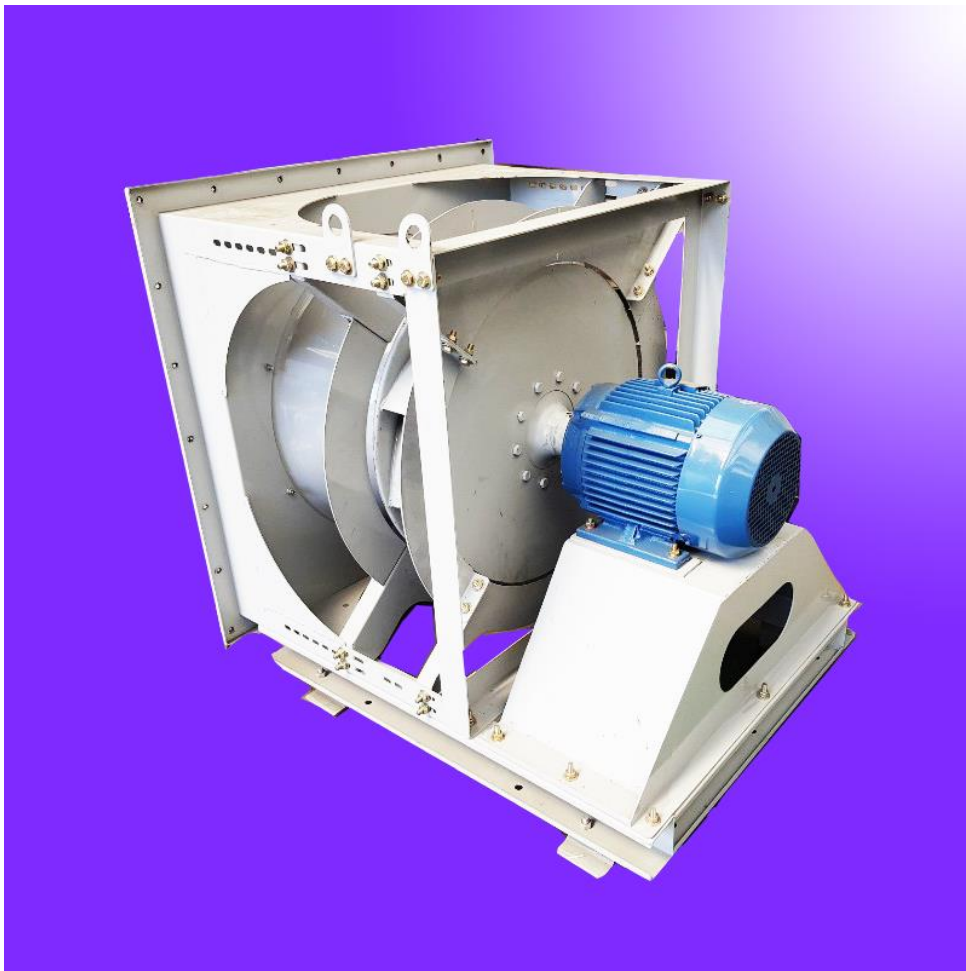


Plenum Fan

PLF Series



동해기연(주)

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FAX : 032-811-0038

Homepage : www.fansys.com

E-MAIL : strong@fansys.com

동해기연㈜는 근 36년 동안 아파트 건물 냉난방 및 플랜트 건설 분야를 포함한 다양한 프로젝트를 수행하였으며, 각 프로젝트를 수행하면서 다양한 경험들을 습득한 우수한 기술자들을 보유하고 있습니다. 또한 다양한 고객들이 요구하는 새로운 제품과 기술을 위한 연구 개발에 지속적인 투자를 하고 있습니다.

Dong Hae Engineering Co., Ltd. has carried out various projects for about 36 years (established in 1984), including heating and cooling of apartment buildings and plant construction, and has excellent engineers who have gained various experiences while carrying out each project.

Dong Hae Engineering Co., Ltd. continues to invest in research and development for new products and technologies that a wide range of customers demand.

날개 형상 (Impeller Shape)

- 날개 길의 길이가 길고 폭이 좁다.
- 날개의 깃면이 회전방향의 뒤쪽으로 곡선을 이루고 있다. (익형단면)
- 날개 매수가 타기종보다 적다.
- The Length of blades is long and narrow.
- The side of blades curves in the rear of rotation direction. (cross section of Airfoil)
- Fewer blades than other product.

제품 특징 (Product Features)

- 동일 풍량과 정압 지점에서 가장 효율이 높다.
- 익형단면을 통해 유동장이 원활하여 고속 회전시에도 저소음이다.
- 풍량 변동에 의한 풍압의 변화가 약간 있으나, 동력의 변화는 없다.
- Suction Vane Damper의 설치로서 원활한 풍량조정이 가능하며 효율적인 에너지관리가 용이하다.
- Compared with other centrifugal fans, efficiency is very high on the same airflow and pressure condition.
- Providing a smooth flow at high speed at the time of low noise, through the cross section of airfoil.
- The change of wind pressure by the airflow fluctuation is small with no change in shaft power.
- It adjusts easily air and pressure as installation of suction vane damper and manages easily efficient of energy.

AMCA Seal 정보 (AMCA Seal Information)



Dong Hae Engineering Co., Ltd. certifies that the PLF Series shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. Performance certified is for installation type A - Free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.

Values shown are for inlet Lw_{iA} sound power levels for Installation Type A: free inlet, free outlet.

The sound power level ratings shown are in decibels, referred to 10-12 watts, calculated per AMCA International Standard 301. Power rating kW does not include transmission losses.

- 동해기연(주)의 원심형 뱀은 인증에 근거하여 AMCA SEAL이 부착됩니다. 표시된 등급은 AMCA 발행물 211과 AMCA 발행물 311과 AMCA 등급인증 프로그램(AMCA CRP) 필요조건에 따라 실험 및 절차가 진행되는 것을 근거로 한다.
- 표시된 성능은 흡입구, 덕트 토출구로 설치된 B타입입니다. 성능 비율은 부속품 영향을 받는 것을 포함하지 않는다. 동력 비율 kW는 운전손실을 포함하지 않는다.

