



Wolter Roof Fans

- WPH Series

Air in Motion.
Wolter Fans.

wolter 

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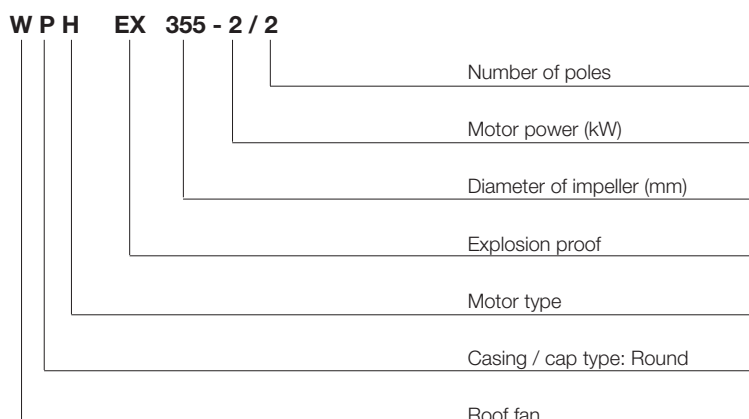
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Centrifugal Roof Fans

Technical information



Fan type code



Design Features

The roof fan is of the centrifugal type, using the plug fan impeller with high-strength aircraft-grade aluminum alloy casing. Compact structure, beautiful shape, the air flow smooth; fan can be installed in a variety of roofs, which can be accessed round or square flange or flashing installation. These fans are ideal for factory roof discharge.

Construction of Product

WPH Series fans mainly consist of the housing, impeller, motor, safety net, eliminator and gravity shutter.

Housing

Roof fan housing uses high-strength aluminum alloy to reduce weight. The Inlet and the base plate are made of stretch forming, for compact structure, beautiful shape, smooth airflow, and completely avoiding the problem of water creep.

Impeller

Backward aluminum alloy impeller with vaneless diffusion technology, effectively to improve the efficiency of the fan. Impeller hub uses the way of locking sleeve, to make the impeller fitted with the motor gapless, so it can end capping minimize the assembly error caused by impeller hub fitting with motor shaft, to avoid the destruction of the balance, improve the grade of balance.

Motor

WPH series is equipped with standard motor of insulation class F, ingress protection IP54, continuous operation temperature ranges from -20°C to 40°C

Safety Net and Eliminator

WPH Series fans use high-grade stainless steel wire

Gravity Shutter

High-grade aluminum alloy louvers mounted on the flashing, the size can be determined according to the size of the flashing. It can effectively prevent air reflux.

Performance curves

The performance curves have been established using the outlet test method in the test chamber according to AMCA 210 Figure 15 installation type C (ducted inlet, free outlet).

The curves indicate as a function of the volume flow:

- the total pressure increase Δp_{tot} for constant speed (heavy black lines)
- constant lines of shaft power PW (green Lines)
- constant lines of sound power level LwA (blue lines)

All values relate to an air density:

$$\rho = 1,2 \text{ kg/m}^3 \text{ at } 20^\circ\text{C}$$

The dynamic pressure p_{q2} stated in the diagrams refer to the flange cross section of the outlet connection pieces.

Sound levels

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

The ascertaining of the sound power level follows the reverberant room method according to AMCA 300 Figure 3.

The sound power levels shown on each performance curve, LwA, refer to the overall sound power "A-Weighted" levels. The computed sound power levels were converted into A-Weighted levels using adjustments to the octave band spectrum as follows:

Hz	63	125	250	500	1000	2000	4000	8000
Adjustment dB(A)	-26.2	-16.1	-8.6	-3.2	0	+1.2	+1.0	-1.1

The overall sound pressure levels, LpA, can be calculated from the overall sound power levels as follows:

$$1) \text{ Free Field Conditions: } LpA = LwA - (20 \log_{10} d) - 11$$

$$2) \text{ Room Conditions: } LpA = LwA - (20 \log_{10} d) - 7$$

Where: d = distance from fan in meters.



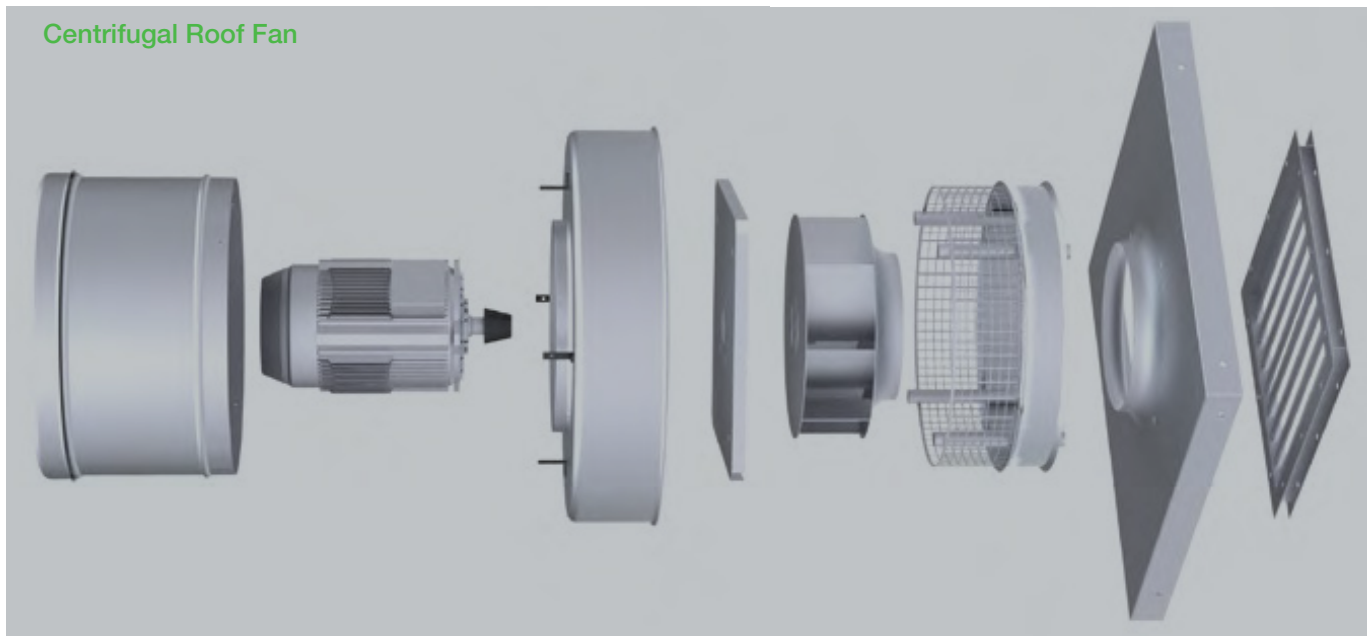
Installation and Maintenance

- ▶ The installed base should be above the roof, surface should be smooth to prevent leakage, and with good anchor bolts embedded.
- ▶ Between the fan base and the base layer, 5mm rubber plate should be installed to reduce vibration; anchor bolts should be fitted with spring washers to prevent loosening when used.
- ▶ Detailed inspection of all components before the fan begins to run. The rotating impeller should not be chafed.
- ▶ During the initial stage of commissioning, first check that the impeller rotation direction is correct (looking down the impeller should rotate counter-clockwise).
- ▶ During the commissioning or normal usage the fan voltage, current, vibration, noise should be within the normal range.
- ▶ During operation, the fan should be immediately shut down and the problems identified if the following issues occur:
 - 1) A strong vibration
 - 2) An abnormal noise or the sound of a sudden increase
 - 3) Motor fume-offs
 - 4) Motor bearing temperature rise too high.
- ▶ When the throttle is the electric damper, it should open the throttle first when fan runs; turn off the fan and then shut down the fan.
- ▶ Began operation 72 hours and should be checked every six months, to make sure that the fan connectors, fasteners are tight, then adjust the belt tension, append lubrication (grease).
- ▶ In case of snowing, freezing date, the fan must often be switched on to prevent heavy snow blocking the fan's outlet.
- ▶ It should be re-checked after long term shutdown.

Instructions

- ▶ When placing the order, it is necessary to state the type of fan, speed, air volume, air pressure, discharge direction, rotation direction, type of electric motor and its specifications.
- ▶ Prior to installation, the fan should be carefully inspected. Special care should be taken in checking the shaft, impeller and bearings. If there is an indication of any damage, the damaged parts should be repaired or replaced before the fan is installed or commissioned.
- ▶ The inside of the scroll and casing need to be checked to make sure that there are no foreign objects inside the housing, such as tools or loose parts.
- ▶ The rotational directions of the motor and impeller should be checked to ensure that they are in compliance with the specification and purchase orders.
- ▶ A flexible connector should be used between the fan out let flange and its mating ductwork. The flex connector should not be over-stretched.
- ▶ Following the installation, the impeller should be turned by hand or with the use of a wrench to make sure that it turns freely without colliding with other parts of the fan. Once all this is done, the fan can be commissioned normally.
- ▶ The rated motor power as calculated herein might not be sufficient to drive the fan with an unrestricted discharge flow. Operating the fan with an unrestricted discharge outlet will result in flow rate that exceeds the specified fan capabilities. Such operation will quickly burn the motor and damage the fan. Great care must be taken in operating the fan to make sure that the maximum rated flows, as provided on the performance charts in this catalog, are not exceeded.
- ▶ The fan is limited for use in areas where air substances are non-corrosive, non-toxics and non-erosive and where dust particles are less than 150mg/m³ with a temperature between -20°C and 40°C. Special care should be taken during transportation, load and unload.

