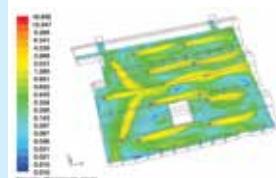
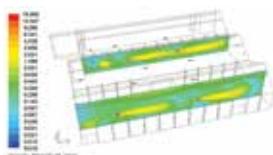


# Axial Fans

Medium pressure fan series



## About Us



At Lti Ventilatioren, Singapore, we produce complete range of ventilation products over a decade. Our products are required for ventilation of areas where we have to improve the Indoor Air Quality (IAQ), an important ingredient of life. With more than 30 years of experience of our colleagues in producing ventilation fans, we have been successful in setting up few manufacturing/assembly plants across the world.

Our long history of production & continuous investment in our R&D, have given us success in developing new innovative products with better efficiencies, low noise levels & compact sizes for easy installations.

Our name LTi, L-Long term T-Technical i-Innovative, supports our concept of continuous growth with our technical innovations on our existing product range & to develop new products for growing markets.

Our wide range of products includes Axial fans, Bifurcated axial fans, belt driven axial fans, Jet fans, centrifugal fans, In-line fans, mixed flow fans, special application fans for chemical resistance & battery room applications. Our customers are in domestic

sector, commercial sector, Industrial sector, power sector & infrastructure sector.

LTi Ventilatoren (Asia) Pte Ltd, established to support local markets by producing complete range of fans with national/international technologies to serve our customers locally & globally.

Our experience in the ventilation systems give our customers confidence to have most efficient/economical solutions for their ventilation requirements. This confidence in LTi & its high quality products is backed by excellent pre/after sales services by our experienced sales & technical staff.

We provide complete designing solutions for ventilation problems. With this catalogue, we provide the complete overview of the fan type, Lti can offer to the market. For further detailed discussions & information kindly feel free to contact our local sales company/distributor/dealer worldwide.

## Quality standards

Our focus is customer satisfaction. The bases for the same are best quality & accurate delivery time. We believe in quality of our products, to support this our products carries 3 years standard warranty against any manufacturing defect. The products have been tested in Singapore with PSB & AMCA for their performances. The air & sound performances are tested as per AMCA standards. The products required for high temperature applications are tested in accordance with BS/EN latest standards for different temperature & time classifications.

## Our Projects



Project Title: ITE College & HQ @ AMK  
 Consultant: Kajima  
 Fan supplied : Axial, Cabinet & MIL



Project Title: The Estuary  
 Contractor: Great Resources M&E Contractor Pte Ltd  
 Fan supplied: Axial, Cabinet & CIL



Project Title: Suki Sushi  
 Contractor: Natural Cool Airconditioning & Engineering Pte Ltd  
 Fan supplied: Axial, Cabinet, CIL & Propeller



Project Title: Central Fire Station  
 Contractor: BNF Engineering (S) Pte Ltd  
 Fan supplied: CIL & Propeller

### *Air Movement and Control Association International, Inc.*

*Certifies that*

*LTI Ventilatoren (Asia) Pte Ltd*

*Having satisfied the membership requirements, has been granted membership in the  
Air Movement and Control Association International, Inc.*

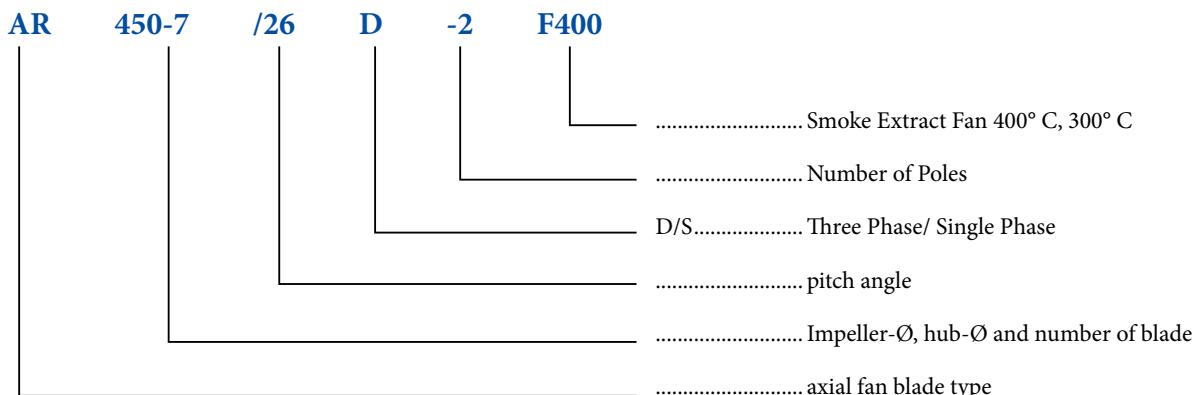
*Member Since  
February 2011*

AMCA International President



Acting Executive Director

## Fan Code



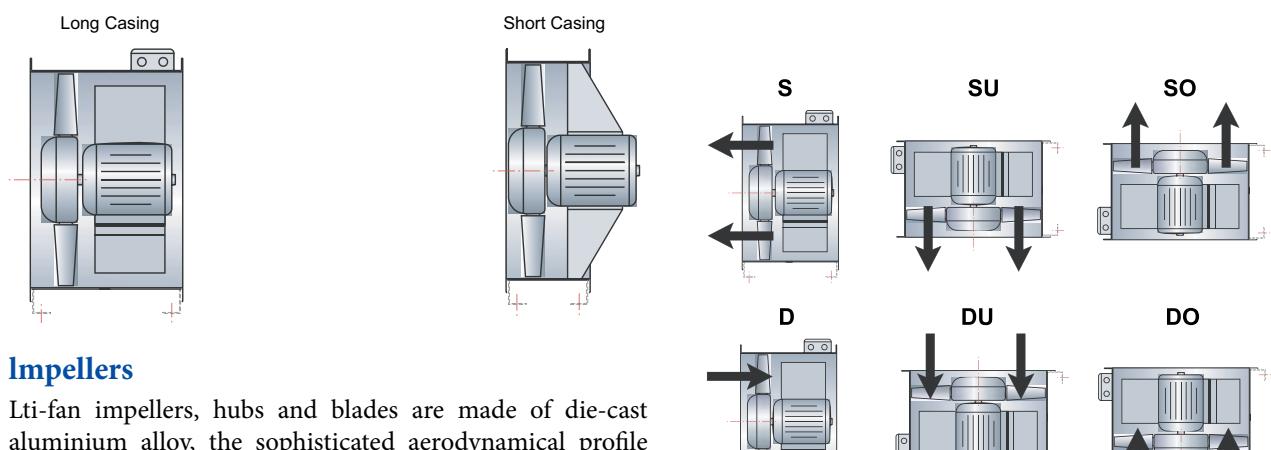
## Features and construction

### Types and duties

Lti-Axial flow-fans are specially manufactured for all applications and mounting positions in casing sizes 315mm up to 1600 mm diameter as standard and upto 3000mm on request. The performance range is from 1000 m<sup>3</sup>/h up to 360000 m<sup>3</sup>/h on air volume, at static pressure up to 1500 Pa. Higher pressures are possible on multi-stage versions, contra-rotating. The curves show in this catalogue are for smoke extract version up to 300° C only. For F 400° C, please approach Lti's staff for assistance.

### Casing:

Fan casing are fabricated using mild steel and treated with hot dip galvanised or epoxy coating after manufacturing. Standard length fans are large casing type which cover overall length of the impeller and motor. The motor leads (cover by flexible conduit) are connected to the terminal box on the fan casing. Where there is limited mounting for the ducts, short casing are used for installation (on request). The motor cable are taken directly to the T-box of the motor.



### Impellers

Lti-fan impellers, hubs and blades are made of die-cast aluminium alloy, the sophisticated aerodynamical profile guarantees high efficiency and low noise. The manual pitch adjustable blades allow maximum flexibility to match

individual airflow requirement. The variable number of blades increases the performance range. Each impeller is statically and dynamically balanced and checked to ensure smooth operation. All impeller examined by X-ray to ensure flawless castings

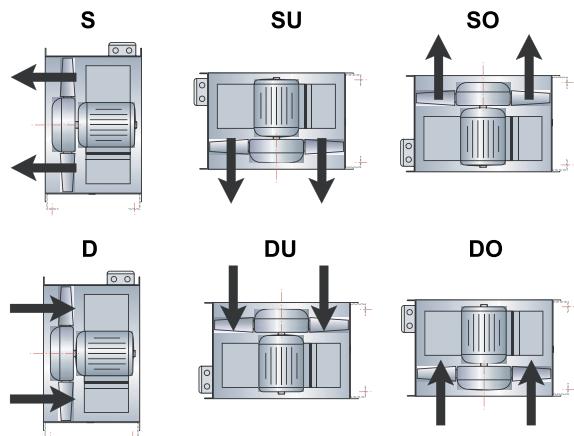
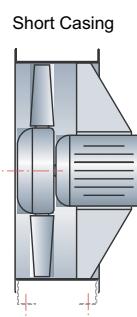
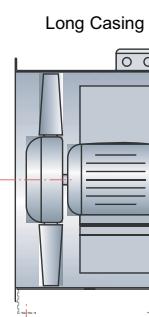
### Motors

Lti use totally enclosed fan cool squirrel cage motors rated to IEC 34, if required also in accordance to EPACT. The standard motors have Class F and H class of Insulation and protection class IP 55. Ambient temperature of the operation is +40°C, with 2 or 3 speeds, TAB-or DUAL-wound are also available. The motor bearings have a L10 life.

### Forms of running

Lti-Axial flow fans are available for all forms of running.

The chart information shows all standard forms of running, Standard form of running is Type D. Form of running is especially relevant when weather proof motors are required. Arrows indicating correct rotation and direction of airflow are shown on the fan casing.



## Fan performance curves

The performance curves for these fan types have been established in mounting position D (installed on the pressure side and suction side) and show the total pressure increase  $\Delta p$  as a function of the volume flow. The dynamic pressure  $p_{d2}$  refers to the flange cross section at the outlet side of the fan.

## Sound levels

The ascertaining of the sound level follows the enveloping surface method according to DIN 45635 section 38. In the performance curves shows the unweighted total sound power levels. The octave sound power level is important for the choice of suitable sound attenuators. It is obtained as follows.

$$L_{W0kt} = L_W + L_{Wrel}$$

The relative octave sound power level  $L_{WArel}$  octave medium frequency can be taken from the tables. These levels has been established at  $0.5 \times V_{max}$ . The A-weighted octave sound power level is obtained by reducing the A-filter.

$$L_{WAOk} = L_{W0kt} + L_{WrelA}$$

The "A" sound power level  $L$  is obtained by logarithmical addition of all A-weighted octave sound power levels.

Sound power level on suction and on outlet side are nearly the same.

$$L_{W5} \approx L_{W6}, L_{WA5} \approx L_{WA6}, L_{WA5} \approx L_{WA-3}$$

The sound power level emitted through the housing  $L$ , according to DIN 45635, part 38 is obtained approximately as follows:

$$L_{W3} = L_W - 15 \text{ dB(A)}$$

The "A" sound pressure level  $L$  at a distance of 1 metre is obtained approximately by deducting 7 dB(A) from the "A" sound power level  $L_{WA}$ .

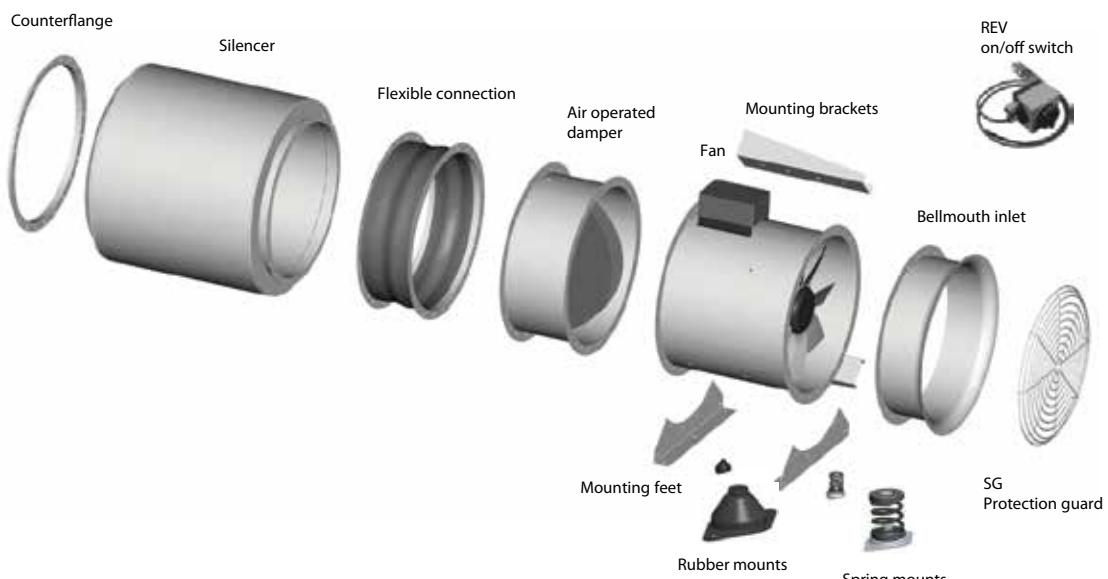
It is important to note that the reflection and room characteristic as well as natural frequencies differently influence the sound pressure levels

## Ordering the fan

After selection of the fan best for your needs please order as follows:

- Fan type, casing version and running form
- Fan code and type: see below
- Quantity required
- Duty required at standard air and temperature, air volume in  $\text{m}^3/\text{h}$  at static pressure in Pa.
- Motor power rating in KW
- Electrical supply
- Ancillaries required

## Fan installation with accessories



## Fan selection

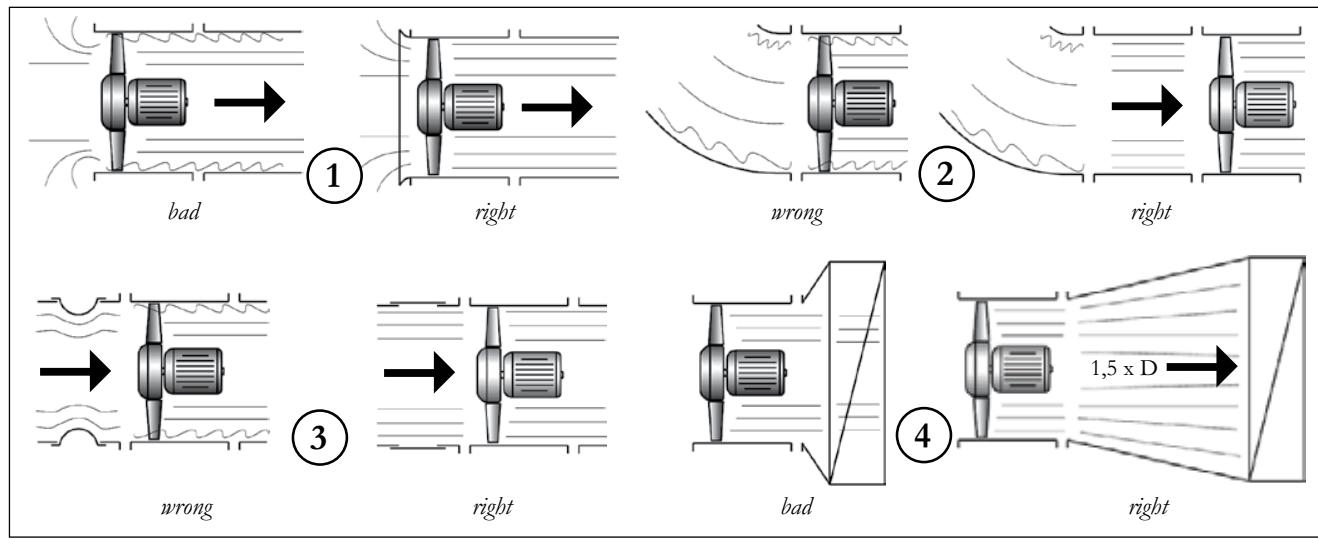
The chosen operating point of the fan has to be on or under the curve for the selected blade angle. If a fan is selected outside the performance curve, the fan might start pumping, which could increase the mechanical stress on the impeller so much that it would be destroyed. In order to assure the highest possible security for operation of the fan, we have selected the motors depending on the highest possible power consumption of one whole blade angle setting, to avoid a possible motor overloading.

If the operating point of the fan is in an area of the performance curve with a high efficiency, we recommend to calculate the required motor power depending on the actual operating point. A possible over-dimensioning of the motor can be avoided.

## Fan installation

Please note:

- In case fans are installed with free inlet or free outlet, a minimum distance of 1,5 times fan diameter to the next constructional element or component has to be observed. The inlet side should be equipped with an inlet cone to ensure a uniform incoming airflow.
- In case fans are installed in a duct, observe minimum distances (see drawings below) to accessories or connecting parts (duct bends, silencers, shutters) at the inlet or outlet side of the fan to avoid performance losses.



Duct length min.  $1 \times \varnothing$

## Selection example

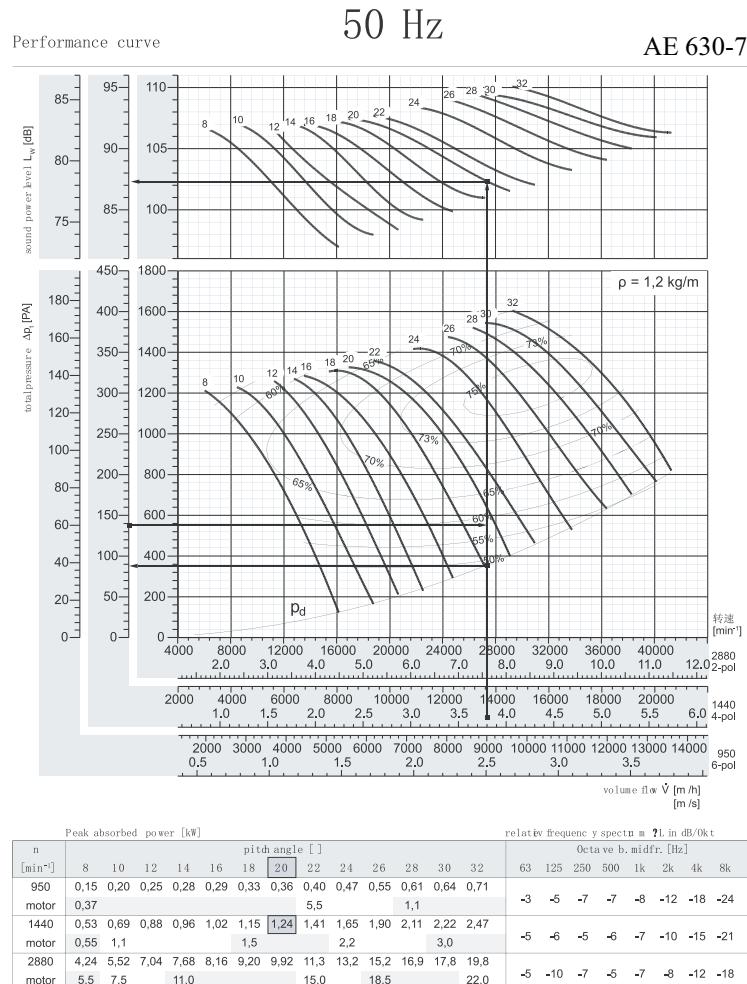
Required duty point by customer Volume flow :  $3,8 \text{ m}^3/\text{s}$  static pressure: 50 Pa

(for total pressure, please add velocity pressure to static pressure - 90 Pa dyn. pressure 50 Pa static pressure = 140 Pa total pressure) Fan speed: 1440 1/min (4-pole)

### How to use:

After having chosen right fan performance curve please draw volume flow and pressure. In the cross you will find the following fan data:

- motor speed or number of poles 1440 1/min - 4-pole
- pitch angle: 20 degrees
- fan efficiency: 58 %
- sound power level: 87 dBA



Choose motor power:

Two possibilities are practicable to choose the motor power

1) Calculation absorbed power in duly point

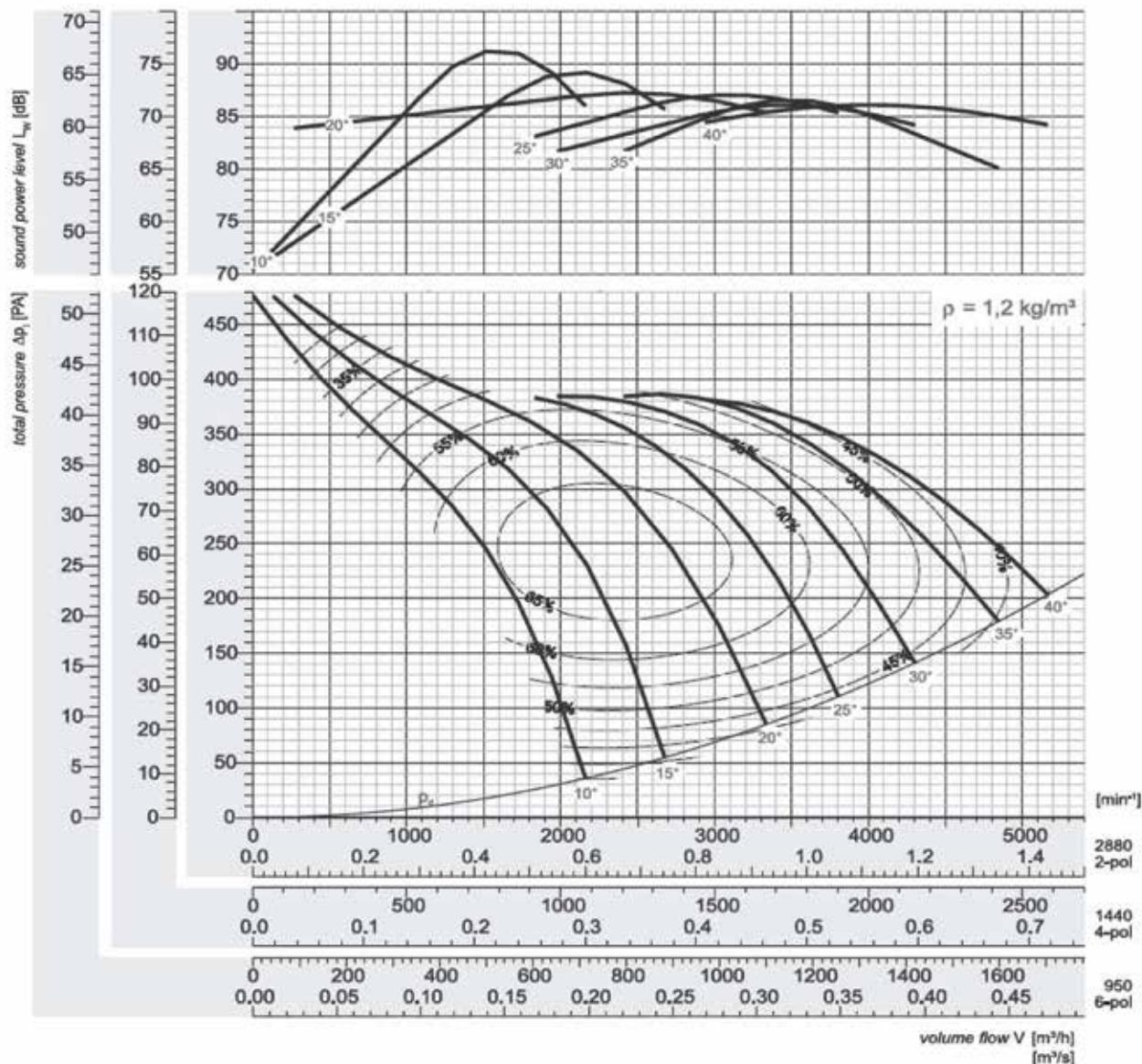
$$P_L [\text{kW}] = \frac{V[\text{m}^3/\text{s}] \cdot \Delta p_t [\text{Pa}]}{\eta [\%] \cdot 10} = \frac{3,8 \text{ m}^3/\text{s} \cdot 140 \text{ Pa}}{58 \cdot 10} = 0,91 \text{ kW}$$

Motor power 1,1 kW

2) After peak-absorbed power, see chart: 1,24kW

Motor power : 1,5kW

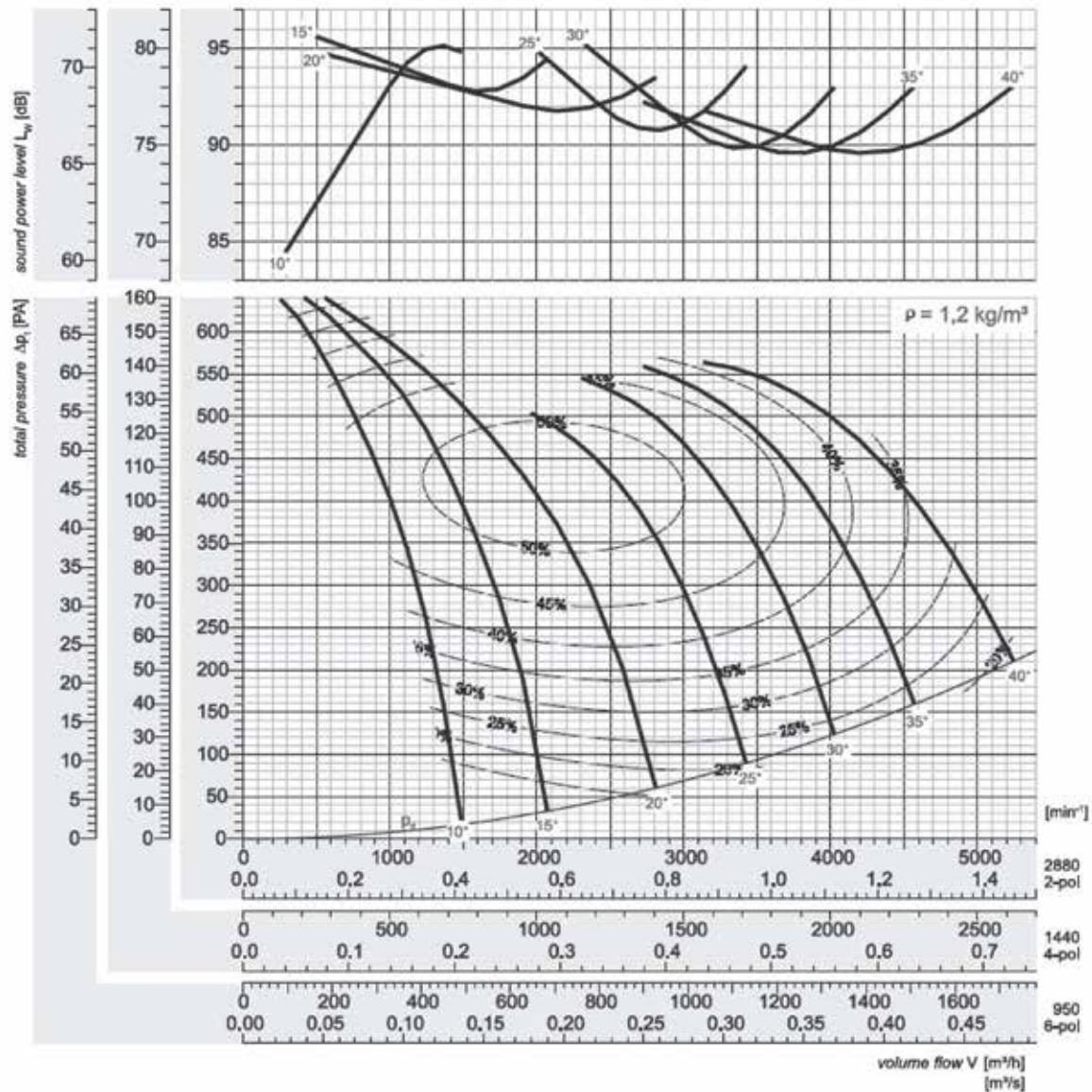
Peak power is the max power over the whole pitch angle in the worst case.

