



WMX 250PF to 1000PF

c/w 25 or 50mm acoustic as optional 11 diameters - 250, 315, 400, 450, 500,560, 630, 710, 800, 900 and 1000mm

In-line Mixed Fans

Performance

The in-line mixed flow fan has all the advantages of axial flow and centrifugal fans. i.e. straight airflow, light weight, compact, space saving design, easy installation, high-pressure stability, low noise level and low running costs. The fans are specially designed with built-in inlet cone to achieve high static efficiency and high volume flow. The performance range is up to 70,000 m³/hrs on air volume, at static pressure up to 3000 Pa.

Fan Casing

Fan casings are hot-dip galvanised. Flanges are rolled, the pitch circles of holes are in accordance with DIN 24154, R2.

Fan inlet and outlet can be fitted with matching flanges suitable for direct connection with flexible connectors that are designed for easy removal and installation. The fan casing design facilitates easy maintenance with convenient access to the impeller and motor drive. All steel components are supplied with zinc plated surface finishing as standard. For special applications, motors can be installed externally on the fan casing.

Acoustic Housing - Optional 50mm Acoustic Panel

Frame housing is made from extruded Aluminium profiles with flame retardant plastic or aluminium corners. The external side plates are made from pre-galvanized sheet metal with internal perforated galvanized sheet as standard. Epoxy coating as optional. Access panels are provided on each enclosure so that all removable parts can be assessed for maintenance purpose.

Cabinet housing is insulated to ensure low running noise levels. The 32 kg/m³ fibreglass internal acoustic lining has inert, non-hygroscopic, vermin moisture proof as well as asbestos and CFC free properties and does not support growth of bacteria. Servicing side door can be provided upon request. For weatherproof version, side plates are made of aluminium and a weather-hood is included.

Fan Impeller

Wolter Mixed flow impellers are manufactured from sheet steel as standard.

Surface finish in epoxy paint as optional. The special design blade configuration guarantees high volume flow and static efficiency with low noise operation. Impellers are statically and dynamically balanced in accordance to AMCA 204 BV level 4 Standard.

Motor

Wolter uses standard closed squirrel cage motor with airstreams rated to IEC 34, if required also in accordance to EPACT. The standard motors have Class F and enclosure IP54 or IP55. Continuous operating ranges from -40°C to $+40^{\circ}\text{C}$, other operating condition on demand. Multi speed versions with 2 or 3 speeds as optional, TAB or DUAL wound are also available. The motor bearings have a L10 life. The motors are single/three phase, 50/60 Hz suitable for 220~240 or 380~415 volts. All other voltage can be supplied upon request.

Model with suffix "R" come with external rotor motors are in protection class IP44, IP54 available upon request.

The winding insulation corresponds to insulation Class F with thermal contacts, wired in series suitable for 5-step or 100% speed controllers. Maximum allowed voltage tolerance of plus and minus 10% is valid. Flying leads as standard. Special cable lengths and fans with mounted terminal box on request.

Accessories (optional)

The following accessories are available:

- Flexible connection
The flexible connection consists of a gas-tight canvas.
- Inlet and outlet matching flange
The hot dipped galvanized inlet and outlet matching flange can be ordered to suit fan casing and for easy connection to flexible connector.
- Dampers
The self-working dampers with blades made of weatherproof plastic and aluminium frames has to be mounted at the suction side. Motor driven volume control dampers "JK" made of strong extruded aluminium profile are also available at Wolter with any dimension.
- Motor with 100% speed controllable.
- Motor with protection through thermal contact
- Protective guard
- Anti-vibration mounting isolators

Sound Levels

In order to make possible an assessment of sound projection adequate to human ear the A-assessed description of sound levels according to DIN 45635 has been chosen.

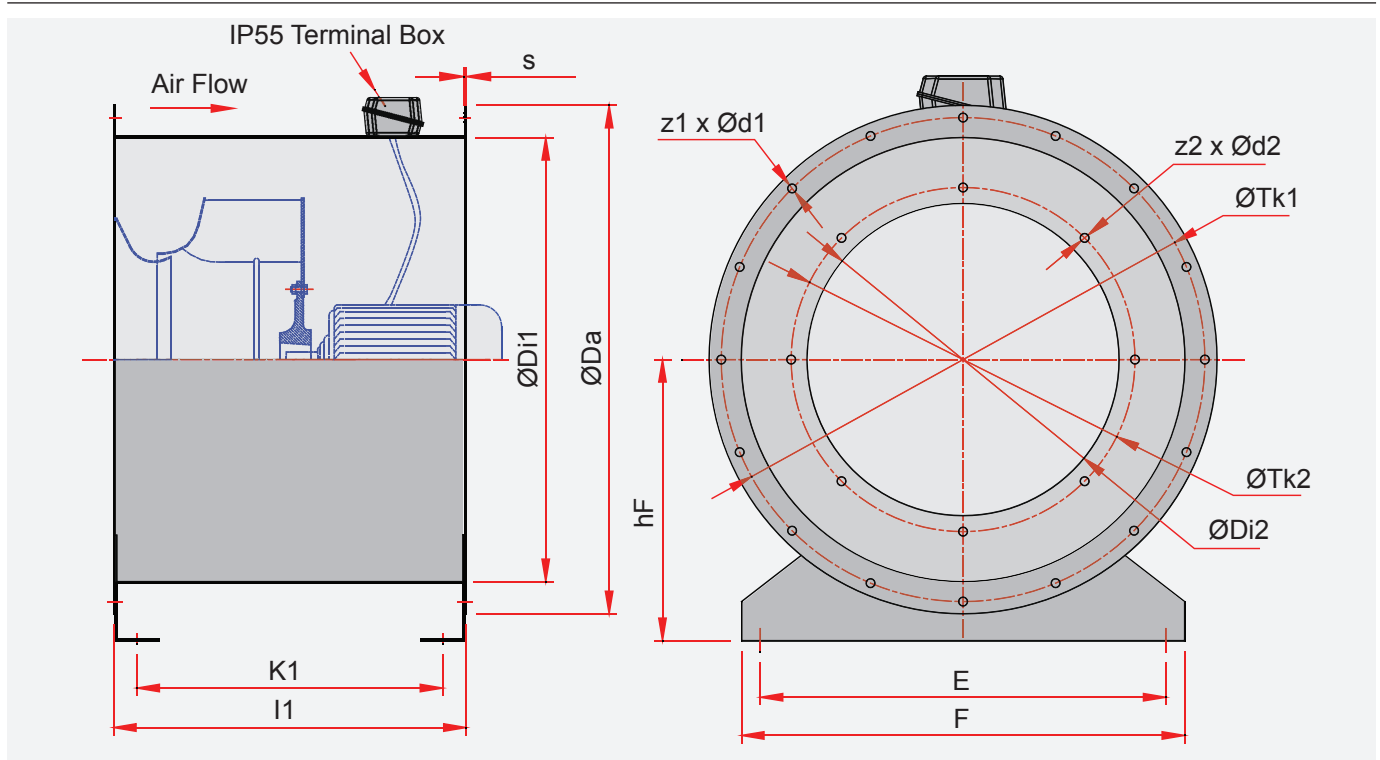
The ascertaining of the sound power level follows the enveloping surfaces method according to DIN 45635 section 38 or the channel technique DIN 45635, section 9.

The sound power level at the different octave band mid-frequencies relevant for the interpretation of sound absorbers can be calculated by means of an equation.