Centrifugal Roof Fan



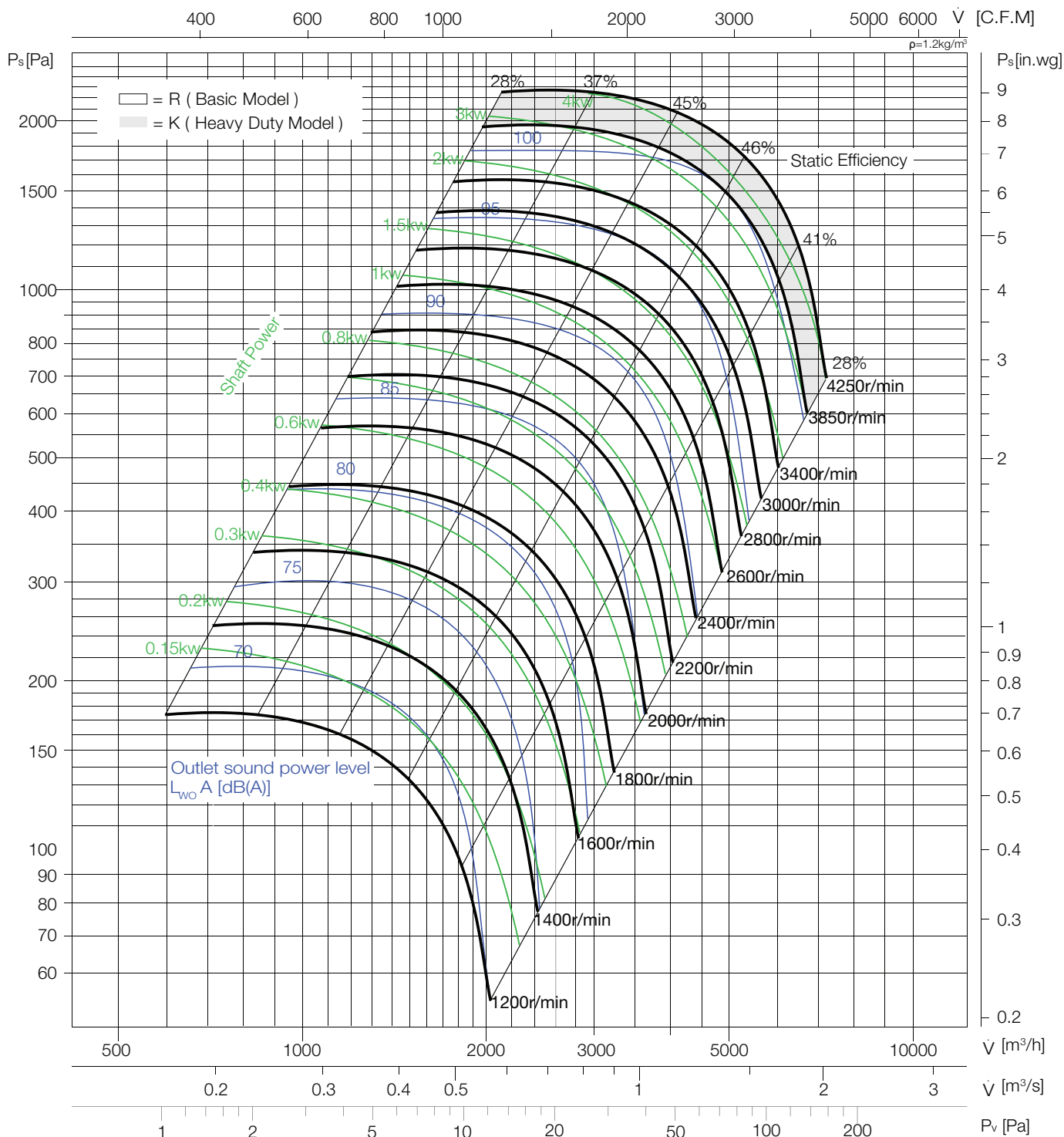
Performance Curve

WPH 315



Impeller diameter	D = 315 mm
Moment of inertia	J = 0.053 kgm ²

Fan Weight (w/o motor)	G =	16	kg
Speed Limit	n_{max} =	4250	1/min



Relative A sound power level for inlet side $L_{wi}(A)$ at octave centre frequencies in Δ dB

Static Efficiency %	Hz	63	125	250	500	1000	2000	4000	8000
28	dB	-25	-16	-12	-5	-6	-6	-12	-13
37	dB	-25	-16	-12	-5	-6	-6	-12	-13
45	dB	-28	-20	-12	-5	-6	-5	-11	-14
46	dB	-28	-21	-12	-6	-6	-5	-11	-13
41	dB	-28	-23	-15	-7	-5	-4	-11	-20
28	dB	-29	-25	-18	-8	-5	-4	-12	-29

Relative A sound power level for outlet side $L_{wo}(A)$ at octave centre frequencies in ΔdB

Centre frequencies in ΔB							
63	125	250	500	1000	2000	4000	8000
-20	-14	-11	-5	-6	-7	-13	-14
-18	-14	-10	-5	-6	-7	-13	-14
-20	-15	-9	-5	-7	-7	-13	-16
-19	-15	-8	-6	-6	-7	-12	-14
-18	-17	-12	-6	-5	-5	-12	-21
-18	-18	-14	-7	-5	-4	-13	-29

Fan tested in an accredited laboratory by AMCA according to AMCA 210, Figure 15. Performance is for installation type C: ducted inlet, free outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of housing and accessories.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet L_{WA} sound power levels for installation type C: ducted inlet, free outlet.

Centrifugal Roof Fan

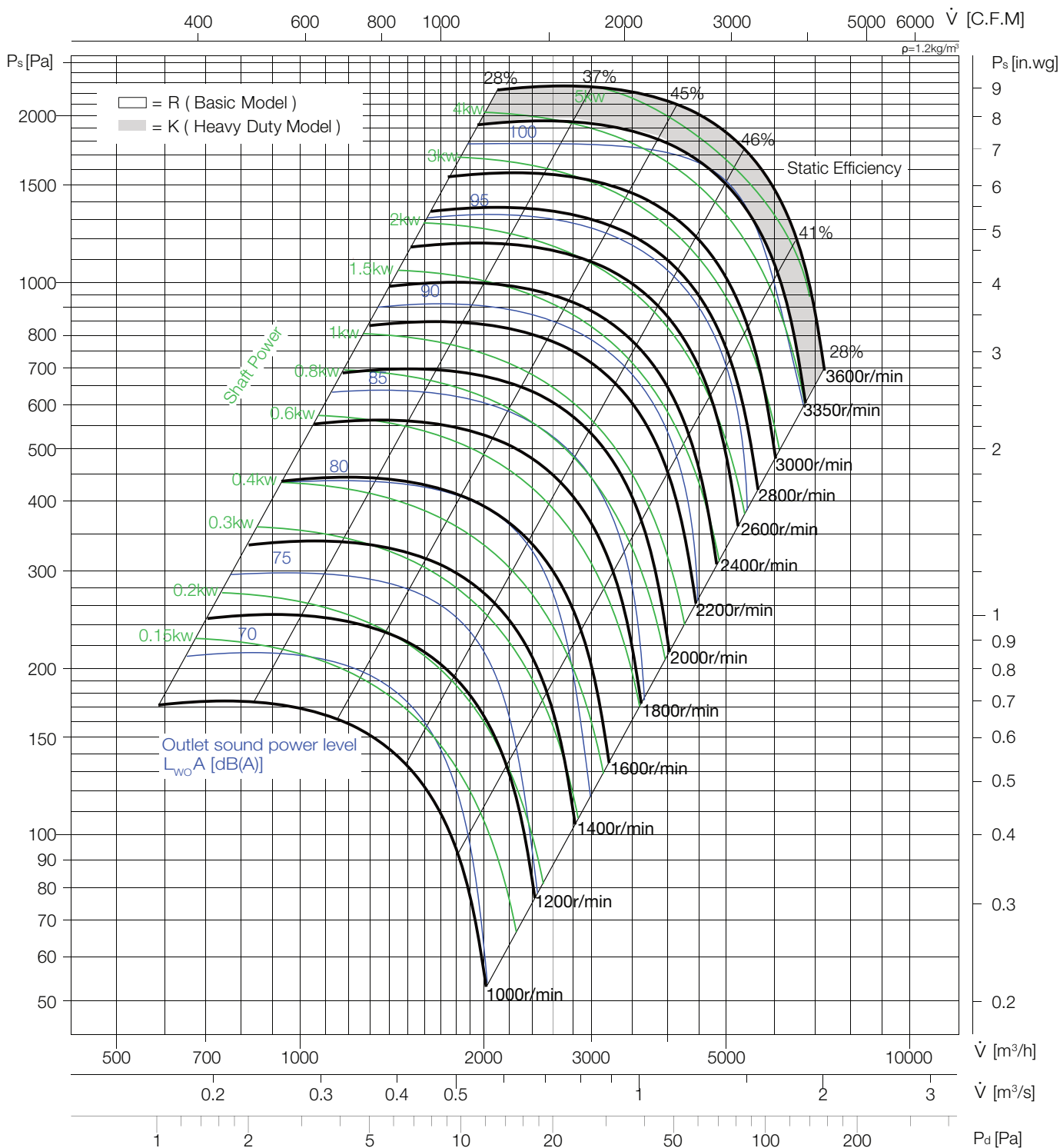
Performance Curve

WPH 355



Impeller diameter	D =	355	mm
Moment of inertia	J =	0.102	kgm ²

Fan Weight (w/o motor)	G =	18	kg
Speed Limit	n_{max} =	3600	1/min



Relative A sound power level for inlet side $L_{wi}(A)$ at octave centre frequencies in Δ dB

Static Efficiency %	Hz	63	125	250	500	1000	2000	4000	8000
28	dB	-25	-16	-12	-5	-6	-6	-12	-13
37	dB	-25	-16	-12	-5	-6	-6	-12	-13
45	dB	-28	-20	-12	-5	-6	-5	-11	-14
46	dB	-28	-21	-12	-6	-6	-5	-11	-13
41	dB	-28	-23	-15	-7	-5	-4	-11	-20
28	dB	-29	-25	-18	-8	-5	-4	-12	-29

Relative A sound power level for outlet side $L_{wo}(A)$ at octave centre frequencies in Δ dB

63	125	250	500	1000	2000	4000	8000
-20	-14	-11	-5	-6	-7	-13	-14
-18	-14	-10	-5	-6	-7	-13	-14
-20	-15	-9	-5	-7	-7	-13	-16
-19	-15	-8	-6	-6	-7	-12	-14
-18	-17	-12	-6	-5	-5	-12	-21
-18	-18	-14	-7	-5	-4	-13	-29

Fan tested in an accredited laboratory by AMCA according to AMCA 210, Figure 15. Performance is for installation type C: ducted inlet, free outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of housing and accessories.