**AR 315-5**

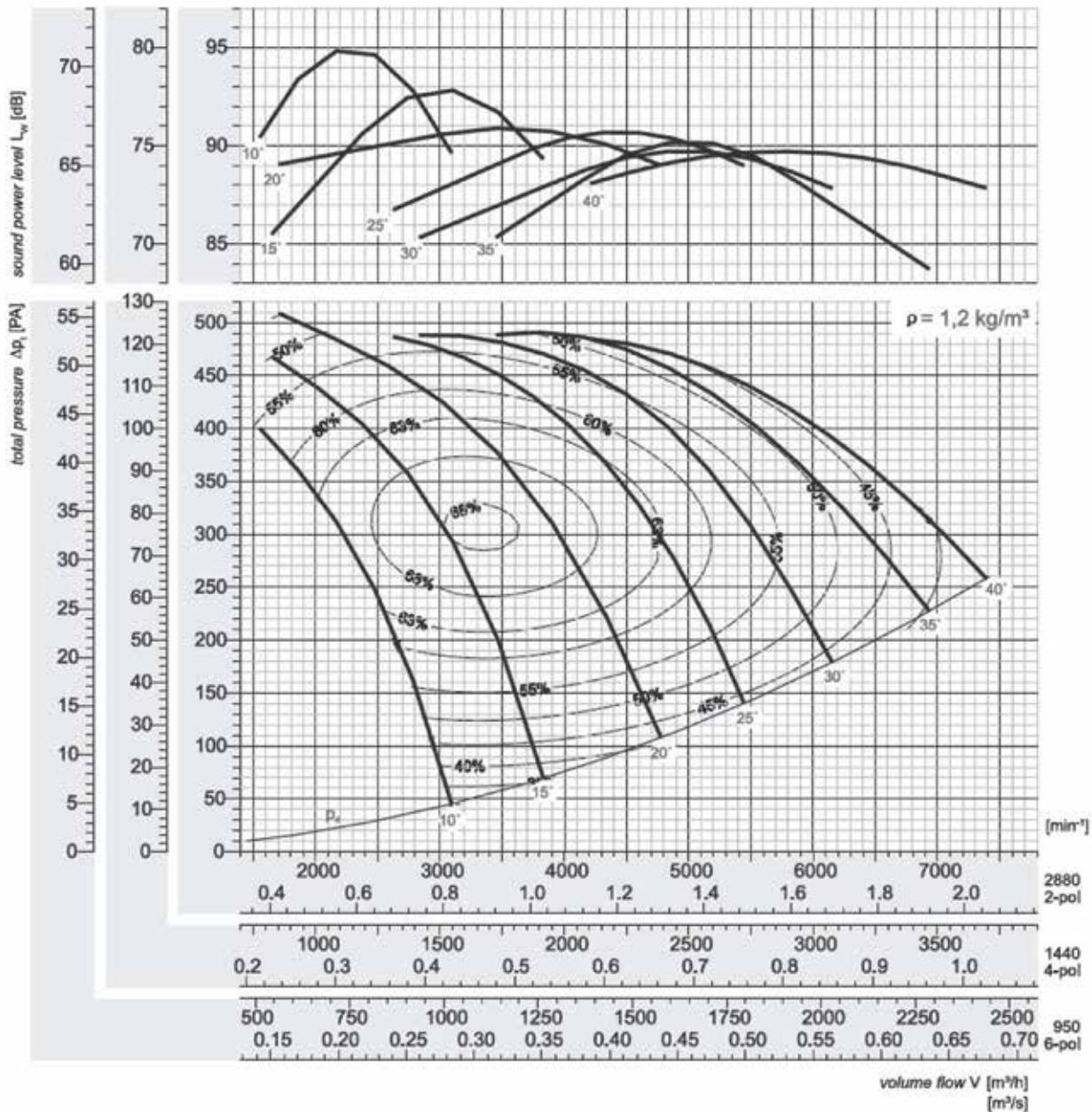
Peak absorbed power [kW]

n [min <sup>-1</sup> ]	pitch angle ["]								relative frequency spectrum $\Delta L$ in dB/Okt									
	10	15	20	25	30	35	40		Total	63	125	250	500	1k	2k	4k	8k	dBA
950 motor 0,37	0,006	0,009	0,011	0,015	0,019	0,024	0,032	$L_{ws}$ saugseitig inlet	-1	-8	-9	-2	-9	-12	-15	-24	-33	-4
								$L_{ws}$ druckseitig outlet	0	-6	-10	-3	-9	-14	-20	-24	-31	-7
1440 motor 0,37	0,022	0,030	0,040	0,051	0,065	0,082	0,111	$L_{ws}$ saugseitig inlet	1	-9	-6	-8	-11	-10	-12	-17	-27	-6
								$L_{ws}$ druckseitig outlet	0	-7	-6	-8	-11	-11	-13	-16	-23	-6
2880 motor 0,37	0,180	0,238	0,320	0,408	0,520	0,659	0,888	$L_{ws}$ saugseitig inlet	0	-7	-8	-8	-11	-9	-10	-14	-22	-5
					0,55	0,55	0,75	1,1	$L_{ws}$ druckseitig outlet	0	-8	-8	-6	-10	-10	-12	-15	-20

# AR 315-10



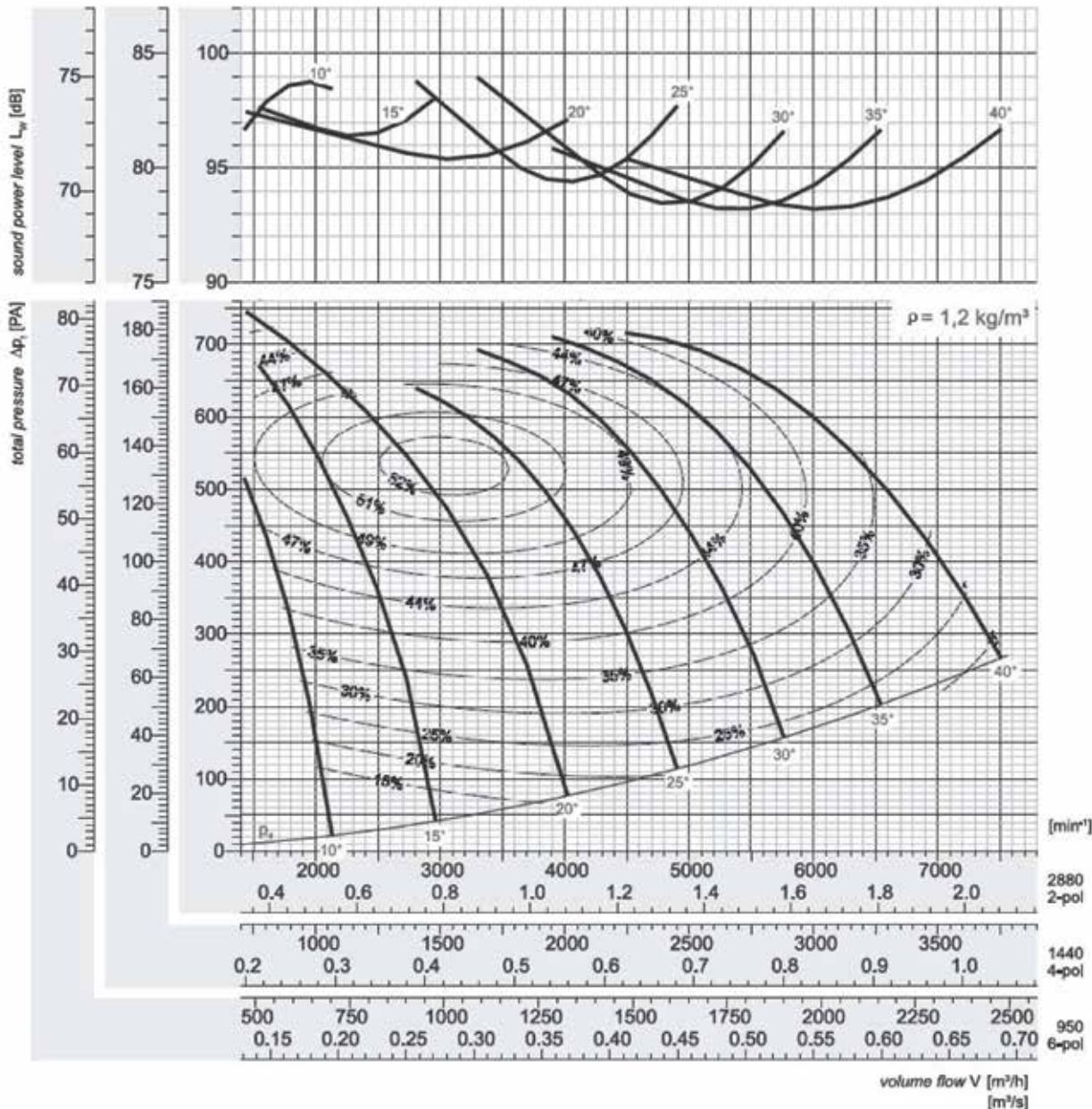
n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k	dBA	
950 motor	0,009	0,013	0,019	0,021	0,029	0,038	0,054	$L_{WS}$ saugseitig inlet	-1	-11	-4	-6	-9	-11	-15	-22	-30	-6
	0,37							$L_{WS}$ druckseitig outlet	0	-8	-5	-6	-8	-13	-19	-25	-33	-7
1440 motor	0,030	0,045	0,065	0,073	0,100	0,132	0,190	$L_{WS}$ saugseitig inlet	-1	-12	-6	-5	-12	-10	-12	-18	-31	-6
	0,37							$L_{WS}$ druckseitig outlet	0	-9	-8	-4	-12	-13	-15	-18	-28	-7
2880 motor	0,243	0,363	0,517	0,584	0,798	1,055	1,518	$L_{WS}$ saugseitig inlet	-2	-8	-10	-9	-9	-7	-10	-13	-22	-3
	0,37	0,55	0,75	1,1	1,1	2,2		$L_{WS}$ druckseitig outlet	0	-7	-10	-7	-7	-11	-13	-15	-22	-5

**AR 355-5**

Peak absorbed power [kW]

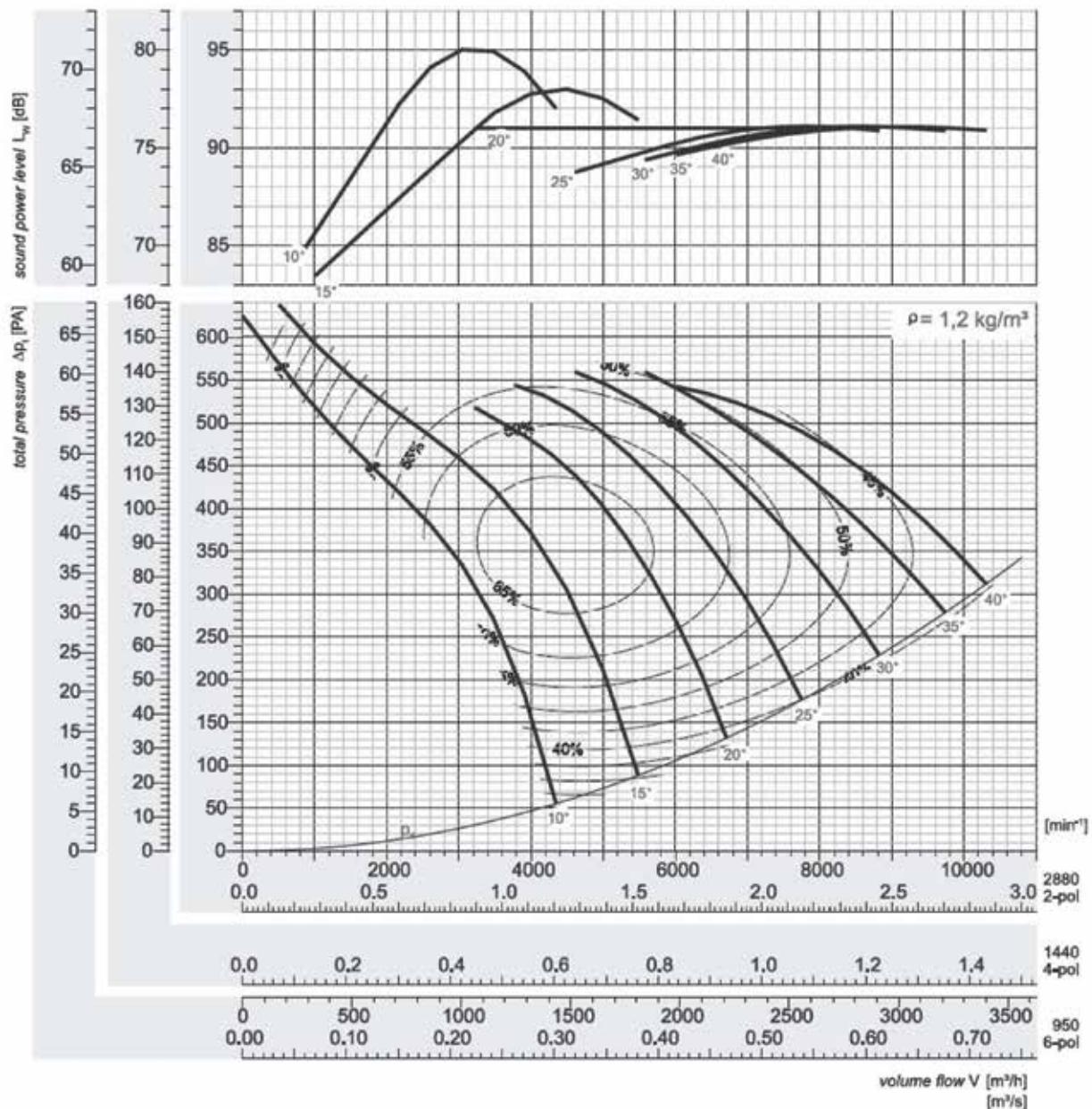
n [min <sup>-1</sup> ]	pitch angle [°]							relative frequency spectrum $\Delta L$ in dB/Okt										
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k	dBA	
950 motor	0,01	0,02	0,02	0,03	0,03	0,04	0,06	$L_{ws}$ saugseitig inlet	-1	-8	-9	-2	-9	-12	-15	-24	-33	-4
950 motor	0,37							$L_{ws}$ druckseitig outlet	0	-6	-10	-3	-9	-14	-20	-24	-31	-7
1440 motor	0,04	0,05	0,07	0,09	0,12	0,15	0,20	$L_{ws}$ saugseitig inlet	1	-9	-6	-8	-11	-10	-12	-17	-27	-6
1440 motor	0,37							$L_{ws}$ druckseitig outlet	0	-7	-6	-8	-11	-11	-13	-16	-23	-6
2880 motor	0,33	0,43	0,58	0,74	0,95	1,20	1,62	$L_{ws}$ saugseitig inlet	0	-7	-8	-8	-11	-9	-10	-14	-22	-5
2880 motor	0,37	0,55	0,75		1,1	1,5	2,2	$L_{ws}$ druckseitig outlet	0	-8	-8	-6	-10	-10	-12	-15	-20	-5

# AR 355-10



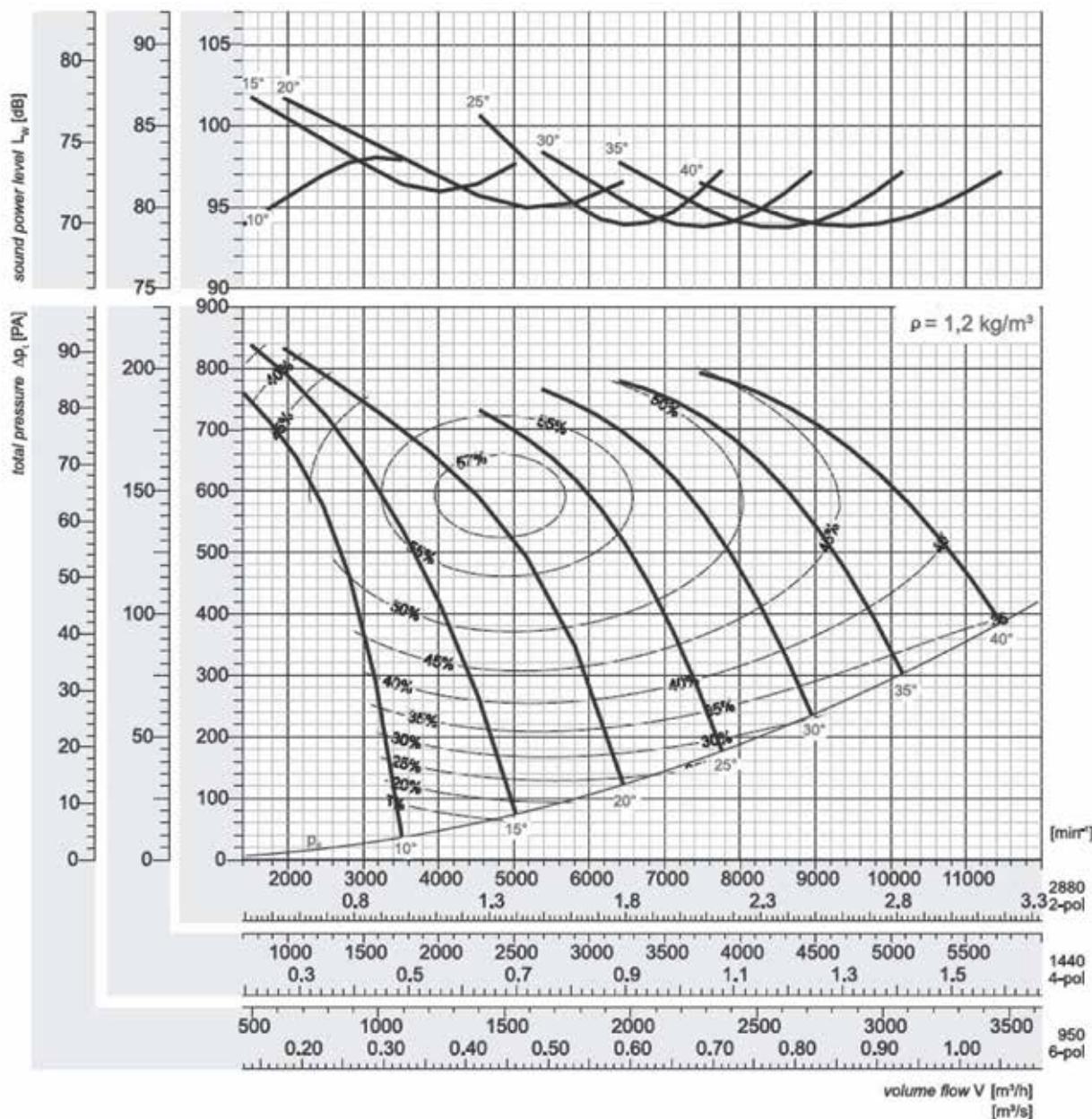
n [min⁻¹]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt											
	pitch angle [°]							$L_{ws}$ saugseitig inlet	$L_{ws}$ druckseitig outlet	Total	63	125	250	500	1k	2k	4k	8k	dBA
950 motor	0,02	0,02	0,03	0,04	0,05	0,07	0,10			-1	-11	-4	-6	-9	-11	-15	-22	-30	-6
	0,37							$L_{ws}$ saugseitig inlet	$L_{ws}$ druckseitig outlet	0	-8	-5	-6	-8	-13	-19	-25	-33	-7
1440 motor	0,06	0,08	0,12	0,13	0,18	0,24	0,34	$L_{ws}$ saugseitig inlet	$L_{ws}$ druckseitig outlet	-1	-12	-6	-5	-12	-10	-12	-18	-31	-6
	0,37									0	-9	-8	-4	-12	-13	-15	-18	-28	-7
2880 motor	0,44	0,66	0,94	1,06	1,45	1,92	2,76	$L_{ws}$ saugseitig inlet	$L_{ws}$ druckseitig outlet	-2	-8	-10	-9	-9	-7	-10	-13	-22	-3
	0,55	0,75	1,1		1,5	2,2	3,0			0	-7	-10	-7	-7	-11	-13	-15	-22	-5

# AR 400-5

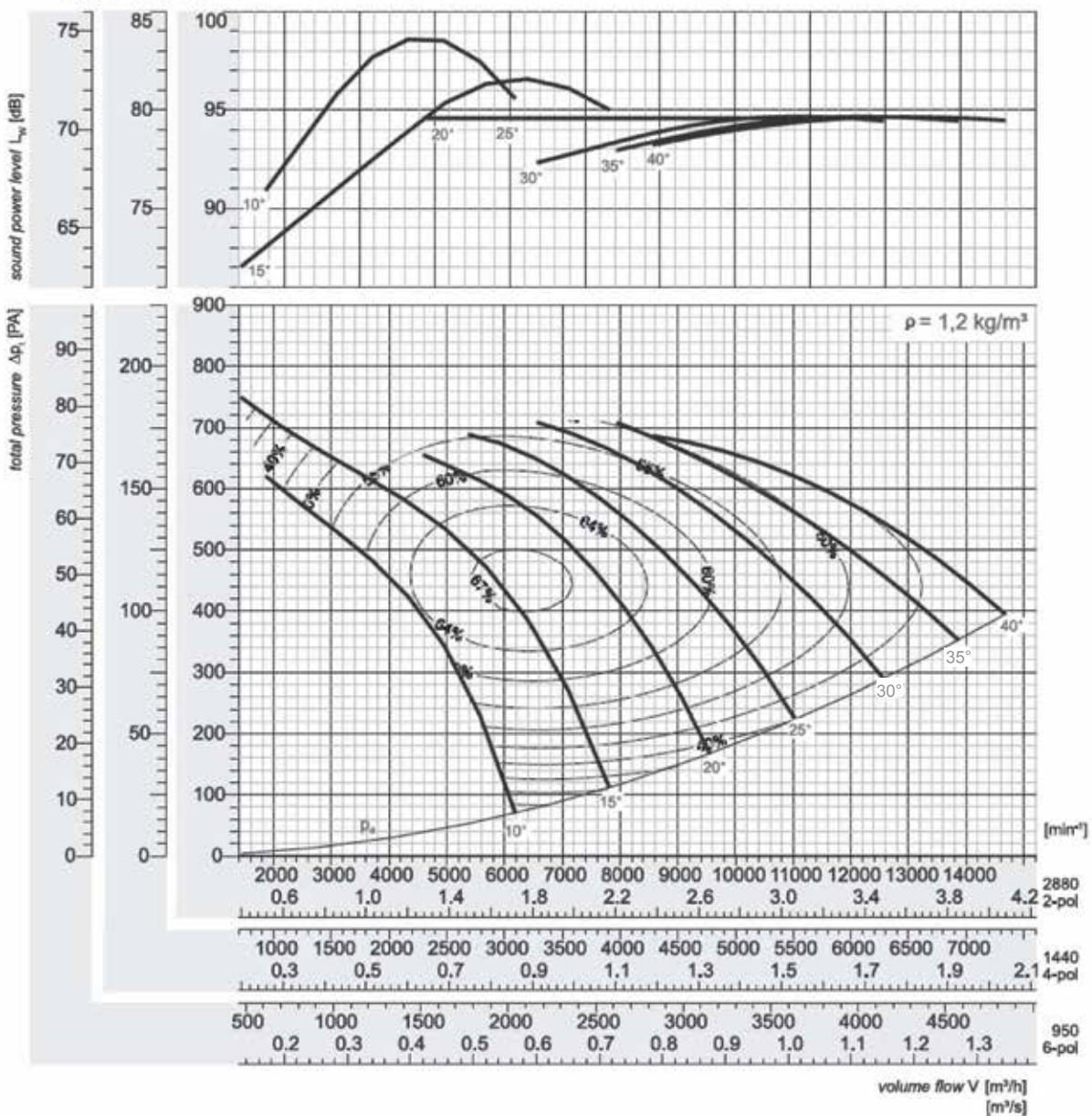


n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k	dBA	
950 motor	0,02	0,02	0,03	0,04	0,05	0,07	0,09	$L_{ws}$ saugseitig inlet	1	-6	-9	-4	-10	-11	-14	-22	-32	-6
	0,37							$L_{ws}$ druckseitig outlet	0	-5	-7	-4	-8	-10	-15	-20	-28	-4
1440 motor	0,06	0,08	0,10	0,14	0,18	0,23	0,30	$L_{ws}$ saugseitig inlet	0	-8	-6	-7	-11	-10	-13	-17	-26	-6
	0,37							$L_{ws}$ druckseitig outlet	0	-7	-6	-8	-11	-10	-13	-17	-23	-6
2880 motor	0,48	0,64	0,83	1,14	1,47	1,86	2,39	$L_{ws}$ saugseitig inlet	1	-7	-10	-7	-10	-9	-12	-15	-22	-5
	0,55	0,75	1,1	1,5		2,2	3,0	$L_{ws}$ druckseitig outlet	0	-11	-8	-5	-10	-10	-12	-16	-20	-5

# AR 400-10

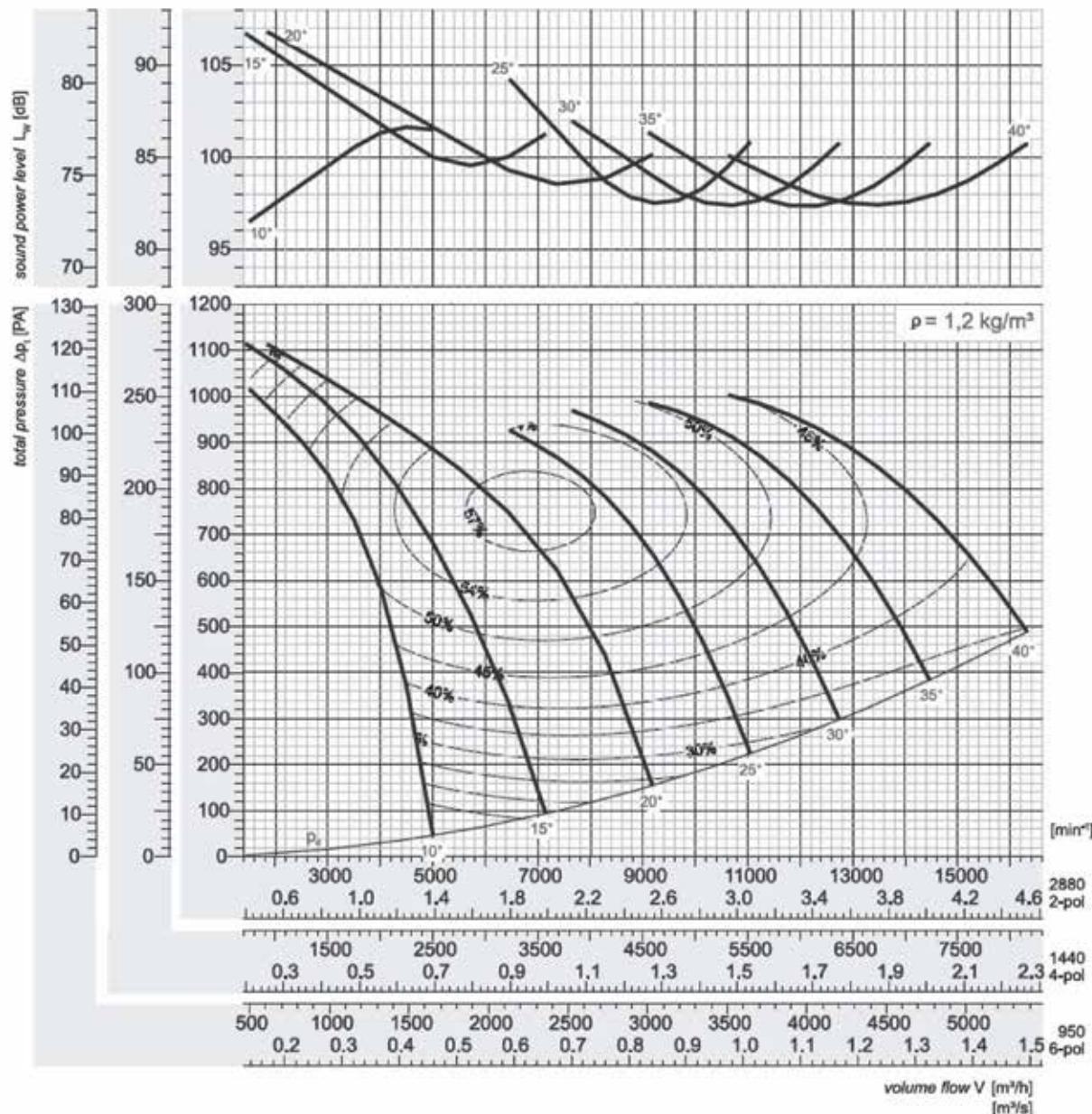


n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k	dBA	
950 motor	0,03	0,03	0,05	0,06	0,08	0,11	0,14		-1	-9	-6	-6	-8	-11	-14	-22	-32	-6
	0,37							$L_{we}$ druckseitig outlet	0	-8	-6	-6	-7	-10	-15	-22	-33	-5
1440 motor	0,10	0,12	0,17	0,22	0,29	0,38	0,50	$L_{ws}$ saugseitig inlet	-1	-12	-8	-6	-9	-8	-10	-16	-27	-4
	0,37						0,55		0	-9	-9	-6	-9	-10	-12	-16	-26	-5
2880 motor	0,79	0,97	1,34	1,79	2,31	3,01	3,98	$L_{ws}$ saugseitig inlet	-1	-8	-11	-10	-6	-7	-10	-15	-23	-3
	1,1		1,5	2,2	3,0	4,0			0	-8	-8	-9	-7	-10	-12	-16	-21	-5

