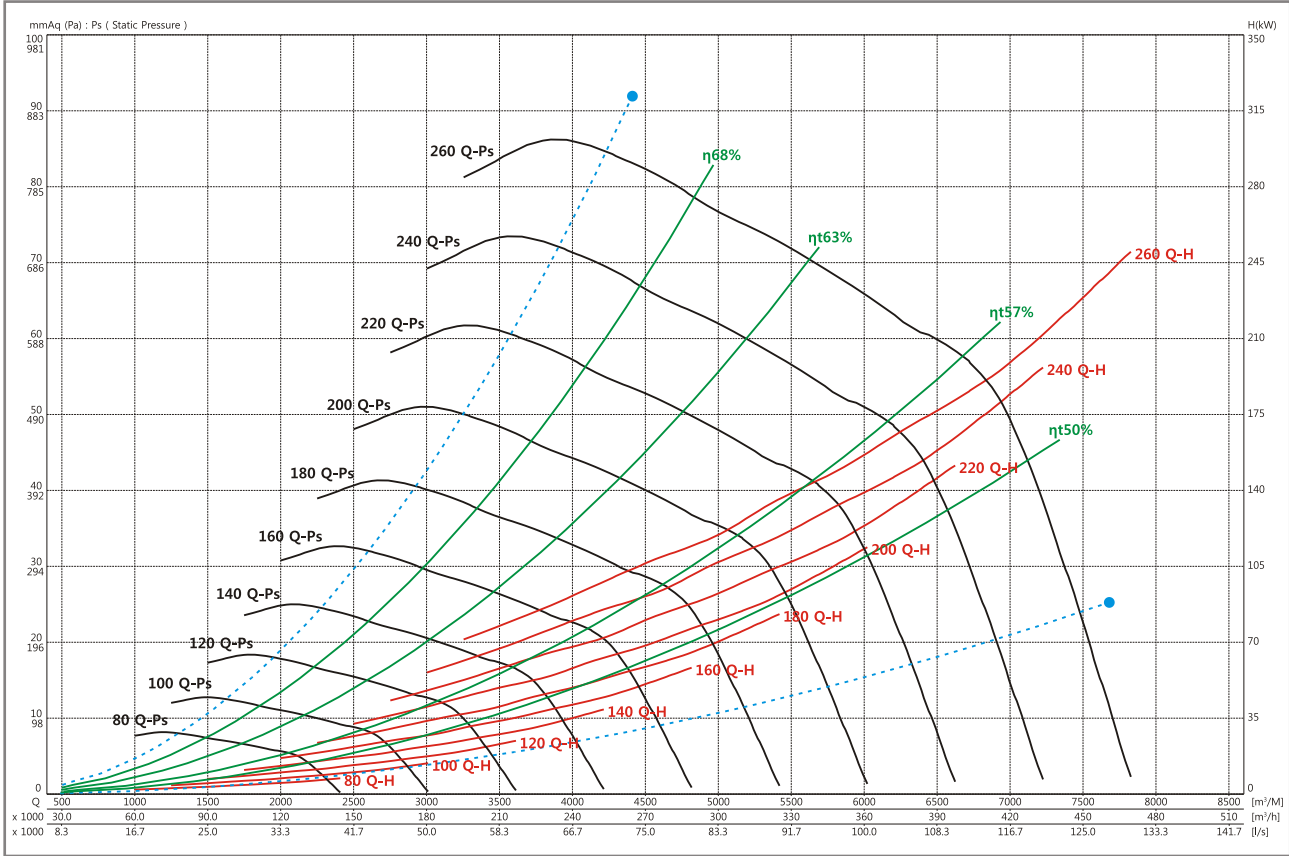
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GSF-12DS