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Centrifugal Roof Fan

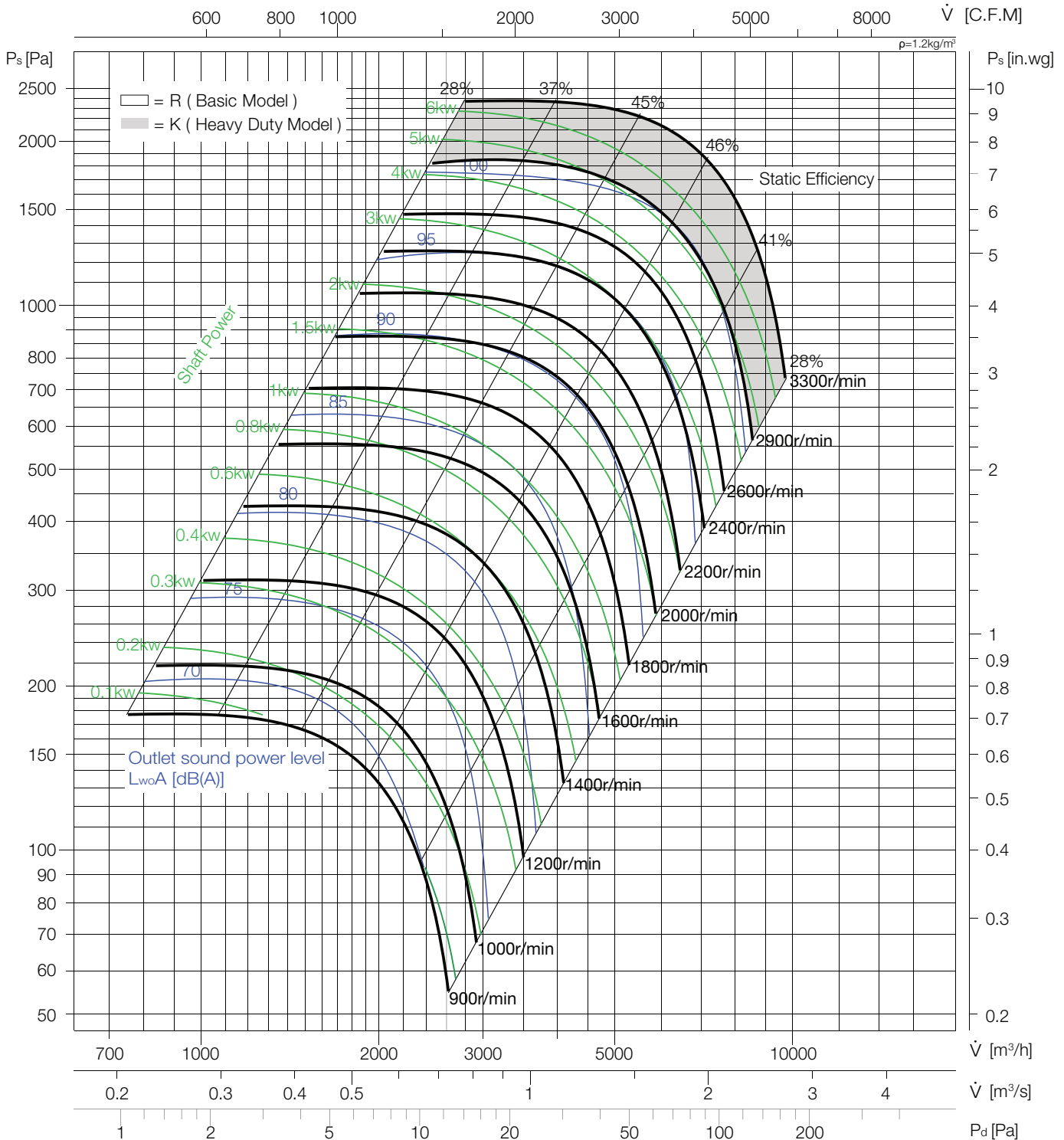
Performance Curve

WPH 400



Impeller diameter	D = 400 mm
Moment of inertia	J = 0.162 kgm ²

Fan Weight (w/o motor)	G = 25 kg
Speed Limit	n_{max} = 3300 1/min



Relative A sound power level for inlet side $L_{wi}(A)$ at octave centre frequencies in Δ dB

Static Efficiency %	Hz	63	125	250	500	1000	2000	4000	8000
28	dB	-25	-16	-12	-5	-6	-6	-12	-13
37	dB	-25	-16	-12	-5	-6	-6	-12	-13
45	dB	-28	-20	-12	-5	-6	-5	-11	-14
46	dB	-28	-21	-12	-6	-6	-5	-11	-13
41	dB	-28	-23	-15	-7	-5	-4	-11	-20
28	dB	-29	-25	-18	-8	-5	-4	-12	-29

Relative A sound power level for outlet side $L_{wo}(A)$ at octave centre frequencies in Δ dB

63	125	250	500	1000	2000	4000	8000
-20	-14	-11	-5	-6	-7	-13	-14
-18	-14	-10	-5	-6	-7	-13	-14
-20	-15	-9	-5	-7	-7	-13	-16
-19	-15	-8	-6	-6	-7	-12	-14
-18	-17	-12	-6	-5	-5	-12	-21
-18	-18	-14	-7	-5	-4	-13	-29

Fan tested in an accredited laboratory by AMCA according to AMCA 210, Figure15. Performance is for installation type C: ducted inlet, free outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of housing and accessories.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet L_{woA} sound power levels for installation type C: ducted inlet, free outlet.

Centrifugal Roof Fan

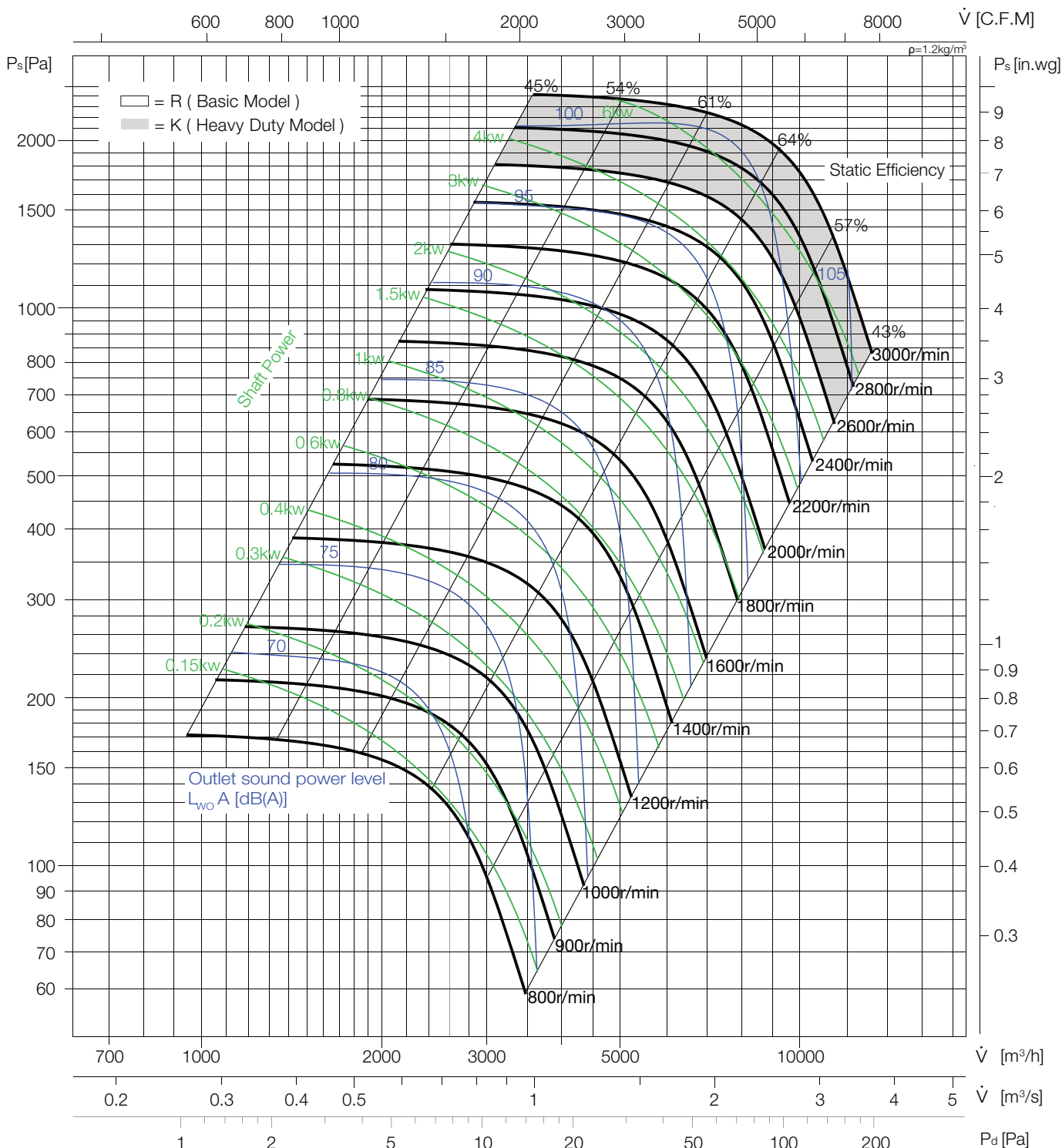
Performance Curve

WPH 450



Impeller diameter	D =	450	mm
Moment of inertia	J =	0.26	kgm ²

Fan Weight (w/o motor)	G =	35	kg
Speed Limit	n_{max} =	3000	1/min



Relative A sound power level for inlet side $L_{wi}(A)$ at octave centre frequencies in Δ dB