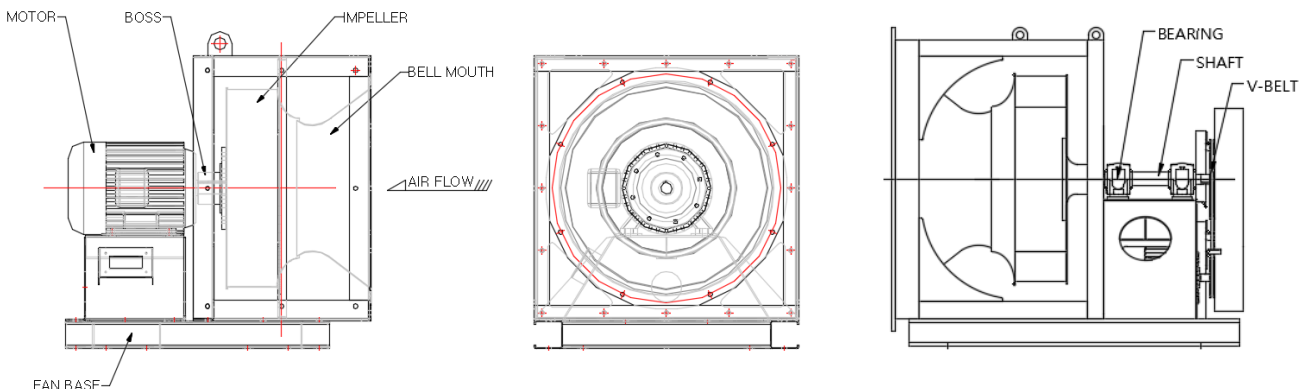
The Air Movement and Control Association (AMCA) International, Inc. is a not-for-profit international association of the world's manufacturers of related air system equipment-primarily, but not limited to: fans, louvers, dampers, air curtains, airflow measurement stations, acoustic attenuators, and other air system components for the industrial, commercial and residential markets. The association's mission is to promote the health and growth of the air movement and control industry consistent with the interest of the public. AMCA International is a valuable resource and a strong means of self regulation for our industry. People who buy and specify fans, dampers, and louvers need to be aware of the value of the AMCA International seal.

국제 공기 유동 및 제어 협회(AMCA)는 세계 공조시스템 설비 제조업체의비영리 협회입니다. 또한, 협회는 산업용, 상업용, 주거용 시장의 뱀, 루버, 댐퍼, 에어커튼, 공기 측정 장소, 음향 감쇠기 등의 다른공조 시스템 구성요소도포함합니다. 협회의 목표는 공기 유동 및 제어 산업의 번영과공공의 이익과 성장을 촉진하는 것입니다. AMCA는공조산업을 위해 자체 규정을 제시합니다. 뱀, 댐퍼, 루버 구매자는 AMCA 국제 인증의 의미를 인식하고있을 필요가 있습니다.

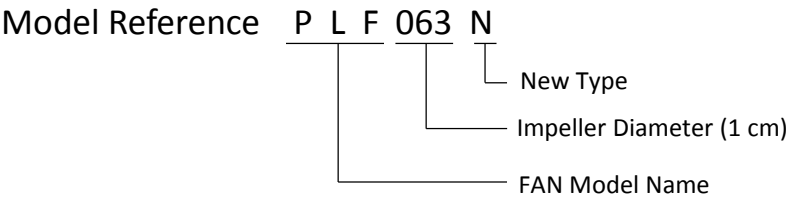
주요 용도 (Main Application)

- 반도체 장비, hume hood 배기용
- Clean room booth 급. 배기용
- A.H.U 등 공조장비
- 건조장치 및 원자력발전소, 국소 환기용
- 지하철 유막 급.배기용, Air washer용
- 기타 일반산업용 강제 송풍장치
- Semiconductor equipment, Hume hood exhaust fan
- Clean room booth supply. exhaust fan
- A.H.U and such air conditioning equipment
- The drying equipment and The nuclear power plant, The local ventilation
- Subway film of oil supply. exhaust fan, Air washer fan
- The diverse general industrial compulsion blower equipment

FAN 구조 (Fan Structure)