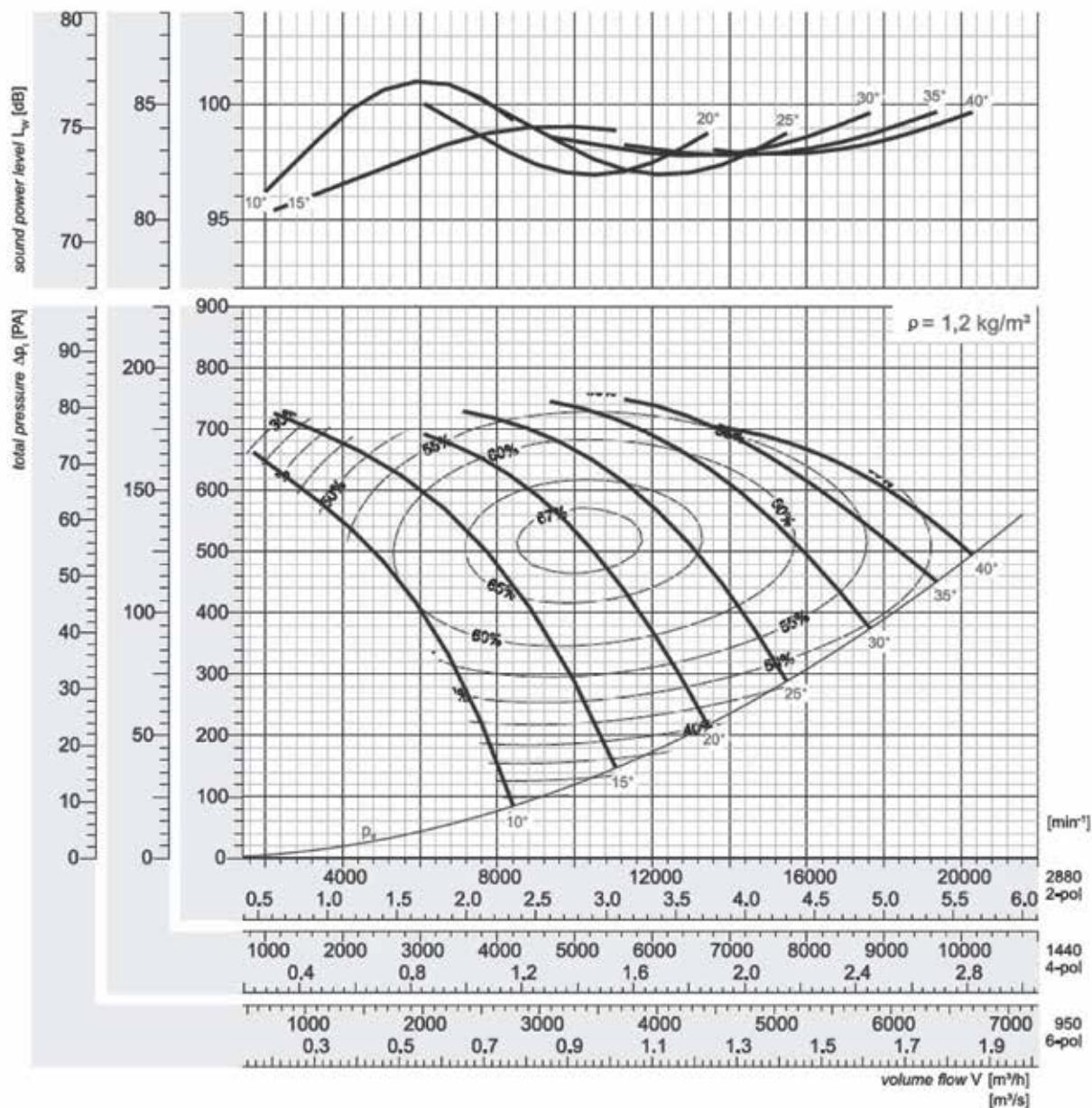
**AR 450-5****AE 450-5**

n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k	dBA	
950 motor	0,03	0,04	0,05	0,07	0,10	0,12	0,15	$L_{ws}$ saugseitig inlet $L_{ws}$ druckseitig outlet	1	-6	-9	-4	-10	-11	-14	-22	-32	-6
	0,37								0	-5	-7	-4	-8	-10	-15	-20	-28	-4
1440 motor	0,11	0,14	0,19	0,26	0,33	0,42	0,54	$L_{ws}$ saugseitig inlet $L_{ws}$ druckseitig outlet	0	-8	-6	-7	-11	-10	-13	-17	-26	-6
	0,37								0	-7	-6	-8	-11	-10	-13	-17	-23	-6
2880 motor	0,86	1,15	1,50	2,05	2,65	3,36	4,31	$L_{ws}$ saugseitig inlet $L_{ws}$ druckseitig outlet	1	-7	-10	-7	-10	-9	-12	-15	-22	-5
	1,1	1,5	2,2		3,0	4,0	-		0	-11	-8	-5	-10	-10	-12	-16	-20	-5

## AR 450-10

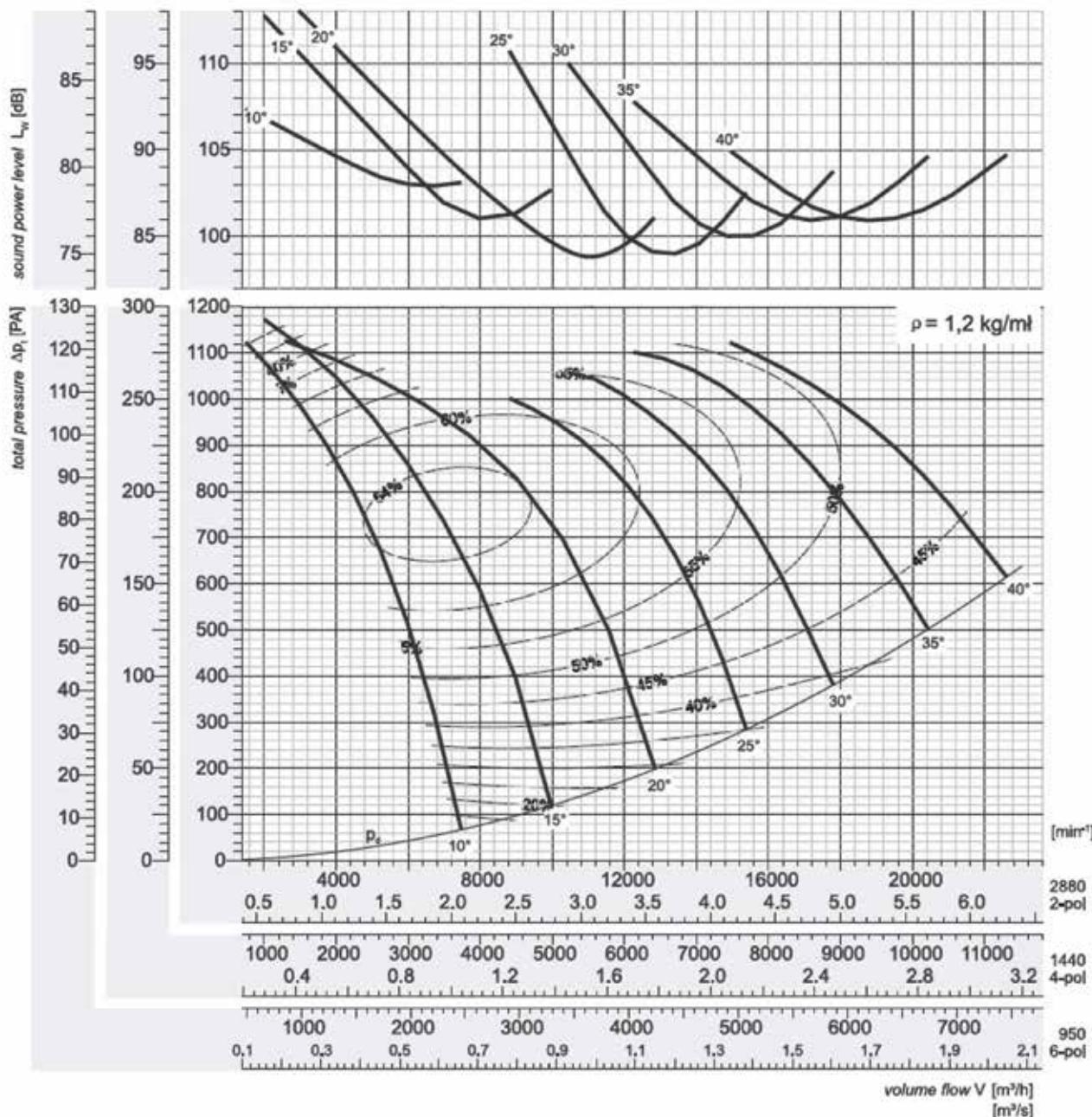


n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	pitch angle [°]							Total	Octave b. midfr. [Hz]									
motor	10	15	20	25	30	35	40		63	125	250	500	1k	2k	4k	8k		
	0,05	0,06	0,09	0,12	0,15	0,19	0,26	$L_{ws}$ saugseitig inlet	-1	-9	-6	-6	-8	-11	-14	-22	-32	-6
motor	0,37								0	-8	-6	-6	-7	-10	-15	-22	-33	-5
motor	0,18	0,22	0,30	0,40	0,52	0,68	0,90	$L_{ws}$ druckseitig outlet	-1	-12	-8	-6	-9	-8	-10	-16	-27	-4
	0,37								0	-9	-9	-6	-9	-10	-12	-16	-26	-5
motor	1,42	1,76	2,42	3,23	4,16	5,42	7,17	$L_{ws}$ saugseitig inlet	-1	-8	-11	-10	-6	-7	-10	-15	-23	-3
	1,5	2,2	3,0	4,0	-	-	-		0	-8	-8	-9	-7	-10	-12	-16	-21	-5

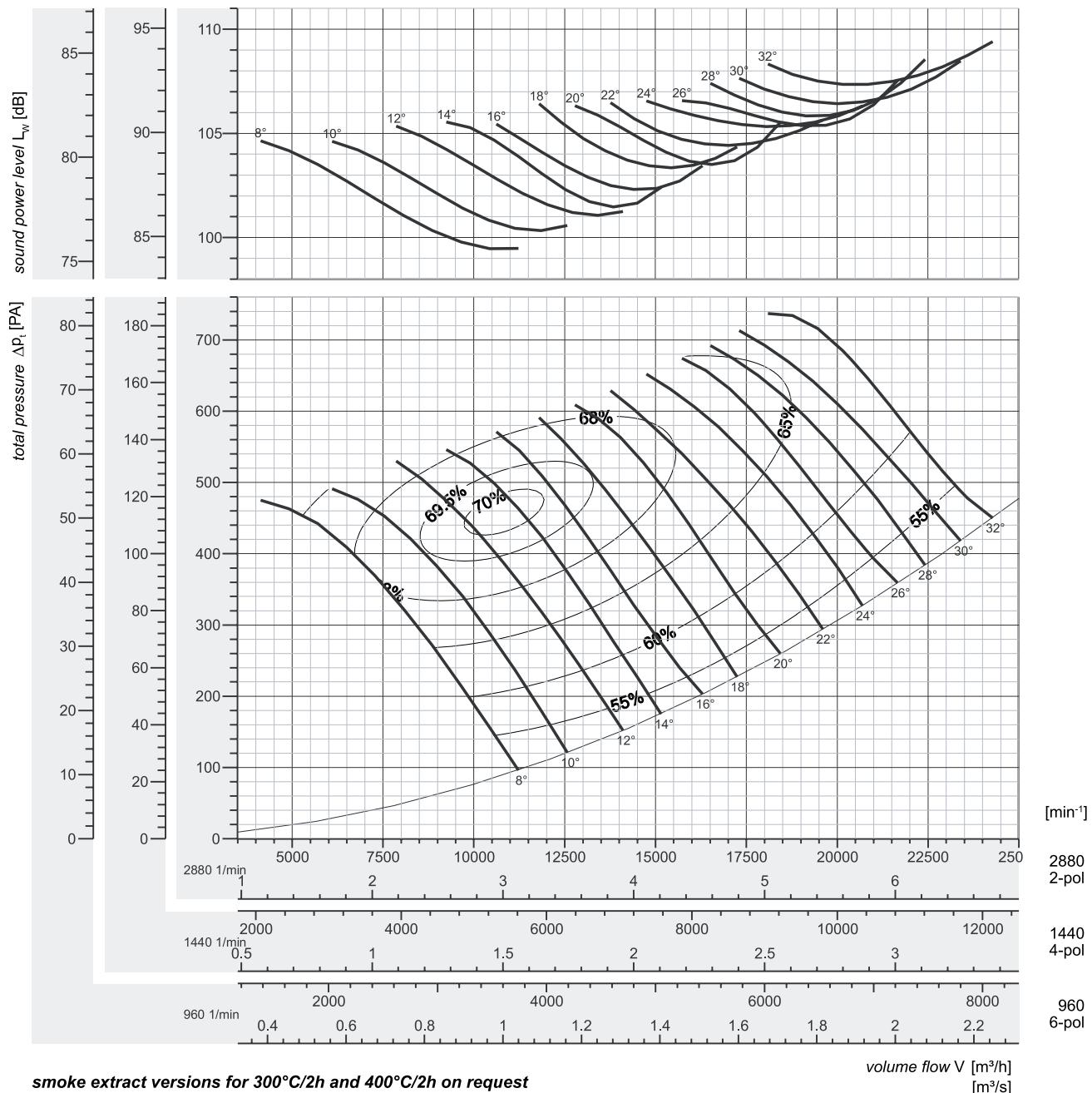
**AR 500-5**

n [min⁻¹]	peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	10	15	20	25	30	35		Total	63	125	250	500	1k	2k	4k	8k	dBA	
950 motor	0,04	0,06	0,08	0,11	0,14	0,17	0,22	$L_{ws}$ saugseitig inlet	3	-3	-13	-9	-9	-11	-14	-20	-32	-7
1440 motor	0,37							$L_{ws}$ druckseitig outlet	0	-4	-9	-6	-6	-8	-13	-17	-26	-3
	0,14	0,21	0,29	0,38	0,48	0,61	0,76	$L_{ws}$ saugseitig inlet	0	-8	-6	-10	-9	-10	-13	-16	-26	-5
2880 motor	1,14	1,66	2,31	3,03	3,84	4,86	6,12	$L_{ws}$ druckseitig outlet	0	-7	-6	-8	-11	-10	-13	-17	-23	-6
	1,5	2,2	3,0	4,0	-	-		$L_{ws}$ saugseitig inlet	2	-6	-15	-8	-8	-8	-12	-14	-21	-5
								$L_{ws}$ druckseitig outlet	0	-10	-11	-7	-9	-9	-11	-14	-20	-5

# AR 500-10



n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k	dBA	
950 motor	0,05	0,09	0,12	0,16	0,22	0,29	0,36	$L_{ws}$ saugseitig inlet	-0	-8	-11	-8	-7	-10	-14	-21	-35	-6
	0,37							$L_{ws}$ druckseitig outlet	0	-9	-9	-7	-7	-10	-12	-20	-30	-5
1440 motor	0,19	0,30	0,40	0,57	0,76	1,00	1,25	$L_{ws}$ saugseitig inlet	-1	-13	-10	-9	-7	-6	-10	-13	-25	-2
	0,37							$L_{ws}$ druckseitig outlet	0	-10	-11	-8	-8	-9	-11	-15	-24	-5
2880 motor	1,52	2,38	3,23	4,54	6,10	7,96	10,03	$L_{ws}$ saugseitig inlet	1	-13	-16	-13	-7	-5	-9	-12	-16	-2
	2,2	3,0	4,0	-	-	-	-	$L_{ws}$ druckseitig outlet	0	-11	-13	-10	-6	-5	-7	-9	-15	-0

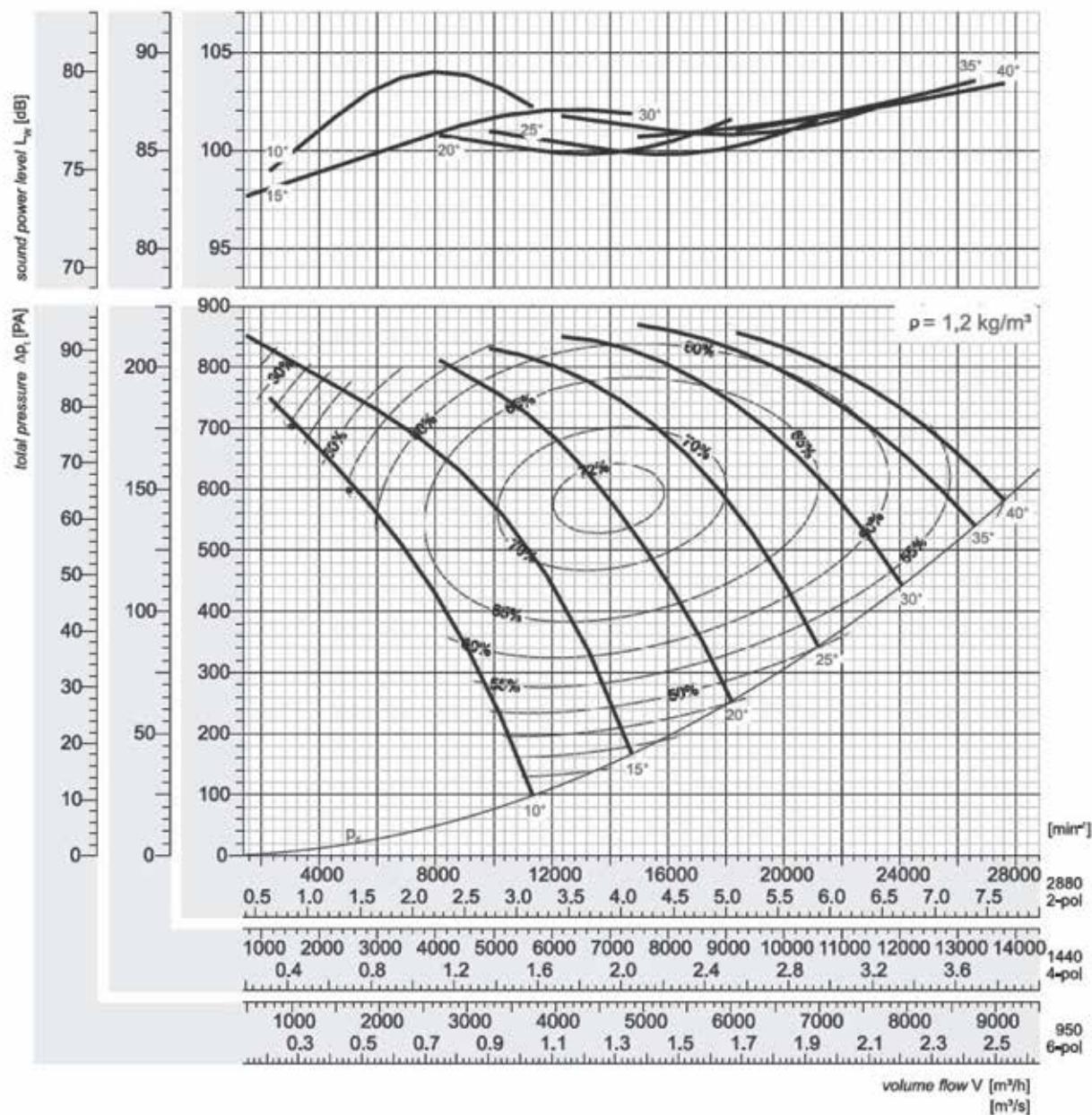
**AR 560-3**

smoke extract versions for 300°C/2h and 400°C/2h on request

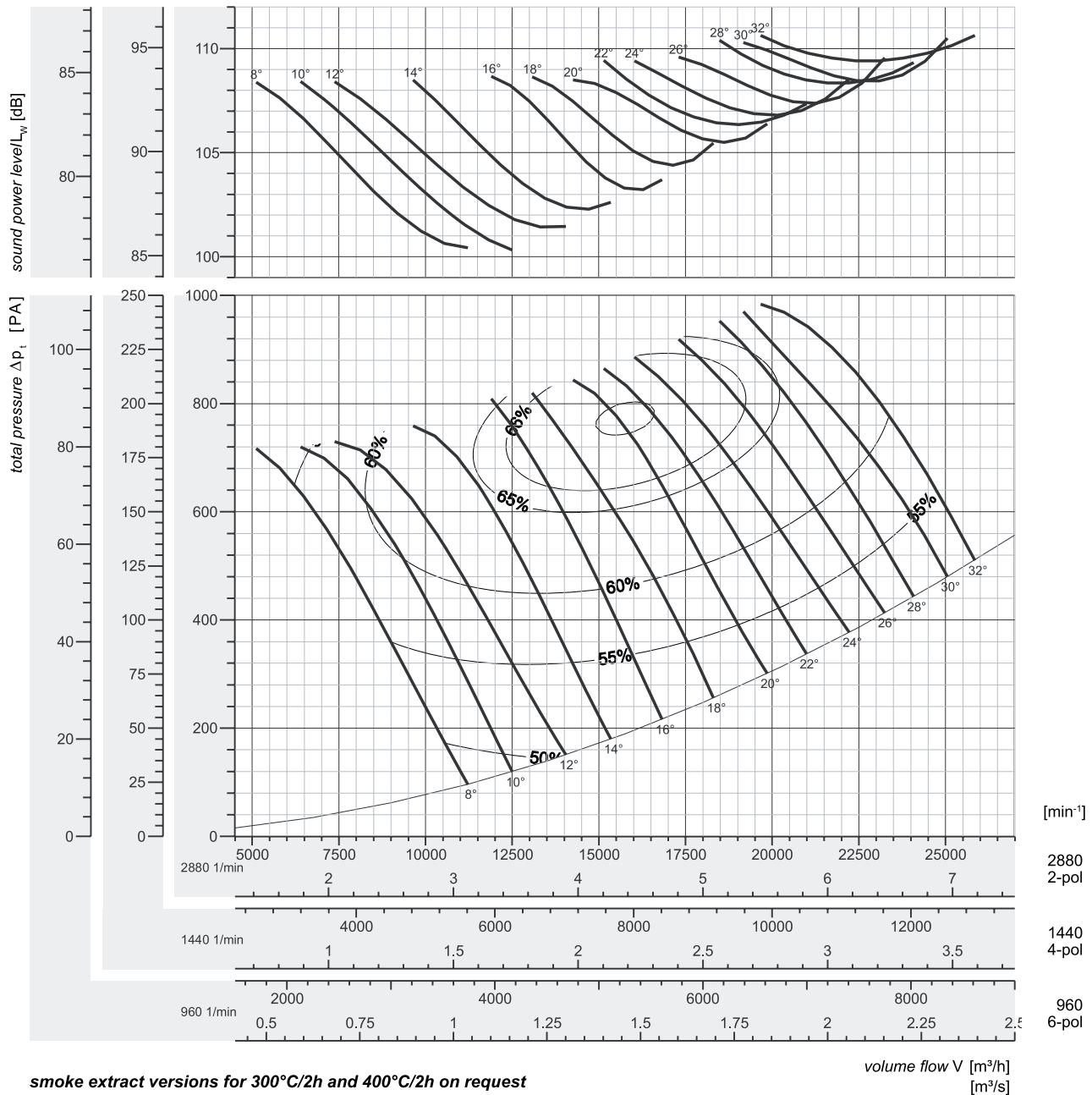
volume flow  $V$  [m³/h]  
[m³/s]

n [min⁻¹]	Peak absorbed power [kW]												relative frequency spectrum $\Delta L$ in dB/Okt								
	pitch angle [°]												Octave b. midfr. [Hz]								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,04	0,05	0,06	0,08	0,09	0,10	0,12	0,13	0,15	0,16	0,18	0,20	0,22	-3	-5	-7	-7	-8	-12	-18	-24
1440 motor	0,14	0,17	0,22	0,27	0,31	0,36	0,41	0,46	0,51	0,57	0,62	0,68	0,77	-5	-6	-5	-6	-7	-10	-15	-21
2880 motor	1,11	1,39	1,76	2,14	2,51	2,89	3,28	3,65	4,10	4,54	4,97	5,44	6,19	-5	-10	-7	-5	-7	-8	-12	-18
													0,75								
													7,5								
	0,5	1	1,5	2	2,5	3	4	4,5	5	6	7	8									
	2000	4000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000									
	0,4	0,6	0,8	1	1,2	1,4	1,6	1,8	2	2,2											

# AR 560-5

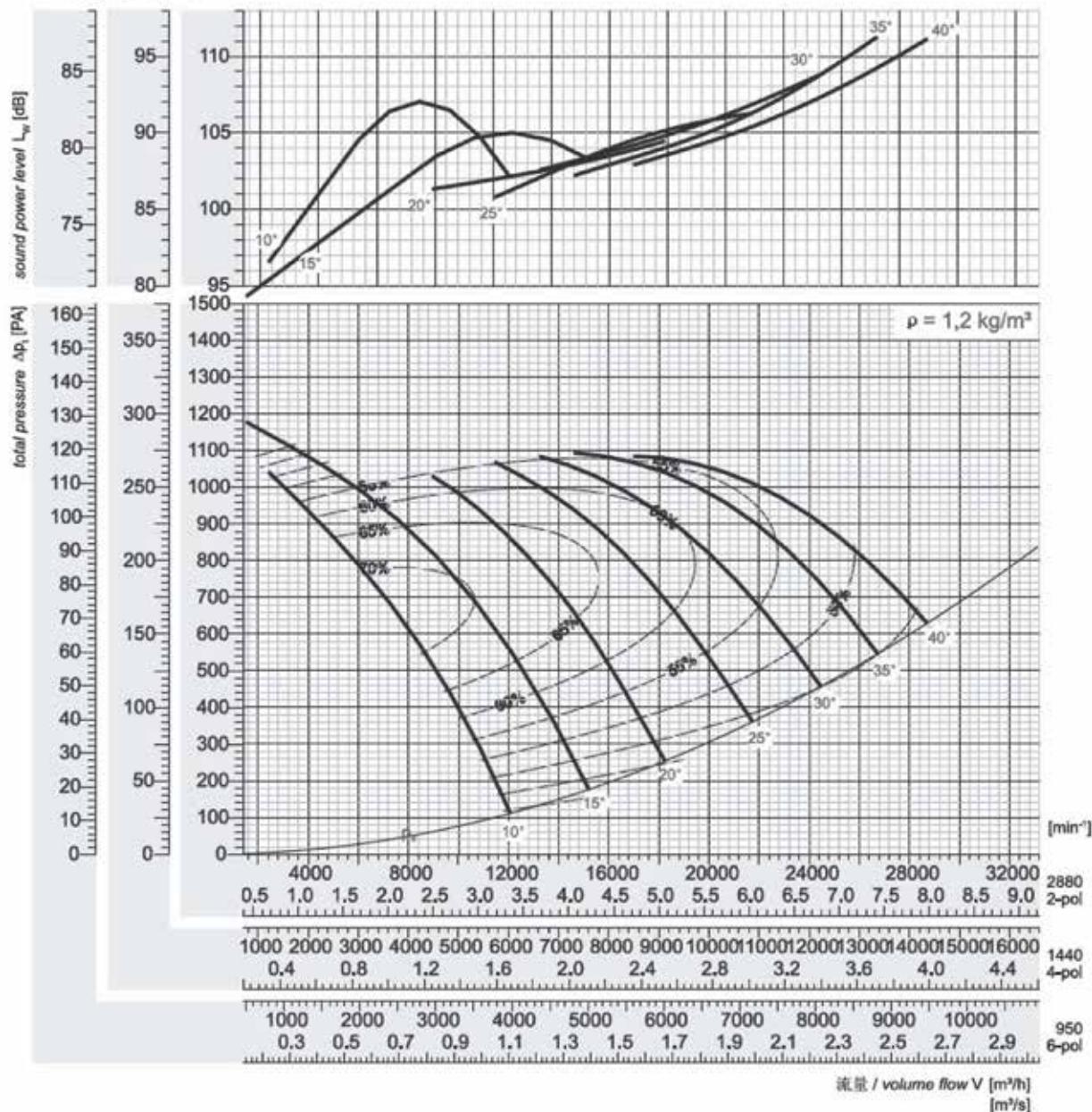


n [min⁻¹]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	pitch angle [°]							Total	Octave b. midfr. [Hz]								dBA	
motor	10	15	20	25	30	35	40		63	125	250	500	1k	2k	4k	8k		
	0,06	0,08	0,12	0,16	0,20	0,27	0,33	$L_{ws}$ saugseitig inlet	2	-4	-11	-9	-7	-12	-15	-20	-32	-7
motor	0,37							$L_{ws}$ druckseitig outlet	0	-4	-10	-7	-6	-9	-14	-18	-26	-3
	0,20	0,29	0,41	0,56	0,70	0,95	1,14	$L_{ws}$ saugseitig inlet	0	-7	-6	-8	-10	-11	-13	-17	-26	-6
motor	0,37		0,55	0,75		1,1	1,5	$L_{ws}$ druckseitig outlet	0	-7	-6	-10	-10	-10	-13	-16	-23	-6
	1,57	2,34	3,25	4,47	5,62	7,58	9,09	$L_{ws}$ saugseitig inlet	2	-6	-12	-9	-9	-9	-12	-15	-21	-5
motor	2,2	3,0	4,0	-	-	-	-	$L_{ws}$ druckseitig outlet	0	-9	-10	-6	-9	-9	-11	-15	-20	-4