Kanalventilator-

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Dimensions



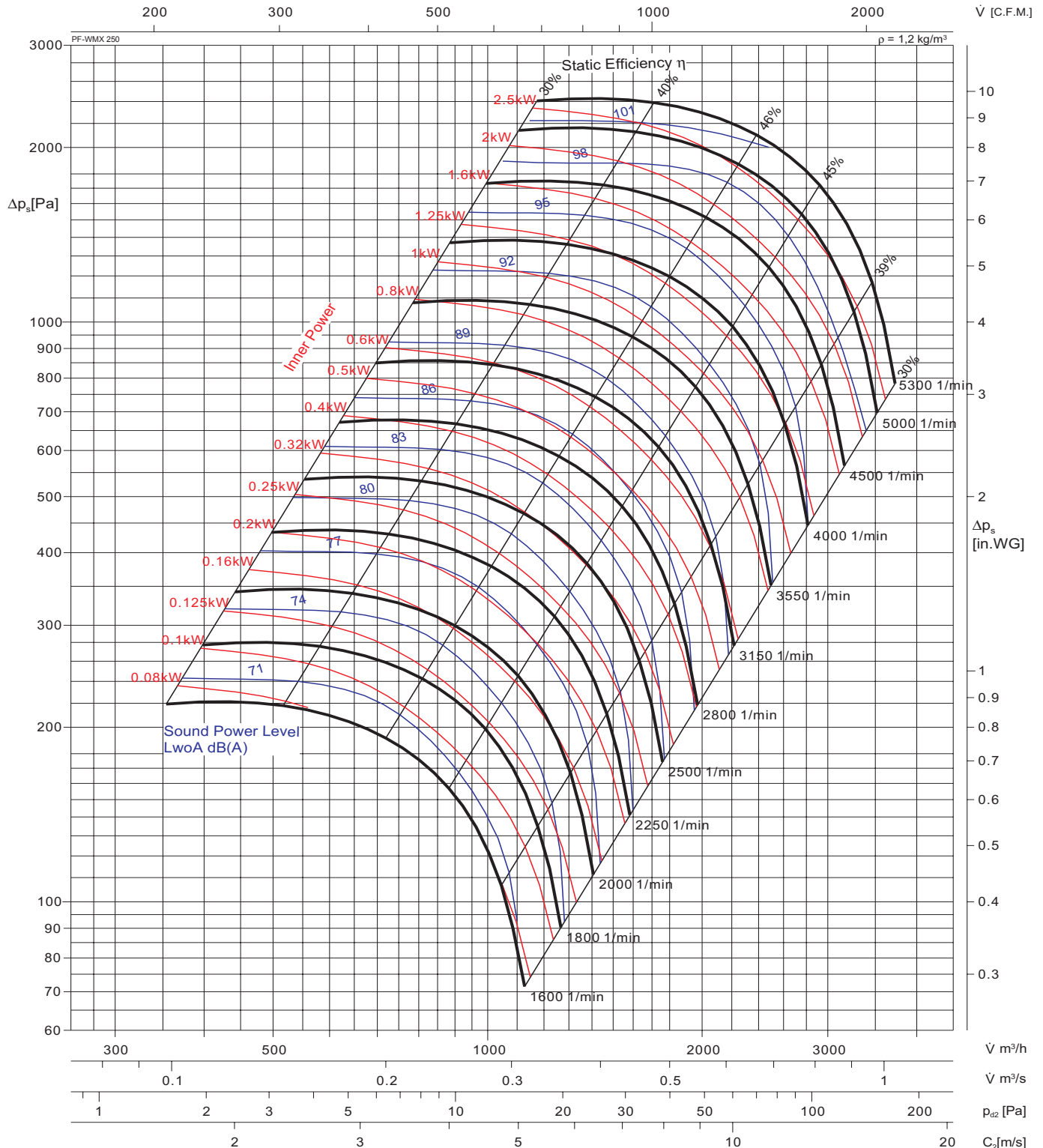
Baugröße size	Da [mm]	Di1 [mm]	Di2 [mm]	hF [mm]	z1 x d1 [mm]	z2 x d2 [mm]	Tk1 [mm]	Tk2 [mm]	E [mm]	F [mm]
250	438	359	250	225	8 x 12	8 x 12	405	277	305	355
280	484	401	280	250	12 x 12	8 x 12	448	322	350	400
315	534	450	315	280	12 x 12	8 x 12	497	366	400	450
355	584	504	355	315	12 x 12	8 x 12	551	405	440	500
400	664	565	400	345	16 x 14	12 x 12	629	448	500	560
450	734	634	450	400	16 x 14	12 x 12	698	497	570	630
500	814	711	500	450	16 x 14	12 x 12	775	551	650	710
560	904	797	560	500	12* x 14	16 x 14	861	629	730	800
630	1004	894	630	580	12* x 14	16 x 14	958	698	830	900
710	1105	1003	710	630	12* x 14	16 x 14	1067	775	930	990
800	1245	1125	800	690	16* x 18	12* x 14	1200	861	1050	1110
900	1370	1250	900	750	16* x 18	12* x 14	1337	958	1180	1240
1000	1525	1405	1000	830	16* x 18	12* x 14	1475	1067	1330	1390

Baugröße size	LH/1			LH/2		
	s [mm]	k1 [mm]	l1 [mm]	s [mm]	k1 [mm]	l1 [mm]
250	2	356	420			
280	2	371	435			
315	2	371	435			
355	2	396	470			
400	2	396	470	3	624	700
450	2	396	470	3	624	700
500	2,5	395	470	2,5	490	565
560	2,5	385	470	3	614	700
630	3	479	565	4	612	700
710	3	479	565	4	692	780
800	4	592	700	4	892	1000
900	4	592	700	4	892	1000
1000	4	592	700	4	892	1000

Kanalventilator- In-Line Mixed Fan



PF-WMX 250



Drehzahl max. $n_{max} = 5300 \text{ min}^{-1}$
Laufreddurchmesser $D_3 = 252 \text{ mm}$
Schaufelzahl $Z = 8$

Relative Frequenzspektr
relative frequency spectrum ΔL in dB/Okt

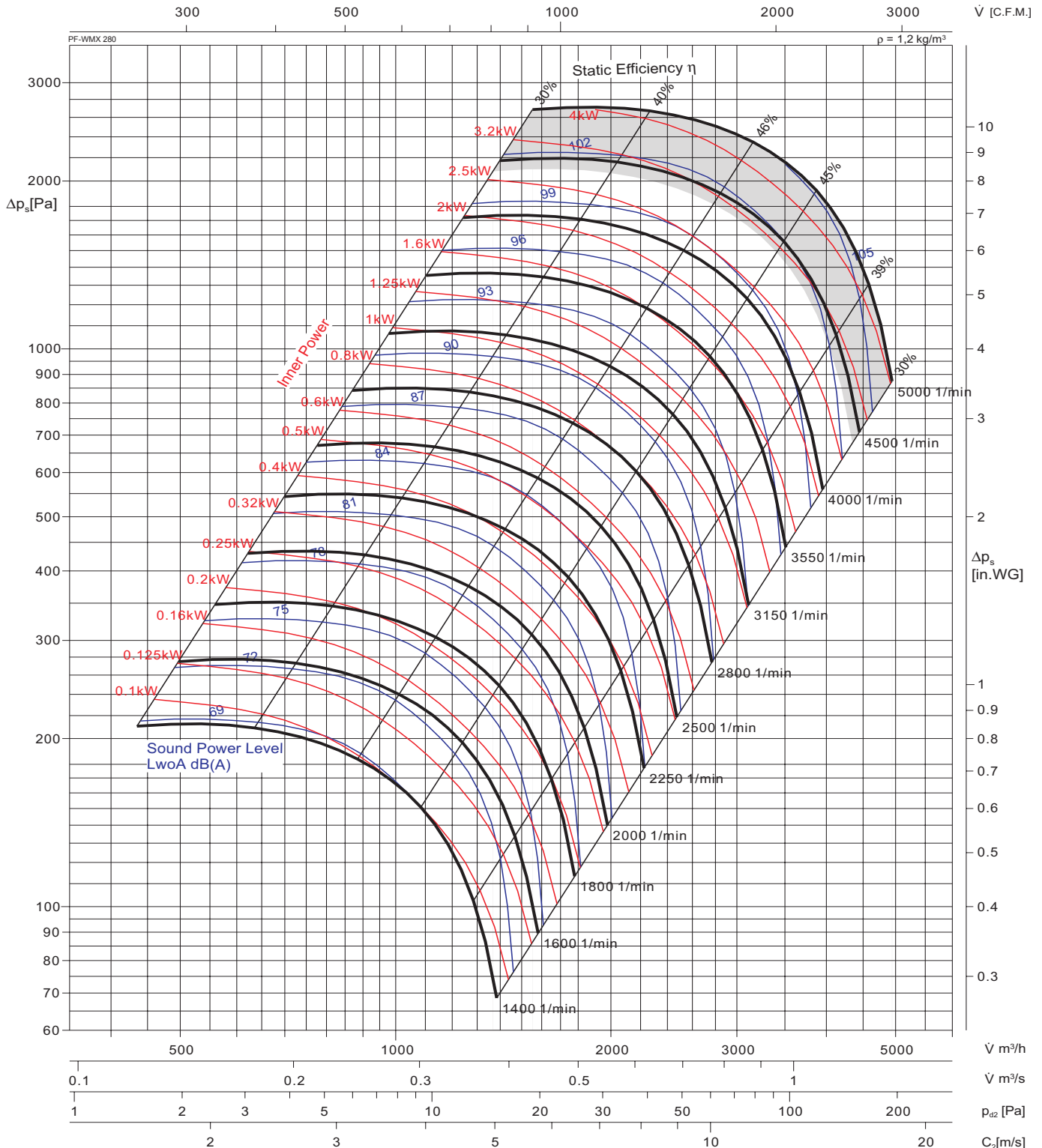
Oktavb. -Mittenfreq. / Octave b. midfreq. [Hz]							
63	125	250	500	1K	2K	4K	8K
-2	-7	-8	-13	-15	-19	-25	-28

*Test Method per AMCA 210 with one side open.