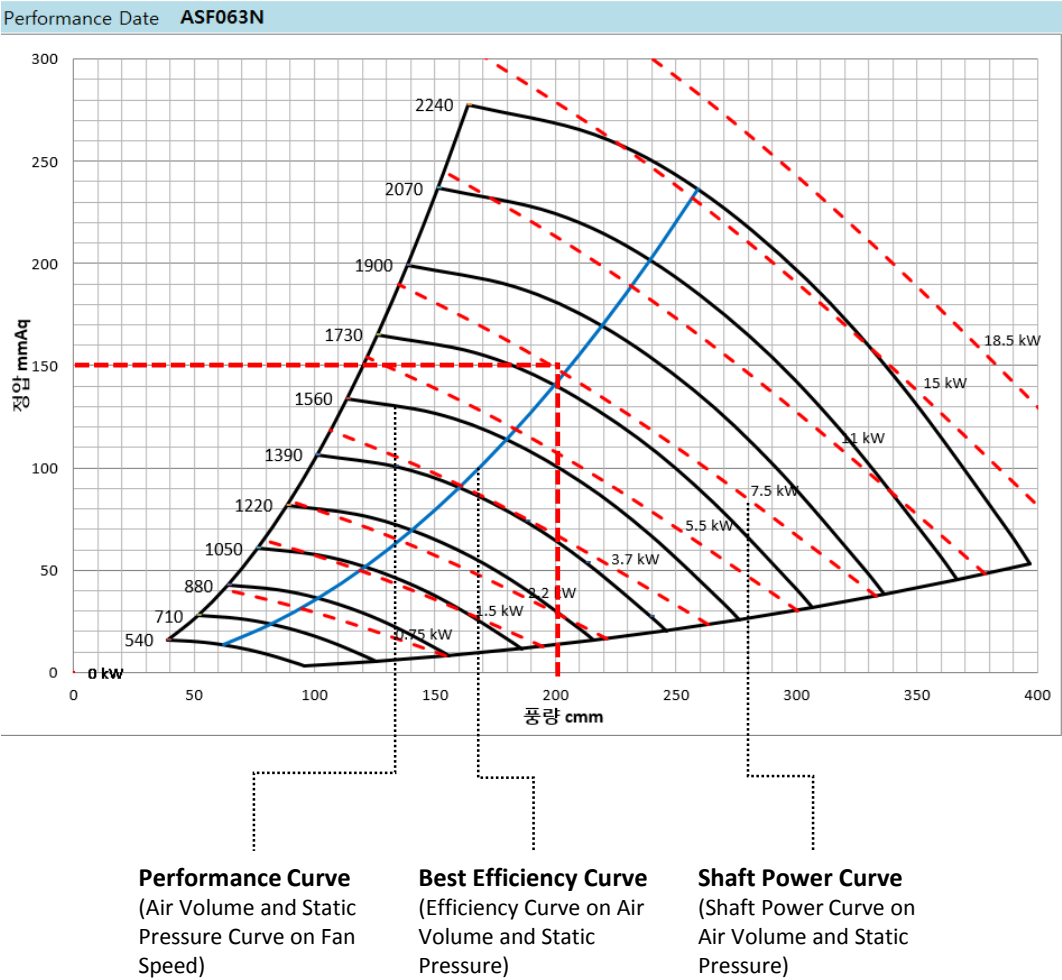


How to read Air Performance Data



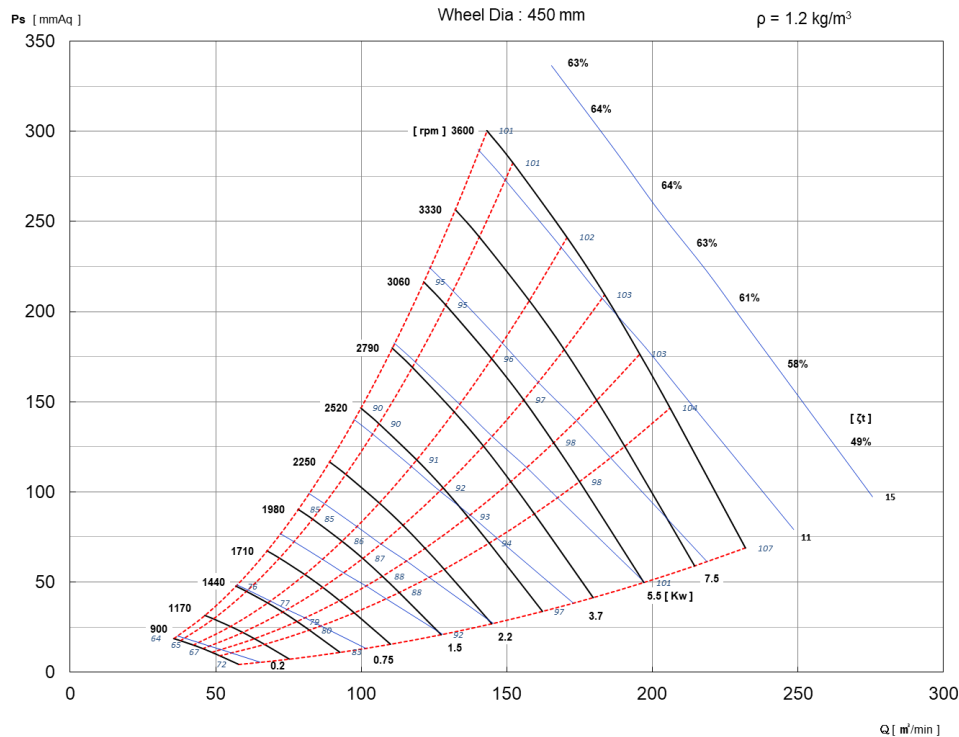
Example)

Air Volume	Static Pressure	FAN Speed	Shaft Power
200 CMM	150 mmAq	1770 rpm	7.6 kW



Performance Data **PLF 450**

FEG71

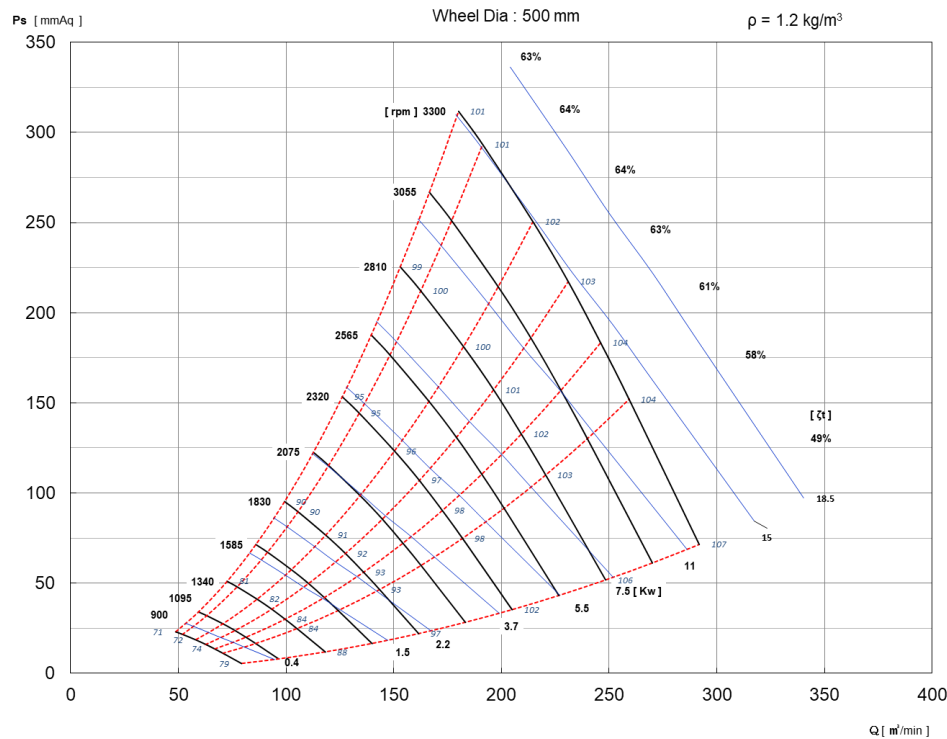


Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories). Power rating kW does not include transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.