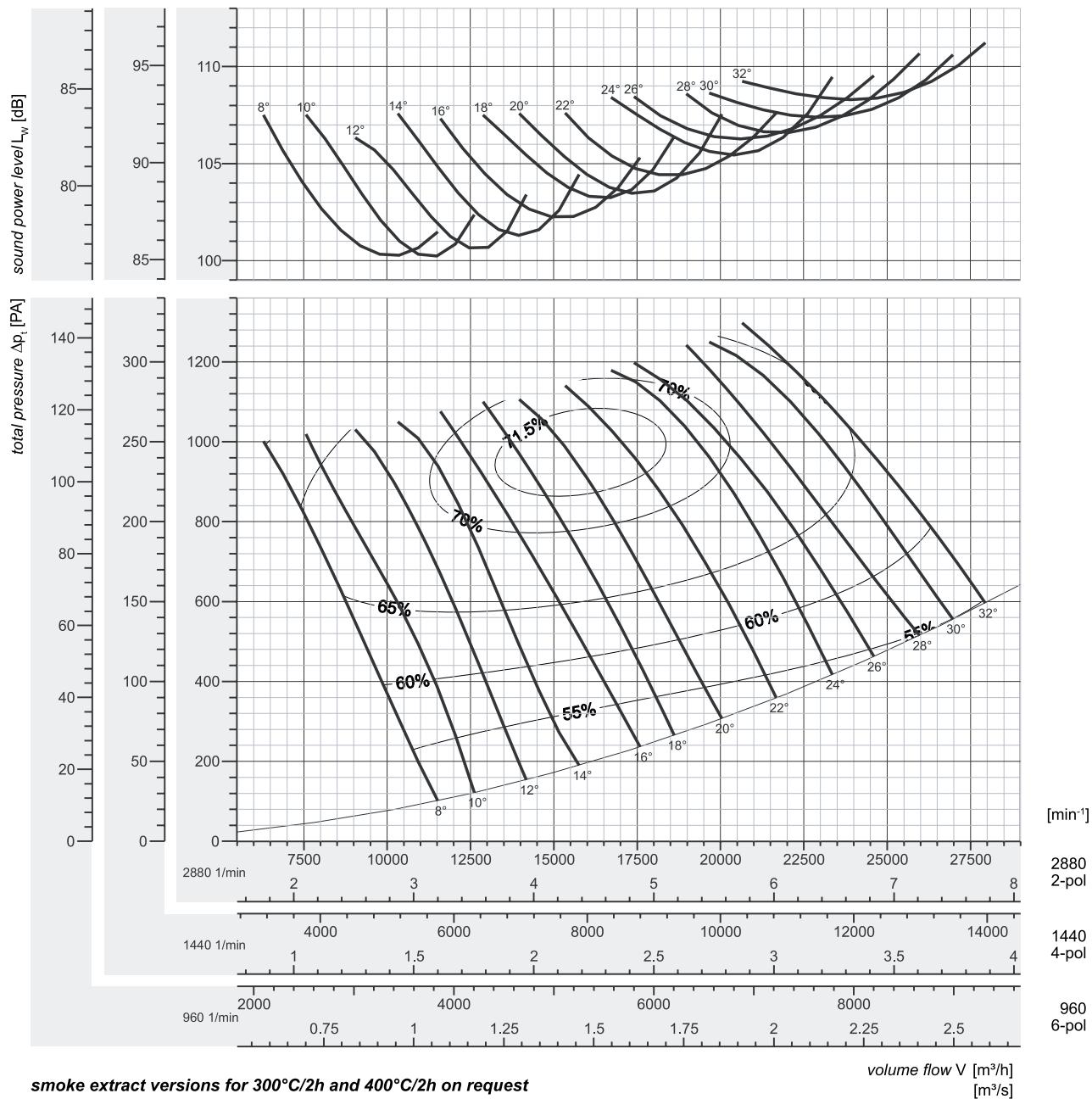
**AR 560-6**

n [min <sup>-1</sup> ]	Peak absorbed power [kW]												relative frequency spectrum $\Delta L$ in dB/Okt								
	pitch angle [°]												Octave b. midfr. [Hz]								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,07	0,09	0,10	0,12	0,15	0,16	0,18	0,20	0,22	0,24	0,27	0,29	0,31	-3	-5	-7	-7	-8	-12	-18	-24
0,37																					
1440 motor	0,25	0,31	0,35	0,42	0,53	0,57	0,64	0,70	0,76	0,85	0,96	1,02	1,08	-5	-6	-5	-6	-7	-10	-15	-21
0,55																					
2880 motor	2,04	2,46	2,76	3,39	4,21	4,58	5,14	5,59	6,06	6,78	7,65	8,19	8,67	-5	-10	-7	-5	-7	-8	-12	-18
2,2	3,0			4,0	5,5			7,5			11,0										

# AR 560-7

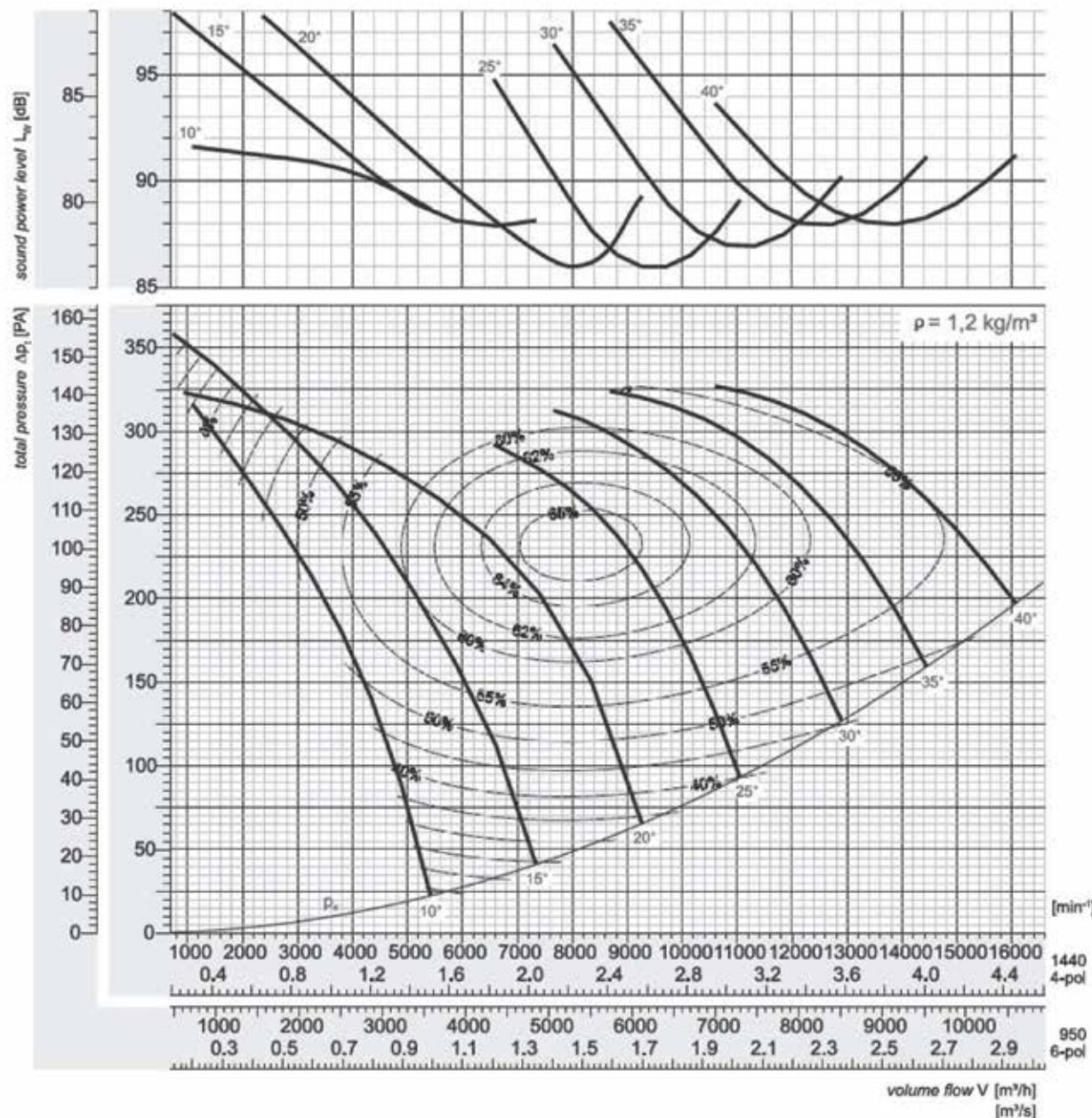


n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt											
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k	dBA		
950 motor	0,07	0,11	0,17	0,22	0,28	0,34	0,43		$L_{ws}$ saugseitig inlet	-2	-7	-7	-10	-7	-11	-15	-21	-31	-6
	0,37						0,55		$L_{ws}$ druckseitig outlet	0	-7	-8	-8	-7	-10	-12	-18	-26	-5
1440 motor	0,24	0,39	0,58	0,75	0,97	1,18	1,51	Total	-1	-10	-10	-8	-8	-11	-13	-17	-24	-6	
	0,55		0,75	1,1		1,5	2,2		$L_{ws}$ druckseitig outlet	0	-7	-7	-9	-10	-12	-13	-15	-22	-7
2880 2-pol	1,95	3,08	4,62	6,04	7,72	9,45	12,05	Total	-0	-10	-15	-7	-6	-10	-13	-18	-22	-5	
	2,2	4,0	5,5	7,5	11,0		15,0		$L_{ws}$ druckseitig outlet	0	-9	-11	-7	-7	-9	-11	-14	-18	-4

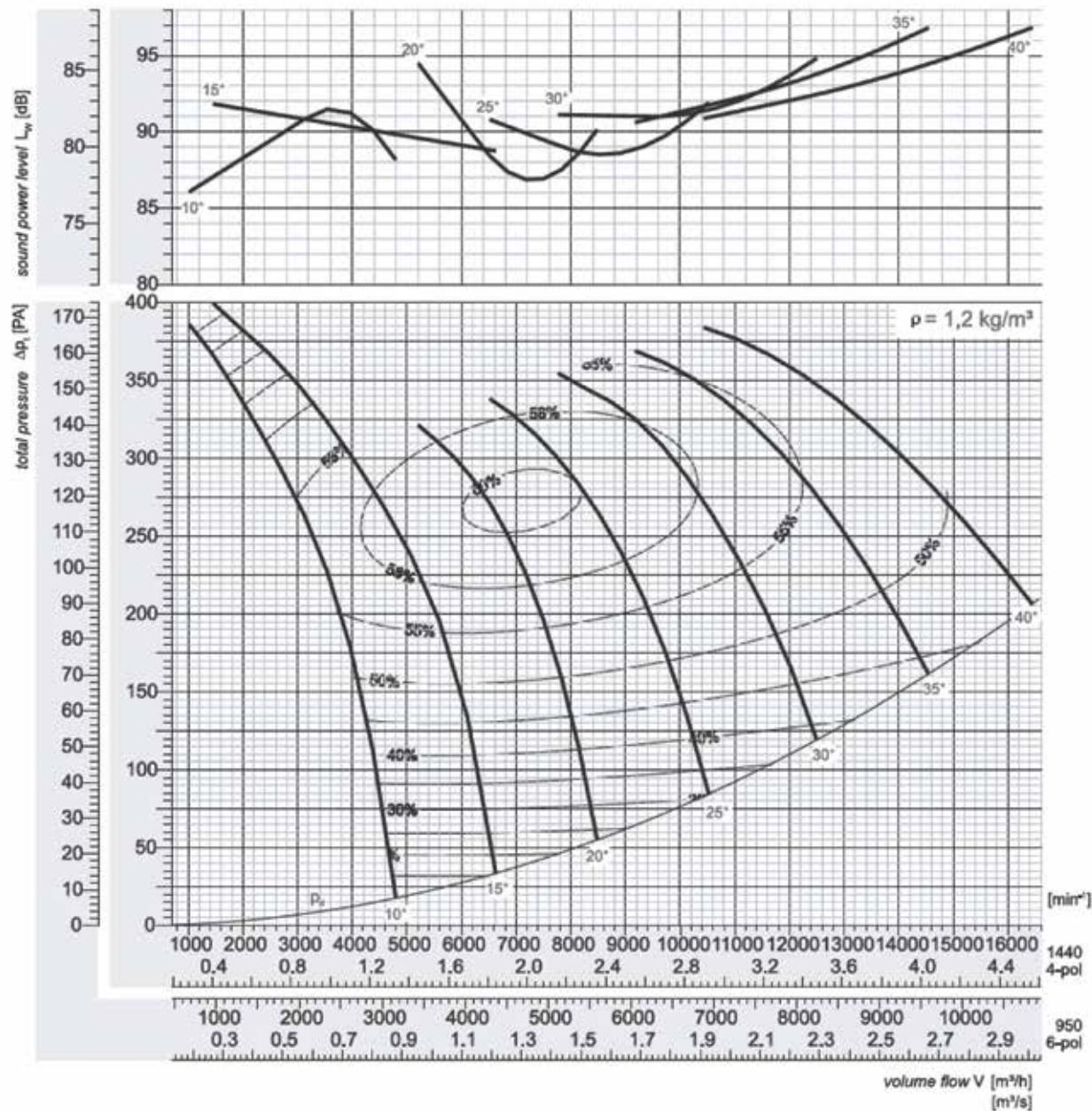
**AR 560-9**

n [min⁻¹]	peak absorbed power [kW]													relative frequency spectrum $\Delta L$ in dB/Okt							
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,10 0,37	0,12	0,14	0,16	0,18	0,21	0,23	0,26	0,29	0,31	0,33	0,38	0,41	-3	-5	-7	-7	-8	-12	-18	-24
1440 motor	0,36 0,55	0,42	0,50	0,55	0,64	0,72	0,79	0,89	1,01	1,06	1,13	1,32	1,45	-5	-6	-5	-6	-7	-10	-15	-21
2880 motor	2,87 3,0	3,38 4,0	3,99 5,5	4,43 7,5	5,08 11	5,77 15	6,32 8,04	7,13 8,50	8,04 9,07	8,50 10,6	9,07 11,6	-5	-10	-7	-5	-7	-8	-12	-18		

# AR 560-10

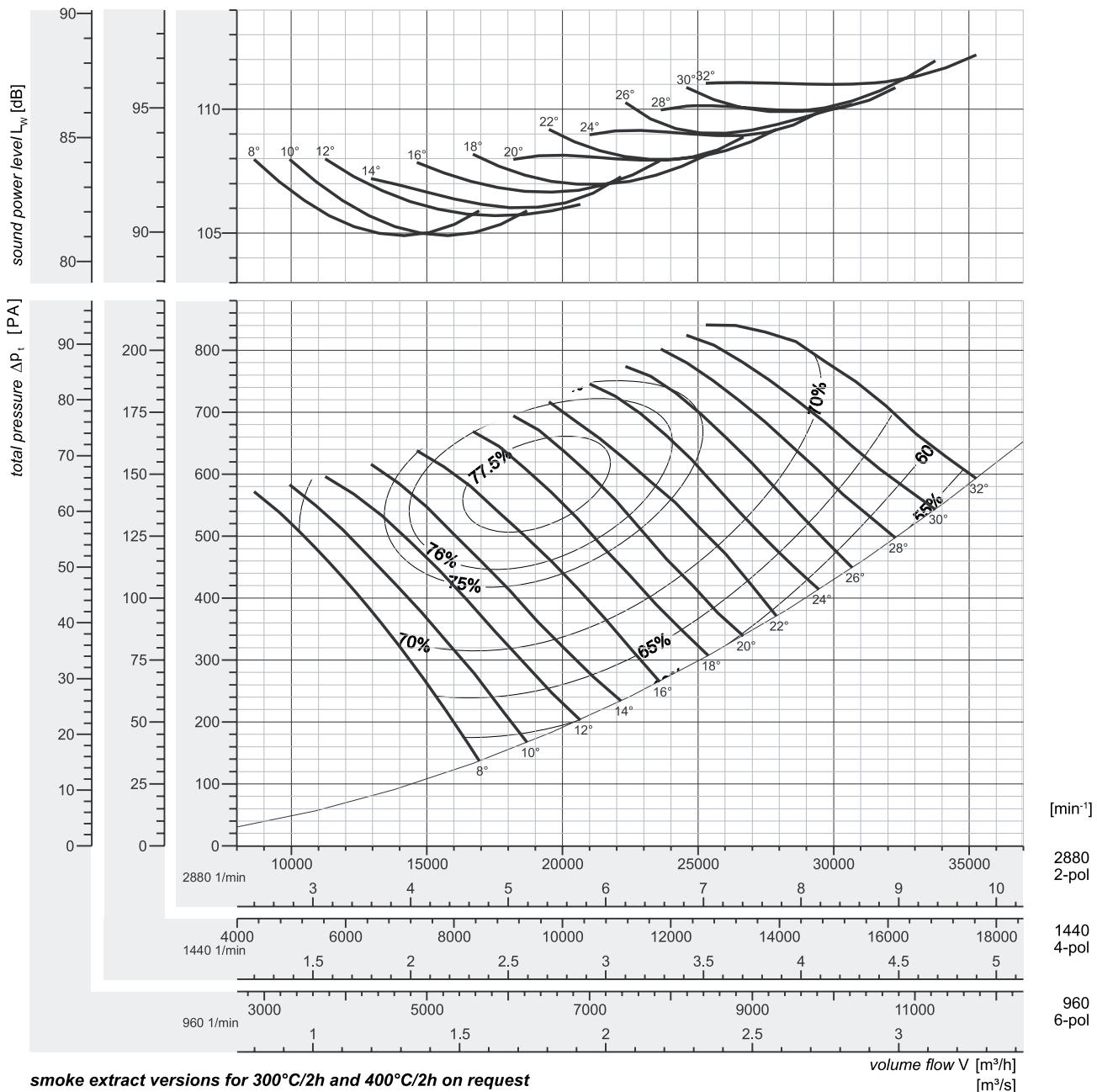


n [min⁻¹]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt									
	pitch angle [°]							Total	Octave b. midfr. [Hz]								
950 motor	10	15	20	25	30	35	40		63	125	250	500	1k	2k	4k	8k	
	0,11	0,14	0,20	0,26	0,34	0,44	0,56	$L_{ws}$ saugseitig inlet	-0	-8	-10	-7	-7	-11	-15	-21	-34
1440 motor	0,37	0,49	0,68	0,92	1,18	1,53	1,94		0	-8	-9	-7	-7	-9	-13	-19	-29
	0,55	0,75	1,1	1,5	2,2			$L_{ws}$ druckseitig outlet	-1	-13	-13	-8	-7	-7	-11	-14	-24
									0	-10	-12	-8	-8	-9	-11	-14	-23

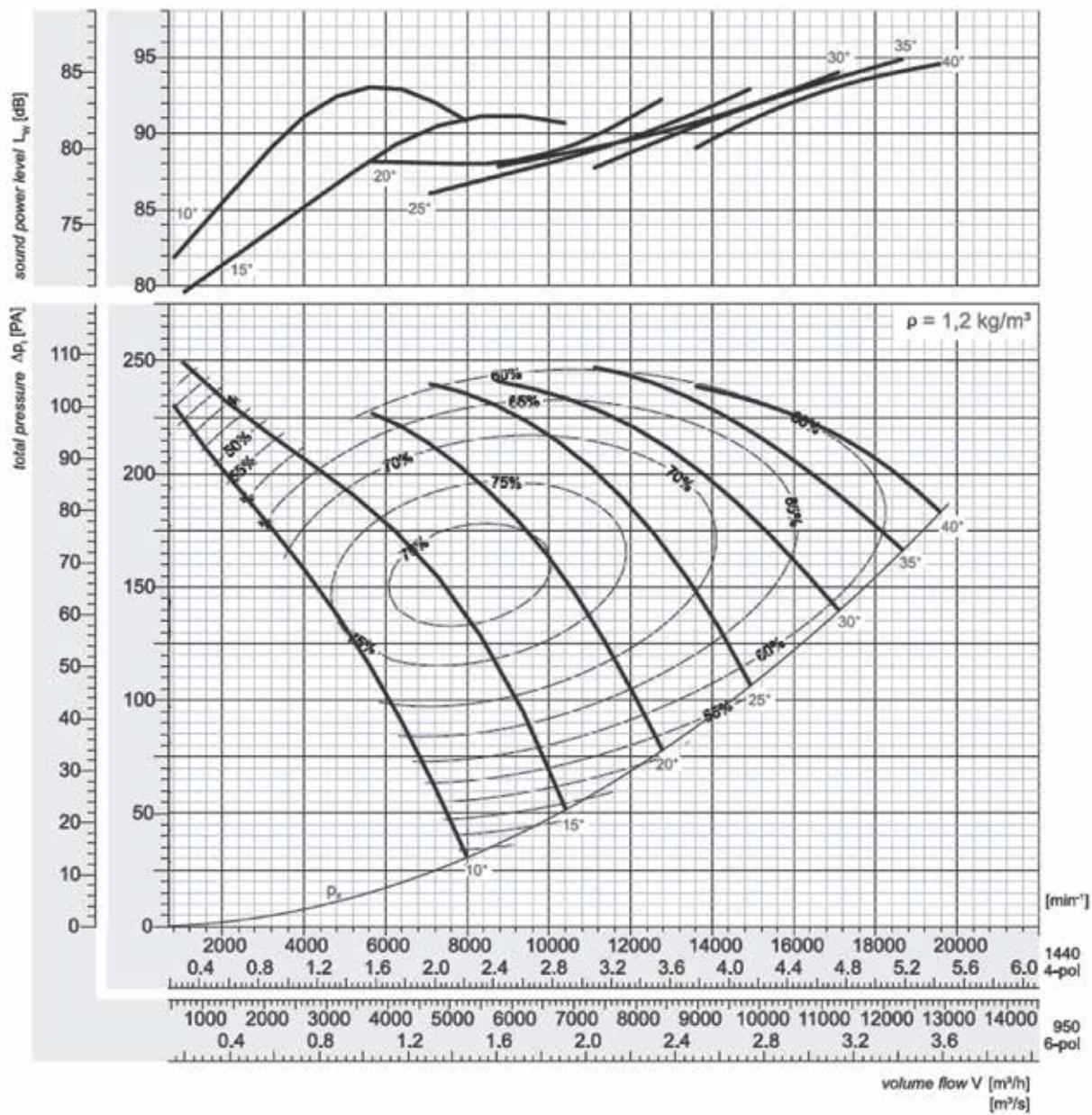
**AR 560-14**

n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	10	15	20	25	30	35	40	Total	Octave b. midfr. [Hz]									
950 motor	0,12	0,17	0,24	0,32	0,41	0,51	0,66		$L_{ws}$ saugseitig inlet	-2	-11	-13	-8	-6	-10	-14	-20	-33
	0,37				0,55		0,75	$L_{ws}$ druckseitig outlet	0	-8	-11	-8	-6	-9	-13	-18	-25	-5
1440 motor	0,42	0,59	0,84	1,11	1,41	1,79	2,31	$L_{ws}$ saugseitig inlet	0	-16	-17	-8	-6	-9	-12	-16	-28	-4
	0,55	0,75	1,1	1,5		2,2	3,0	$L_{ws}$ druckseitig outlet	0	-9	-12	-8	-7	-10	-11	-14	-22	-3

## AR 630-3

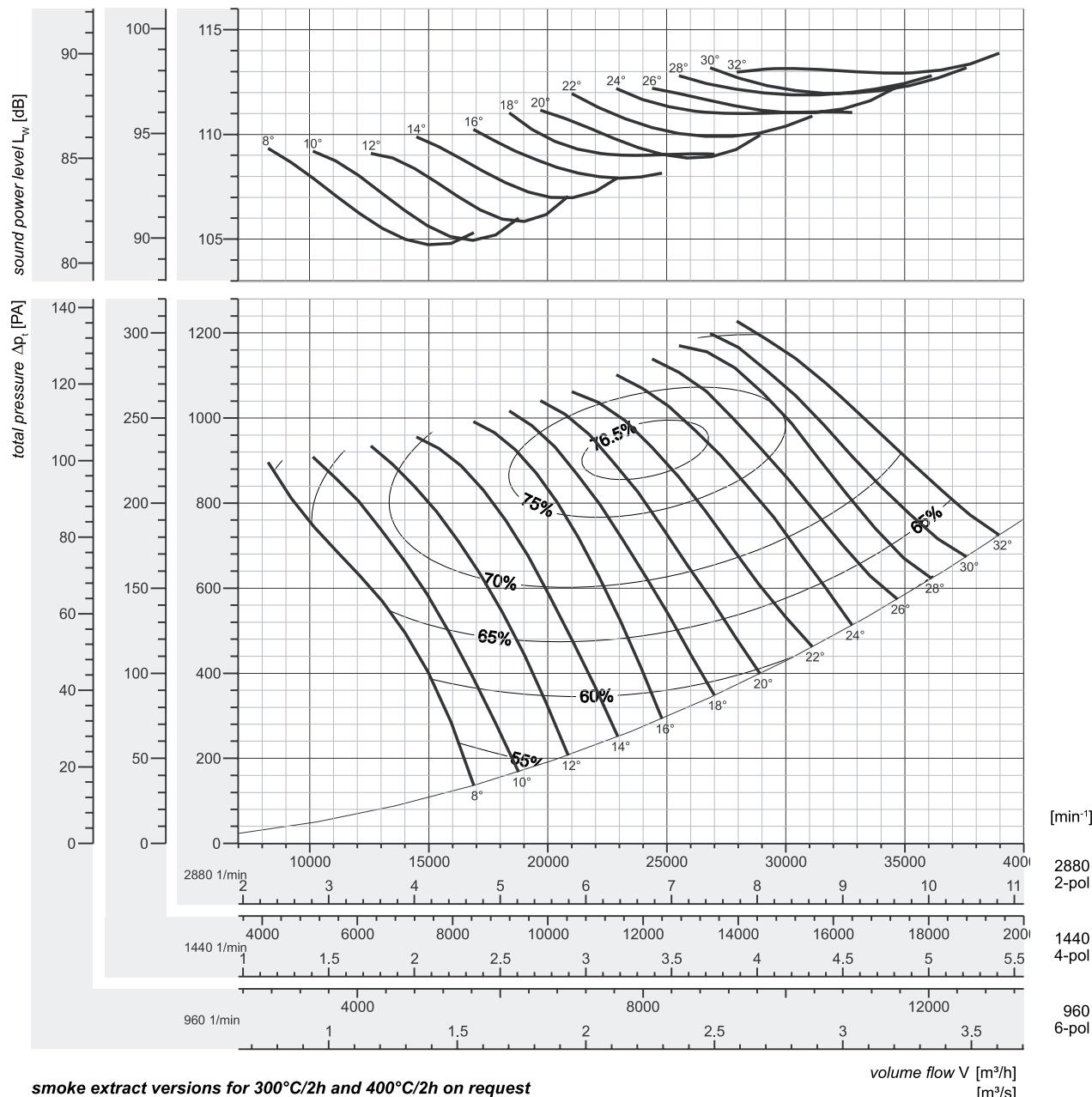


n [min <sup>-1</sup> ]	Peak absorbed power [kW]												relative frequency spectrum $\Delta L$ in dB/Okt								
	pitch angle [°]												Octave b. midfr. [Hz]								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,08 0,37	0,08	0,10	0,11	0,13	0,15	0,17	0,18	0,21	0,24	0,29	0,34	0,39 0,55	-3	-5	-7	-7	-8	-12	-18	-24
1440 motor	0,26 0,55	0,28	0,33	0,37	0,44	0,51	0,58	0,64	0,74	0,85	1,01	1,18	1,37	-4	-7	-7	-7	-10	-15	-21	-27
2880 motor	2,10 2,2	2,21	2,66	2,97	3,50	4,06	4,60	5,10	5,93	6,80	8,07	9,42	10,9	-5	-6	-5	-6	-7	-10	-15	-21

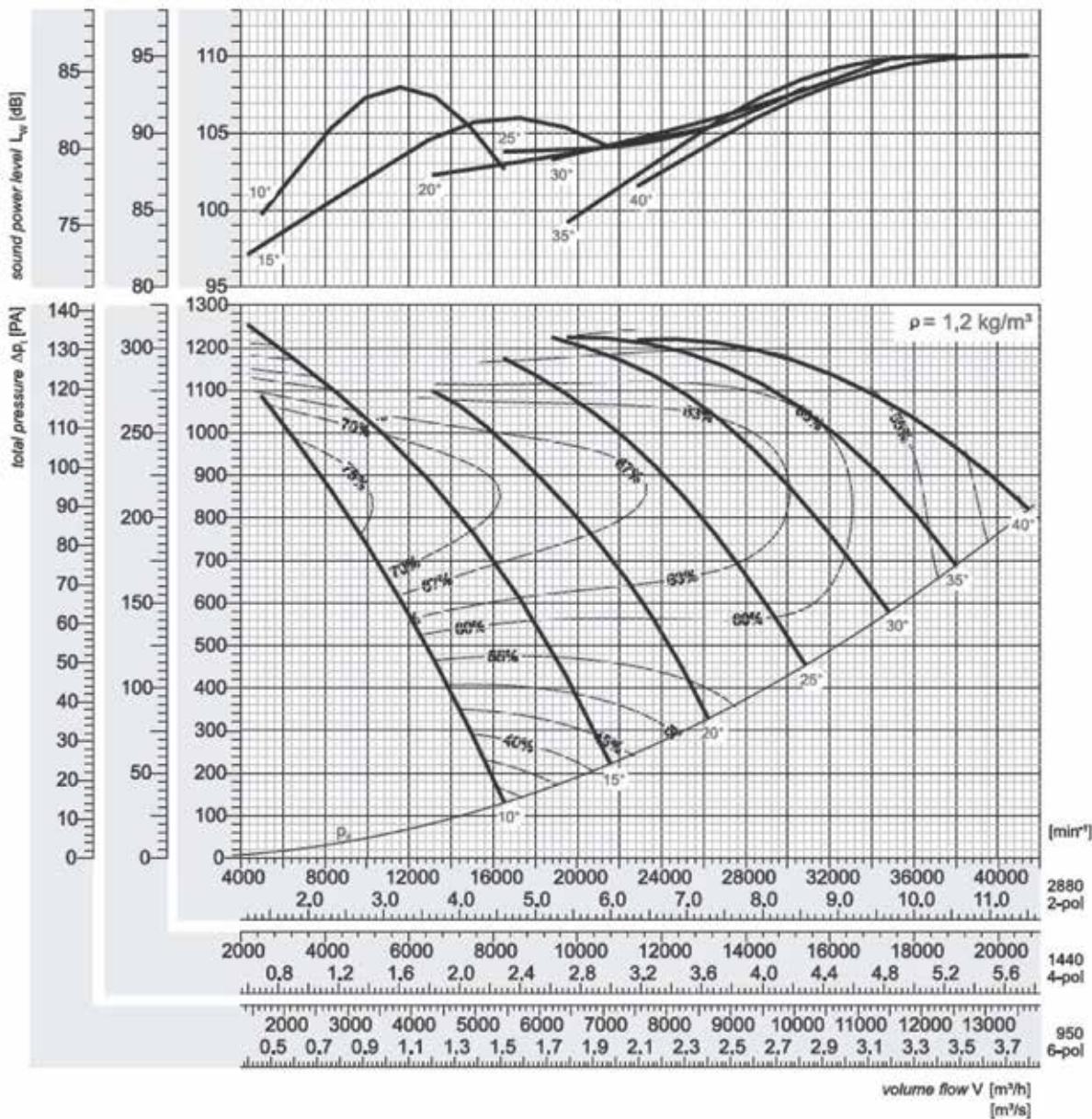
**AR 630-5**

n [min $^{-1}$ ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt											
	pitch angle [°]							$L_{ws}$ saugseitig inlet	$L_{wm}$ druckseitig outlet	Total	63	125	250	500	1k	2k	4k	8k	dBA
950 motor	10	15	20	25	30	35	40			-0	-4	-9	-9	-7	-12	-16	-20	-32	-6
	0,07	0,12	0,17	0,24	0,32	0,41	0,51	0,37	0,55	0	-5	-11	-8	-6	-9	-15	-19	-26	-4
1440 motor	0,24	0,40	0,60	0,85	1,11	1,44	1,79	$L_{ws}$ saugseitig inlet	$L_{wm}$ druckseitig outlet	0	-6	-5	-10	-10	-10	-13	-16	-25	-6
	0,55		0,75	1,1	1,5		2,2			0	-7	-6	-11	-11	-11	-13	-15	-23	-6