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 (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	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
2250	8.54	108	9.75	64.0	81	128	13.0	68.9	82													
2500	9.49	111	11.8	62.1	83	132	15.4	67.7	85	149	19.3	69.6	86									
2750	10.44	115	14.5	59.5	85	135	18.5	64.8	86	152	22.3	68.5	88	167	26.7	70.1	89					
3000	11.38	119	17.3	58.0	87	138	21.7	63.0	88	155	25.8	67.2	89	170	30.6	68.8	90	184	35.1	70.4	91	
3250	12.33	124	20.7	56.0	89	142	25.3	61.4	90	158	30.2	64.6	91	174	34.6	67.9	92	187	39.8	69.0	92	
3500	13.28	130	25.0	53.2	91	146	29.7	59.3	92	162	34.6	63.1	92	177	39.5	66.2	93	190	44.5	68.3	94	
3750	14.23	137	30.2	50.4	93	150	34.0	58.2	93	166	39.4	61.8	94	180	45.3	64.1	94	194	50.1	67.1	95	
4000	15.18	144	36.2	48.1	94	154	39.2	56.8	95	170	45.2	60.0	95	183	50.8	62.9	96	197	56.9	64.9	96	
4250	16.13	152	43.0	45.7	96	160	45.3	54.9	96	174	51.4	58.5	96	187	57.1	61.7	97	200	63.7	63.6	98	
4500	17.08	160	50.7	44.1	97	167	52.9	52.6	97	177	57.6	57.8	98	191	64.5	60.1	98	204	70.7	62.6	99	
4750	18.03	167	59.2	42.4	99	174	61.3	50.4	99	182	65.0	56.4	99	195	72.4	58.7	99	207	78.7	61.4	100	
5000	18.97	175	68.5	41.0	100	181	70.7	48.3	100	188	73.7	54.7	100	199	80.1	58.1	101	211	87.8	59.9	101	

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	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
2250	8.54																					
2500	9.49																					
2750	10.44																					
3000	11.38																					
3250	12.33	199	44.6	70.4	93																	
3500	13.28	202	50.2	69.1	95	214	55.4	70.3	95													
3750	14.23	205	55.7	68.4	96	217	61.8	69.1	96	228	67.5	70.1	97									
4000	15.18	209	61.9	67.5	97	220	68.1	68.5	98	231	74.7	69.1	98	241	80.8	69.9	99					
4250	16.13	212	69.6	65.6	98	224	75.1	67.6	99	234	81.8	68.5	99	244	88.9	69.0	100	254	95.3	69.7	100	
4500	17.08	215	77.8	64.0	99	227	83.6	66.1	100	238	89.8	67.7	100	247	96.8	68.5	101	257	104.2	68.9	101	
4750	18.03	219	85.8	63.0	100	230	93.2	64.3	101	241	99.1	66.3	101	251	105.5	67.7	102	260	112.6	68.4	102	
5000	18.97	223	94.4	62.1	101	233	102.3	63.4	102	244	109.8	64.6	102	254	115.9	66.5	103					