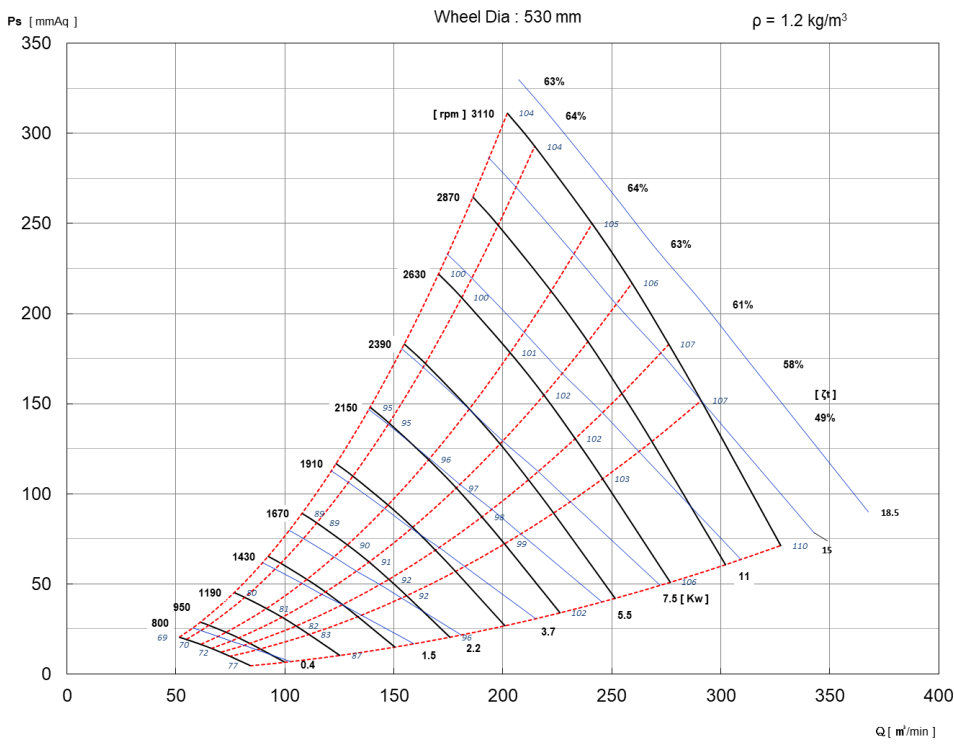
Performance Data **PLF 500**

FEG71

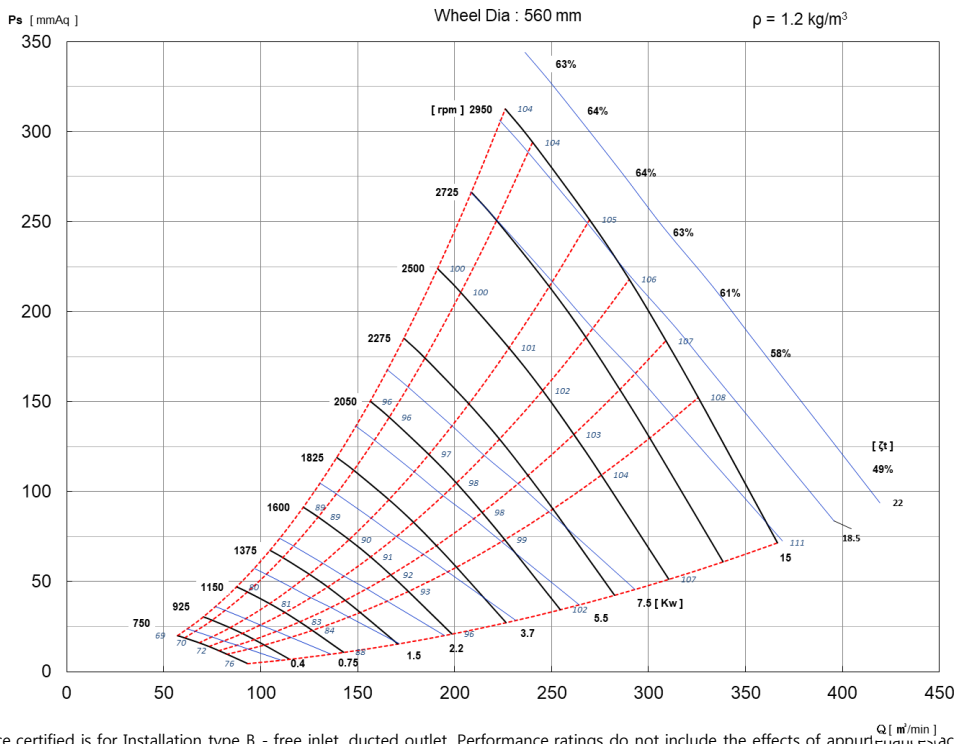


Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories). Power rating kW does not include transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.



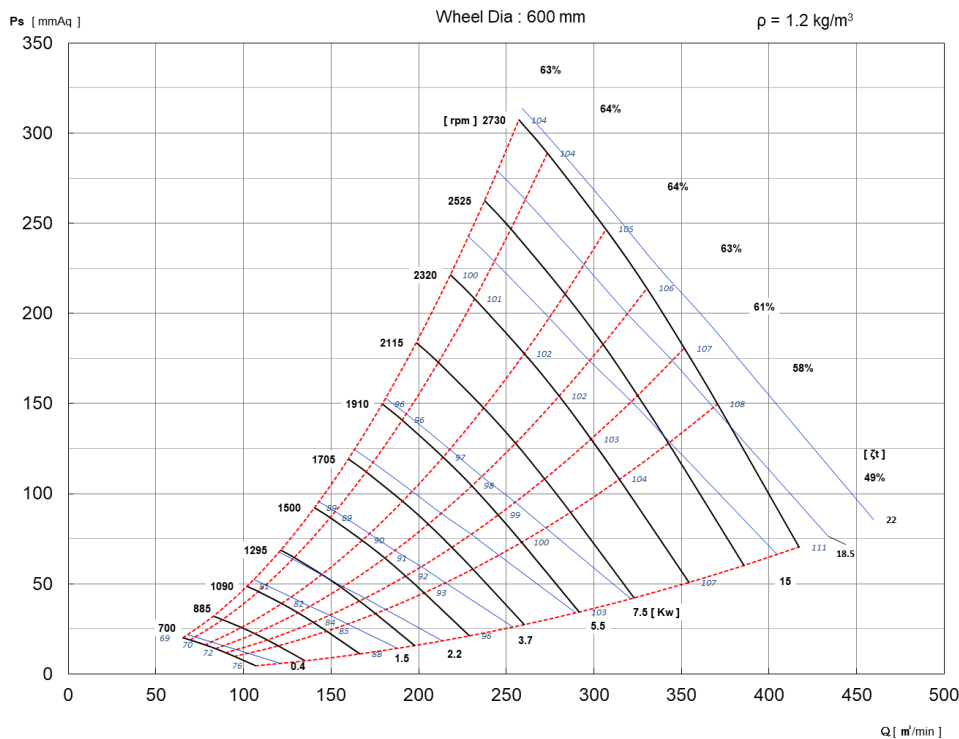
Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories).
Power rating kW does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.



Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories).
Power rating kW does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.