Static Efficiency %	Hz	63	125	250	500	1000	2000	4000	8000
45	dB	-33	-13	-9	-8	-4	-7	-14	-22
54	dB	-34	-15	-10	-7	-4	-7	-14	-22
61	dB	-35	-18	-12	-7	-4	-6	-13	-22
64	dB	-38	-23	-14	-7	-4	-6	-13	-22
57	dB	-40	-24	-14	-8	-4	-5	-12	-23
43	dB	-41	-25	-15	-8	-4	-5	-12	-24

Relative A sound power level for outlet side $L_{wo}(A)$ at octave centre frequencies in Δ dB

	63	125	250	500	1000	2000	4000	8000
	-28	-11	-8	-8	-4	-8	-15	-23
	-27	-12	-8	-7	-4	-7	-14	-23
	-27	-13	-8	-7	-4	-7	-15	-23
	-29	-17	-10	-7	-4	-7	-14	-23
	-30	-18	-11	-7	-4	-6	-13	-24
	-30	-18	-12	-7	-4	-5	-13	-24

Fan tested in an accredited laboratory by AMCA according to AMCA 210, Figure 15. Performance is for installation type C: ducted inlet, free outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of housing and accessories.

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Centrifugal Roof Fan

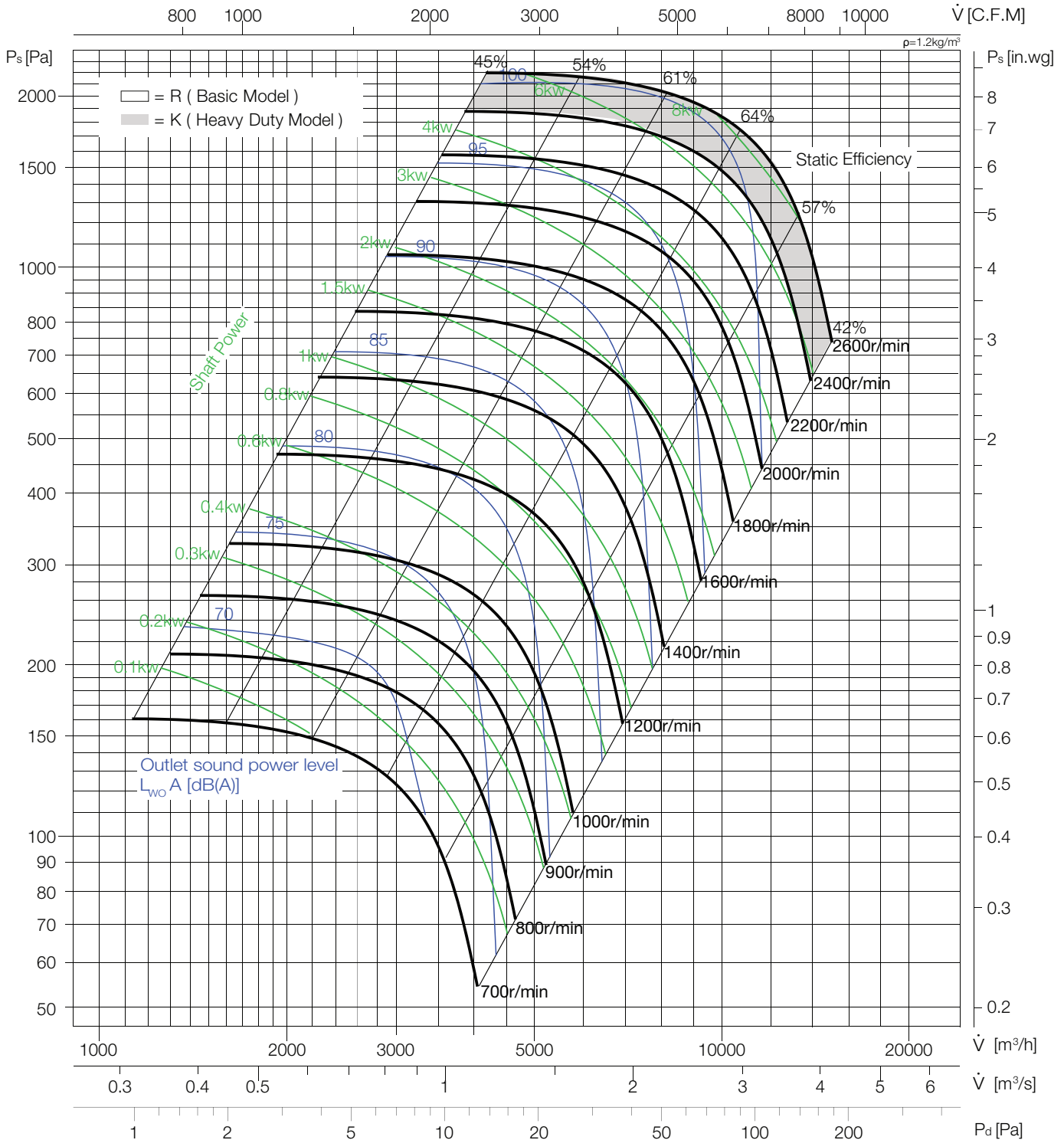
Performance Curve

WPH 500



Impeller diameter	D =	500	mm
Moment of inertia	J =	0.45	kgm ²

Fan Weight (w/o motor)	G =	39	kg
Speed Limit	n_{max} =	2600	1/min



Relative A sound power level for inlet side $L_{wi}(A)$ at octave centre frequencies in Δ dB

Static Efficiency %	Hz	63	125	250	500	1000	2000	4000	8000
45	dB	-33	-13	-9	-8	-4	-7	-14	-22
54	dB	-34	-15	-10	-7	-4	-7	-14	-22
61	dB	-35	-18	-12	-7	-4	-6	-13	-22
64	dB	-38	-23	-14	-7	-4	-6	-13	-22
57	dB	-40	-24	-14	-8	-4	-5	-12	-23
42	dB	-41	-25	-15	-8	-4	-5	-12	-24

Relative A sound power level for outlet side $L_{wo}(A)$ at octave centre frequencies in Δ dB

Centre frequencies in Hz							
63	125	250	500	1000	2000	4000	8000
-28	-11	-8	-8	-4	-8	-15	-23
-27	-12	-8	-7	-4	-7	-14	-23
-27	-132	-8	-7	-4	-7	-15	-23
-29	-17	-10	-7	-4	-7	-14	-23
-30	-18	-11	-7	-4	-6	-13	-24
-30	-18	-12	-7	-4	-5	-13	-24

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Centrifugal Roof Fan

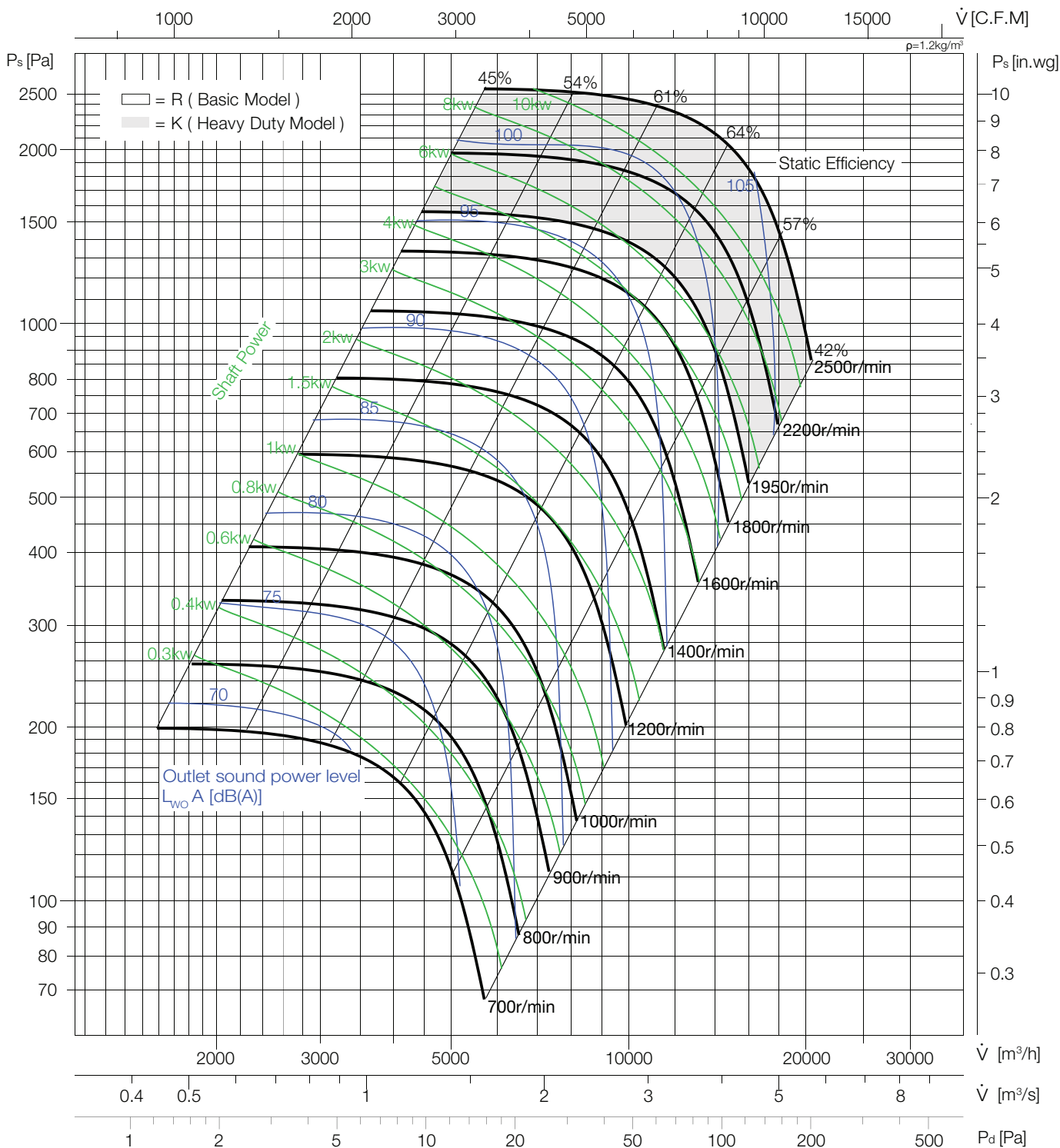
Performance Curve

WPH 560



Impeller diameter	D = 560 mm
Moment of inertia	J = 0.74 kgm ²

Fan Weight (w/o motor)	G = 52 kg
Speed Limit	n_{max} = 2500 1/min



Relative A sound power level for inlet side $L_{wi}(A)$ at octave centre frequencies in Δ dB