Kanalventilator- In-Line Mixed Fan



PF-WMX 280



Drehzahl max. $n_{max} = 4400 \text{ min}^{-1}$
 Drehzahl max. verst. $n_{mv} = 5000 \text{ min}^{-1}$
 Laufraddurchmesser $D_3 = 284 \text{ mm}$

Relative Frequenzspektren
 relative frequency spectrum ΔL in dB/Okt

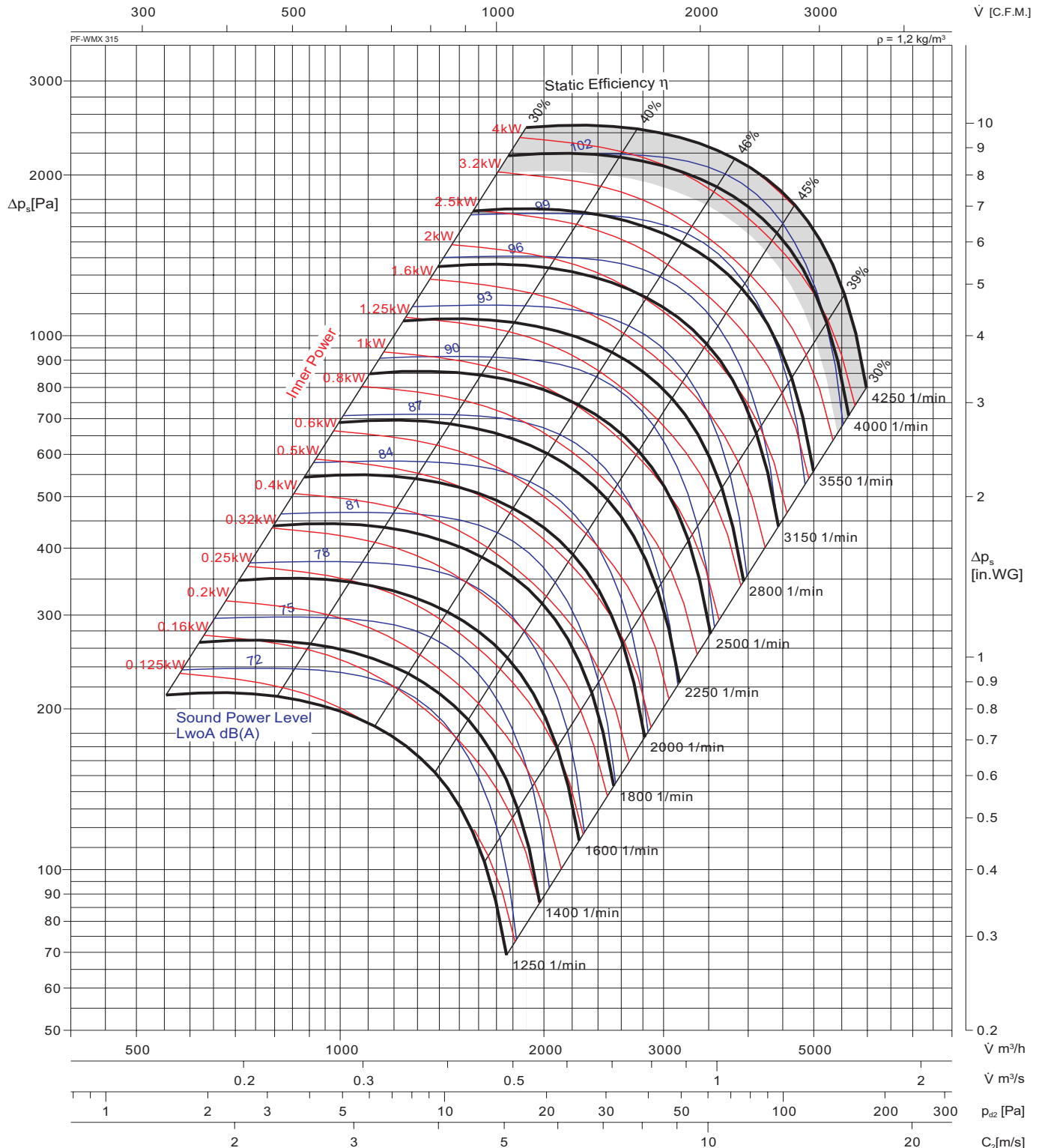
Oktavb. -Mittelfreq. / Octave b. midfreq. [Hz]							
63	125	250	500	1K	2K	4K	8K
-2	-7	-8	-13	-15	-19	-25	-28

*Test Method per AMCA 210 with one side open.

Kanalventilator- In-Line Mixed Fan



PF-WMX 315



Drehzahl max. $n_{\max} = 3850 \text{ min}^{-1}$
Drehzahl max. verst. $n_{mv} = 4250 \text{ min}^{-1}$
Laufreddurchmesser $D_3 = 319 \text{ mm}$

Relative Frequenzspektr
relative frequency spectrum ΔL in dB/Okt

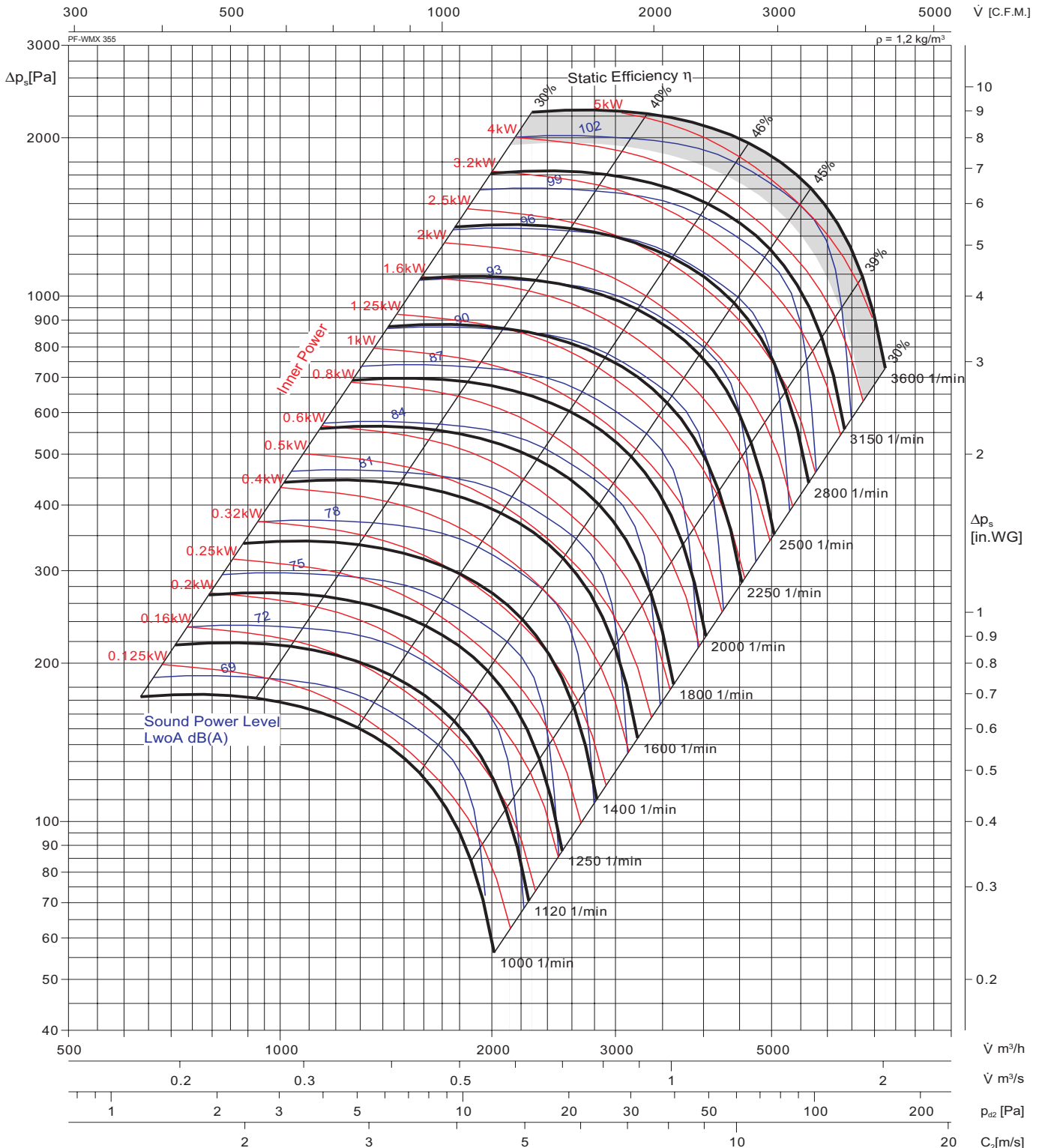
Oktavb. -Mittenfreq. / Octave b. midfreq. [Hz]							
63	125	250	500	1K	2K	4K	8K
-3	-7	-8	-13	-15	-19	-25	-28

*Test Method per AMCA 210 with one side open.

Kanalventilator- In-Line Mixed Fan



PF-WMX 355



Drehzahl max. $n_{max} = 3360 \text{ min}^{-1}$
 Drehzahl max. verst. $n_{mv} = 3600 \text{ min}^{-1}$
 Laufraddurchmesser $D_3 = 359 \text{ mm}$