Performance Data **PLF 600**

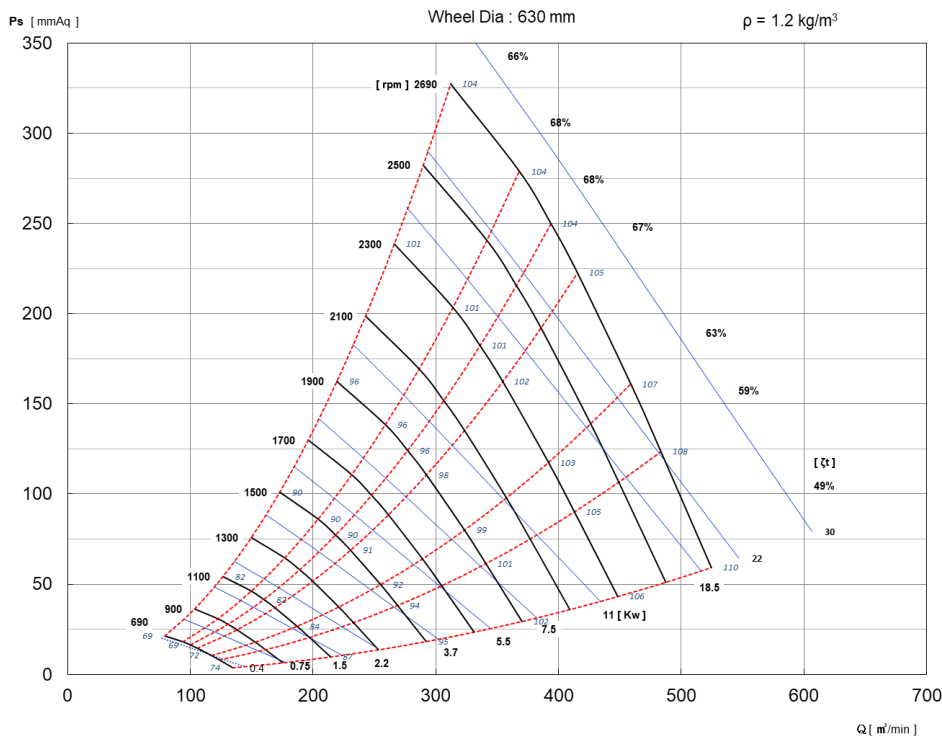
FEG71



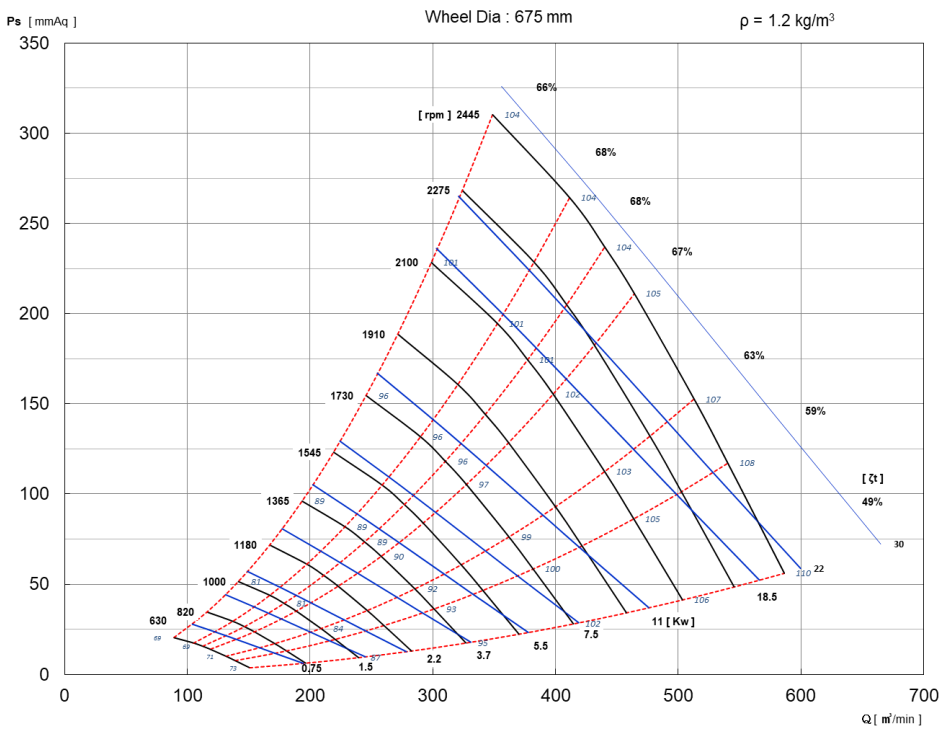
Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories). Power rating kW does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.

Performance Data **PLF 630**

FEG71

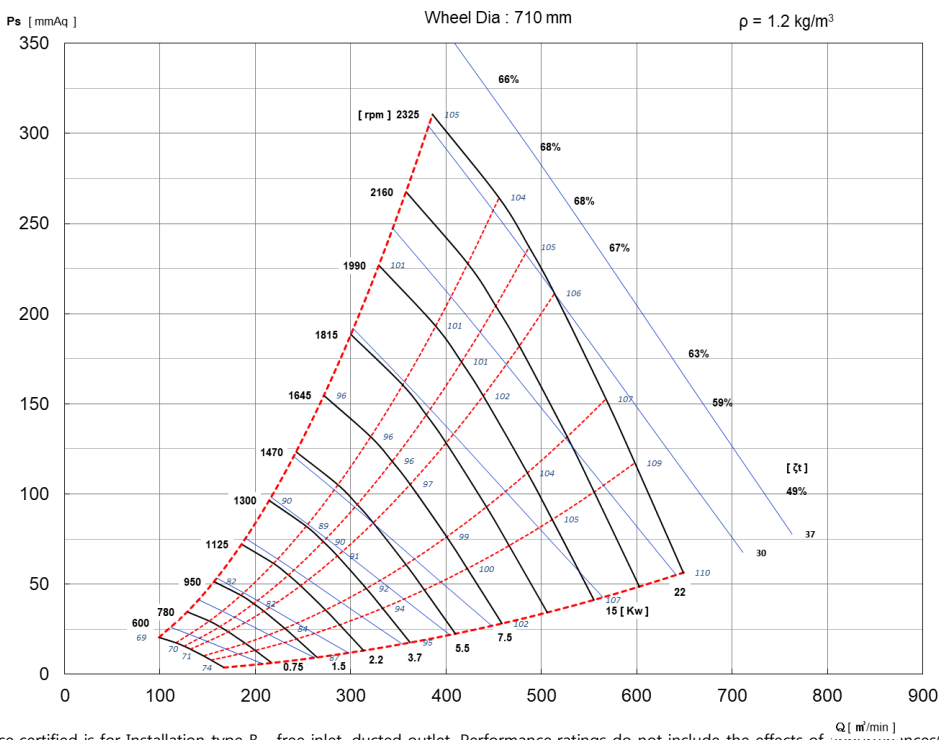


Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories). Power rating kW does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.



Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories). Power rating kW does not include transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.

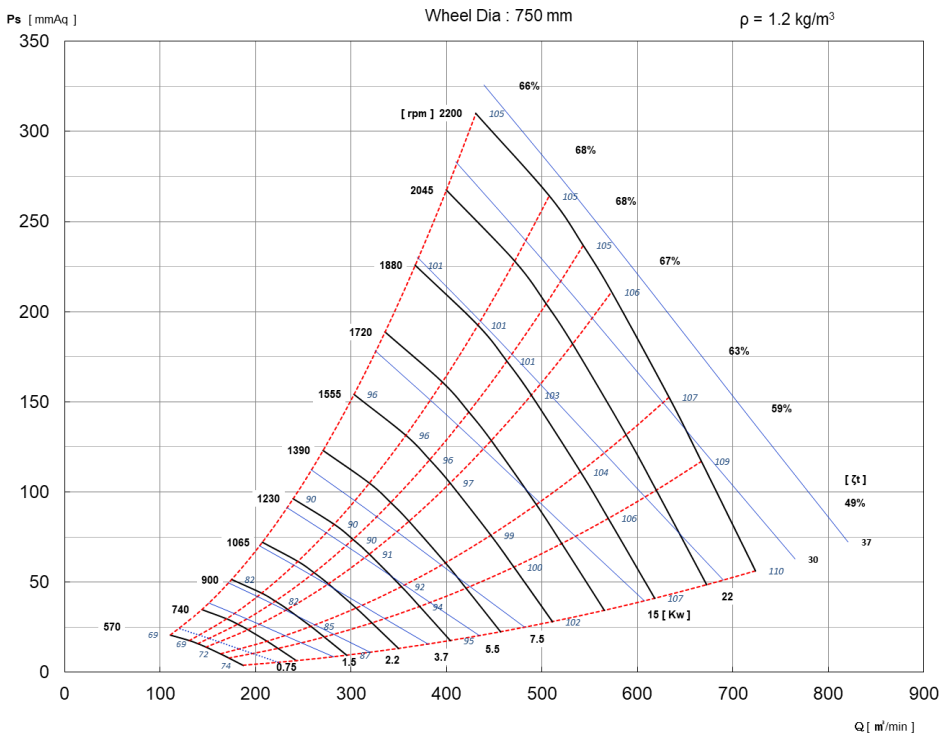


Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories). Power rating kW does not include transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.