Static Efficiency %	Hz	63	125	250	500	1000	2000	4000	8000
45	dB	-33	-13	-9	-8	-4	-7	-14	-22
54	dB	-34	-15	-10	-7	-4	-7	-14	-22
61	dB	-35	-18	-12	-7	-4	-6	-13	-22
64	dB	-38	-23	-14	-7	-4	-6	-13	-22
57	dB	-40	-24	-14	-8	-4	-5	-12	-23
42	dB	-41	-25	-15	-8	-4	-5	-12	-24

Relative A sound power level for outlet side $L_{wo}(A)$ at octave centre frequencies in Δ dB

63	125	250	500	1000	2000	4000	8000
-28	-11	-8	-8	-4	-8	-15	-23
-27	-12	-8	-7	-4	-7	-14	-23
-27	-13	-8	-7	-4	-7	-15	-23
-29	-17	-10	-7	-4	-7	-14	-23
-30	-18	-11	-7	-4	-6	-13	-24
-30	-18	-12	-7	-4	-5	-13	-24

Fan tested in an accredited laboratory by AMCA according to AMCA 210, Figure 15. Performance is for installation type C: ducted inlet, free outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of housing and accessories.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet L_{woA} sound power levels for installation type C: ducted inlet, free outlet.

Centrifugal Roof Fan

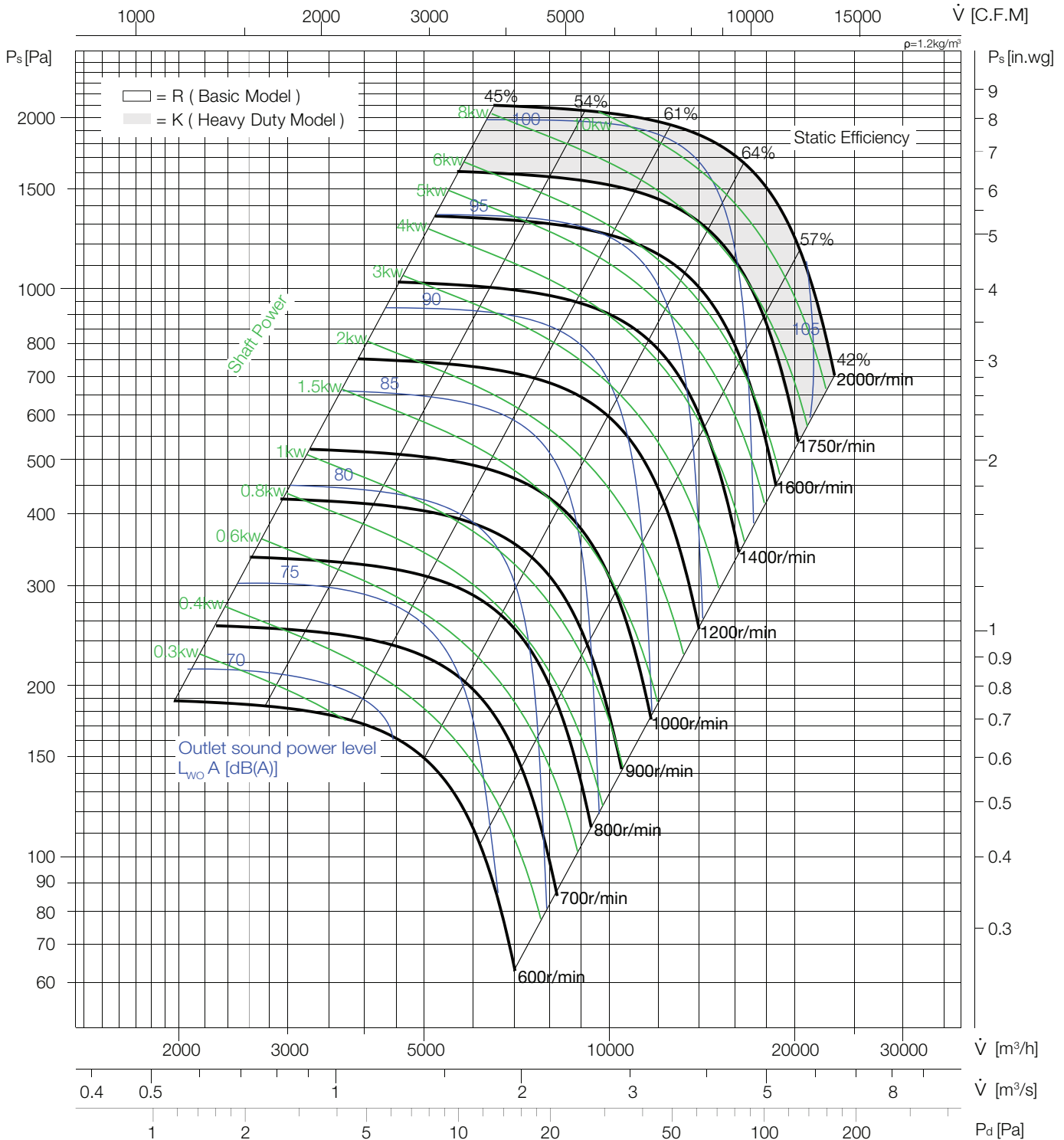
Performance Curve

WPH 630



Impeller diameter	D =	630	mm
Moment of inertia	J =	1.20	kgm ²

Fan Weight (w/o motor)	G =	62	kg
Speed Limit	n_{max} =	2000	1/min



Relative A sound power level for inlet side $L_{wi}(A)$ at octave centre frequencies in Δ dB

Static Efficiency %	Hz	63	125	250	500	1000	2000	4000	8000
45	dB	-33	-13	-9	-8	-4	-7	-14	-22
54	dB	-34	-15	-10	-7	-4	-7	-14	-22
61	dB	-35	-18	-12	-7	-4	-6	-13	-22
64	dB	-38	-23	-14	-7	-4	-6	-13	-22
57	dB	-40	-24	-14	-8	-4	-5	-12	-23
42	dB	-41	-25	-15	-8	-4	-5	-12	-24

Relative A sound power level for outlet side $L_{wo}(A)$ at octave centre frequencies in Δ dB

Centre frequencies in Hz								
63	125	250	500	1000	2000	4000	8000	
-28	-11	-8	-8	-4	-8	-15	-23	
-27	-12	-8	-7	-4	-7	-14	-23	
-27	-132	-8	-7	-4	-7	-15	-23	
-29	-17	-10	-7	-4	-7	-14	-23	
-30	-18	-11	-7	-4	-6	-13	-24	
-30	-18	-12	-7	-4	-5	-13	-24	

Fan tested in an accredited laboratory by AMCA according to AMCA 210, Figure 15. Performance is for installation type C: ducted inlet, free outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of housing and accessories.

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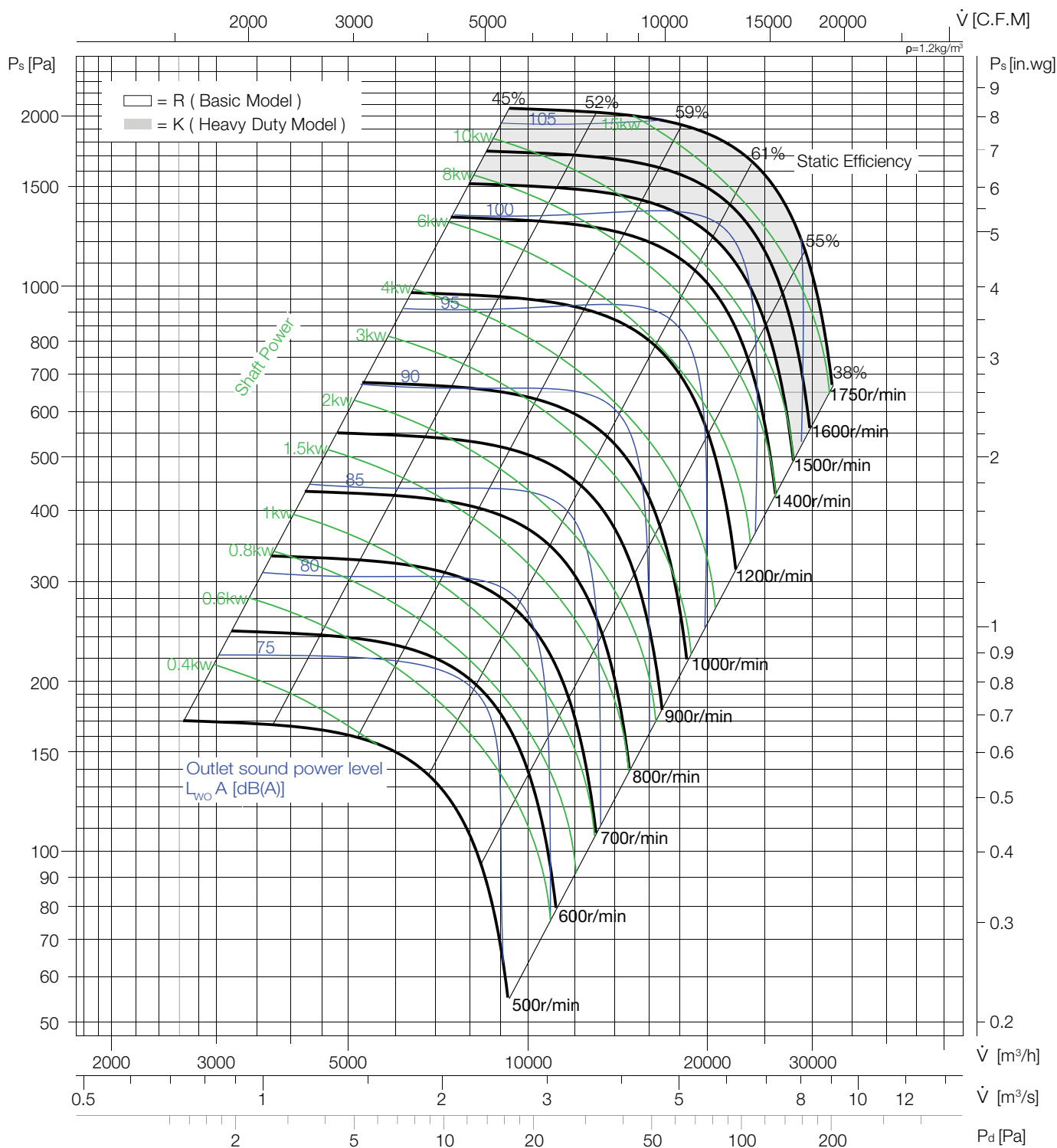
Performance Curve