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GSF-DS series

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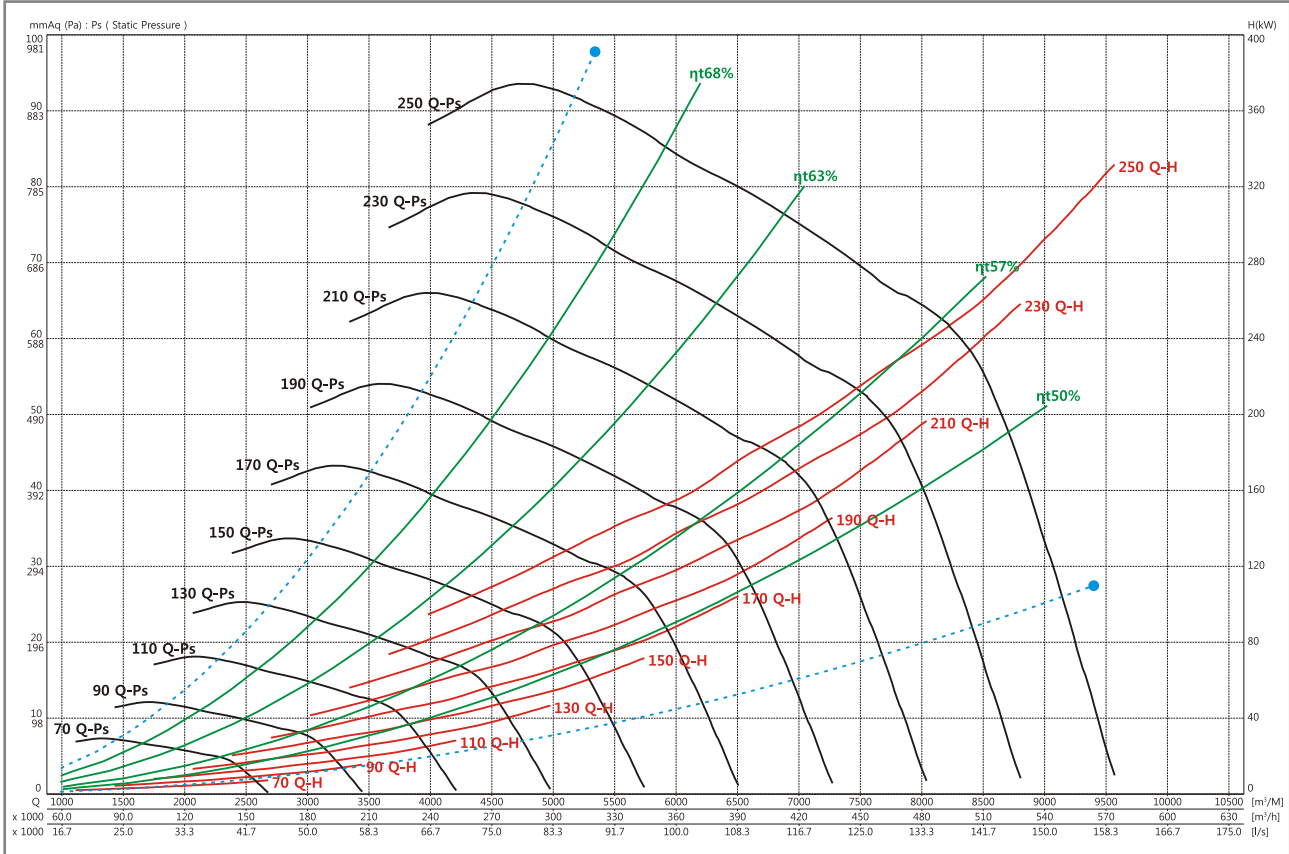
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GSF-13DS

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
2400	7.77	97	9.44	66.8	79	116	13.0	70.3	81												
2700	8.74	100	11.8	63.5	81	119	15.7	68.6	83												
3000	9.71	104	14.6	61.6	84	123	18.8	67.3	85	138	23.4	69.3	86								
3300	10.68	108	17.9	59.0	86	126	22.7	64.3	87	141	27.0	68.2	88	155	32.3	69.7	89				
3600	11.66	111	21.2	57.5	88	129	26.5	62.7	89	145	31.7	66.6	90	158	37.0	68.6	91	171	42.8	69.9	92
3900	12.63	116	25.5	55.2	90	133	31.2	61.0	91	148	37.2	64.1	91	162	42.3	67.7	92	174	48.6	68.8	93
4200	13.60	122	31.1	51.8	92	137	36.7	58.9	92	151	42.3	62.8	93	164	48.3	65.2	94	177	54.3	68.0	94
4500	14.57	129	37.7	49.4	94	140	41.9	57.8	94	155	48.7	61.4	95	168	55.6	63.7	95	180	61.3	66.4	96
4800	15.54	136	45.2	47.0	95	144	48.2	55.9	95	158	55.5	59.3	96	171	62.2	62.6	96	183	69.8	64.3	97
5100	16.51	143	53.7	44.7	97	150	56.3	53.9	97	162	63.0	58.3	97	175	70.4	61.2	98	186	77.7	63.1	98
5400	17.48	151	63.6	44.0	98	157	66.1	52.0	98	166	71.1	57.4	99	178	79.1	59.4	99	190	86.8	62.2	100
5700	18.45	158	74.2	42.2	100	163	76.3	49.0	100	171	80.7	56.0	100	182	88.7	58.4	100	193	96.5	60.6	101