Performance Data **PLF 750**

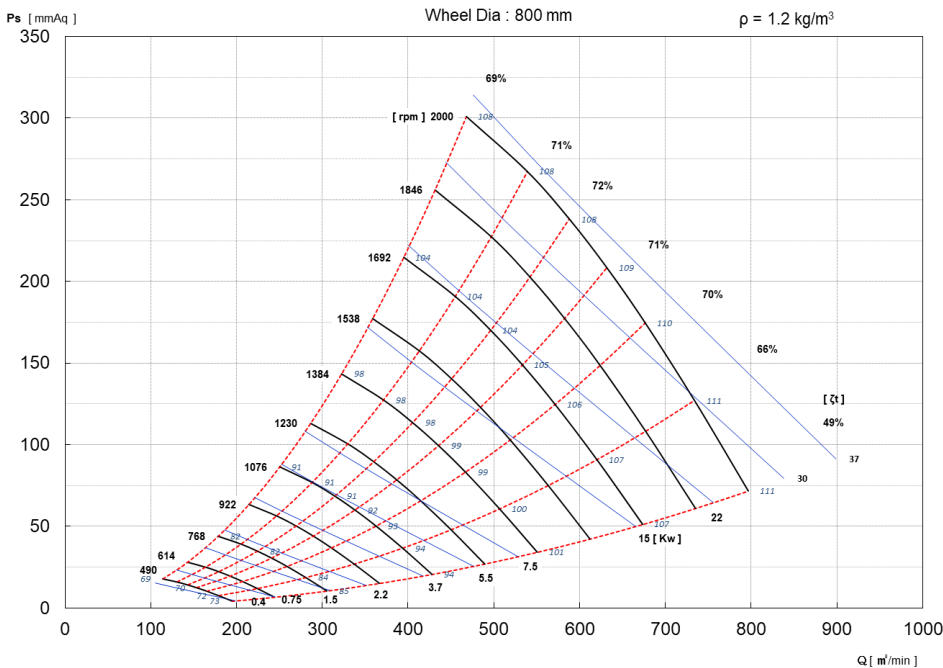
FEG71



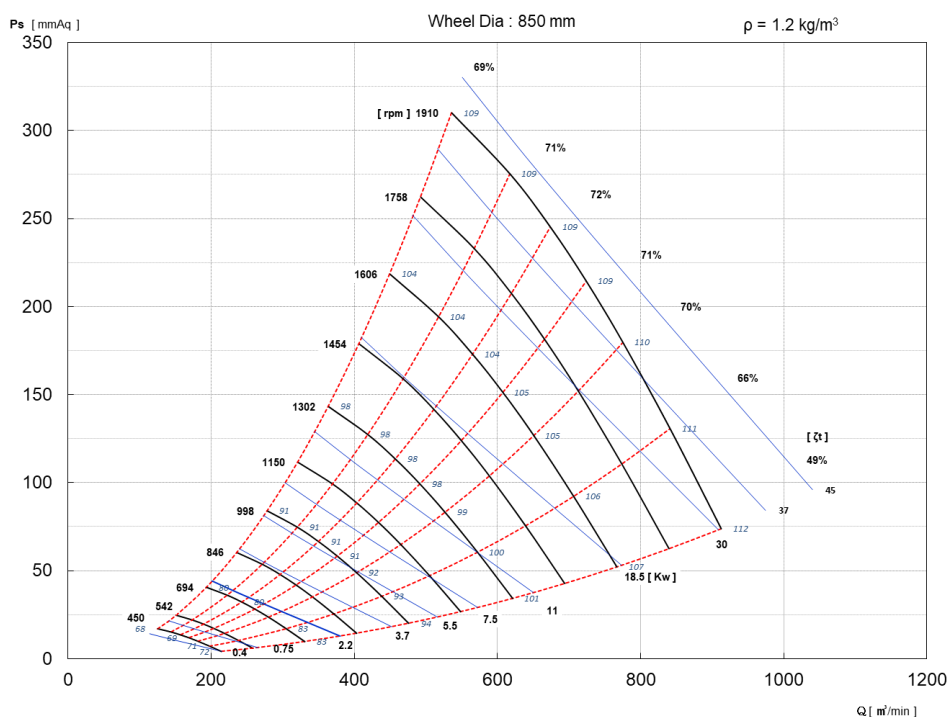
Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories).
Power rating kW does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.

Performance Data **PLF 800**

FEG75

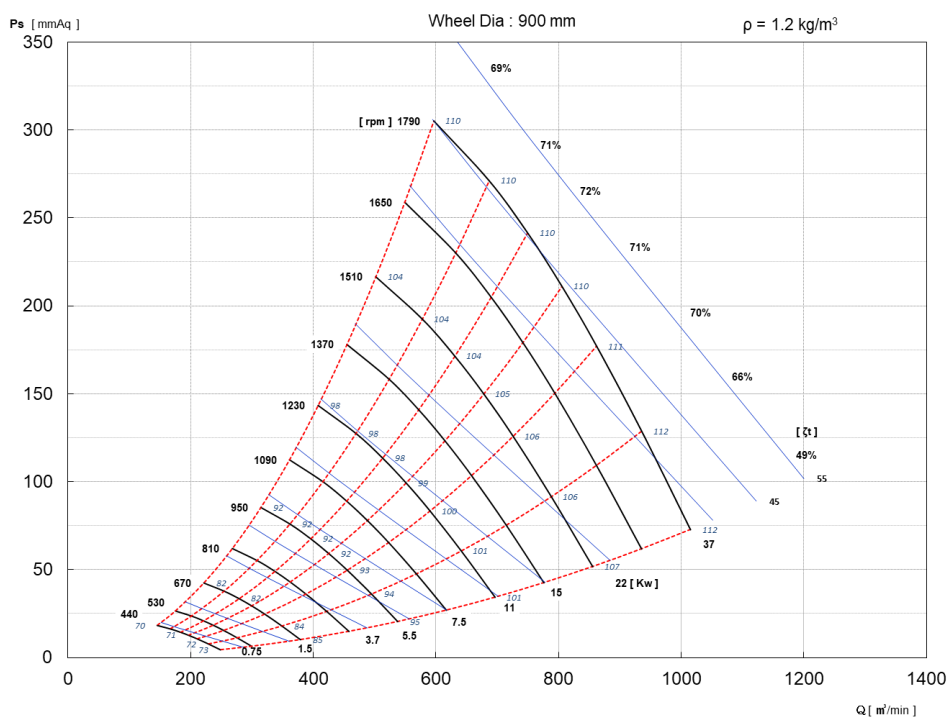


Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories).
Power rating kW does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.



Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.

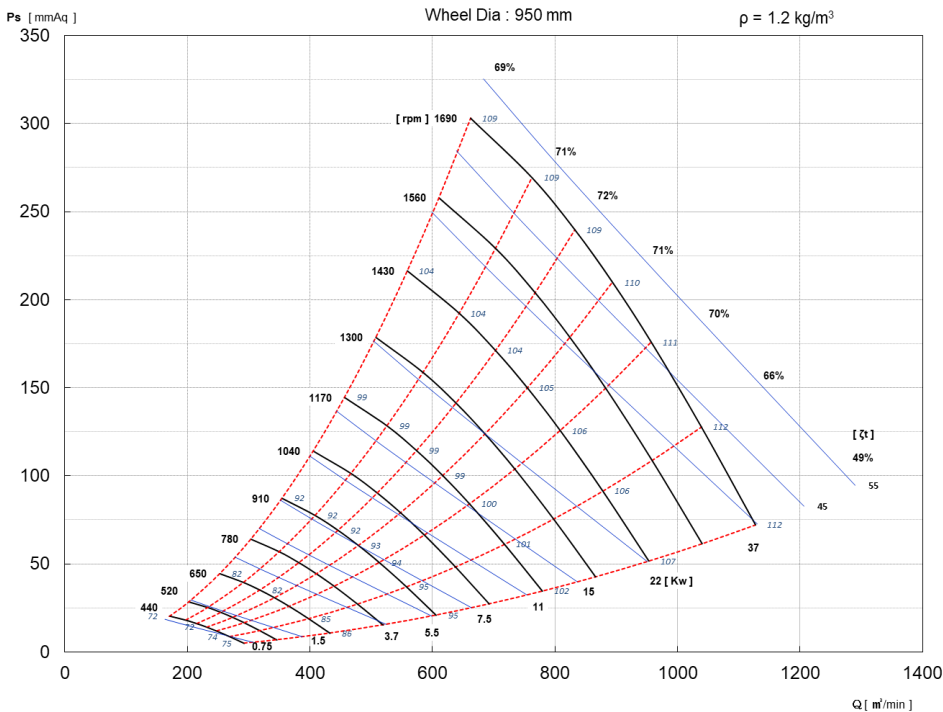


Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power rating kW does not include transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet L_{wiA} sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.