Relative Frequenzspektren
 relative frequency spectrum ΔL in dB/Okt

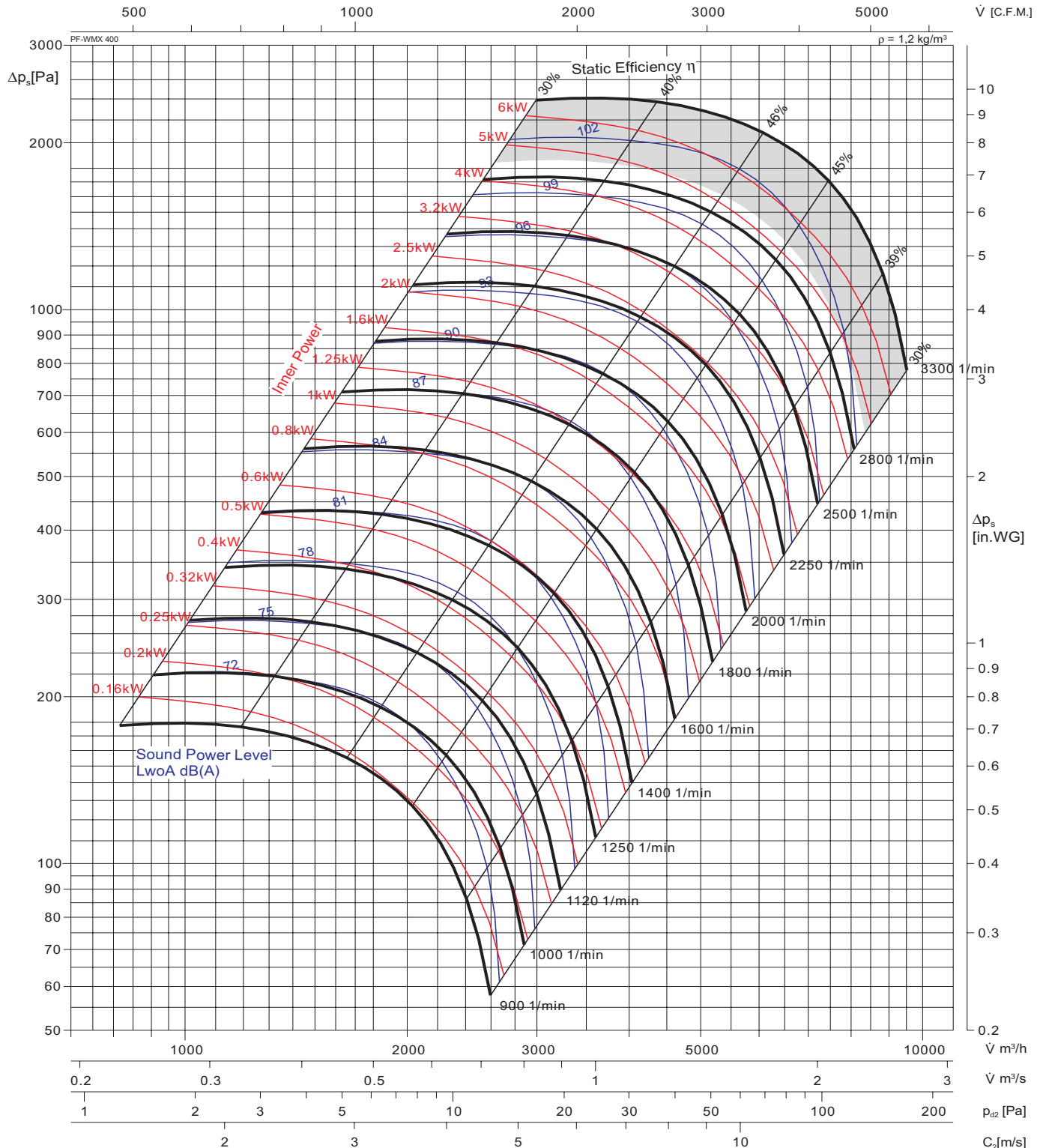
Oktavb. -Mittenfrequ. / Octave b. midfreq. [Hz]							
63	125	250	500	1K	2K	4K	8K
-3	-7	-8	-13	-15	-19	-25	-28

*Test Method per AMCA 210 with one side open.

Kanalventilator- In-Line Mixed Fan



PF-WMX 400



Drehzahl max. $n_{\max} = 2870 \text{ min}^{-1}$
Drehzahl max. verst. $n_{\text{mv}} = 3300 \text{ min}^{-1}$
Laufreddurchmesser $D_3 = 404 \text{ mm}$

Relative Frequenzspektren
relative frequency spectrum ΔL in dB/Okt

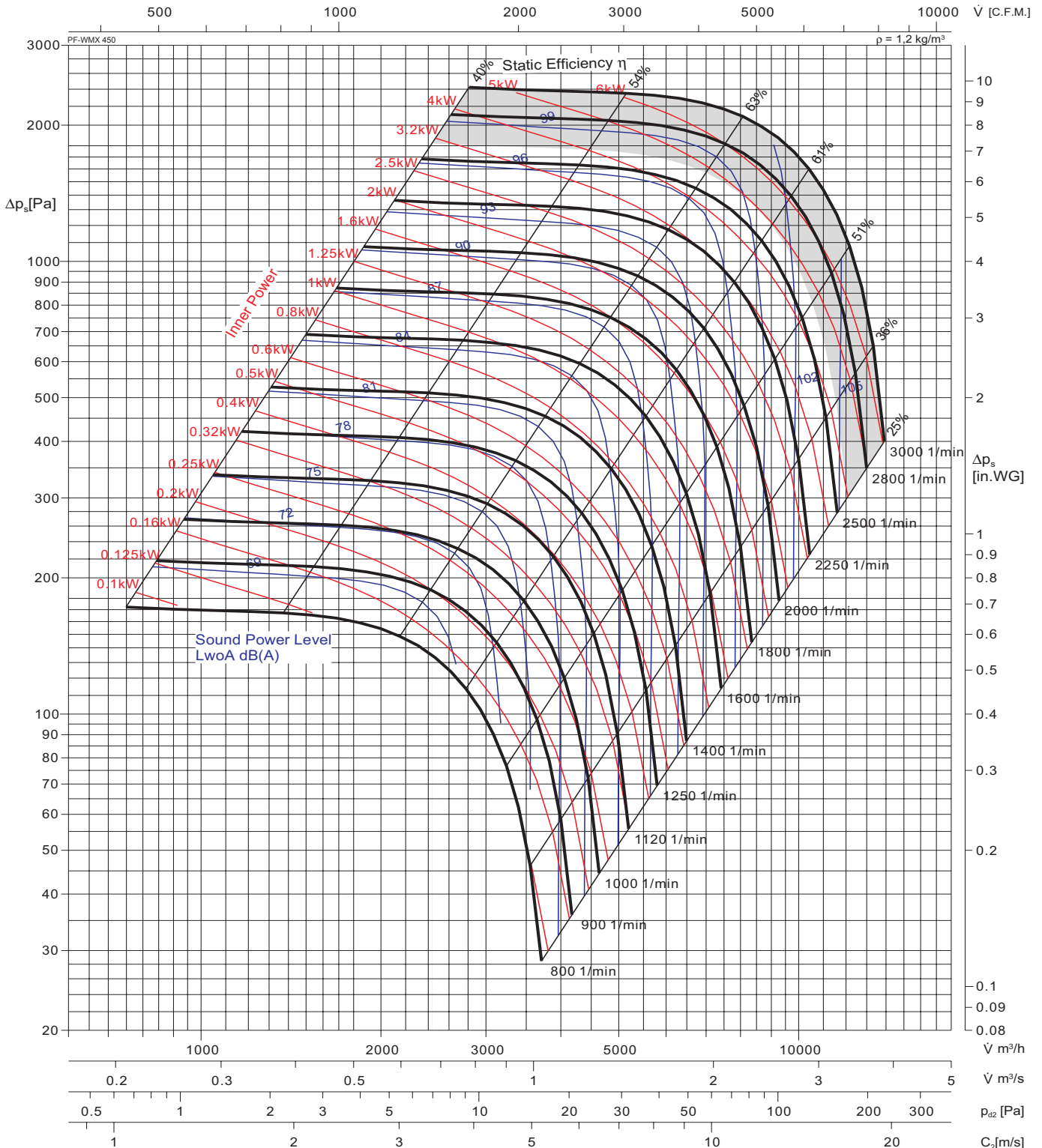
Oktavb. -Mittenfreq. / Octave b. midfreq. [Hz]							
63	125	250	500	1K	2K	4K	8K
-3	-7	-8	-13	-15	-19	-25	-28

*Test Method per AMCA 210 with one side open.

Kanalventilator- In-Line Mixed Fan



PF-WMX 450



Drehzahl max. $n_{\text{max}} = 2620 \text{ min}^{-1}$
Drehzahl max. verst. $n_{\text{mv}} = 3000 \text{ min}^{-1}$
Laufreddurchmesser $D_3 = 454 \text{ mm}$