## AR 630-6

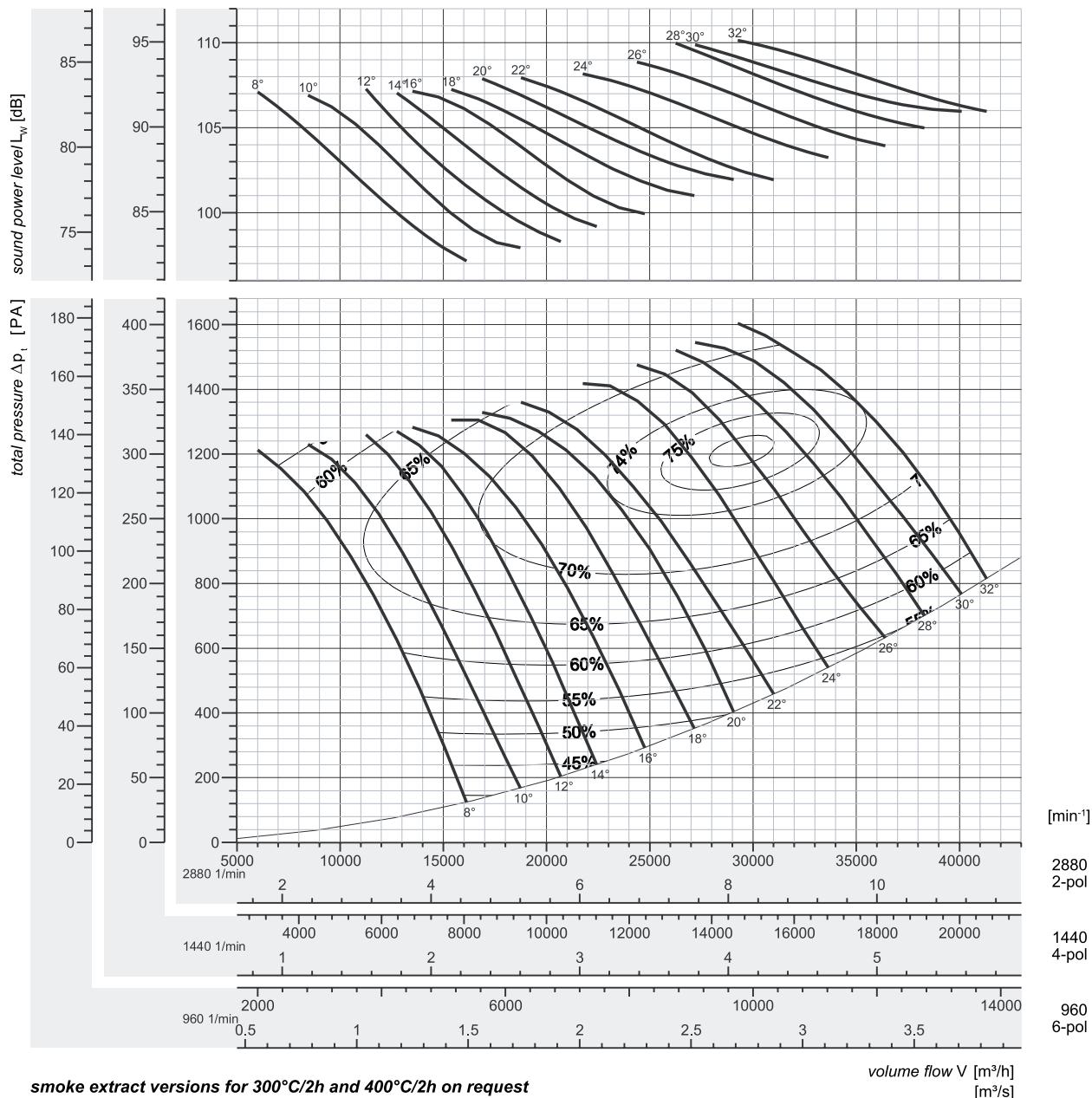


n [min <sup>-1</sup> ]	peak absorbed power [kW]												relative frequency spectrum $\Delta L$ in dB/Okt								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,12	0,15	0,18	0,21	0,24	0,27	0,28	0,31	0,34	0,39	0,42	0,46	0,50	-							
	0,37									0,55				-3	-5	-7	-7	-8	-12	-18	-24
1440 motor	0,42	0,51	0,62	0,72	0,83	0,93	0,99	1,08	1,20	1,36	1,47	1,62	1,75	-							
	0,55		0,75		1,1				1,5			2,2		-7	-3	-7	-7	-8	-12	-18	-24
2880 motor	3,39	4,07	4,92	5,73	6,63	7,41	7,90	8,62	9,61	10,8	11,8	12,9	14,0	-							
	4,0	5,5		7,5			11,0			15,0				-5	-10	-7	-5	-7	-8	-12	-18

**AR 630-7**

n [min <sup>-1</sup> ]	peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt									dBA	
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k		
motor	0,11	0,17	0,25	0,33	0,43	0,56	0,71	$L_{\text{ws}}$ saugseitig inlet	-2	-8	-7	-9	-8	-11	-15	-20	-31	-6
	0,37				0,55	0,75		$L_{\text{ws}}$ druckseitig outlet	0	-6	-8	-9	-7	-10	-13	-19	-26	-5
motor	0,39	0,58	0,87	1,17	1,49	1,94	2,48	$L_{\text{ws}}$ saugseitig inlet	-2	-9	-9	-7	-7	-10	-13	-17	-24	-5
	0,55	0,75	1,1	1,5	2,2	3,0		$L_{\text{ws}}$ druckseitig outlet	0	-7	-8	-10	-11	-13	-14	-16	-22	-8
motor	3,08	4,62	6,98	9,32	11,9	15,6	19,8	$L_{\text{ws}}$ saugseitig inlet	0	-10	-16	-7	-7	-10	-14	-18	-22	-6
	4,0	5,5	7,5	11,0	15,0	18,5	22,0	$L_{\text{ws}}$ druckseitig outlet	0	-9	-11	-7	-8	-9	-11	-14	-18	-5

## AR 630-9

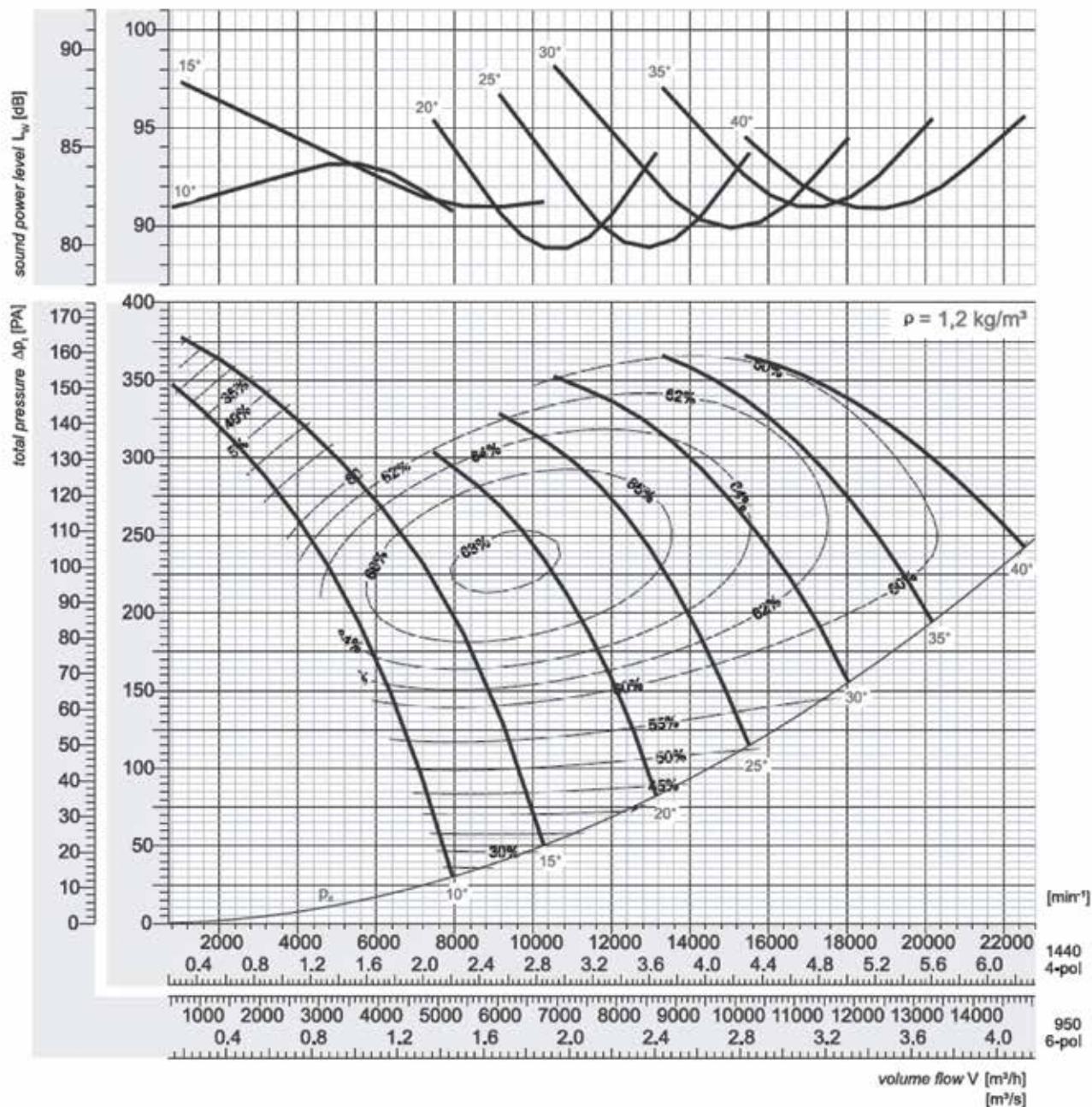


smoke extract versions for 300°C/2h and 400°C/2h on request

volume flow  $V$  [m³/h]  
[m³/s]

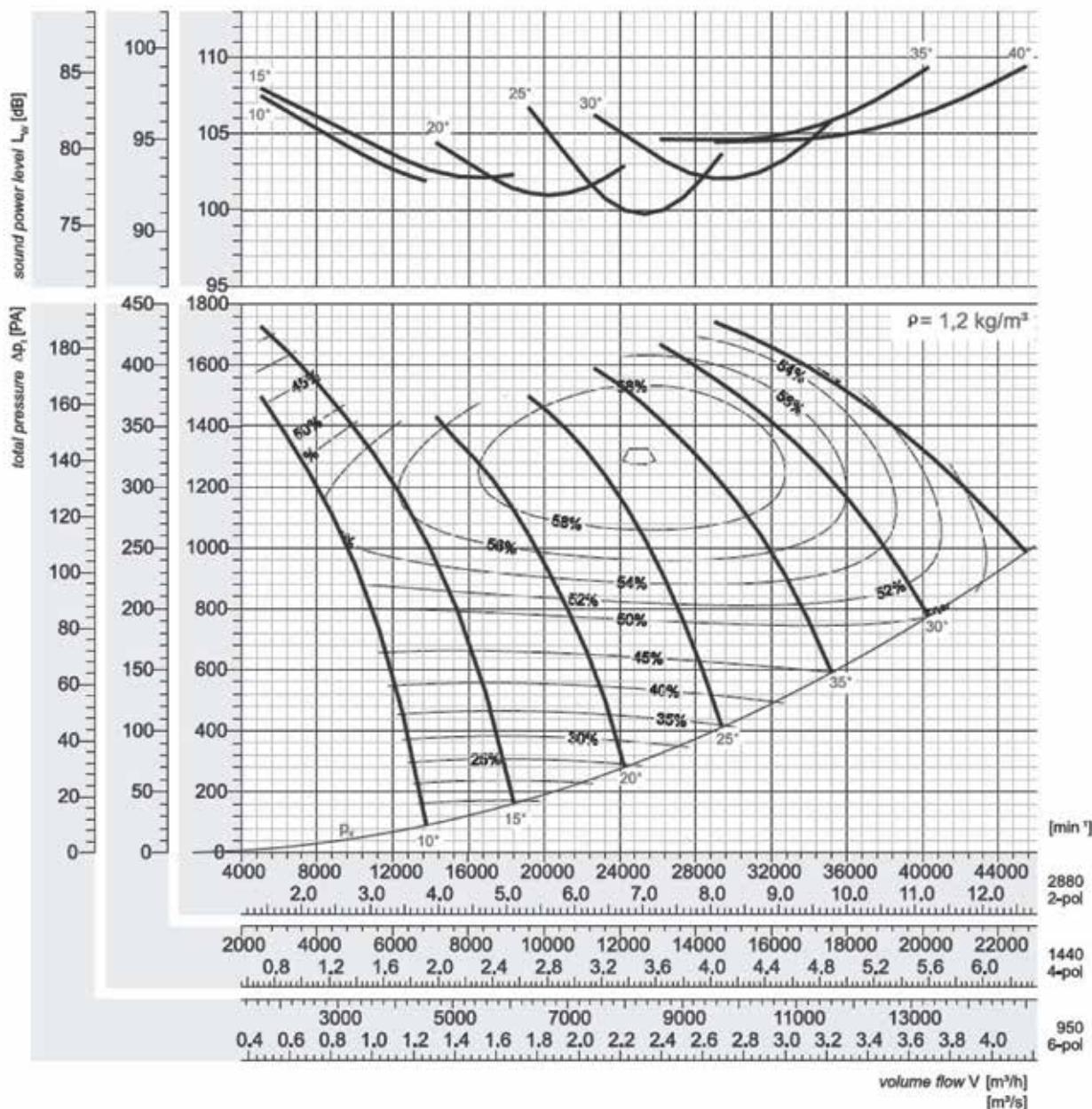
n [min⁻¹]	Peak absorbed power [kW]												relative frequency spectrum $\Delta L$ in dB/Okt								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,15	0,20	0,25	0,28	0,29	0,33	0,36	0,40	0,47	0,55	0,61	0,64	0,71	-3	-5	-7	-7	-8	-12	-18	-24
1440 motor	0,53	0,69	0,88	0,96	1,02	1,15	1,24	1,41	1,65	1,90	2,11	2,22	2,47	-5	-6	-5	-6	-7	-10	-15	-21
2880 motor	4,24	5,52	7,04	7,68	8,16	9,20	9,92	11,3	13,2	15,2	16,9	17,8	-*	-5	-10	-7	-5	-7	-8	-12	-18
5,5	7,5		11,0					15,0		18,5											

\* nicht möglich / out of range

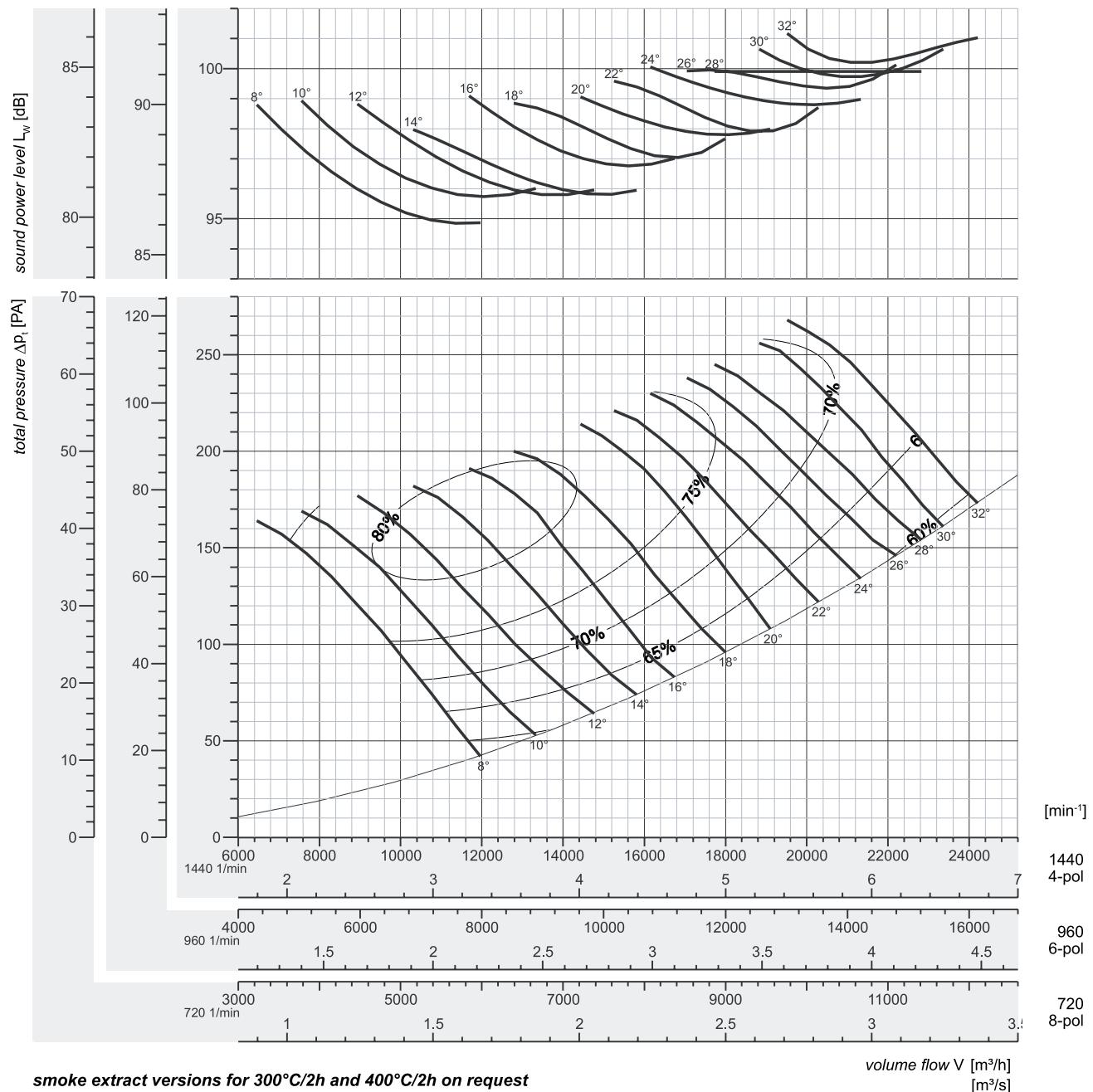
**AR 630-10**

n [min <sup>-1</sup> ]	peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt											
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k	dBA		
950 motor	0,14	0,21	0,30	0,40	0,52	0,66	0,81		$L_{ws}$ saugseitig inlet	-2	-9	-10	-8	-7	-10	-15	-21	-33	-6
	0,37			0,55		0,75	1,1		$L_{ws}$ druckseitig outlet	0	-7	-9	-8	-7	-9	-13	-18	-28	-5
1440 motor	0,47	0,72	1,06	1,40	1,82	2,29	2,83	Total	-0	-13	-17	-9	-6	-7	-11	-14	-22	-3	
	0,55	0,75	1,1	1,5	2,2	3,0	$L_{ws}$ druckseitig outlet	0	-10	-14	-8	-7	-8	-10	-14	-21	-4		

# AR 630-14

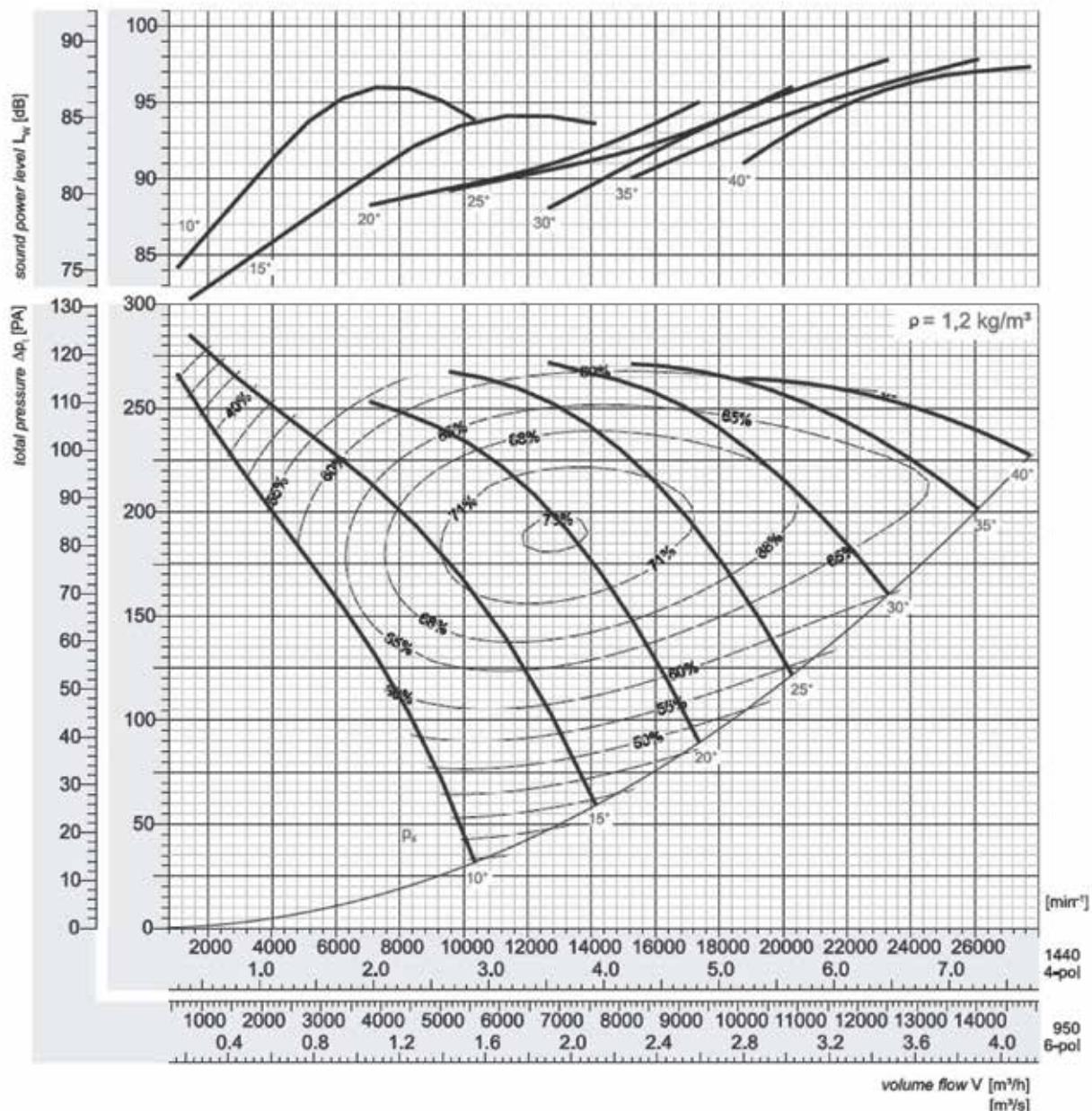


n [min⁻¹]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt											
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k	dBA		
950 motor	0,18	0,26	0,38	0,49	0,64	0,81	1,02		$L_{ws}$ saugseitig inlet	-2	-10	-14	-7	-6	-10	-14	-18	-33	-5
	0,37		0,55		0,75	1,1			$L_{ws}$ druckseitig outlet	0	-7	-12	-8	-7	-10	-14	-19	-25	-5
1440 motor	0,63	0,90	1,33	1,70	2,24	2,81	3,54	$L_{ws}$ saugseitig inlet	1	-14	-15	-9	-5	-8	-12	-15	-28	-4	
	0,75	1,1	1,5	2,2	3,0		4,0		$L_{ws}$ druckseitig outlet	0	-9	-12	-8	-7	-10	-11	-14	-23	-5
2880 motor	5,05	7,17	10,64	13,61	17,95	22,47	28,34	$L_{ws}$ saugseitig inlet	0	-13	-16	-13	-6	-6	-9	-13	-19	-2	
	5,5	7,5	11,0	15,0	18,5	-	-		$L_{ws}$ druckseitig outlet	0	-8	-11	-11	-7	-6	-7	-10	-16	-1

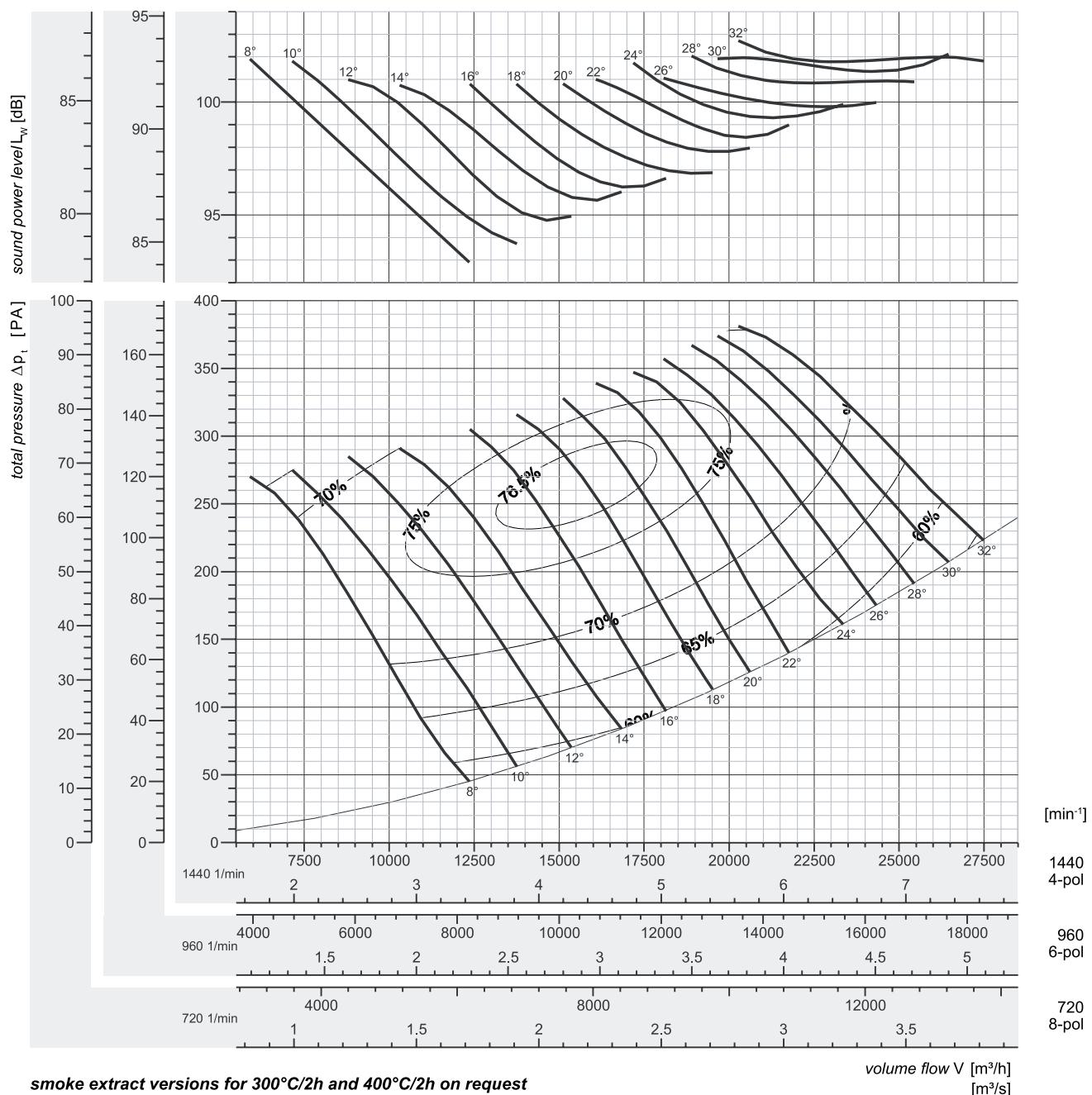
**AR 710-3**

n [min <sup>-1</sup> ]	Peak absorbed power [kW]												relative frequency spectrum $\Delta L$ in dB/Okt								
	pitch angle [°]												Octave b. midfr. [Hz]								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,12	0,14	0,16	0,20	0,23	0,26	0,32	0,35	0,40	0,44	0,48	0,54	0,61	-5 -7 -7 -8 -12 -18 -24 -30							
	0,37								0,55			0,75									
1440 motor	0,42	0,49	0,57	0,68	0,80	0,91	1,11	1,23	1,38	1,54	1,66	1,89	2,12	-4 -7 -7 -7 -10 -15 -21 -27							
	0,55		0,75		1,1		1,5			2,2											