Performance Data **PLF 950**

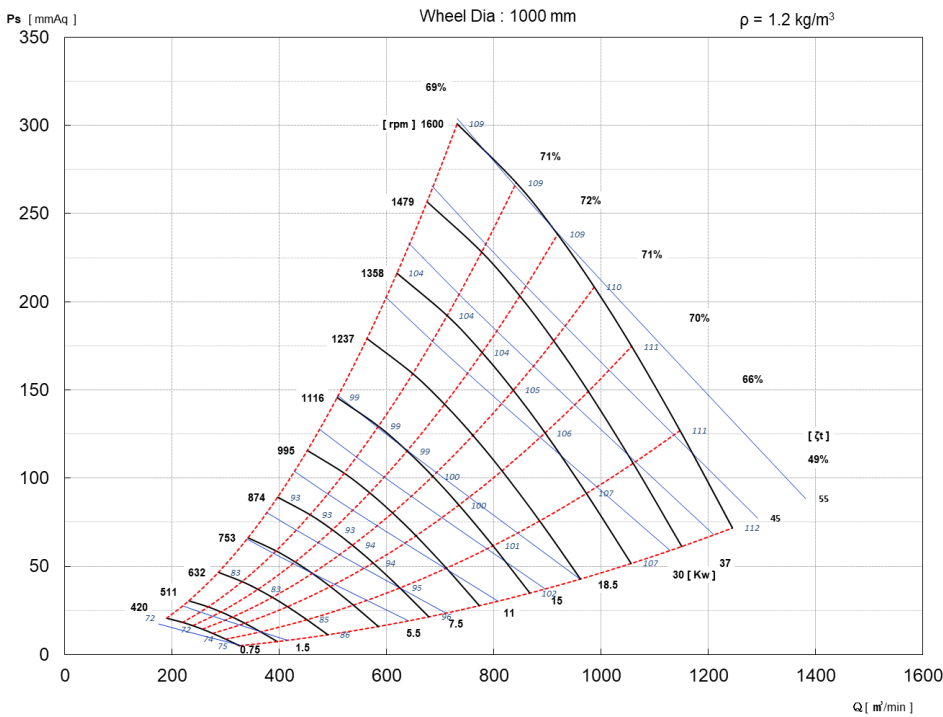
FEG75



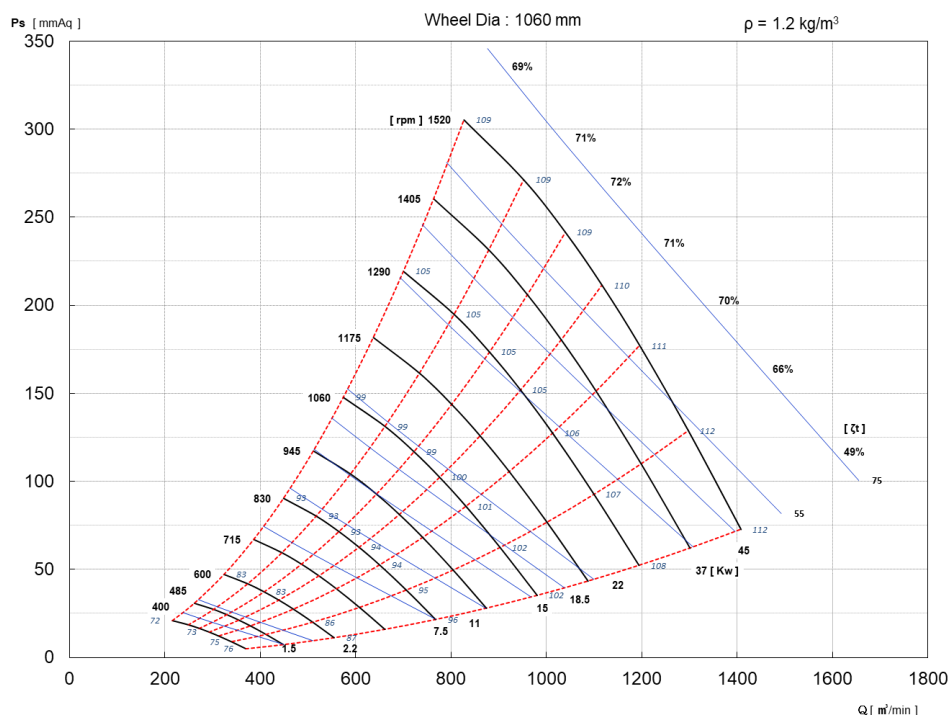
Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories). Power rating kW does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.

Performance Data **PLF 1000**

FEG75

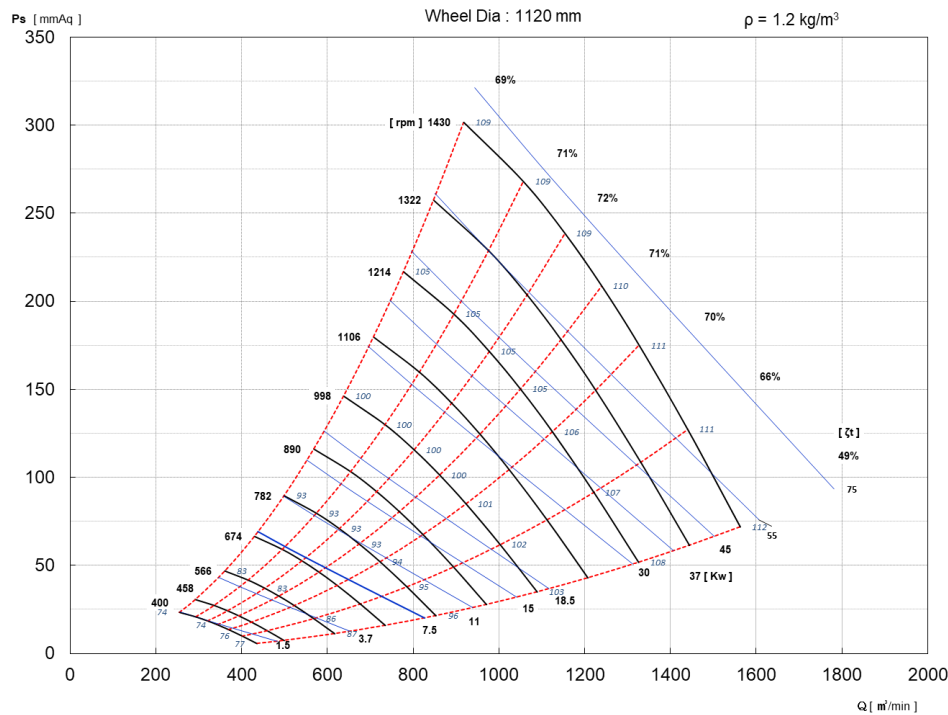


Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories). Power rating kW does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.