Relative Frequenzspektren
relative frequency spectrum ΔL in dB/Okt

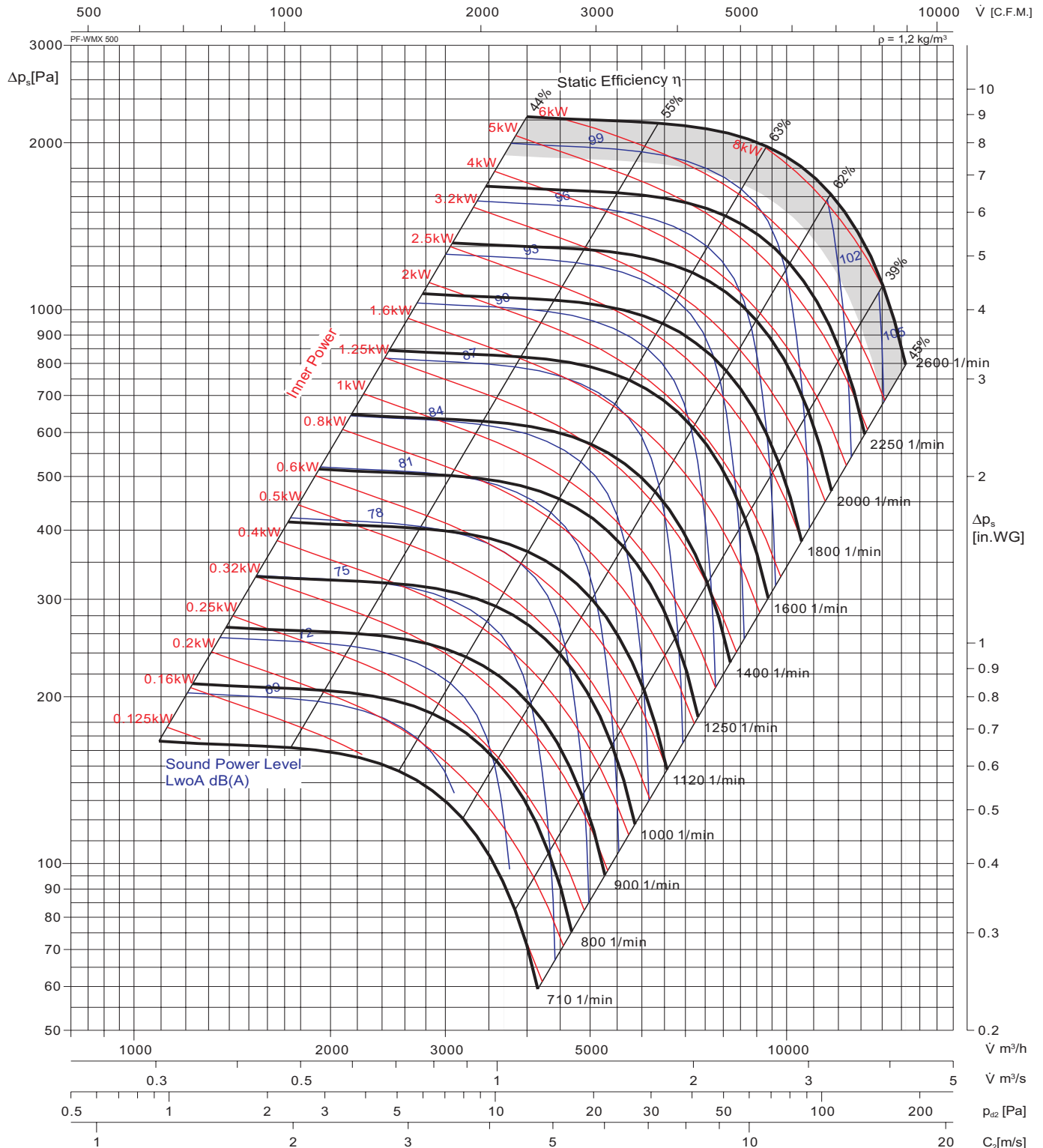
Oktavb. -Mittelfreq. / Octave b. midfreq. [Hz]							
63	125	250	500	1K	2K	4K	8K
-3	-7	-8	-13	-15	-19	-25	-28

*Test Method per AMCA 210 with one side open.

Kanalventilator- In-Line Mixed Fan



PF-WMX 500



Drehzahl max. $n_{\max} = 2420 \text{ min}^{-1}$
Drehzahl max. verst. $n_{mv} = 2600 \text{ min}^{-1}$
Laufreddurchmesser $D_3 = 510 \text{ mm}$

Relative Frequenzspektren
relative frequency spectrum ΔL in dB/Okt

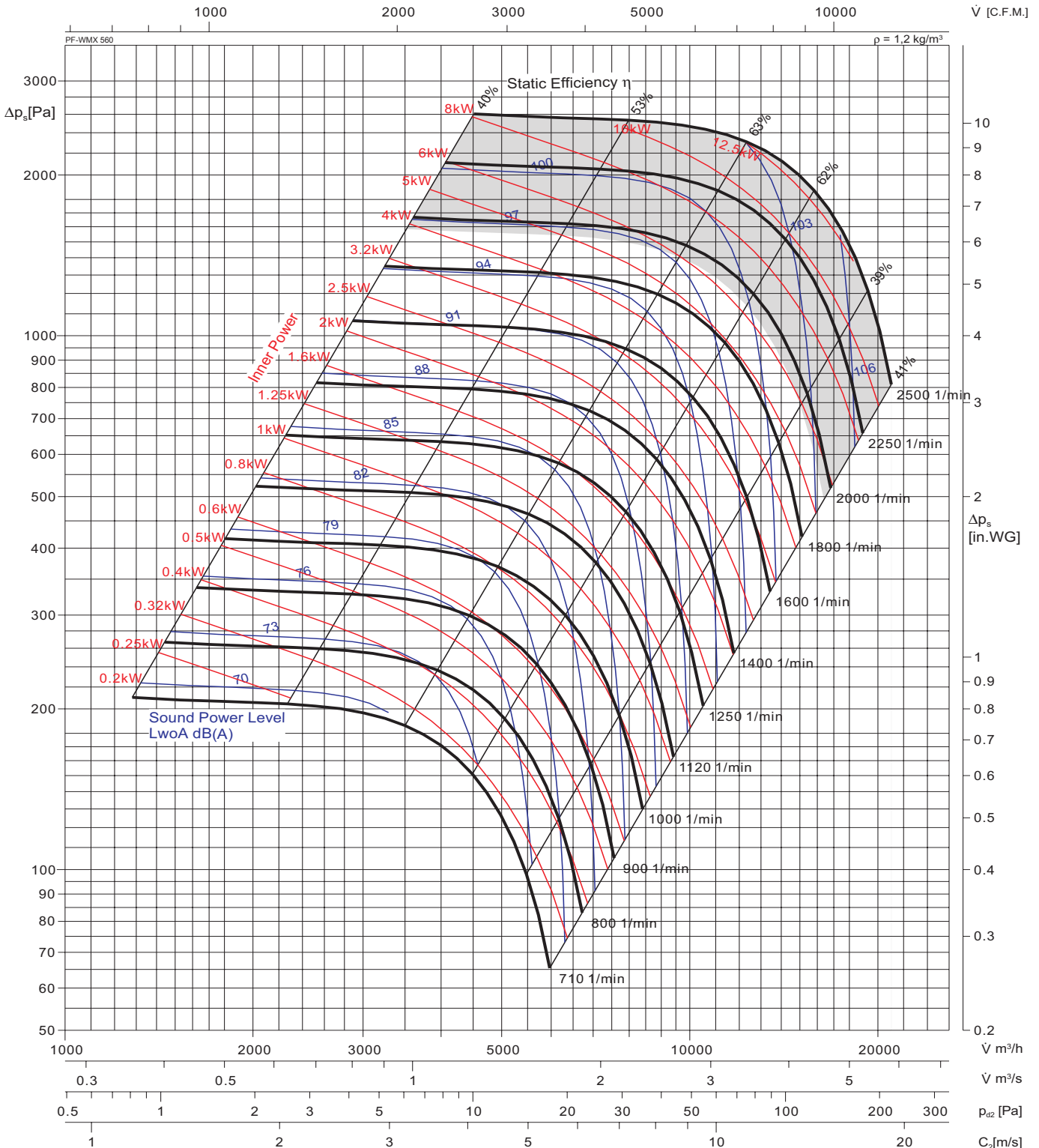
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63	125	250	500	1K	2K	4K	8K
-2	-9	-7	-12	-14	-18	-24	-27

*Test Method per AMCA 210 with one side open.

Kanalventilator- In-Line Mixed Fan



PF-WMX 560



Drehzahl max. $n_{max} = 1950 \text{ min}^{-1}$
Drehzahl max. verst. $n_{mv} = 2500 \text{ min}^{-1}$
Laufreddurchmesser $D_3 = 570 \text{ mm}$