WPH 710



Impeller diameter	D =	710	mm
Moment of inertia	J =	2.43	kgm ²

Fan Weight (w/o motor)	G =	75	kg
Speed Limit	n_{max} =	1750	1/min



Relative A sound power level for inlet side $L_{wi}(A)$ at octave centre frequencies in Δ dB

Static Efficiency %	Hz	63	125	250	500	1000	2000	4000	8000
45	dB	-18	-11	-7	-8	-7	-8	-10	-16
52	dB	-21	-11	-6	-8	-7	-8	-10	-15
59	dB	-18	-12	-7	-8	-6	-7	-9	-14
61	dB	-16	-12	-8	-9	-6	-7	-9	-14
55	dB	-15	-13	-9	-9	-6	-7	-8	-13
38	dB	-17	-15	-10	-10	-6	-7	-7	-12

Relative A sound power level for outlet side $L_{wo}(A)$ at octave centre frequencies in Δ dB

63	125	250	500	1000	2000	4000	8000
-26	-10	-9	-5	-4	-10	-16	-25
-25	-11	-9	-5	-5	-10	-16	-25
-25	-13	-8	-5	-5	-9	-15	-24
-26	-20	-10	-6	-5	-6	-11	-21
-28	-21	-12	-7	-5	-5	-10	-21
-31	-21	-12	-8	-6	-4	-11	-22

Fan tested in an accredited laboratory by AMCA according to AMCA 210, Figure 15. Performance is for installation type C: ducted inlet, free outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of housing and accessories.

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Centrifugal Roof Fan

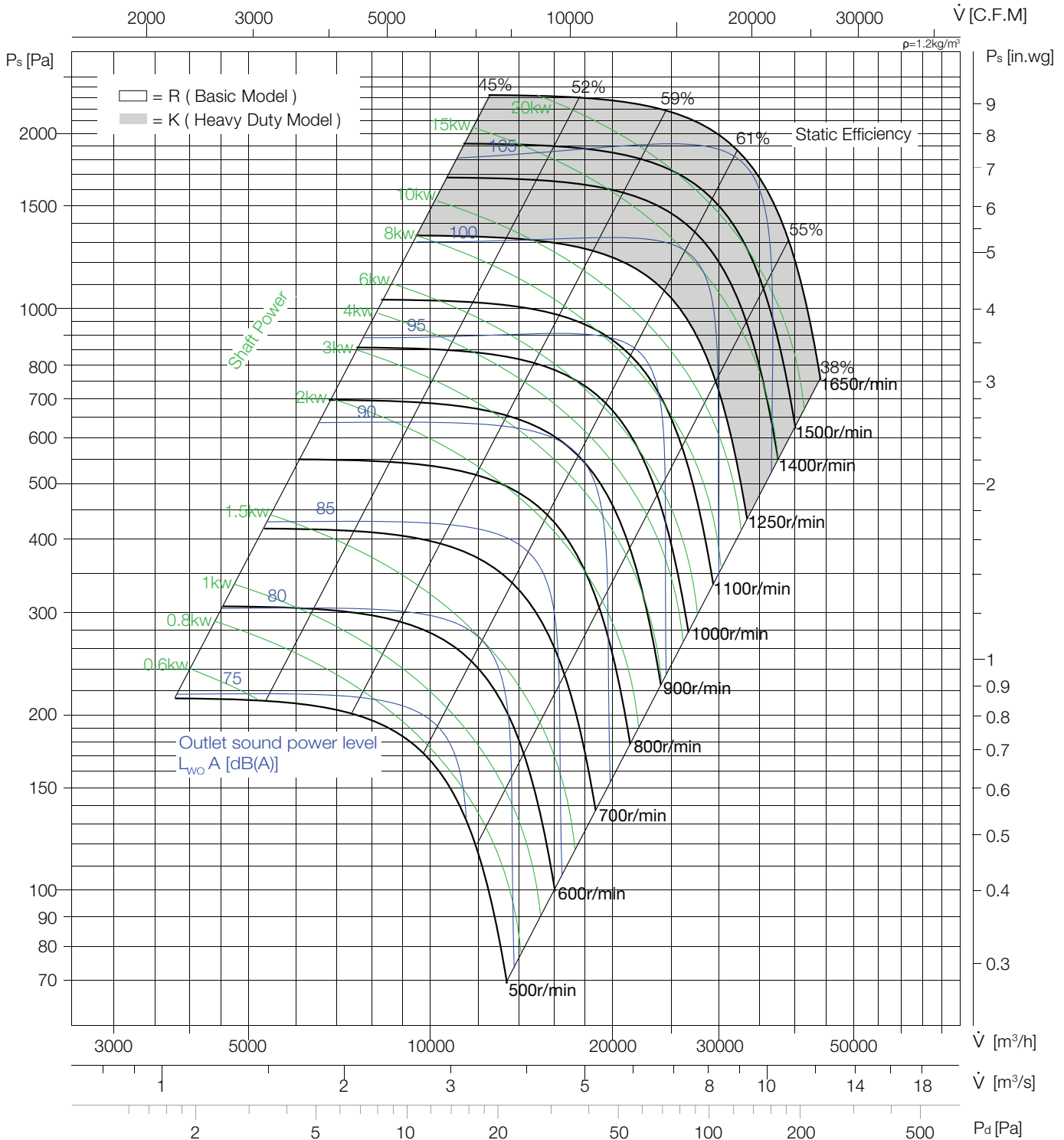
Performance Curve

WPH 800



Impeller diameter	D =	800	mm
Moment of inertia	J =	4.88	kgm ²

Fan Weight (w/o motor)	G =	96	kg
Speed Limit	n_{max} =	1650	1/min



Relative A sound power level for inlet side $L_{wi}(A)$ at octave centre frequencies in ΔdB

Static Efficiency %	Hz	63	125	250	500	1000	2000	4000	8000
45	dB	-18	-11	-7	-8	-7	-8	-10	-16
52	dB	-21	-11	-6	-8	-7	-8	-10	-15
59	dB	-18	-12	-7	-8	-6	-7	-9	-14
61	dB	-16	-12	-8	-9	-6	-7	-9	-14
55	dB	-15	-13	-9	-9	-6	-7	-8	-13
38	dB	-17	-15	-10	-10	-6	-7	-7	-12

Relative A sound power level for outlet side $L_{wo}(A)$ at octave centre frequencies in ΔdB

Centre frequencies in A/Ds							
63	125	250	500	1000	2000	4000	8000
-26	-10	-9	-5	-4	-10	-16	-25
-25	-11	-9	-5	-5	-10	-16	-25
-25	-13	-8	-5	-5	-9	-15	-24
-26	-20	-10	-6	-5	-6	-11	-21
-28	-21	-12	-7	-5	-5	-10	-21
-31	-21	-12	-8	-6	-4	-11	-22