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	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL	rpm	BkW	ηt	PWL
2400	7.77																				
2700	8.74																				
3000	9.71																				
3300	10.68																				
3600	11.66																				
3900	12.63	185	54.3	69.9	94																
4200	13.60	188	61.1	68.8	95	199	67.6	69.8	96												
4500	14.57	191	67.7	68.1	96	201	74.8	68.8	97	212	82.4	69.7	98								
4800	15.54	194	75.5	66.8	98	205	83.1	68.2	98	214	90.5	68.8	99	224	98.2	69.6	99	232	104.3	70.4	100
5100	16.51	197	85.3	64.8	99	208	91.7	67.2	99	218	99.8	68.3	100	227	108.2	68.8	100	236	116.0	69.5	101
5400	17.48	200	94.7	63.5	100	211	102.8	65.3	100	221	109.5	67.3	101	230	117.7	68.2	101	238	126.0	68.6	102
5700	18.45	204	105.0	62.7	101	214	114.0	63.9	102	224	121.7	65.6	102	233	128.5	67.3	102	242	137.6	68.1	103

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

GSF-DS series

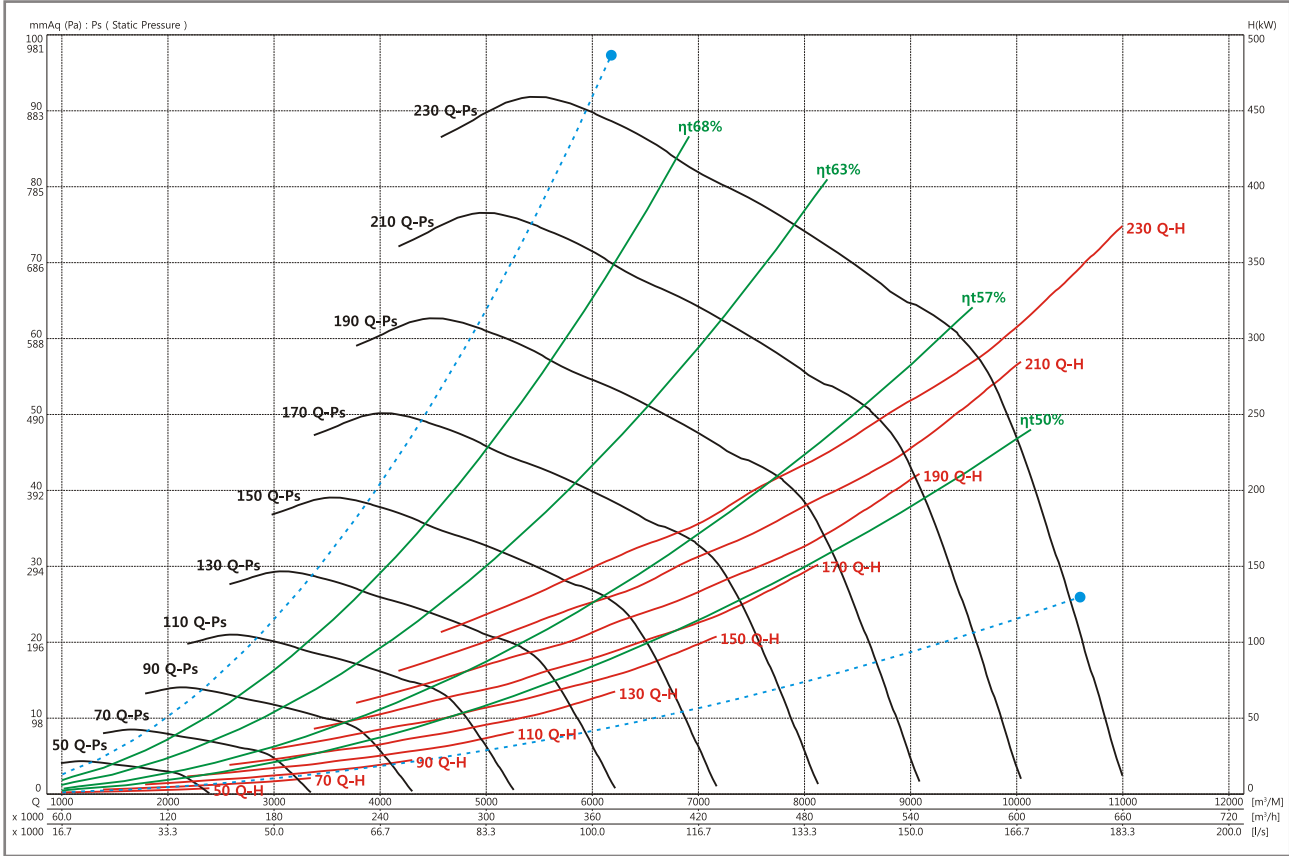
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GSF-14DS