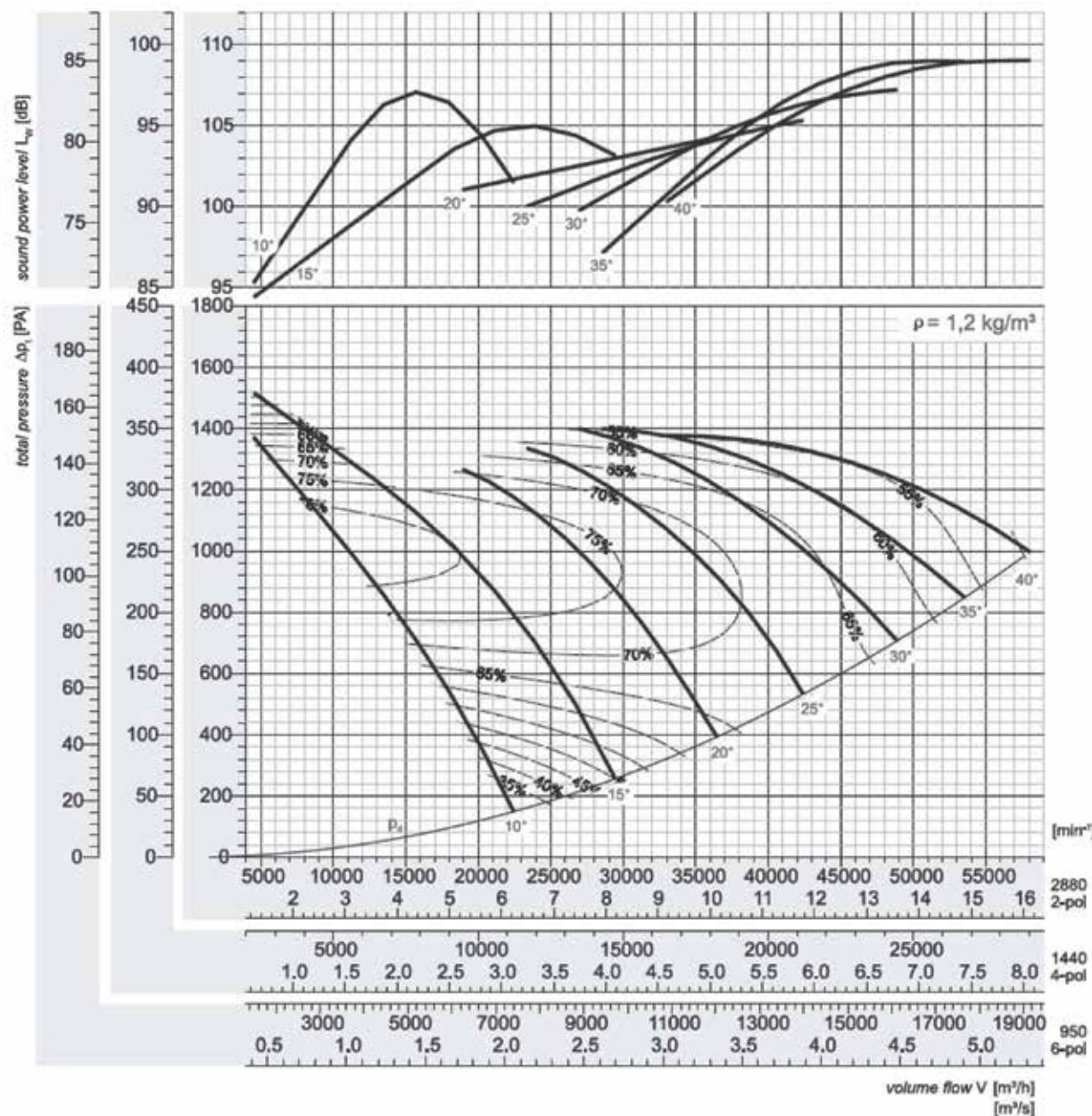
# AR 710-5



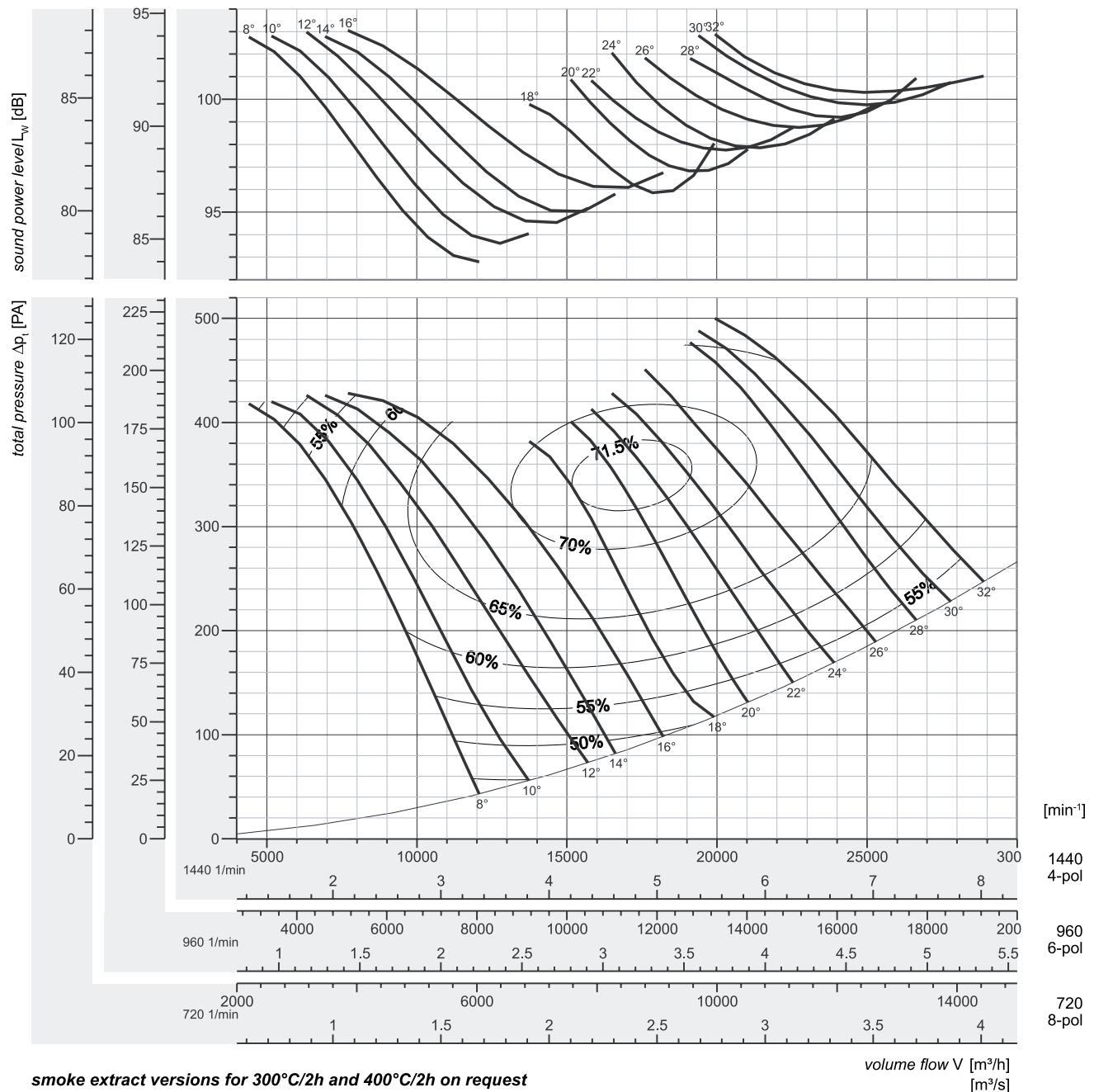
n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt									
	pitch angle [°]								Total	Octave b. midfr. [Hz]							
950 motor	10	15	20	25	30	35	40			63	125	250	500	1k	2k	4k	8k
	0,12	0,19	0,28	0,39	0,51	0,64	0,80	$L_{ws}$ saugseitig inlet	-3	-4	-9	-11	-6	-12	-17	-21	-32
1440 motor	0,37			0,55		0,75	1,1	$L_{ws}$ druckseitig outlet	0	-5	-12	-11	-5	-10	-16	-20	-27
	0,42	0,67	0,98	1,36	1,77	2,22	2,77	$L_{ws}$ saugseitig inlet	0	-7	-5	-10	-10	-11	-14	-16	-25
	0,55	0,75	1,1	1,5	2,2	3,0		$L_{ws}$ druckseitig outlet	0	-8	-5	-10	-11	-11	-13	-15	-21

**AR 710-6**

# AR 710-7

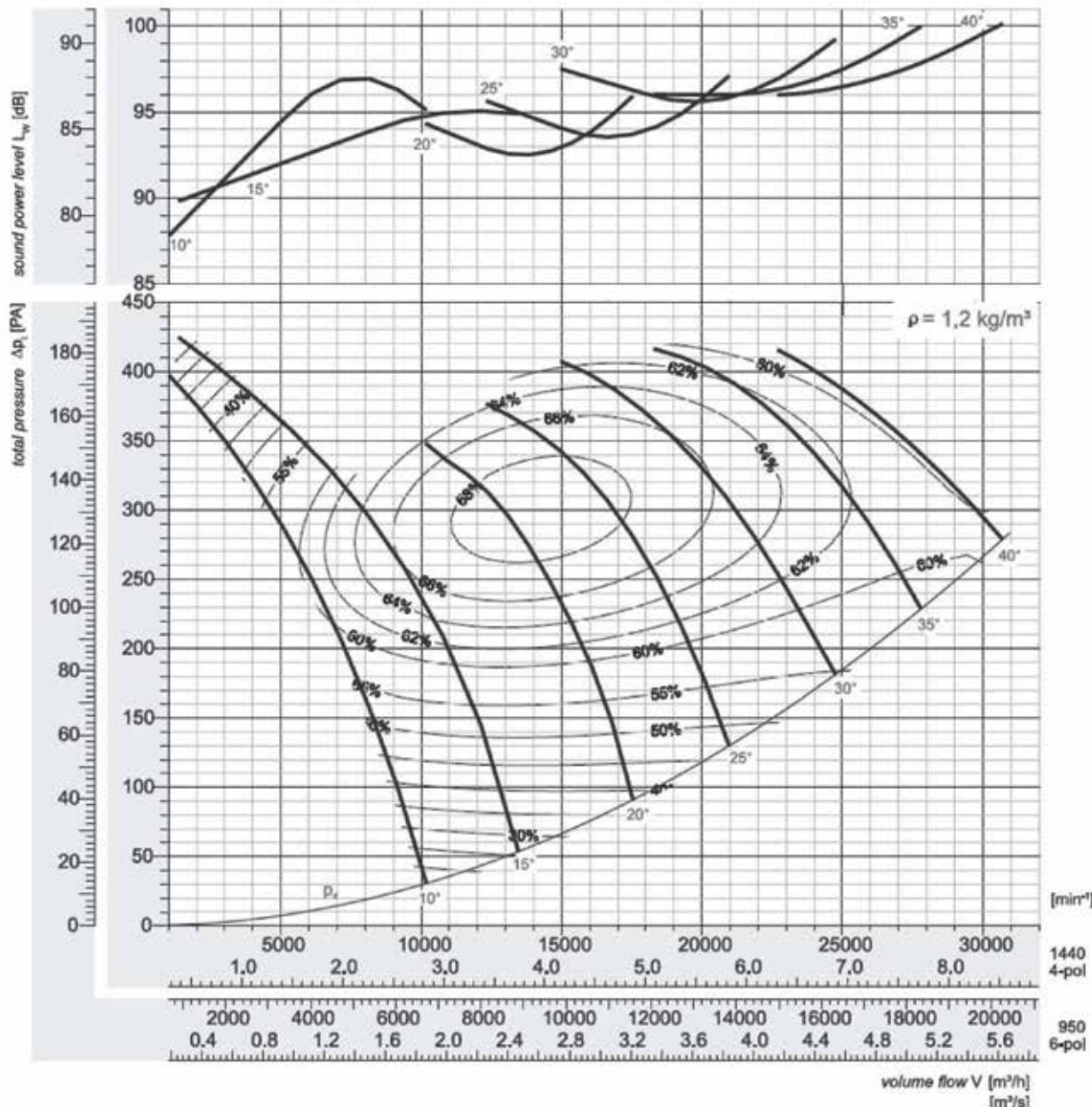


n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt												
	10	15	20	25	30	35	40	$L_{ws}$ saugseitig inlet		$L_{ws}$ druckseitig outlet		Total	63	125	250	500	1k	2k	4k	8k
950	0,16	0,24	0,37	0,50	0,67	0,87	1,15	$L_{ws}$ saugseitig inlet	-3	-6	-7	-11	-7	-12	-16	-20	-34	-34	-7	
motor	0,37				0,55	0,75	1,1	$L_{ws}$ druckseitig outlet	0	-7	-8	-11	-7	-10	-14	-18	-26	-26	-6	
1440	0,55	0,84	1,28	1,74	2,35	3,03	3,99	$L_{ws}$ saugseitig inlet	-2	-8	-9	-7	-8	-12	-15	-18	-29	-29	-6	
motor	0,75	1,1	1,5	2,2	3,0	4,0		$L_{ws}$ druckseitig outlet	0	-7	-8	-10	-10	-11	-13	-16	-22	-22	-7	
2880	4,44	6,74	10,2	14,0	18,8	24,2	31,9	$L_{ws}$ saugseitig inlet	0	-10	-16	-7	-7	-10	-14	-18	-22	-22	-6	
motor	5,5	7,5	11,0	15,0	22,0	-	-	$L_{ws}$ druckseitig outlet	0	-9	-11	-7	-8	-9	-11	-14	-18	-18	-5	

**AR 710-9**

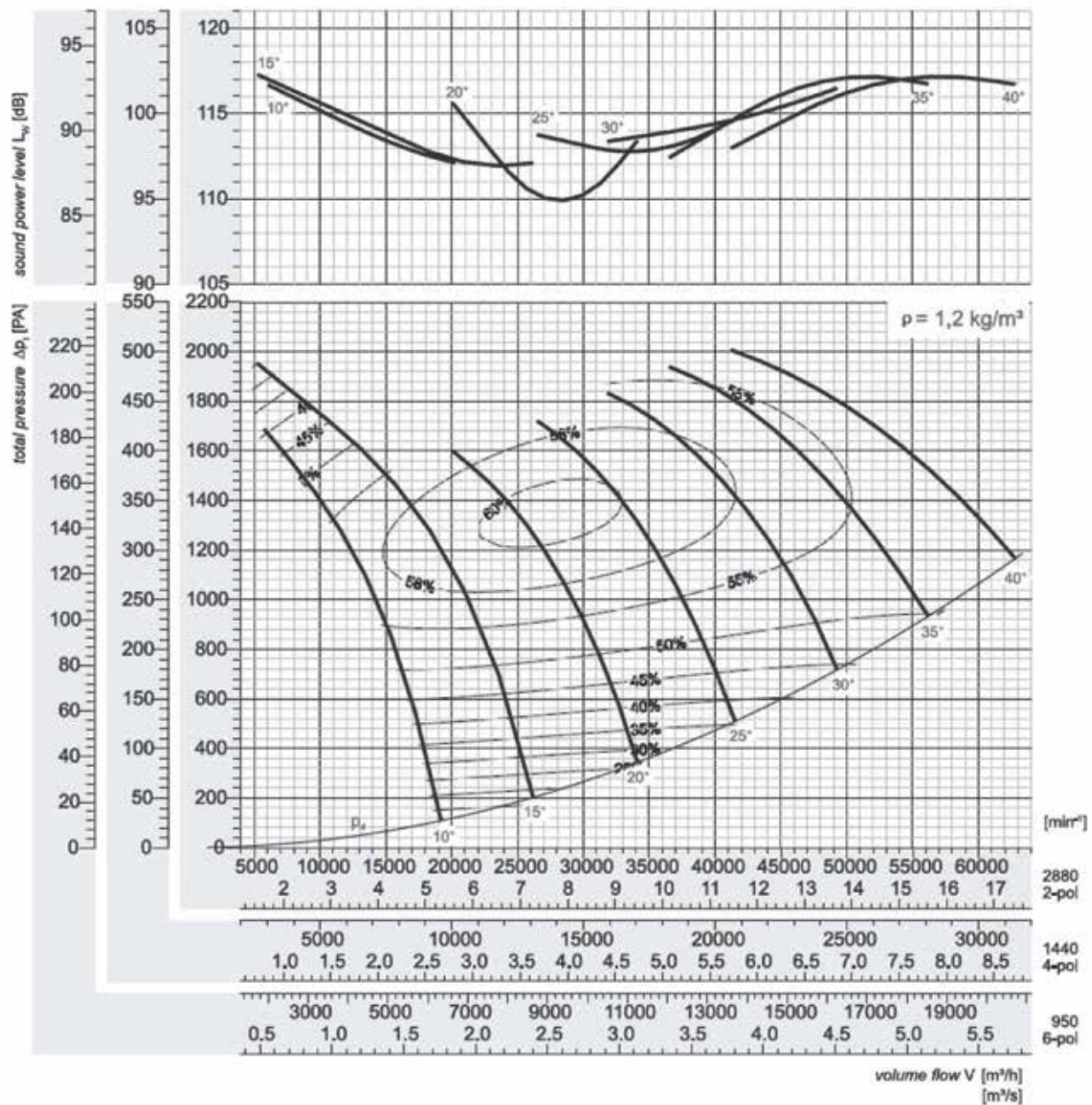
n [min <sup>-1</sup> ]	pitch angle [°]												relative frequency spectrum ΔL in dB/Okt								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,34	0,38	0,45	0,48	0,53	0,62	0,71	0,78	0,84	0,96	1,13	1,19	1,28	-10 -7 -5 -7 -8 -12 -18 -24							
	0,37	0,55				0,75		1,1			1,5										
1440 motor	1,19	1,34	1,55	1,68	1,86	2,17	2,48	2,70	2,93	3,35	3,95	4,16	4,46	-5 -6 -5 -6 -7 -10 -5 -21							
	1,5		2,2			3,0			4,0		5,5										

# AR 710-10



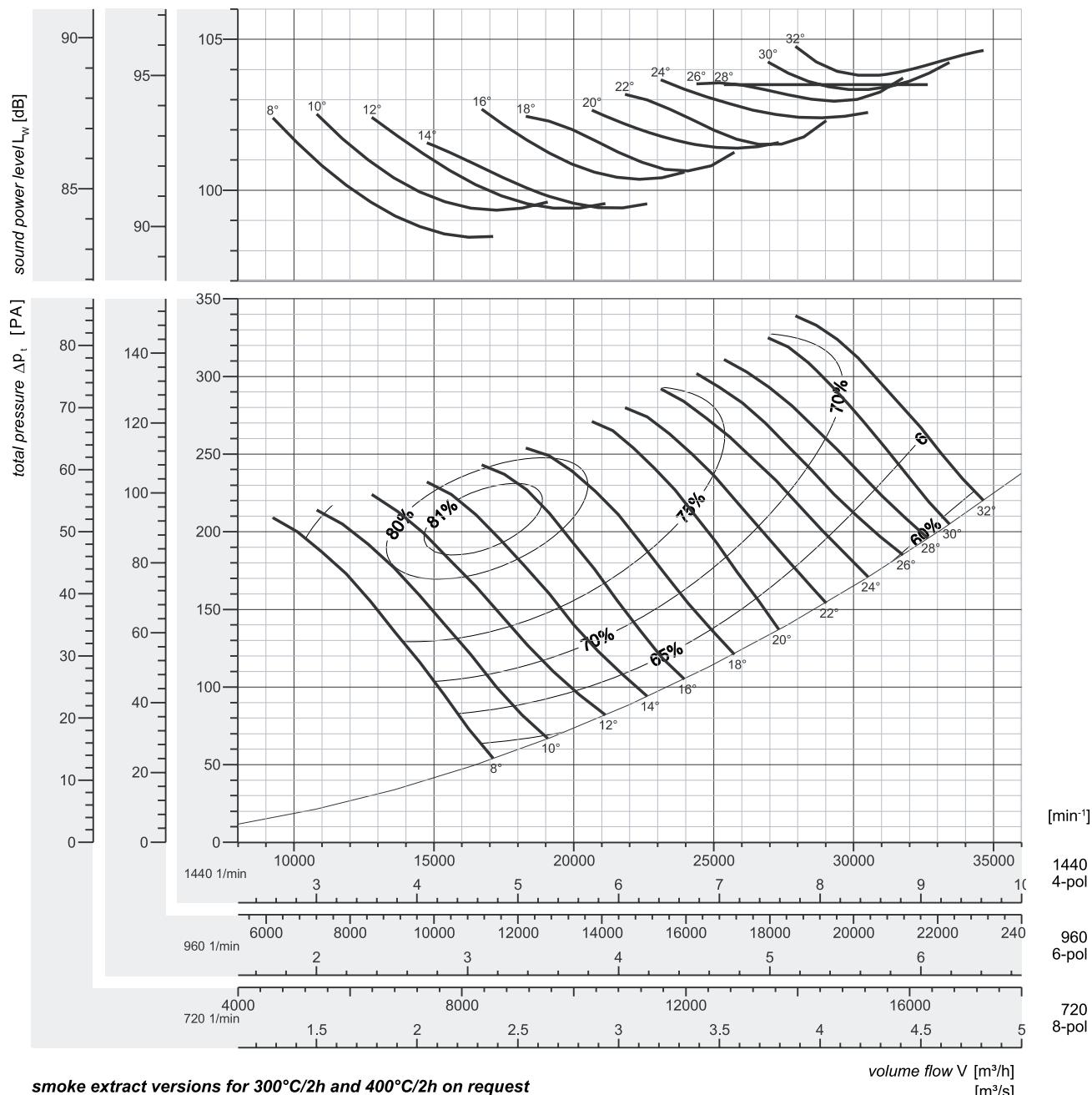
n [min <sup>-1</sup> ]	peak absorbed power [kW]						relative frequency spectrum $\Delta L$ in dB/Okt											
	pitch angle [°]						Total	63	125	250	500	1k	2k	4k	8k	dBA		
950 motor	0,21	0,30	0,45	0,62	0,82	1,05	1,29	$L_{ws}$ saugseitig inlet	-2	-9	-9	-8	-6	-12	-17	-21	-33	-6
	0,37		0,55	0,75	1,1		1,5	$L_{ws}$ druckseitig outlet	0	-7	-10	-9	-6	-9	-13	-17	-27	-4
1440 motor	0,72	1,03	1,55	2,16	2,85	3,66	4,48	$L_{ws}$ saugseitig inlet	-1	-10	-15	-7	-7	-9	-14	-17	-24	-5
	0,75	1,1	2,2		3,0	4,0	-	$L_{ws}$ druckseitig outlet	0	-9	-14	-10	-8	-9	-11	-14	-21	-5

## AR 710-14

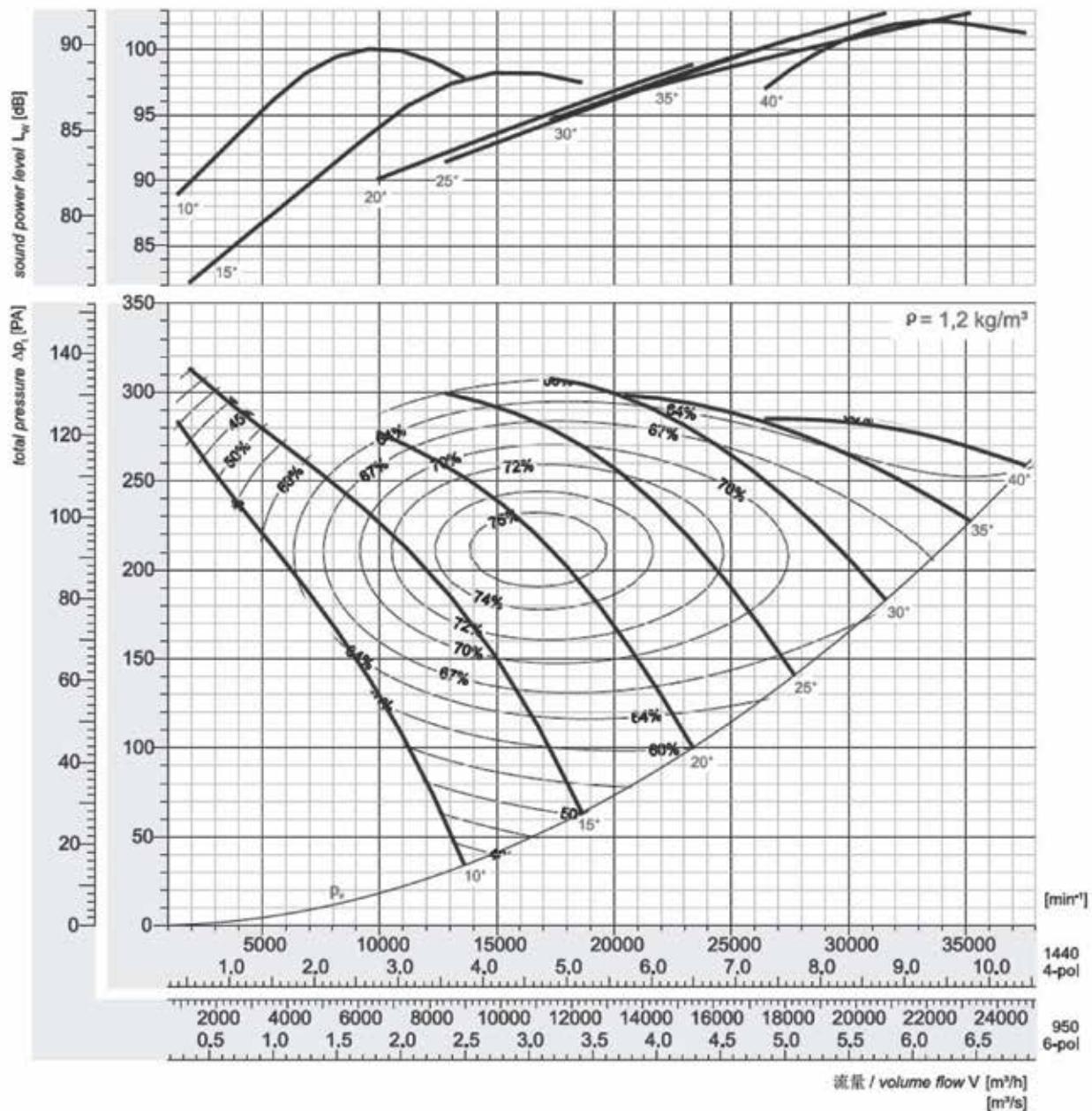


n [min <sup>-1</sup> ]	peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	pitch angle [°]							Total	Octave b. midfr. [Hz]									
950 motor	0,26	0,41	0,60	0,79	1,06	1,36	1,65		63	125	250	500	1k	2k	4k	8k	dBA	
	0,37	0,55	0,75	1,1		1,5	2,2		$L_{ws}$ druckseitig outlet	0	-7	-13	-9	-6	-10	-13	-18	-25
1440 motor	0,90	1,41	2,08	2,76	3,70	4,75	5,75		$L_{ws}$ saugseitig inlet	-1	-10	-16	-8	-6	-8	-12	-16	-26
	1,1	1,5	2,2	3,0	4,0	5,5	7,5		$L_{ws}$ druckseitig outlet	0	-8	-12	-9	-8	-9	-11	-14	-21
2880 motor	7,23	11,3	16,7	22,1	29,6	38,0	46,0		$L_{ws}$ saugseitig inlet	0	-13	-16	-13	-6	-6	-9	-13	-19
	7,5	15,0	18,5	-	-	-	-		$L_{ws}$ druckseitig outlet	0	-8	-11	-11	-7	-6	-7	-10	-16