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Centrifugal Roof Fan

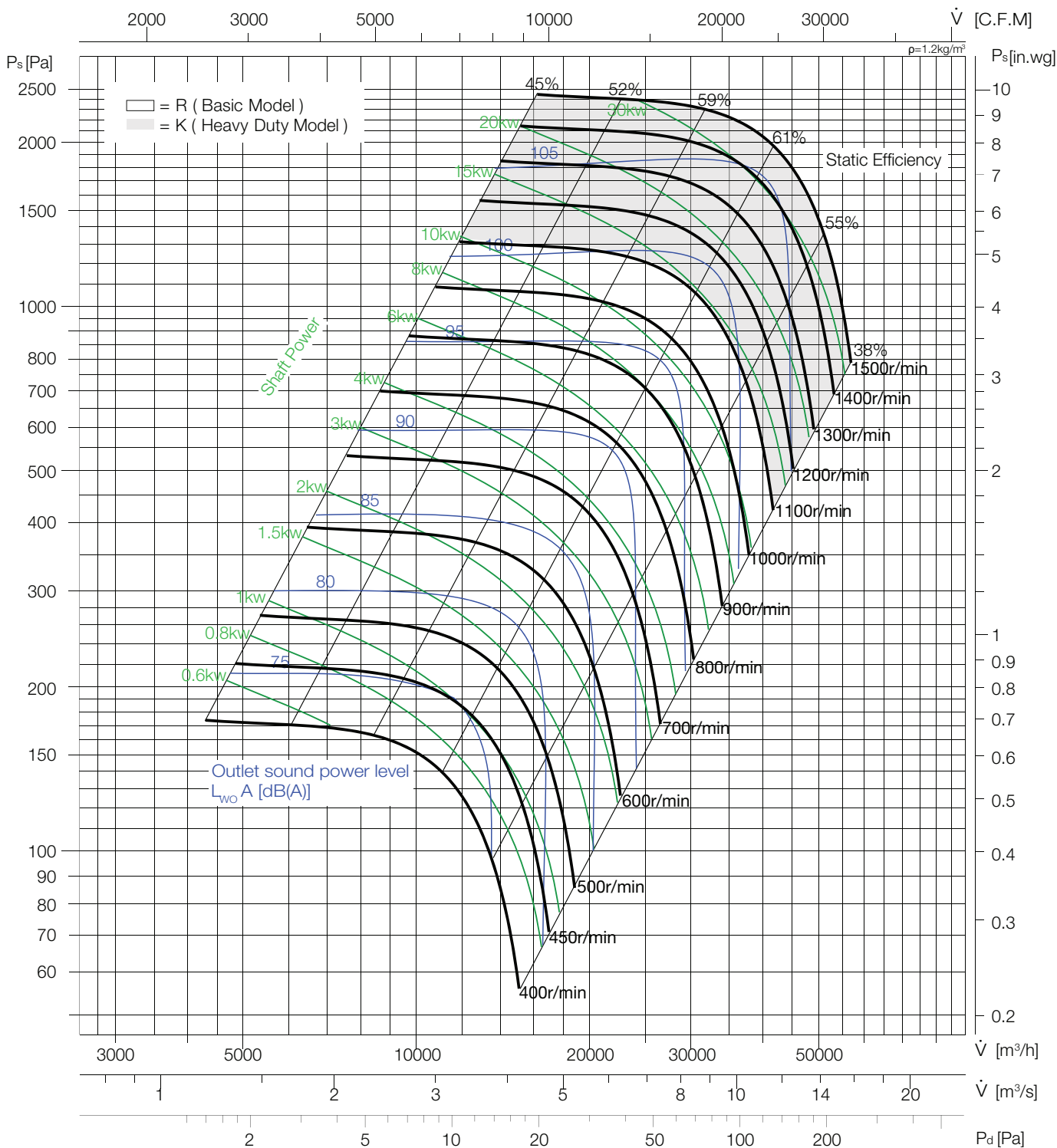
Performance Curve

WPH 900



Impeller diameter	D =	900	mm
Moment of inertia	J =	7.32	kgm ²

Fan Weight (w/o motor)	G =	120	kg
Speed Limit	n_{max} =	1500	1/min



Relative A sound power level for inlet side $L_{wi}(A)$ at octave centre frequencies in Δ dB

Static Efficiency %	Hz	63	125	250	500	1000	2000	4000	8000
45	dB	-18	-11	-7	-8	-7	-8	-10	-16
52	dB	-21	-11	-6	-8	-7	-8	-10	-15
59	dB	-18	-12	-7	-8	-6	-7	-9	-14
61	dB	-16	-12	-8	-9	-6	-7	-9	-14
55	dB	-15	-13	-9	-9	-6	-7	-8	-13
38	dB	-17	-15	-10	-10	-6	-7	-7	-12

Relative A sound power level for outlet side $L_{wo}(A)$ at octave centre frequencies in Δ dB

63	125	250	500	1000	2000	4000	8000
-26	-10	-9	-5	-4	-10	-16	-25
-25	-11	-9	-5	-5	-10	-16	-25
-25	-13	-8	-5	-5	-9	-15	-24
-26	-20	-10	-6	-5	-6	-11	-21
-28	-21	-12	-7	-5	-5	-10	-21
-31	-21	-12	-8	-6	-4	-11	-22

Fan tested in an accredited laboratory by AMCA according to AMCA 210, Figure 15. Performance is for installation type C: ducted inlet, free outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of housing and accessories.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet $L_{wo}A$ sound power levels for installation type C: ducted inlet, free outlet.

Centrifugal Roof Fan

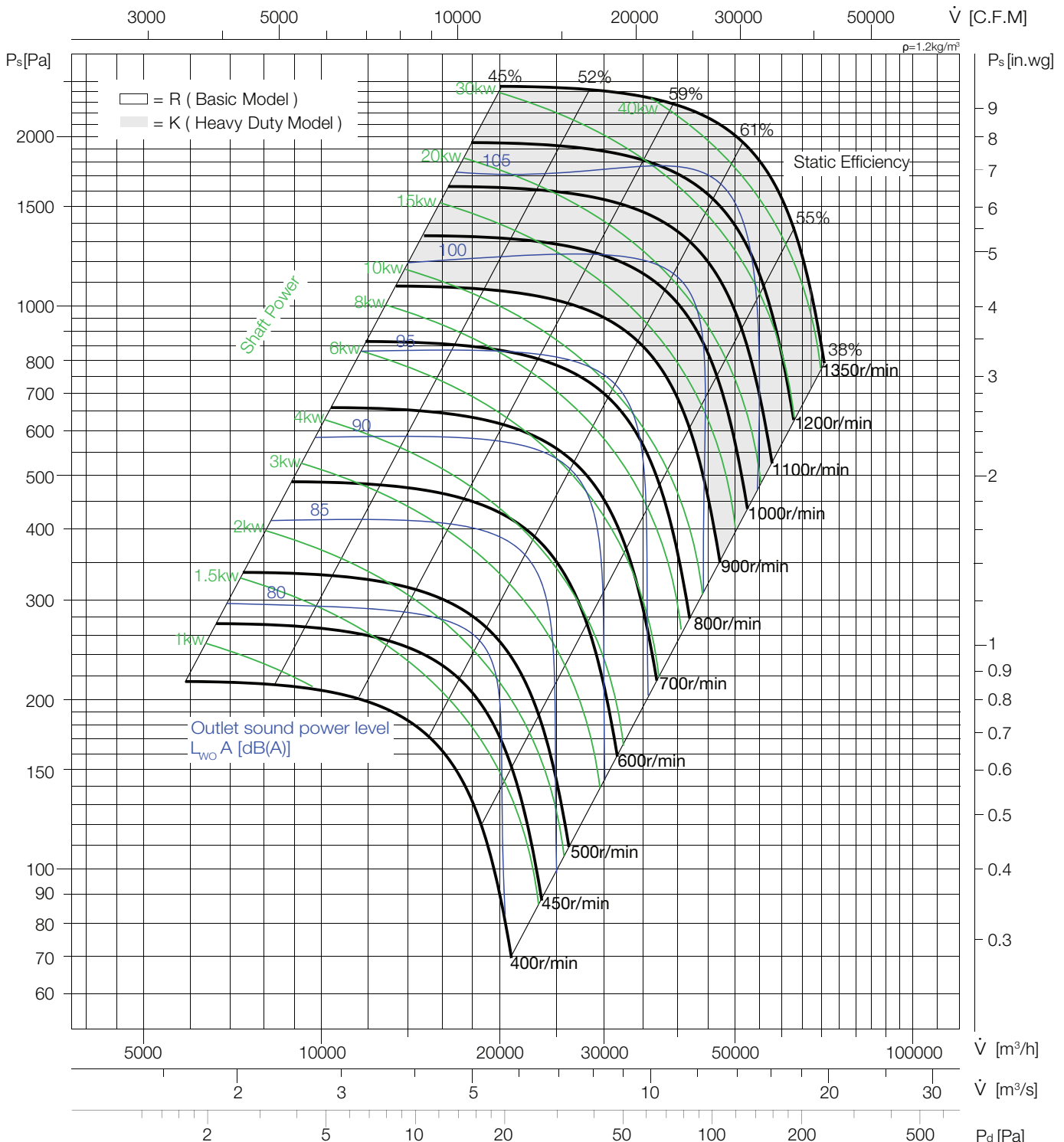
Performance Curve

WPH 1000



Impeller diameter	D =	1000	mm
Moment of inertia	J =	11.94	kgm ²

Fan Weight (w/o motor)	G =	146	kg
Speed Limit	n_{max} =	1350	1/min



Relative A sound power level for inlet side $L_{wi}(A)$ at octave centre frequencies in Δ dB

Static Efficiency %	Hz	63	125	250	500	1000	2000	4000	8000
45	dB	-18	-11	-7	-8	-7	-8	-10	-16
52	dB	-21	-11	-6	-8	-7	-8	-10	-15
59	dB	-18	-12	-7	-8	-6	-7	-9	-14
61	dB	-16	-12	-8	-9	-6	-7	-9	-14
55	dB	-15	-13	-9	-9	-6	-7	-8	-13
38	dB	-17	-15	-10	-10	-6	-7	-7	-12