Relative Frequenzspektren
relative frequency spectrum ΔL in dB/Okt

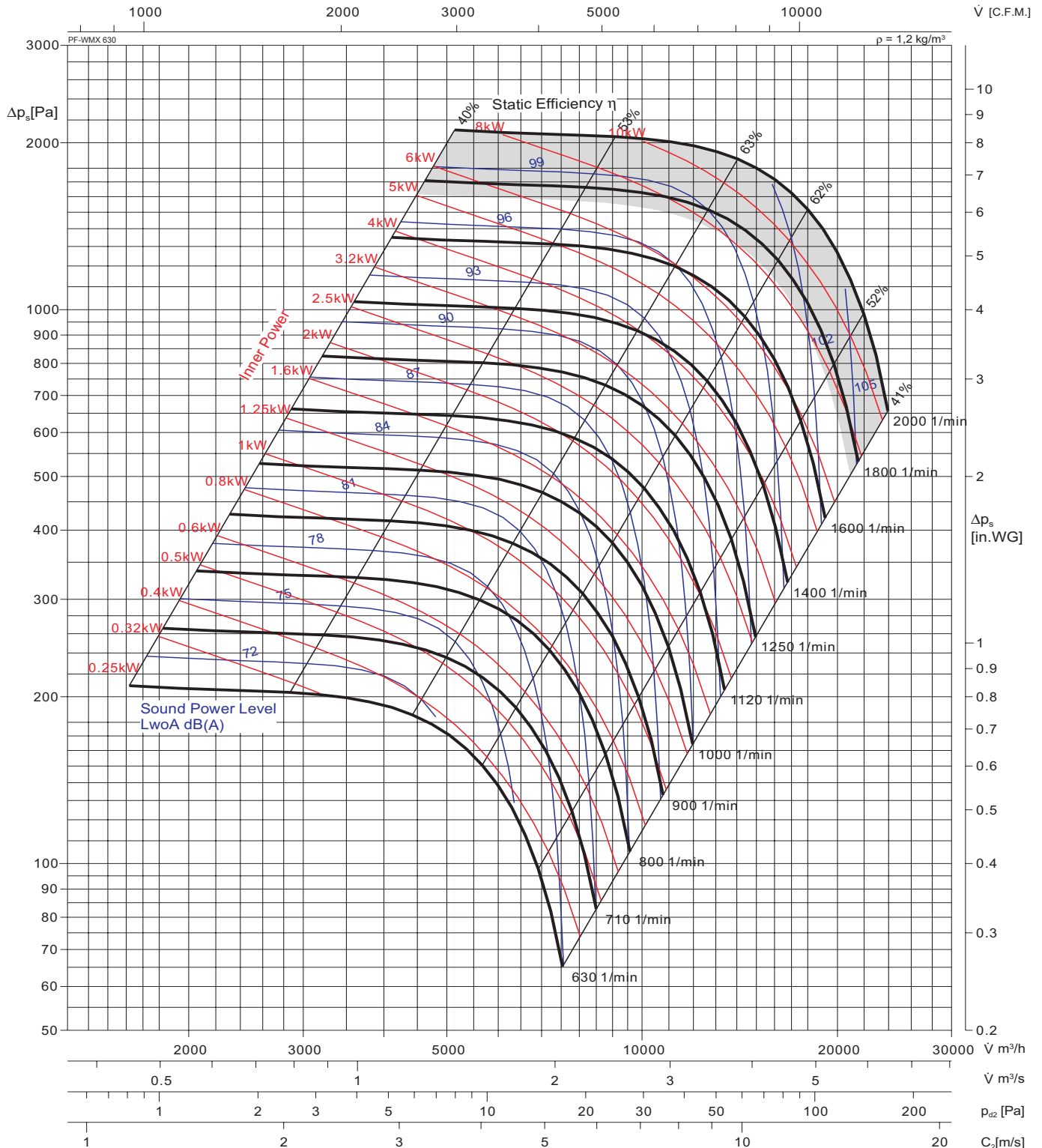
Oktavb. -Mittelfreq. / Octave b. midfreq. [Hz]							
63	125	250	500	1K	2K	4K	8K
-2	-7	-8	-13	-15	-19	-25	-28

*Test Method per AMCA 210 with one side open.

Kanalventilator- In-Line Mixed Fan



PF-WMX 630



Drehzahl max. $n_{\max} = 1750 \text{ min}^{-1}$

Drehzahl max. verst. $n_{mv} = 2000 \text{ min}^{-1}$

Laufreddurchmesser $D_3 = 640 \text{ mm}$

Relative Frequenzspektren
relative frequency spectrum ΔL in dB/Okt

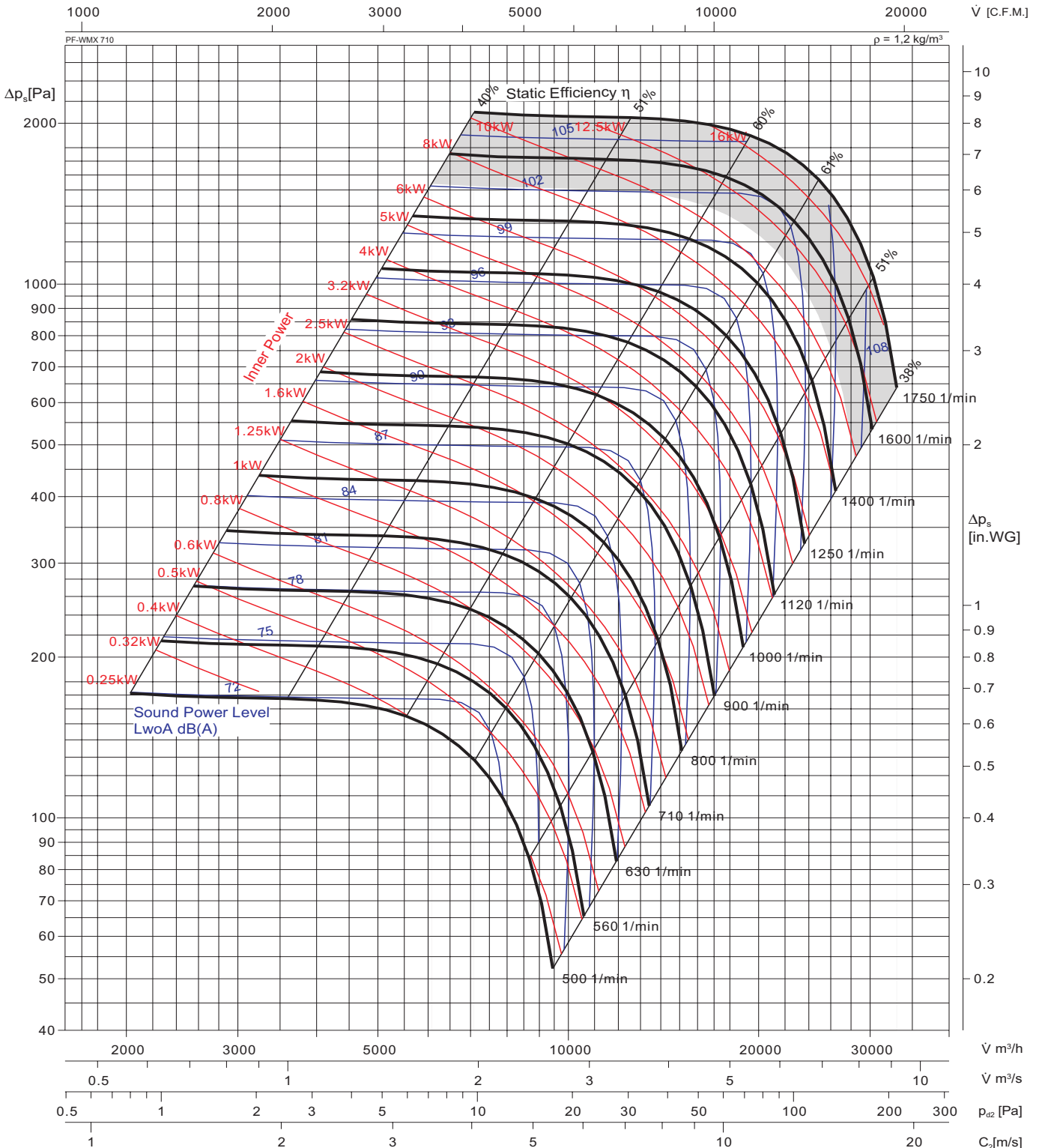
Oktavb. -Mittenfreq. / Octave b. midfreq. [Hz]							
63	125	250	500	1K	2K	4K	8K
-2	-7	-8	-13	-15	-19	-25	-28

*Test Method per AMCA 210 with one side open.

Kanalventilator- In-Line Mixed Fan



PF-WMX 710



Drehzahl max. $n_{\text{max}} = 1500 \text{ min}^{-1}$
 Drehzahl max. verst. $n_{\text{mv}} = 1750 \text{ min}^{-1}$
 Laufraddurchmesser $D_3 = 718 \text{ mm}$

Relative Frequenzspektren
 relative frequency spectrum ΔL in dB/Okt

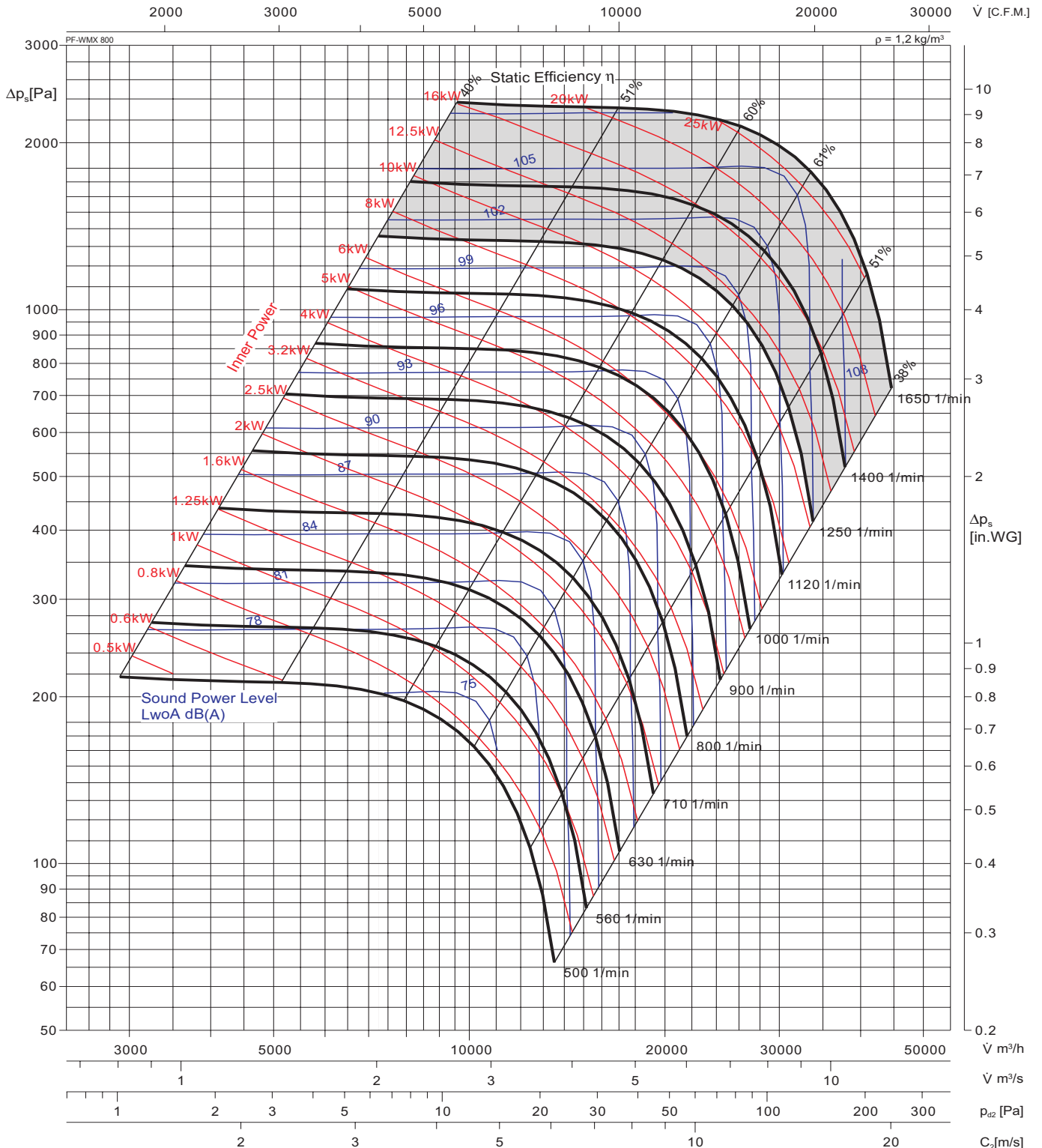
Oktavb. -Mittenfreq. / Octave b. midfreq. [Hz]							
63	125	250	500	1K	2K	4K	8K
-2	-7	-8	-13	-15	-19	-25	-28