## AR 800-3

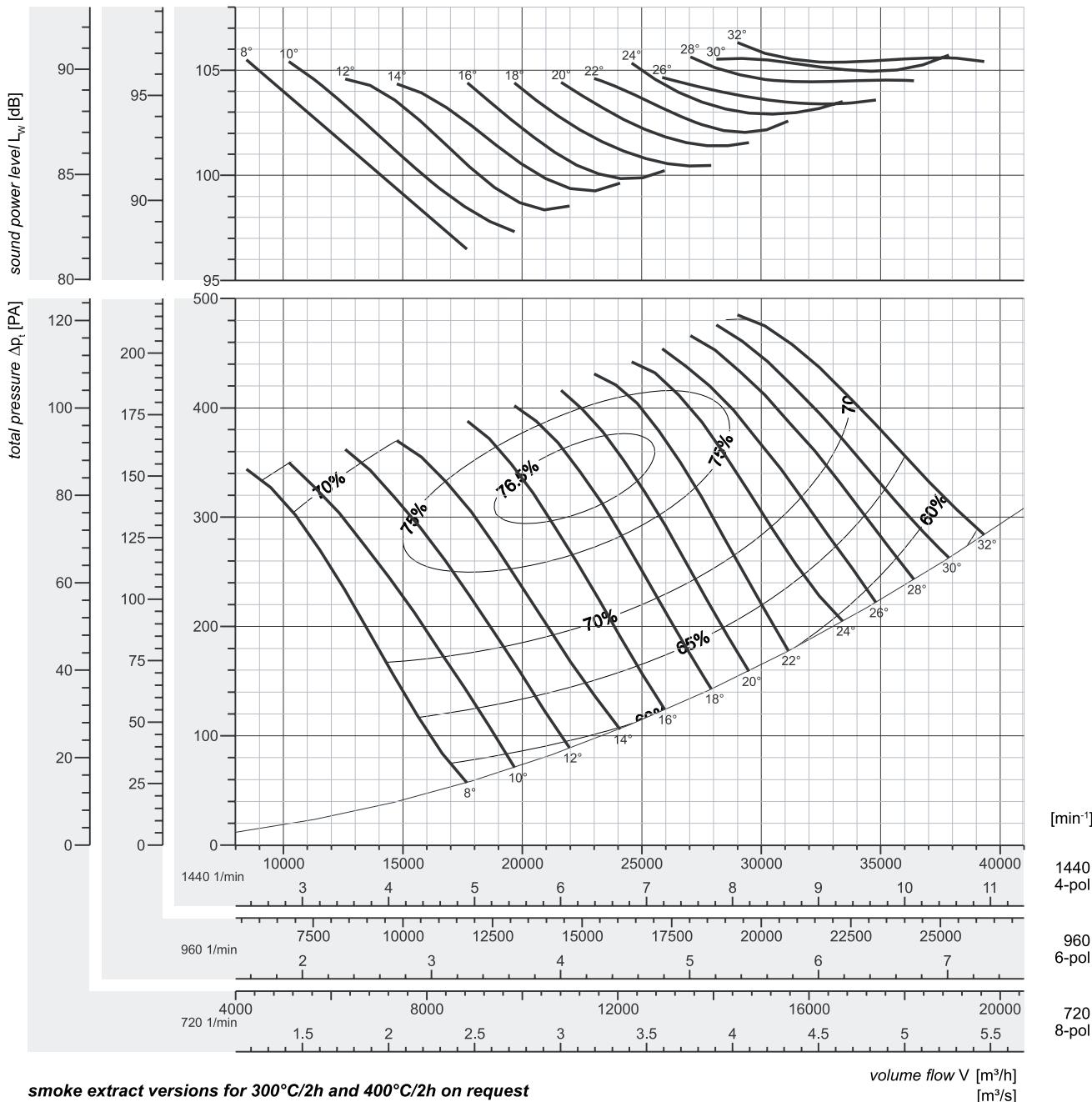


n [min <sup>-1</sup> ]	Peak absorbed power [kW]												relative frequency spectrum $\Delta L$ in dB/Okt								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,22	0,25	0,30	0,36	0,42	0,47	0,58	0,64	0,72	0,80	0,88	0,99	1,11	-5	-7	-7	-8	-12	-18	-24	-30
1440 motor	0,55					0,75			1,1												
1440 4-pol	0,77	0,88	1,04	1,24	1,45	1,65	2,02	2,24	2,51	2,79	3,05	3,43	3,86	-4	-7	-7	-7	-10	-15	-21	-27
960 6-pol	1,1			1,5		2,2		3,0		4,0											
720 8-pol																					

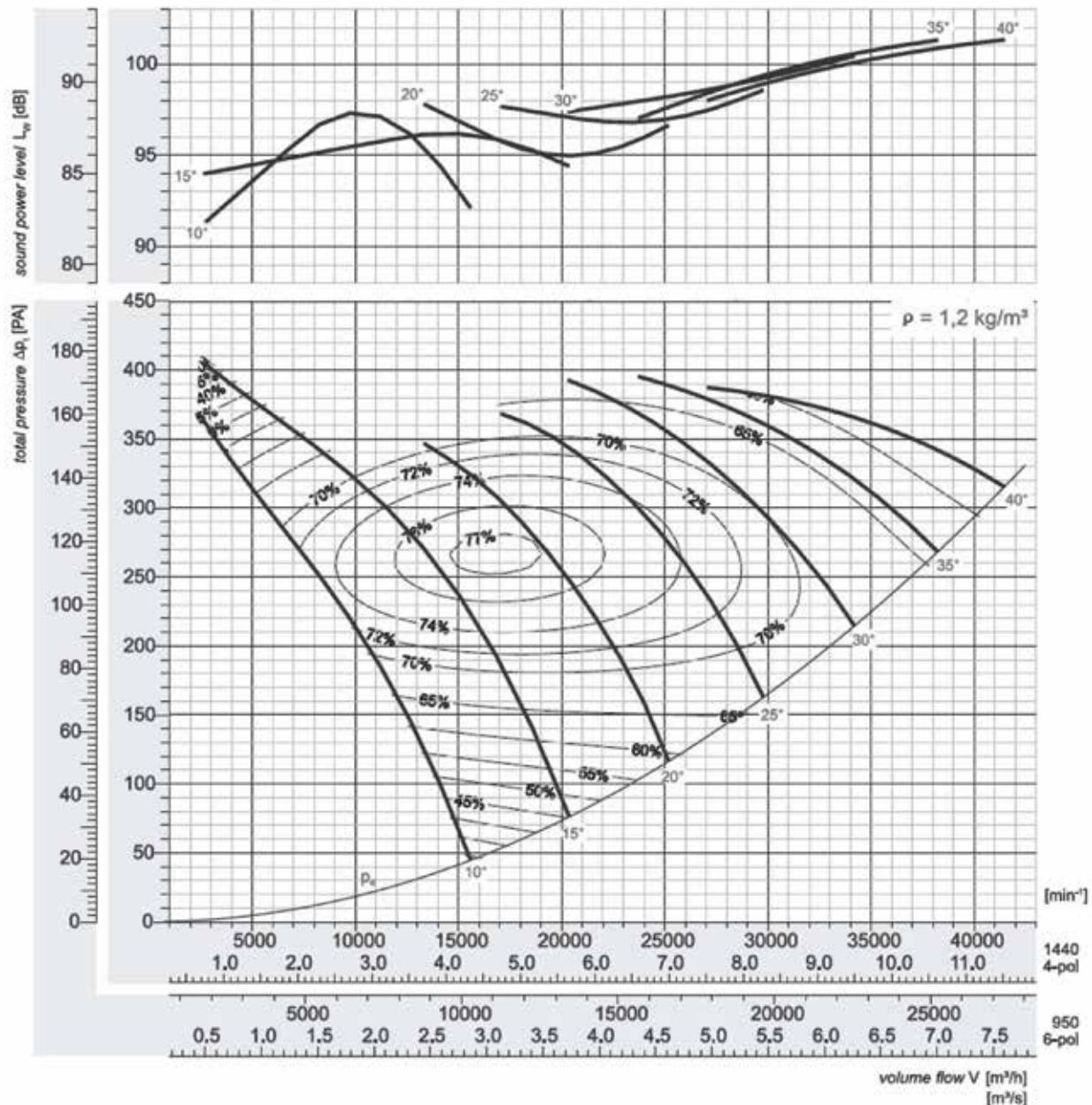
**AR 800-5**

n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt									dBA		
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k			
motor	0,18	0,27	0,41	0,56	0,73	0,97	1,25		L <sub>WS</sub> saugseitig inlet	-2	-5	-10	-10	-6	-11	-15	-20	-32	-6
	0,37		0,55	0,75		1,1	1,5		L <sub>WS</sub> druckseitig outlet	0	-4	-11	-11	-5	-9	-15	-19	-27	-5
motor	0,62	0,93	1,41	1,97	2,55	3,37	4,37		L <sub>WS</sub> saugseitig inlet	1	-8	-5	-8	-10	-12	-15	-17	-25	-7
	0,75	1,1	1,5	2,2	3,0	4,0	-		L <sub>WS</sub> druckseitig outlet	0	-11	-5	-11	-11	-12	-13	-15	-21	-7

## AR 800-6



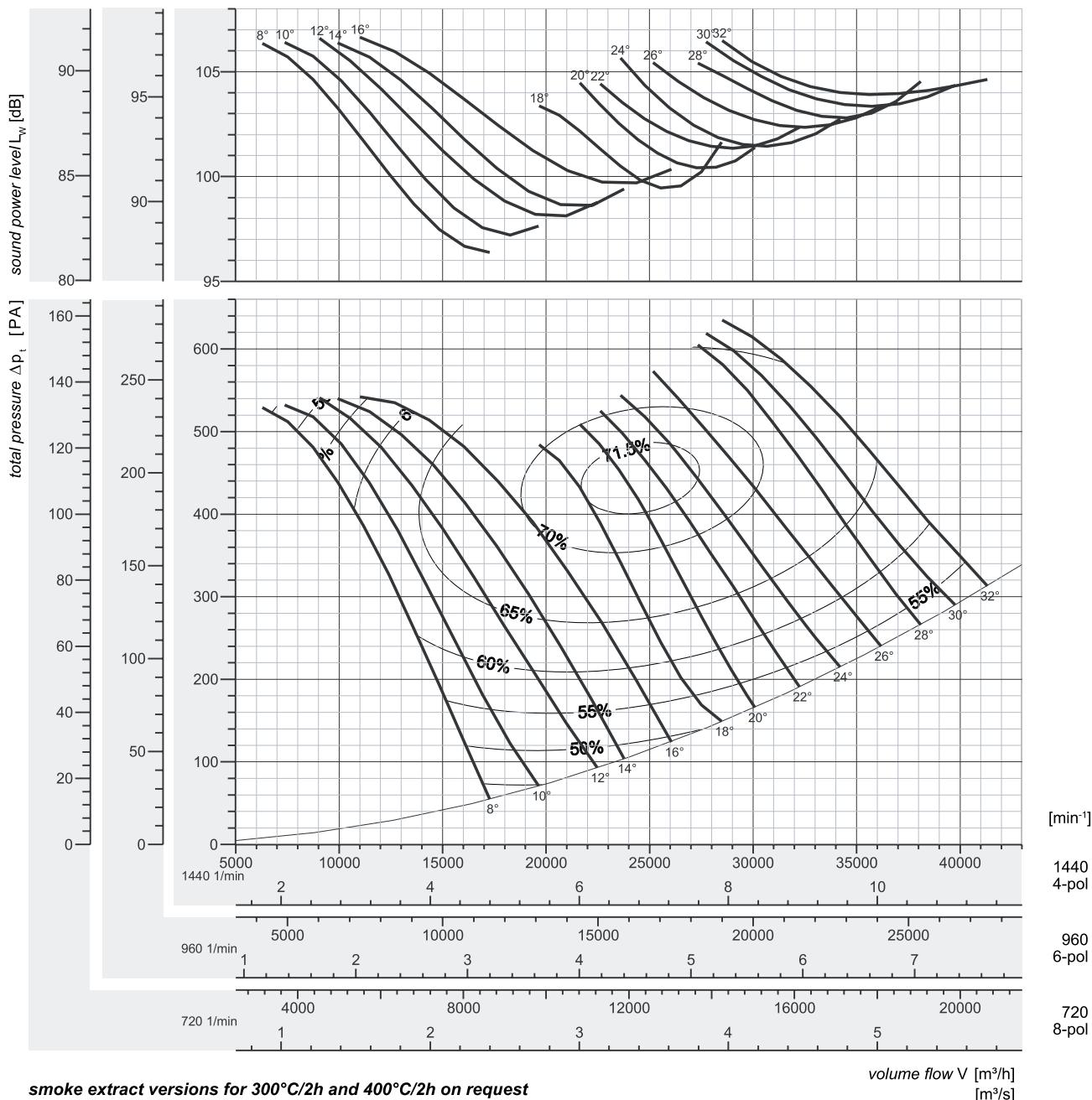
n [min <sup>-1</sup> ]	Peak absorbed power [kW]												relative frequency spectrum $\Delta L$ in dB/Okt								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,37	0,44	0,54	0,63	0,78	0,90	1,01	1,09	1,20	1,30	1,41	1,52	1,61	-6	-5	-6	-7	-10	-15	-21	-27
1440 motor	0,55		0,75	1,1					1,5		2,2			-7	-3	-7	-7	-8	-12	-18	-24
720 motor	1,29	1,53	1,88	2,20	2,73	3,13	3,52	3,81	4,19	4,52	4,91	5,31	5,62								
	1,5	2,2			3,0	4,0			5,5			7,5									

**AR 800-7**

Peak absorbed power [kW]

n [min⁻¹]	pitch angle [°]								Total	relative frequency spectrum $\Delta L$ in dB/Okt								dBA
	10	15	20	25	30	35	40			63	125	250	500	1k	2k	4k	8k	
950 motor	0,24	0,39	0,56	0,79	1,03	1,35	1,86	$L_{ws}$ saugseitig inlet	-2	-5	-6	-8	-8	-12	-15	-19	-32	-7
	0,55		0,75	1,1		1,5	2,2	$L_{ws}$ druckseitig outlet	0	-6	-8	-8	-8	-10	-14	-17	-25	-6
1440 motor	0,85	1,35	1,94	2,74	3,59	4,71	6,49	$L_{ws}$ saugseitig inlet	-2	-8	-9	-8	-7	-10	-13	-17	-26	-5
	1,1	1,5	2,2	3,0	4,0	5,5	7,5	$L_{ws}$ druckseitig outlet	0	-10	-8	-10	-9	-10	-12	-15	-21	-6

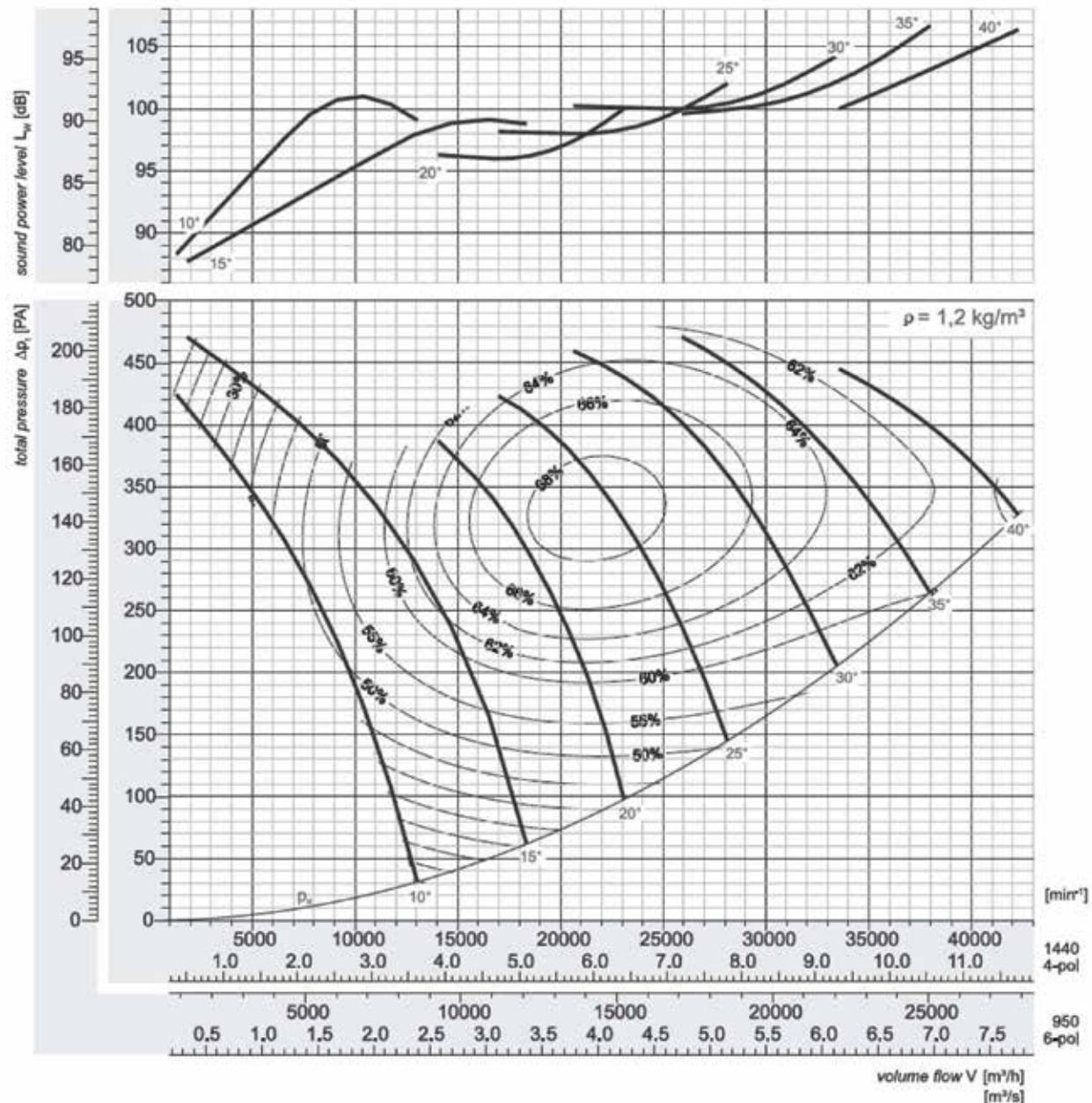
## AR 800-9



**smoke extract versions for 300°C/2h and 400°C/2h on request**

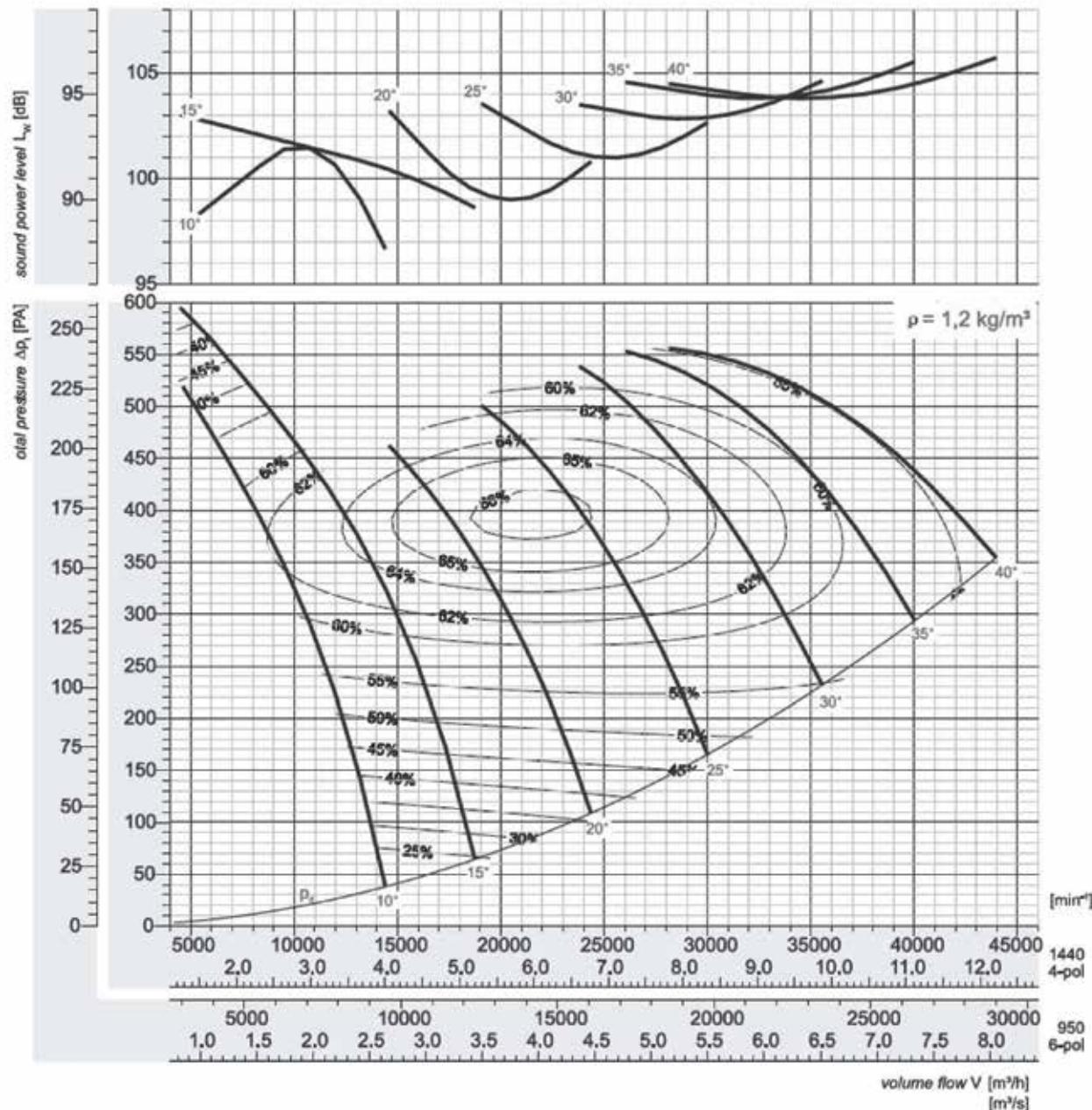
volume flow  $V$  [m³/h]  
[m³/s]

n [min⁻¹]	Peak absorbed power [kW]												relative frequency spectrum $\Delta L$ in dB/Okt								
	pitch angle [°]												Octave b. midfr. [Hz]								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,62	0,70	0,81	0,88	0,97	1,13	1,29	1,41	1,52	1,75	2,06	2,17	2,32	-10	-7	-5	-7	-8	-12	-18	-24
	0,75		1,1			1,5			2,2			3,0									
1440 motor	2,16	2,44	2,81	3,05	3,37	3,95	4,51	4,91	5,31	6,08	7,18	7,56	8,09	-5	-6	-5	-6	-7	-10	-15	-21
	2,2	3,0		4,0		5,5			7,5		11,0										

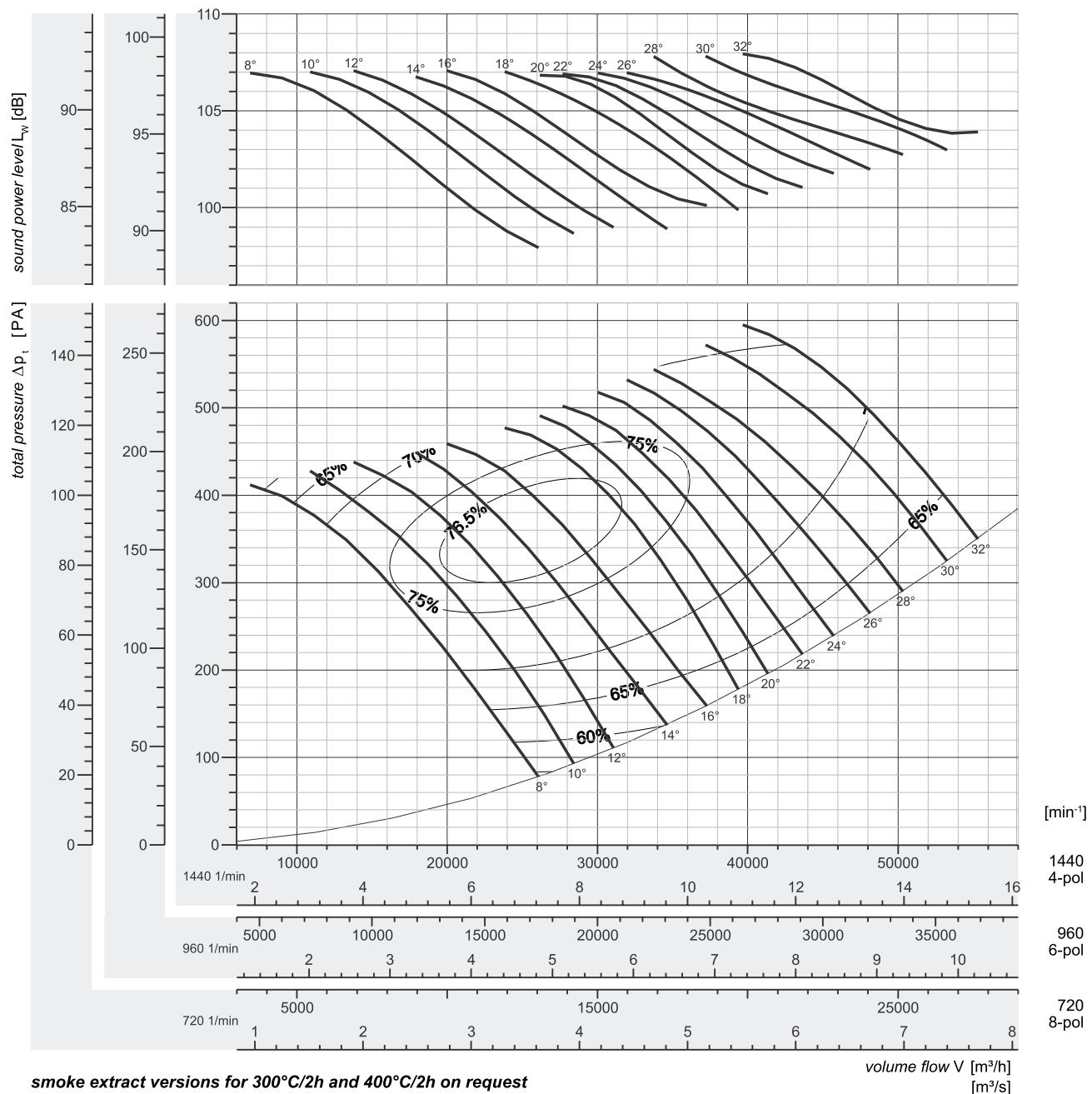
**AR 800-10**

n [min⁻¹]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	pitch angle [°]							Total	63	125	250	500	1k	2k	4k	8k	dBA	
950 motor	0,35	0,50	0,70	0,93	1,25	1,58	1,98	$L_{ws}$ saugseitig inlet	-1	-10	-9	-8	-6	-12	-16	-21	-36	-6
	0,4	0,6	0,8	1,1	1,5	2,2		$L_{ws}$ druckseitig outlet	0	-7	-10	-9	-6	-9	-13	-17	-26	-4
1440 motor	1,24	1,76	2,44	3,24	4,34	5,52	6,90	$L_{ws}$ saugseitig inlet	-1	-11	-14	-6	-7	-10	-14	-17	-25	-5
	1,5	2,2	3,0	4,0	-	-	-	$L_{ws}$ druckseitig outlet	0	-10	-12	-9	-9	-10	-12	-15	-22	-7

# AR 800-14

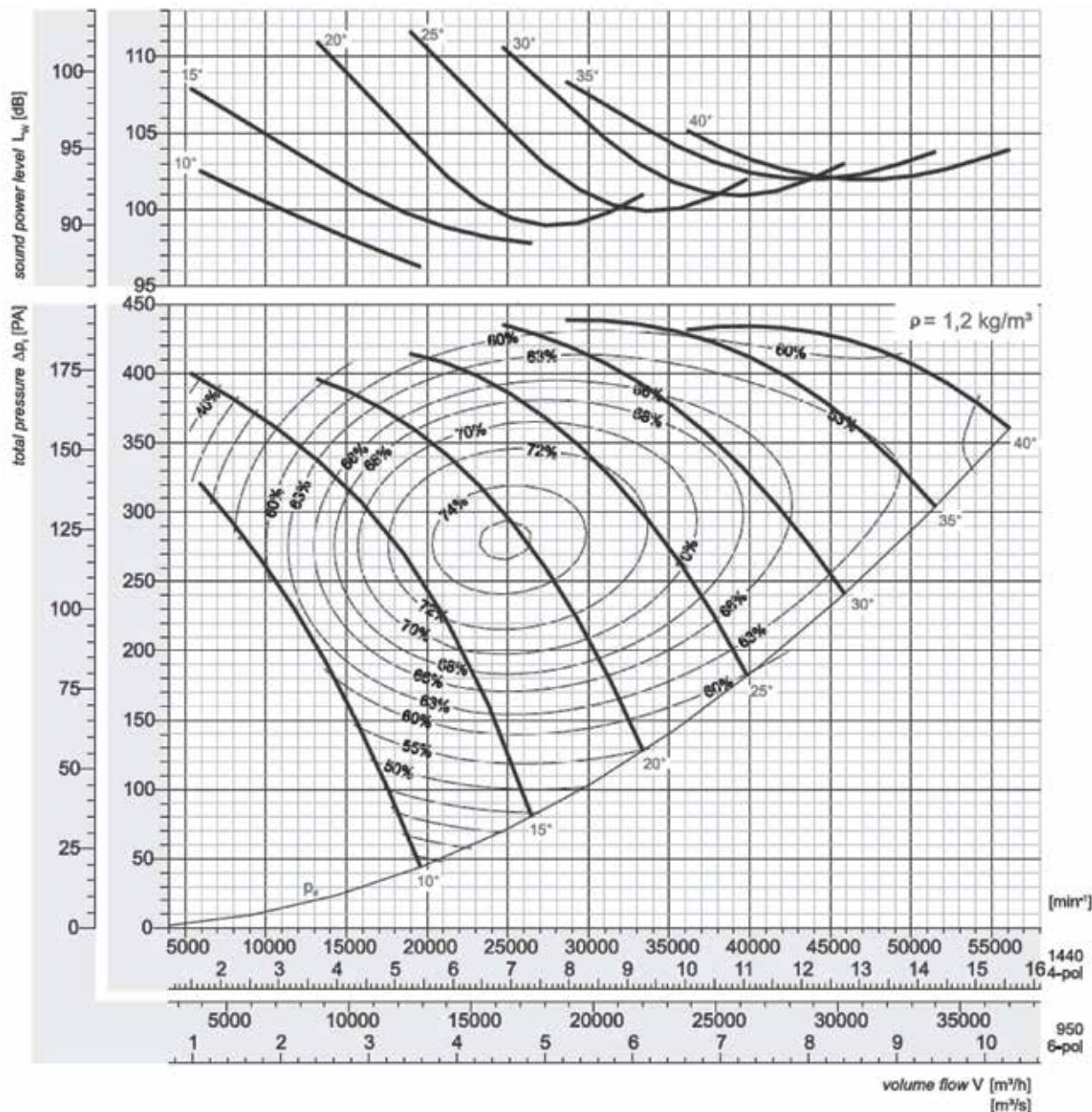


n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k	dBA	
950 motor	0,43	0,70	0,85	1,22	1,67	2,14	2,59	$L_{ws}$ saugseitig inlet	-2	-8	-14	-7	-6	-8	-13	-18	-31	-4
	0,55	0,75	1,1	1,5	2,2		3,0	$L_{ws}$ druckseitig outlet	0	-6	-13	-8	-6	-10	-12	-17	-26	-5
1440 motor	1,50	2,43	2,95	4,25	5,83	7,45	9,03	$L_{ws}$ saugseitig inlet	-1	-10	-16	-10	-5	-7	-10	-15	-23	-3
	1,5	3,0		5,5	7,5		11,0	$L_{ws}$ druckseitig outlet	0	-11	-14	-10	-8	-8	-9	-13	-20	-4