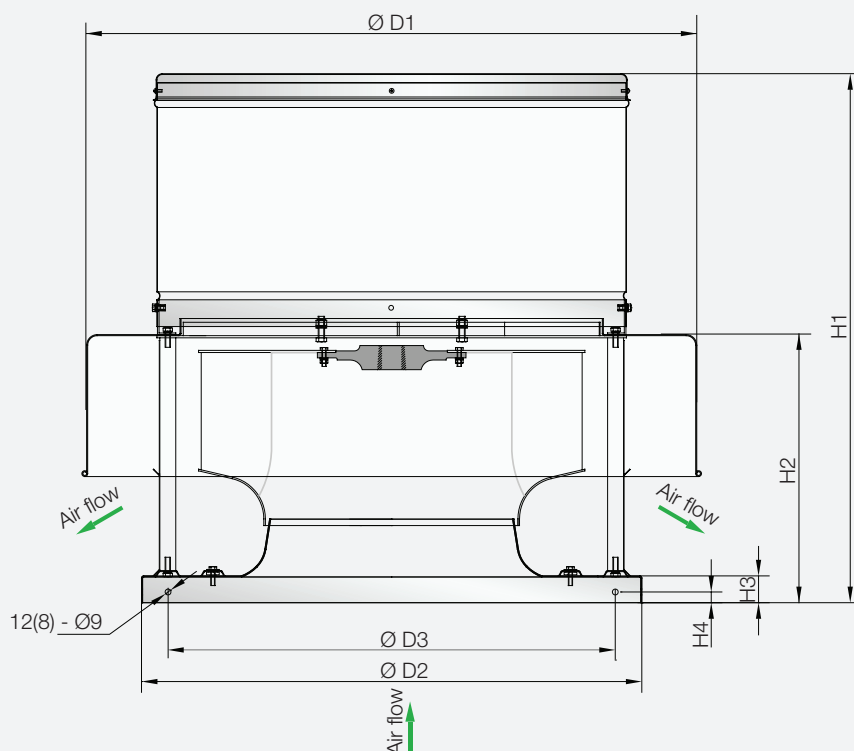
Relative A sound power level for outlet side $L_{wo}(A)$ at octave centre frequencies in Δ dB

	63	125	250	500	1000	2000	4000	8000
	-26	-10	-9	-5	-4	-10	-16	-25
	-25	-11	-9	-5	-5	-10	-16	-25
	-25	-13	-8	-5	-5	-9	-15	-24
	-26	-20	-10	-6	-5	-6	-11	-21
	-28	-21	-12	-7	-5	-5	-10	-21
	-31	-21	-12	-8	-6	-4	-11	-22

Fan tested in an accredited laboratory by AMCA according to AMCA 210, Figure15. Performance is for installation type C: ducted inlet, free outlet. Power rating (kW) does not include transmission losses. Performance ratings do not include the effects of housing and accessories.

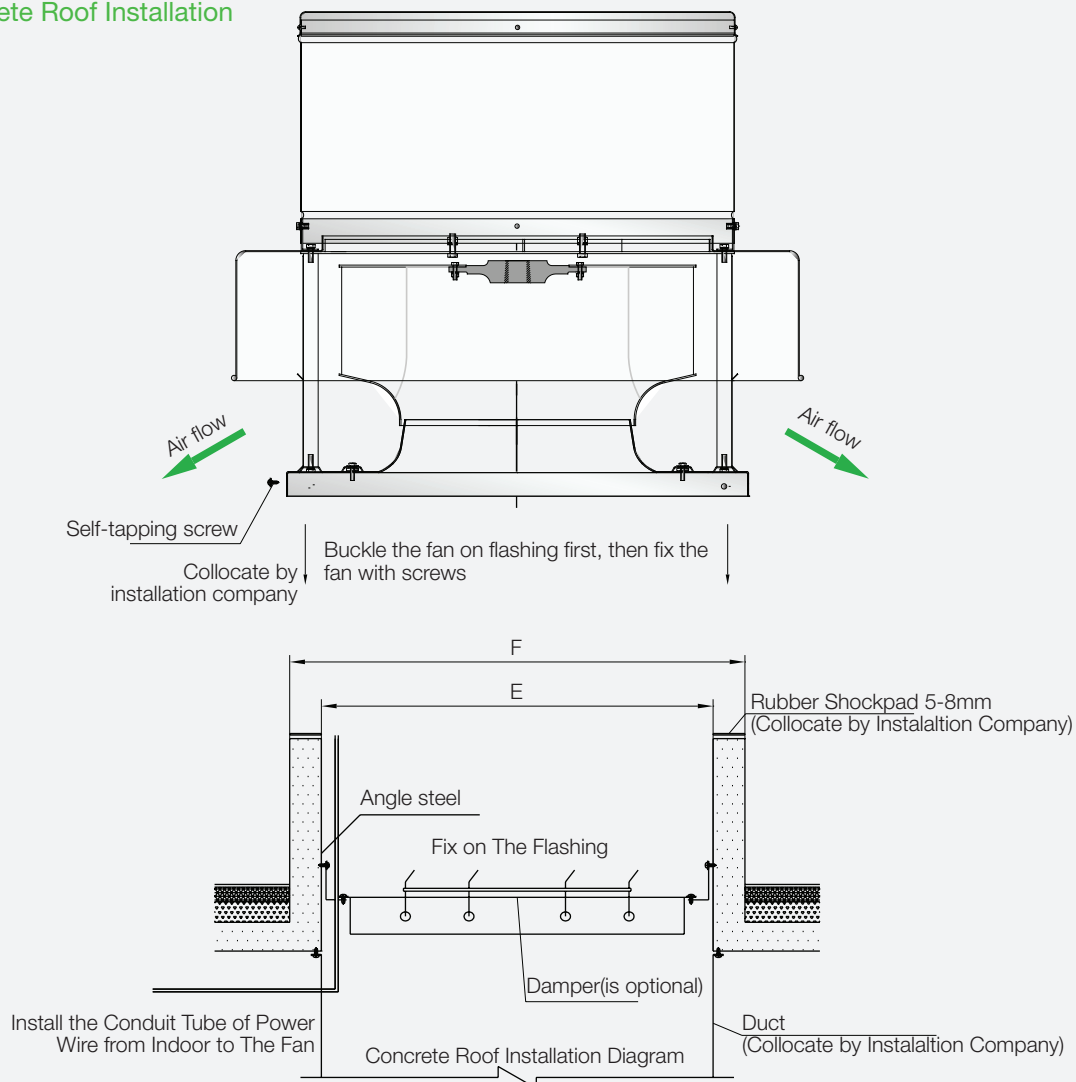
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for outlet $L_{wo}A$ sound power levels for installation type C: ducted inlet, free outlet.

WPH Series



Model size	D1 [mm]	D2 [mm]	D3 [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]
315	752	651	495	646	274	50	20
355	752	651	495	670	298	50	20
400	838	701	545	700	315	50	20
450	838	701	545	755	354	50	20
500	922	756	600	760	354	60	25
560	922	858	720	809	411	60	25
630	1098	896	720	850	452	60	25
710	1098	939	780	1000	510	60	25
800	1230	1080	921	1100	570	60	25
900	1440	1290	1132	1230	640	60	25
1000	1440	1448	1290	1400	698	60	25

WPH Concrete Roof Installation



Model size	E [mm]	F [mm]
315	485	645
355	485	645
400	535	695
450	535	695
500	590	750
560	692	852
630	730	890
710	773	933
800	914	1074
900	1124	1284
1000	1124	1284

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

Denmark:

Aircon Teknik A/S
DK-8200 Aarhus N
Tel. +45 (0) 86 / 34 51 11
Fax +45 (0) 86 / 34 58 10
post@airconteknik.dk

The Netherlands:

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

Poland:

Wentoprodukt
44-100 Gliwice
Tel. (+48)32 33 13 424
Fax (+48)32 72 97 653 75
biuro@wentoprodukt.pl

Russia:

Daichi Co. Ltd
RU-123022 Moscow
Tel. +7 (0) 495 / 73 73 733
Fax +7 (0) 495 / 73 73 732
info@daichi.ru

Switzerland:

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 Salmsach
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-Leicestershire LE65 1AL
Tel. (+44) 01530 / 412 473
info@wolteruk.com

Middle East and North Africa

Israel:

Pach Taas (Ashkelon) Ltd.
IL-78100 Ashkelon
Tel. (+972) 0 8 / 67 19 770
Fax (+972) 0 8 / 67 19 771
info@pachtaas.com

UAE, Qatar, Lebanon, Jordan, Saudi Arabia:

Energy International Co.
UAE-Sharjah, P.O. Box 3562
Tel. (+971) 06 / 53 43 477
Fax (+971) 06 / 53 43 756
fsalibi@energysgh.ae

Energy International Co.
P.O. Box 45217 Abu Dhabi, UAE
Tel. (+971) 2 67 11 10 8
Fax (+971) 2 67 69 669
amohsen@energyintl.ae

Energy International Co.(Dubai-Sharjah)
P.O. Box 3562 Sharjah, UAE
Tel. (+971) 65 34 34 77
Fax (+971) 65 34 37 56
fsalibi@energysgh.ae

Energy International Corporation
Malaz Area, Siteen Highway Beside BANK
ALBILAD Riyadh, Saudi Arabia
Tel. (+966) 14 15 39 59
msheet@energyintl.com

Energy International Corporation
P.O. Box 37364 Doha, Qatar
Tel. (+974) 45 80 765
Fax (+974) 45 81 126
aassi@energyintl.com

Energy International
234 Balbesi Bldg 2nd floor Al-Madinah,
Al Munawarah St Amman, Jordan
Tel. (+962) 65 67 19 15
Fax (+962) 65 67 19 16
eabuzahra@energyintl.com

Energy International & Engineering
Mar Roukoz Center-Block B - First Floor,
Hazmieh, Lebanon
Tel. (+961) 54 50 61 0
Fax (+961) 54 51 16 9
bsaab@energyintl.com

Asia

China Mainland:

Dongguan Wolter Chemco Ventilation Ltd.
Chemco Building, Miao Bian Wang Ind.
Shipai, Dongguan City, Guangdong
Tel. (+86) 0 769 / 8655 7298
Fax (+86) 0 769 / 8655 7278
info@wolterfans.com

Taizhou Wolter Ventilation Co. Ltd.
Hengjie, Luqiao District
Taizhou City, Zhejiang
Tel. (+86) 0 576 / 26 22 666 (26 52 888)
Fax (+86) 0 576 / 26 56 830

Hongkong:

Wolter Asia Ltd.
Hong Kong
Tel. (+852) 0 2456 0198
Fax (+852) 0 2456 0290
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 Lung Makmur Abadi.
Kawasan Pergudangan Taman Tekno Blok
M/16, Serpong-Tangerang 15310
Tel. +62 (0) 21 / 7588 2609 ext 104
Fax +62 (0) 21 / 7588 2610
lma.wolter@gmail.com

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





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