*Test Method per AMCA 210 with one side open.

Kanalventilator- In-Line Mixed Fan



PF-WMX 800



Drehzahl max. $n_{\max} = 1250 \text{ min}^{-1}$

Drehzahl max. verst. $n_{mv} = 1650 \text{ min}^{-1}$

Laufreddurchmesser $D_3 = 808 \text{ mm}$

Relative Frequenzspektren

relative frequency spectrum ΔL in dB/Okt

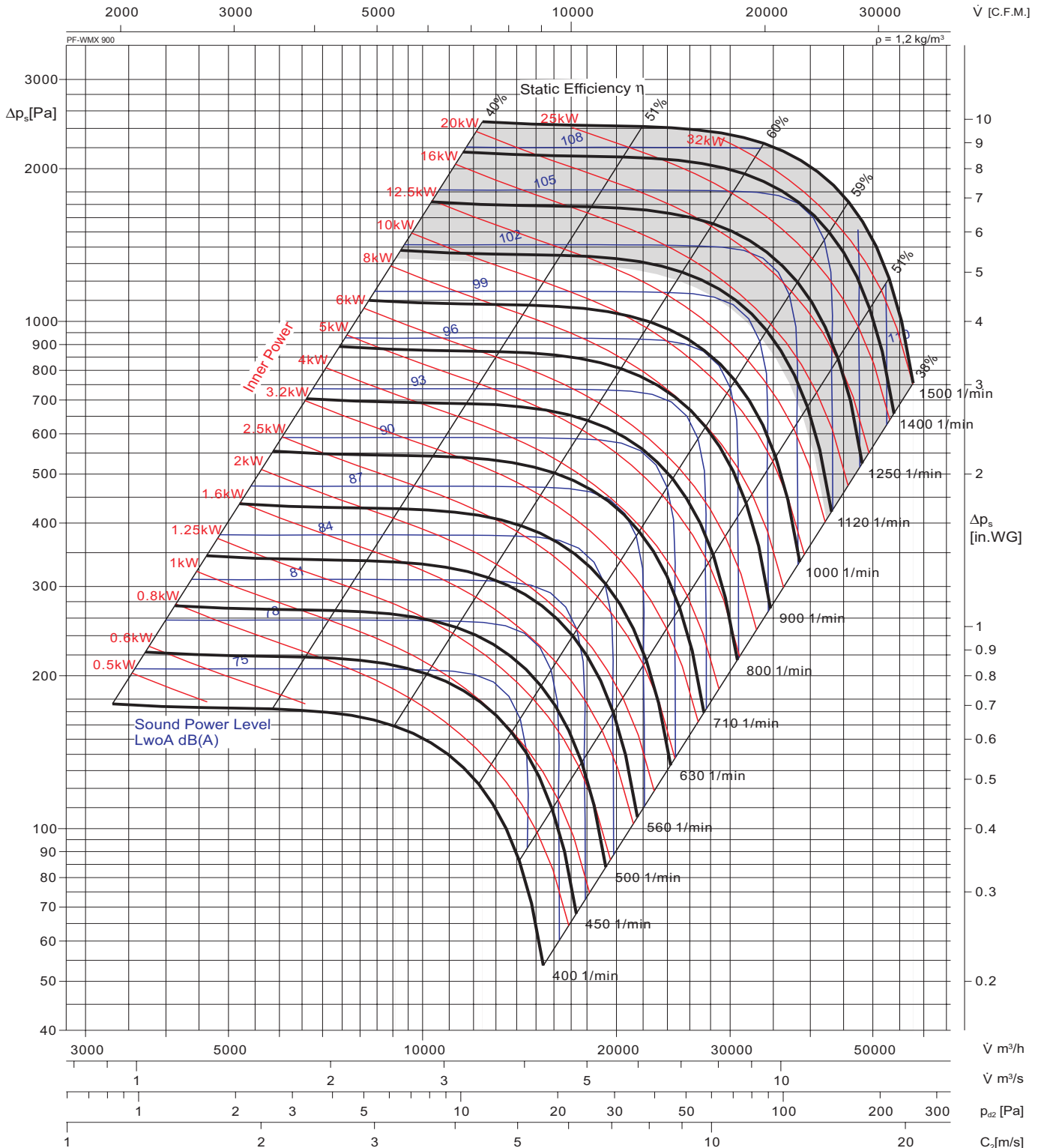
Oktavb. -Mittenfreq. / Octave b. midfreq. [Hz]							
63	125	250	500	1K	2K	4K	8K
-2	-7	-8	-13	-15	-19	-25	-28

*Test Method per AMCA 210 with one side open.

Kanalventilator- In-Line Mixed Fan



PF-WMX 900



Drehzahl max. $n_{\max} = 1100 \text{ min}^{-1}$
Drehzahl max. verst. $n_{\text{mv}} = 1500 \text{ min}^{-1}$
Laufreddurchmesser $D_3 = 905 \text{ mm}$

Relative Frequenzspektren
relative frequency spectrum ΔL in dB/Okt

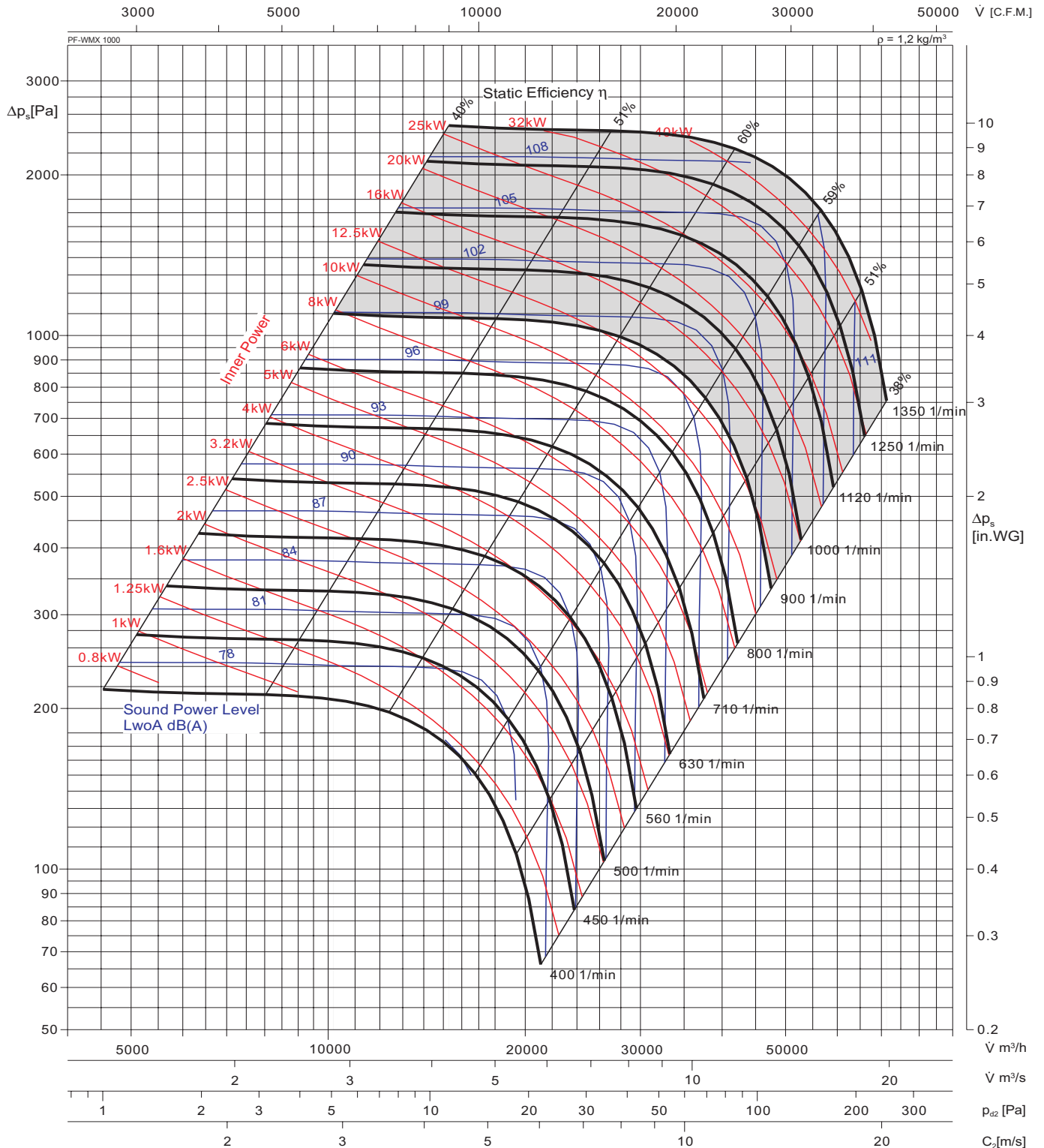
Oktavb. -Mittelfreq. / Octave b. midfreq. [Hz]							
63	125	250	500	1K	2K	4K	8K
-2	-7	-8	-13	-15	-19	-25	-28

*Test Method per AMCA 210 with one side open.