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	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
2600	7.25	89	9.84	68.2	78																	
3000	8.36	92	12.8	64.4	81	110	17.3	69.2	82													
3400	9.48	96	16.2	62.3	83	113	20.8	67.6	85	128	26.3	69.7	86									
3800	10.59	100	20.4	59.2	86	116	25.7	64.3	87	131	31.1	68.4	88	144	37.2	69.8	89					
4200	11.71	104	25.1	57.6	88	120	31.1	62.6	89	134	36.9	66.2	90	147	43.3	68.6	91	159	50.1	69.8	92	
4600	12.82	109	31.0	54.6	90	124	37.4	60.3	91	138	44.4	63.8	92	151	50.5	67.3	93	162	57.7	68.6	94	
5000	13.94	116	38.9	51.3	93	128	44.6	58.4	93	141	51.3	62.2	94	154	59.4	64.6	95	165	65.4	67.5	95	
5400	15.06	123	48.0	47.9	95	132	52.3	57.1	95	145	60.3	60.1	96	157	68.1	63.0	96	168	75.9	65.0	97	
5800	16.17	131	59.0	46.1	97	138	62.4	55.1	97	149	70.0	58.4	97	161	78.2	61.7	98	172	87.3	63.5	98	
6200	17.29	139	71.7	44.4	98	144	74.2	51.6	98	153	80.3	57.5	99	165	90.1	59.7	99	176	98.9	62.5	100	
6600	18.40	146	85.3	41.5	100	152	88.6	50.1	100	158	92.7	55.7	100	169	102.6	58.4	101	179	111.5	60.7	101	
7000	19.52	154	101.2	40.3	101	159	104.3	47.3	101	165	108.4	54.0	102	173	115.8	57.6	102	184	127.4	59.2	102	

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	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	rpm	BkW	η _t	PWL	
2600	7.25																					
3000	8.36																					
3400	9.48																					
3800	10.59																					
4200	11.71																					
4600	12.82	173	65.1	69.7	94																	
5000	13.94	176	74.0	68.6	96	185	81.1	69.4	97													
5400	15.06	179	83.0	67.6	97	189	92.1	68.6	98	198	100.6	69.3	99	207	108.7	70.1	99					
5800	16.17	182	95.1	65.4	99	192	102.6	67.6	99	201	111.9	68.5	100	210	121.9	69.0	100	218	130.3	69.7	101	
6200	17.29	186	108.7	63.8	100	195	116.4	65.5	100	205	125.0	67.6	101	213	134.3	68.4	101	221	144.6	68.8	102	
6600	18.40	189	121.0	62.7	101	199	132.2	63.9	102	208	140.8	65.7	102	217	149.4	67.4	103	224	158.3	68.1	103	
7000	19.52	193	136.1	61.4	103	202	146.3	62.9	103	211	157.6	63.9	103	220	167.3	65.5	104	228	175.6	67.1	104	

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



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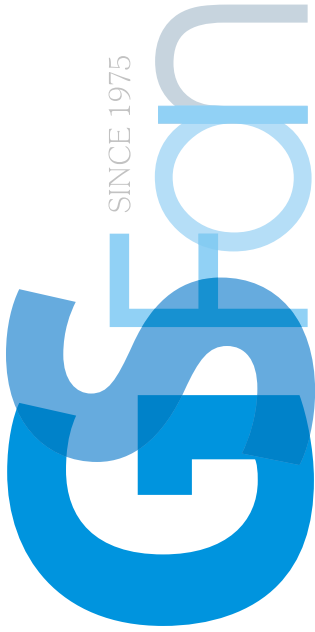
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