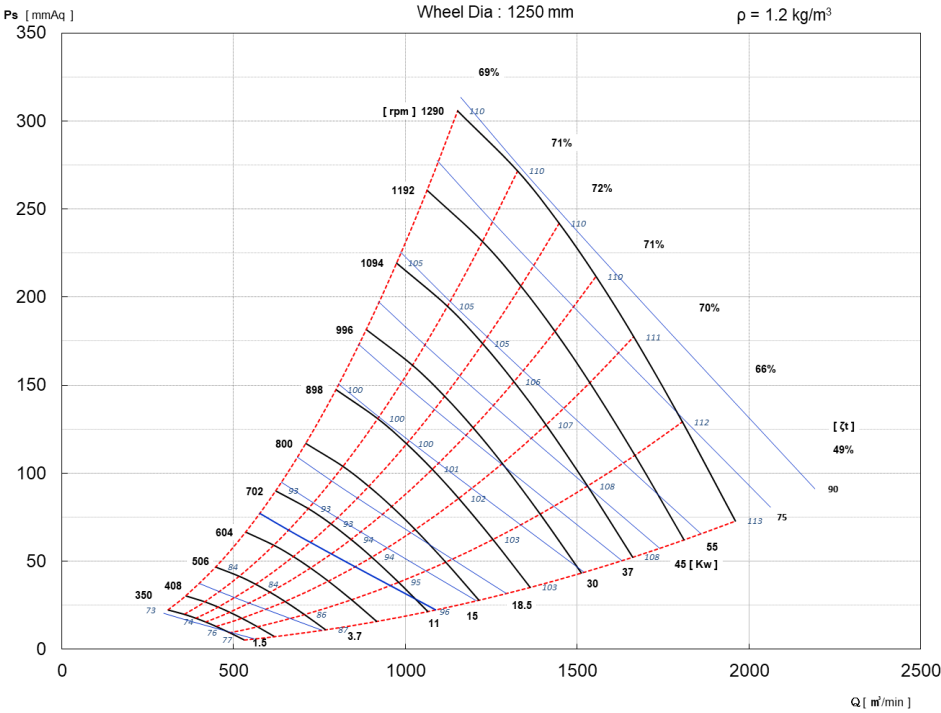
Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories). Power rating kW does not include transmission losses.

- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.



Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories). Power rating kW does not include transmission losses.

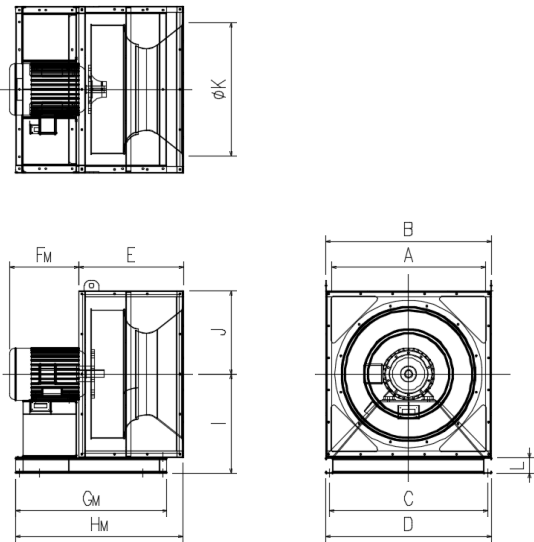
- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.



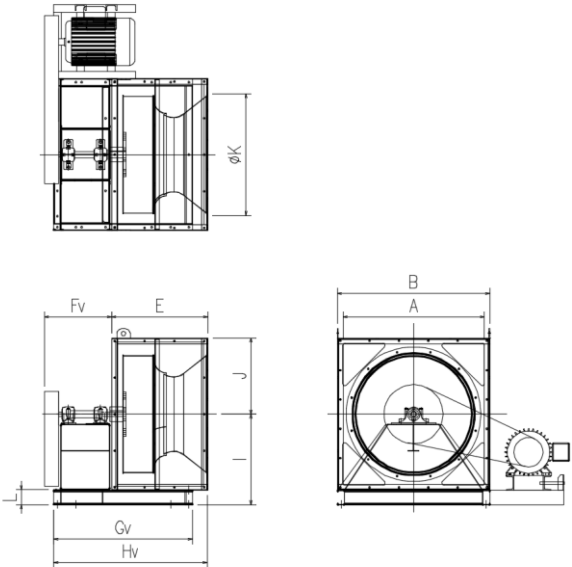
Performance certified is for Installation type B - free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances(accessories).
Power rating kW does not include transmission losses.
- The A-weighted sound ratings shown have been calculated per AMCA standard 301.
- Values shown are for inlet LwA sound power levels for installation type B - free inlet, ducted outlet. Ratings do not include the effect of duct end corrections.

PLENUM FAN LAYOUT DATA

MOTOR DIRECT TYPE



V-BELT TYPE



DIA	A	B	C	D	E	Fm	Fv	Gm	Gv	Hm	Hv	I	J	K	L
450	562	630	580	630	387	293	293	610	610	710	710	705	315	468	75
500	632	700	650	700	424	316	316	640	640	740	740	775	350	520	75
525	645	683	656	683	246	426	426	597	597	672	672	758	341	546	75
560	662	730	680	730	469	313	313	690	690	790	790	830	365	584	100
600	737	780	750	780	310	458	458	668	668	768	768	880	390	0	100
630	752	820	770	820	517	351	351	760	760	860	860	920	410	655	100
675	830	878	844	878	389	475	475	764	764	864	864	978	439	702	100
710	852	920	870	920	576	444	444	880	880	980	980	1020	460	740	100
750	912	980	930	980	610	522	522	960	960	1060	1060	1080	490	780	100
800	969	1040	990	1040	652	522	522	1000	1000	1100	1100	1140	520	832	100
850	1045	1105	1063	1105	616	472	472	963	963	1088	1088	1230	553	884	125
900	1099	1170	1120	1170	725	643	643	1125	1125	1250	1250	1295	585	936	125
950	1168	1235	1188	1235	753	463	463	1091	1091	1216	1216	1360	618	988	125
1000	1229	1300	1250	1300	793	567	567	1155	1155	1280	1280	1425	650	1040	125
1060	1299	1370	1320	1370	835	632	632	1235	1235	1360	1360	1495	685	1092	125
1120	1376	1456	1400	1456	992	442	442	1309	1309	1434	1434	1581	728	1165	125
1180	1360	1460	1410	1460	886	632	632	1285	1285	1410	1410	1585	730	1165	125
1250	1536	1625	1563	1625	0	1600	1600	1475	1475	1600	1600	1750	813	1300	125



■ 본사

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E-MAIL : strong@fansys.com

■ 2공장

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