Kanalventilator- In-Line Mixed Fan



PF-WMX 1000



Drehzahl max. $n_{max} = 900 \text{ min}^{-1}$
Drehzahl max. verst. $n_{mv} = 1350 \text{ min}^{-1}$
Laufreddurchmesser $D_3 = 1000 \text{ mm}$

Relative Frequenzspektren
relative frequency spectrum ΔL in dB/Okt

Oktavb. -Mittenfreq. / Octave b. midfreq. [Hz]							
63	125	250	500	1K	2K	4K	8K
-2	-7	-8	-13	-15	-19	-25	-28

*Test Method per AMCA 210 with one side open.

Wolter Sales Network

Inland

Ing. Günther Rößler
D-07619 Schkölen
Tel. (+49) 03 66 94 / 22 359
Fax (+49) 03 66 94 / 22 357
guenther.roessler@wolterfans.de

Mattias Industrievertretungen
D-16259 Bad Freienwalde
Tel. (+49)03344/301994
Fax (+49)03344/301996
thomas.mattias@wolterfans.de

Industrieservice Drexler
D-49080 Osnabrück
Tel. (+49) 0 541 / 20 04 88 3
Fax (+49) 0 541 / 20 04 88 4
wolfgang.drexler@wolterfans.de

Burkhardt Projekt GmbH
D-67583 Guntersblum
Tel. (+49) 0 62 49 / 82 01
Fax (+49) 0 62 49 / 88 58
info@bp-wolter.de

Friedrich Glock
D-97980 Bad Mergentheim
Tel. (+49) 0 79 31 / 37 44
Fax (+49) 0 79 31 / 28 58
friedrich.glock@wolterfans.de

Europe

Danmark:

Air-Con Danmark A/S
DK-8400 Ebeltoft
Tel. (+45)086/345111
Fax (+45)086/345810
jbj@air-con.dk

Hungary:

Air-Technik Légtechnikai Kft.
HU-2040 Budaörs
Tel. (+36)023/428533
Fax (+36)023/428544
bp.air-technik@troges.hu

Ireland:

Finheat Ltd.
IE-Dublin 12, Walkinstown
Tel. (+353)01/4564066
Fax (+353)01/4564071
sales@finheat.com

Lithuania:

JSC Saldos Prekyba
LT-78109 Siauliai
Tel. (+37)041/540212
Fax (+37)041/596176
prekyba@salda.lt

Netherlands:

AirFan B. V.
NL-7442 CX Nijverdal
Tel. (+31)054/8366366
Fax (+31)054/8365320
ventilatie@airfan.nl

Rucon B. V. Ventilatoren
NL-3840 AG Harderwijk
Tel. (+31)034/1411670
Fax (+31)034/1411690
verkoop@rucon.nl

Österreich:

Wolter Werksvertretung Österreich
A-4040 Linz
Tel. (+43) 07 32 / 75 77 07
Fax (+43)07 32 / 75 77 07 75
wolter.linz@aon.at

Poland:

Wentoprodukt
44-100 Gliwice
Tel. (+48)32 331-34-24
Fax (+48)32 729-76-53
biuro@wentoprodukt.pl

Portugal:

Safe Park Ventilação Industrial Lda.
P-2675-240 Odiveelas
Tel. (+351) 21 93 / 75 265
Fax (+351) 21 93 / 86 061
safepark@netcabo.pt

Russia:

Euroclimat-Prof
RU-107082 Moskau
Tel. (+7) 4 95 / 97 57 530
Fax (+7) 4 95 / 97 57 530
gso@euroclimat.ru

Schweiz:

Anson AG Zürich
CH-8055 Zürich
Tel. (+41) 0 44 / 46 11 111
Fax (+41) 0 44 / 46 13 111
info@anson.ch

Ventra Technik AG
CH-8599 Salmisach
Tel. (+41) 0 71 / 46 11 447
Fax (+41) 0 71 / 46 11 448
ventra@bluewin.ch

Turkey:

Air Trade Centre Ltd Sti Türkiye,
TR-34418 Seyrantepe / Istanbul
Tel. (+90) 02 12 / 28 34 510
Fax (+90) 02 12 / 27 83 964
atc.turkey@airtradecentre.com

United Kingdom:

Wolter UK Ltd.
GB-B37 7UQ Solihull
Tel. (+44) 01 21 / 63 55 390
Fax (+44) 01 21 / 63 55 391
info@wolteruk.com

Middle East and North Africa

Egypt:

Tiba Engineering Industries Co.
Nasr City, Cairo
Tel. (+2) 02 / 40 22 866
Fax (+2) 02 / 40 44 771
tibaengineering@manz-group.com

Israel:

Lea Ventilation Industries Ltd.
IL-27113 Kiriyyat-Bialik, Israel
Tel. (+972) 0 48 / 76 23 57
Fax (+972) 0 48 / 76 20 51
mail@lea.co.il

United Arab Emirates, Kuwait, Lebanon:

Wolter Ventilation LLC
Energy International
P.O. Box 3562 Sharjah, UAE
Tel. (+971) 06 / 53 43 477
Fax (+971) 06 / 53 43 756
energysh@emirates.net.ae

Asia

China Mainland:

Taizhou Wolter Ventilation Co. Ltd.
Hengjite, Luqiao District
Taizhou City, Zhejiang
Tel. (+86) 576 / 26 22 666 (26 52 888)
Fax (+86) 576 / 26 56 830

Hongkong:

Wolter Asia Ltd.
Hong Kong
Tel. (+852) 0 24 / 56 01 98
Fax (+852) 0 24 / 56 02 90
info@wolter.com.hk

India:

Wolter Ventilators India Pvt. Ltd.
867 D, Block-A, Sushant Lok, Phase-I,
Gurgaon - 122009 (Haryana)
Tel. +91 124 2577797, 4261001-3
sales@wolterindia.in

Indonesia:

PT. Agung Kipas Kastara.
ID-14440 Jakarta Indonesia
Tel. +62 (0) 21 / 6667 6925, 6667 6926
Fax +62 (0) 21 / 6667 6927
indowolter@cbn.net.id

Korea:

Kaceco-Wolter
14-1, Dang-dong, Gunpo-shi, Gyeonggi-do
Tel. +82 (0) 31 / 4773 104
Fax +82 (0) 31 / 4773 132
wolter@kaceco.com / info@kaceco.com

Malaysia:

Vibrantech (M) Sdn Bhd.
47200 Petaling Jaya Selangor, Malaysia
Tel. +603 (0) 7847 3500
Fax +603 (0) 7847 3380
sales@vibrantech-sb.com

Singapore:

Wolter Pte. Ltd.
SG-569738 Singapore
Tel. (+65) 0 63 / 52 95 48
Fax (+65) 0 63 / 52 95 47
info@wolterfans.com.sg

Sri Lanka:

Sirocco Air Technologies (Pvt) Ltd.
28/12, Gemunu Mawatha, Kotuwegoda,
Rajagiriya, Sri Lanka
Tel. +94 11 7 392 010
Fax +94 11 7 392 015
suren@sairt.com

Taiwan:

Waxlink International Co., Ltd.
8F-2 No.218 Roosevelt Rd., Sec.6
Taipei, Taiwan
Tel. (+886) 02 / 8932 1196
Fax (+886) 02 / 8932 1197
waxlink@mail.waxlinktw.com

Thailand:

Wolter Ventilation Co., Ltd.
Thamai Kratumban Samutsakorn 74110
Thailand
Tel. +66 (0) 3486 6555
Fax +66 (0) 3486 6599
natiphan@wolterfan.com

Australia

The Sydney Fan Company.
NSW 2147, Sydney, Australia
Tel. +61 (0) 2 / 9624 4000
Fax +61 (0) 2 / 9624 4100
sales@thesydneyfancompany.com

Wolter GmbH Maschinen-und Apparatebau KG

Am Wasen 11
D-76316 Malsch / Germany
Tel. +49 (0) 7204/9201-0
Fax +49 (0) 7204/9201-11
www.wolter.eu
info@wolter.eu