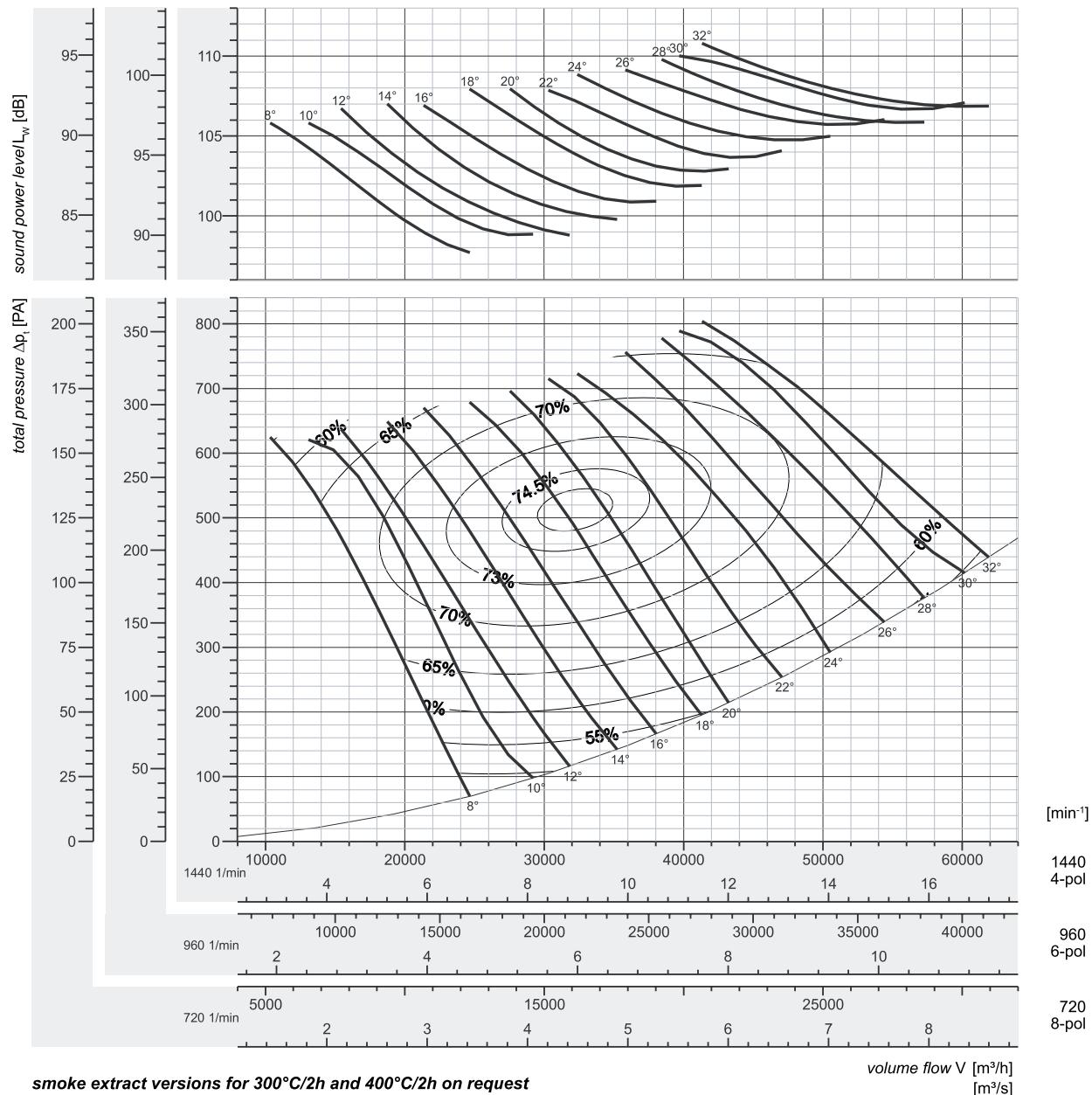
**AR 900-5**

n [min⁻¹]	pitch angle [°]												relative frequency spectrum $\Delta L$ in dB/Okt								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,52	0,63	0,79	0,95	1,08	1,30	1,44	1,59	1,76	1,93	2,09	2,49	2,81	-6	-5	-6	-7	-10	-15	-21	-27
1440 motor	0,55	0,75	1,1			1,5		2,2			3,0			-10	-7	-5	-7	-8	-12	-18	-24
720 motor	1,82	2,20	2,76	3,30	3,76	4,54	5,01	5,52	6,13	6,73	7,28	8,68	9,80								
												11,0									

## AR 900-7

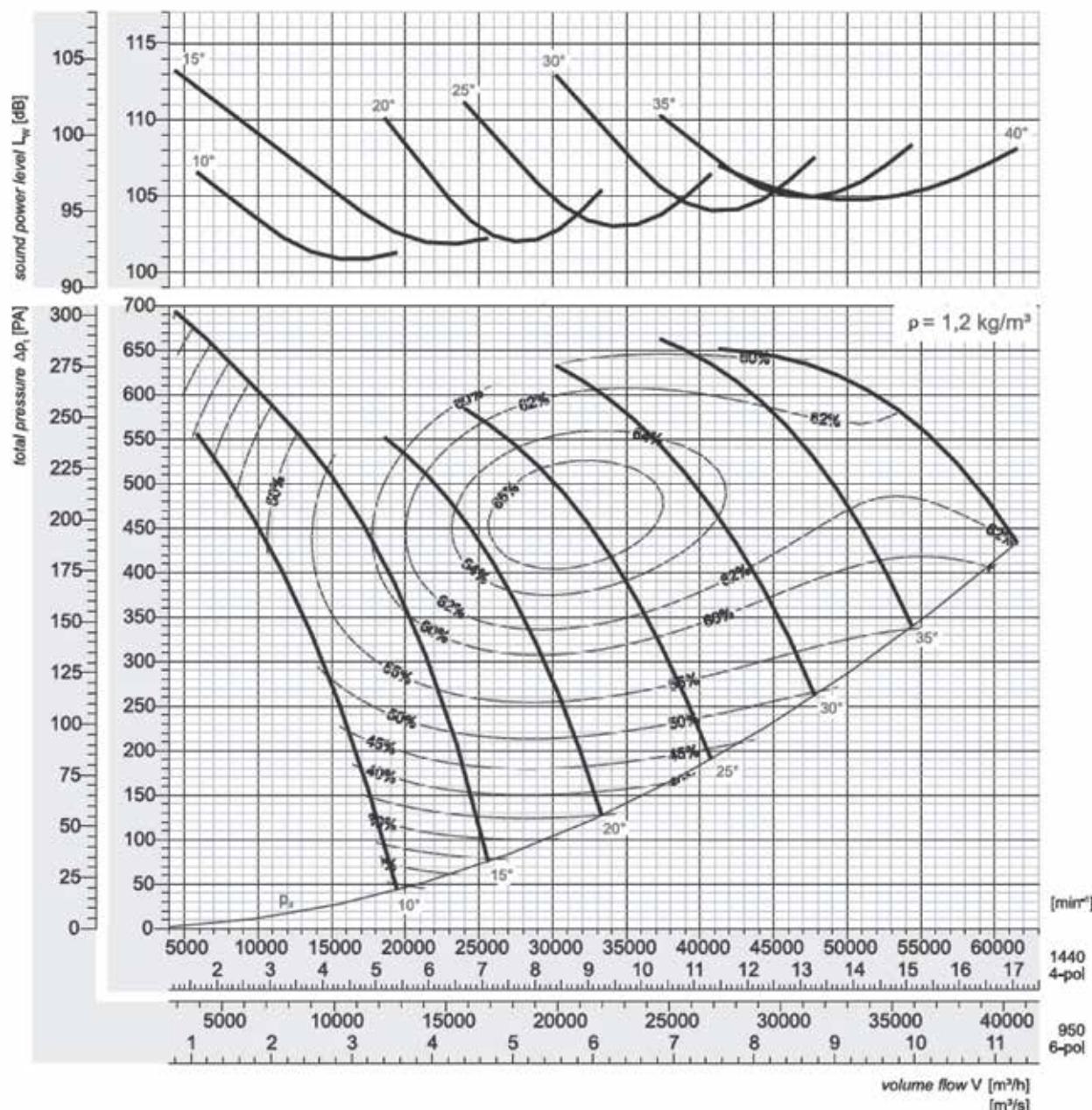


n [min⁻¹]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt											
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k	dBA		
950 motor	0,35	0,55	0,83	1,17	1,58	2,08	2,66		$L_{WA}$ saugseitig inlet	-1	-7	-8	-7	-8	-11	-14	-18	-28	-6
1440 motor	1,23	1,93	2,90	4,06	5,49	7,24	9,28		$L_{WA}$ druckseitig outlet	0	-7	-7	-7	-9	-11	-13	-17	-24	-5
	1,5	2,2	3,0	5,5		7,5	11,0		$L_{WA}$ saugseitig inlet	-1	-10	-10	-9	-6	-8	-12	-16	-24	-4
									$L_{WA}$ druckseitig outlet	0	-10	-9	-9	-8	-9	-12	-15	-22	-5

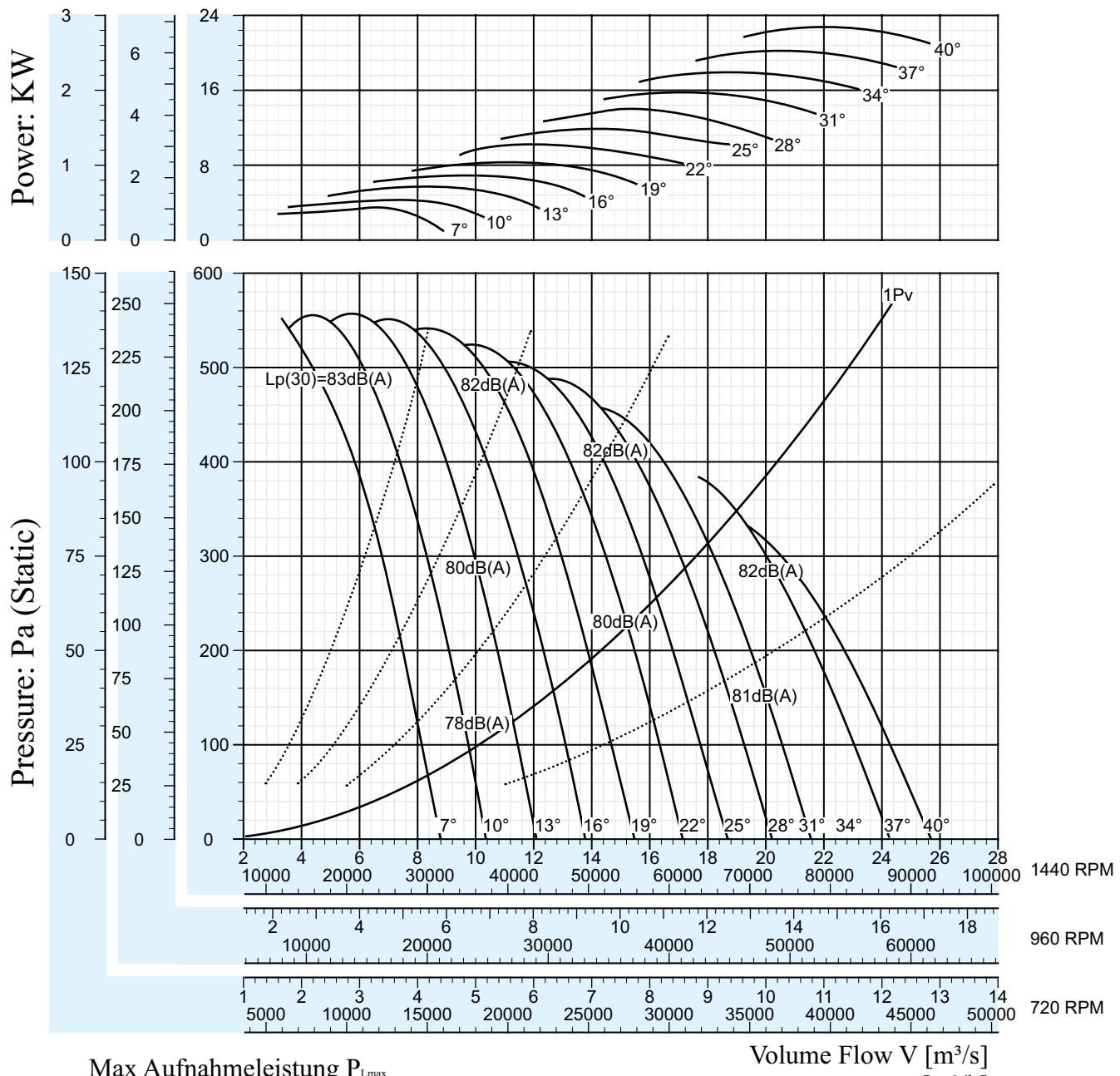
**AR 900-10**

n [min <sup>-1</sup> ]	Peak absorbed power [kW]												relative frequency spectrum ΔL in dB/Okt								
	pitch angle [°]												Octave b. midfr. [Hz]								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,95	1,13	1,30	1,59	1,83	2,08	2,35	2,65	2,89	3,32	3,78	3,96	4,21	-10	-7	-5	-7	-8	-12	-18	-24
	1,1	1,5		2,2				3,0			4,0		5,5								
1440 motor	3,30	3,94	4,54	5,54	6,39	7,26	8,19	9,24	10,1	11,6	13,2	13,8	14,7	-10	-12	-6	-5	-7	-10	-15	-21
	4,0		5,5		7,5		11,0			15,0											

## AR 900-14



n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt									dBA	
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k		
950 motor	0,74	1,08	1,43	1,93	2,59	3,30	4,01	$L_{ws}$ saugseitig inlet	-2	-8	-15	-5	-7	-8	-12	-17	-28	-4
	0,75	1,1	1,5	2,2	3,0	4,0	5,5	$L_{ws}$ druckseitig outlet	0	-6	-13	-7	-9	-10	-14	-19	-27	-6
1440 motor	2,58	3,78	4,99	6,72	9,04	11,5	14,0	$L_{ws}$ saugseitig inlet	-1	-13	-19	-11	-5	-7	-10	-15	-23	-3
	3,0	4,0	5,5	7,5	11,0	15,0		$L_{ws}$ druckseitig outlet	0	-12	-16	-12	-6	-6	-9	-15	-22	-3

**AR 1000-4**Max Aufnahmleistung P<sub>Lmax</sub>

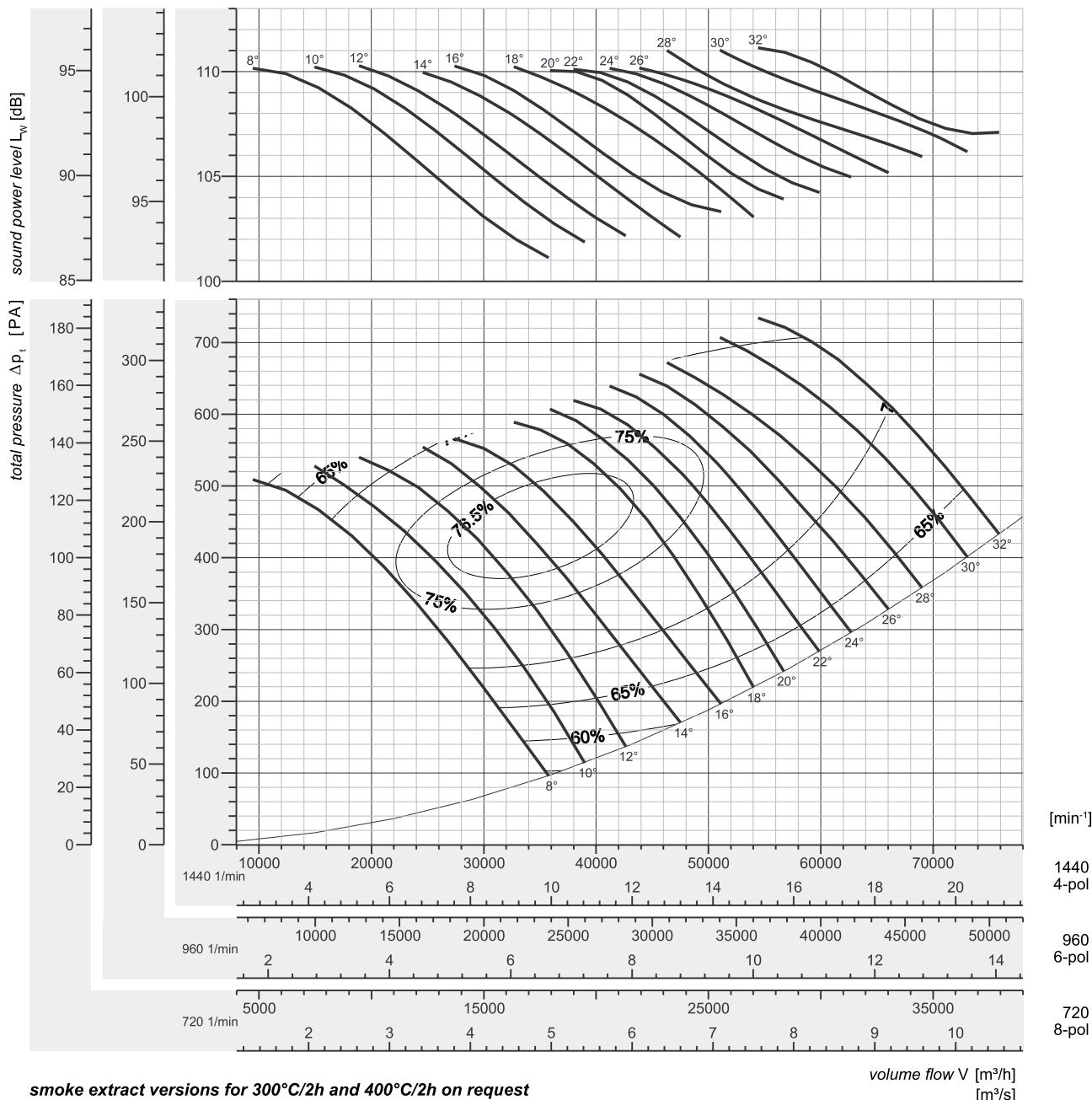
Peak absorbed power [KW]

n [min <sup>-1</sup> ]	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	0.409	0.543	0.695	0.860	1.05	1.28	1.47	1.75	1.97	2.22	2.51	2.82
		0.970	1.29	1.65	2.04	2.50	3.03	3.48	4.14	4.68	5.27	5.95	6.69
		3.27	4.35	5.56	6.88	8.42	10.2	11.7	14.0	15.8	17.8	20.1	22.6

Sound Pressure Level L<sub>w</sub>[dB]

n [min <sup>-1</sup> ]	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	dB (A)	62	59	60	58	61	60	59	60	61	60	61	61
		68	65	66	64	67	66	65	66	67	66	67	67
		77	74	75	73	76	75	74	75	76	75	76	76

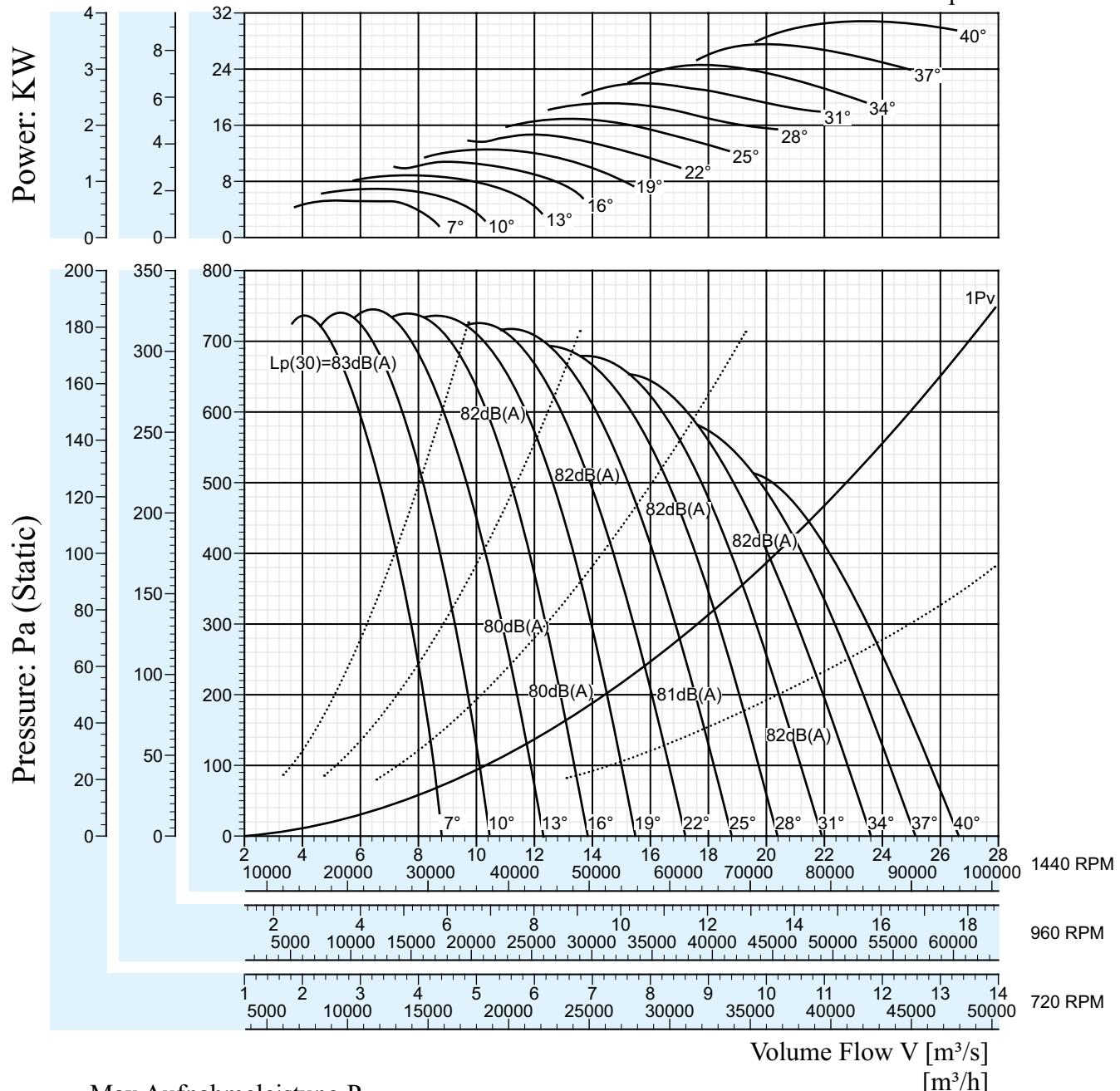
## AR 1000-5



n [min <sup>-1</sup> ]	Peak absorbed power [kW]												relative frequency spectrum $\Delta L$ in dB/Okt								
	pitch angle [°]												Octave b. midfr. [Hz]								
n [min <sup>-1</sup> ]	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960 motor	0,89	1,07	1,34	1,60	1,83	2,21	2,43	2,69	2,98	3,27	3,54	4,22	4,77	-6	-5	-6	-7	-10	-15	-21	-27
	1,1		1,5	2,2		3,0			4,0		5,5										
1440 motor	3,09	3,73	4,68	5,59	6,37	7,69	8,48	9,35	10,4	11,4	12,3	14,7	16,6	-10	-7	-5	-7	-8	-12	-18	-24
	4,0		5,5	7,5		11,0			15,0		18,5										

**AR 1000-7**

Sound level are base on 1440 RPM Speed

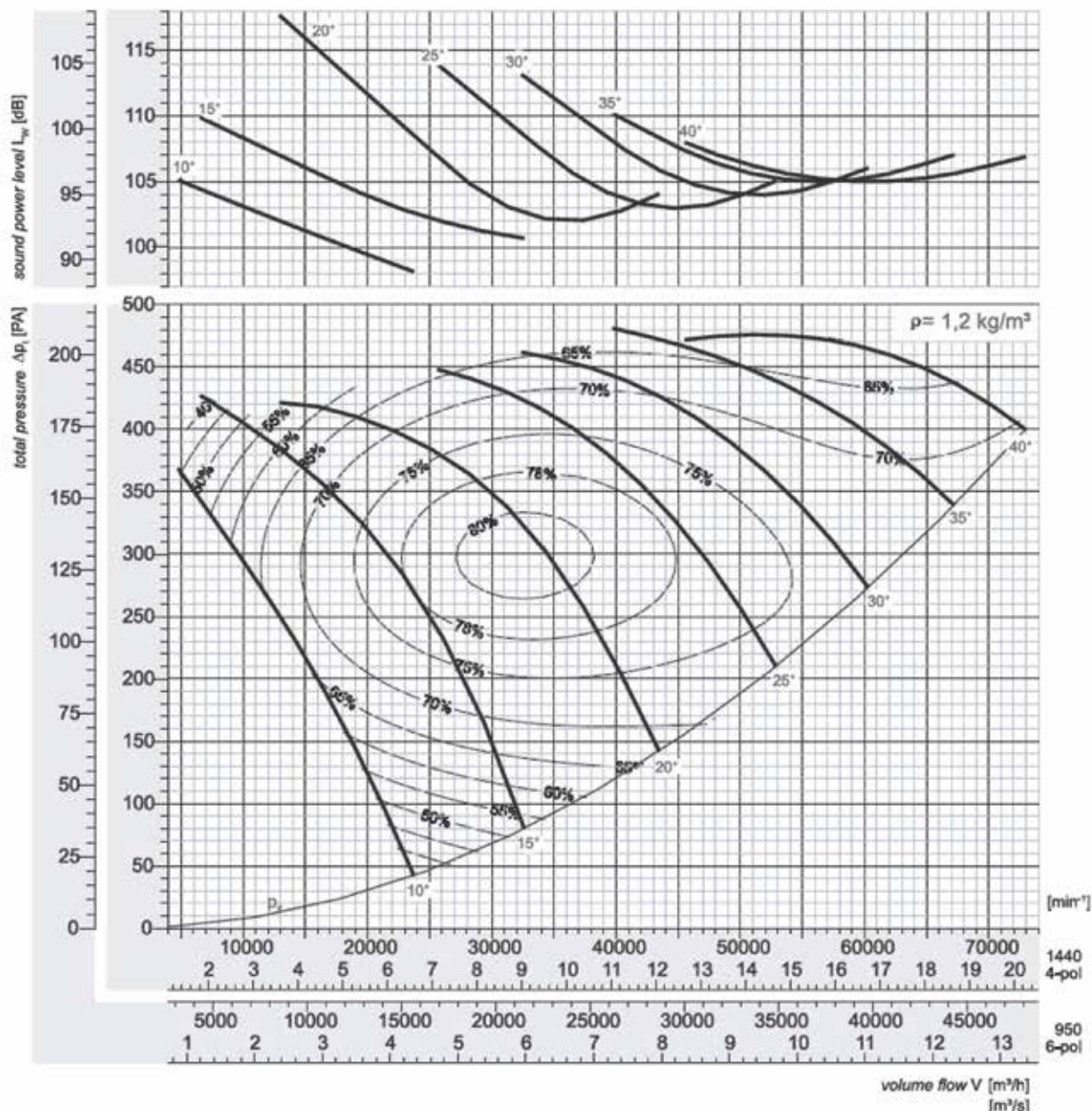
Max Aufnahmleistung  $P_{L_{max}}$ 

Peak absorbed power [KW]

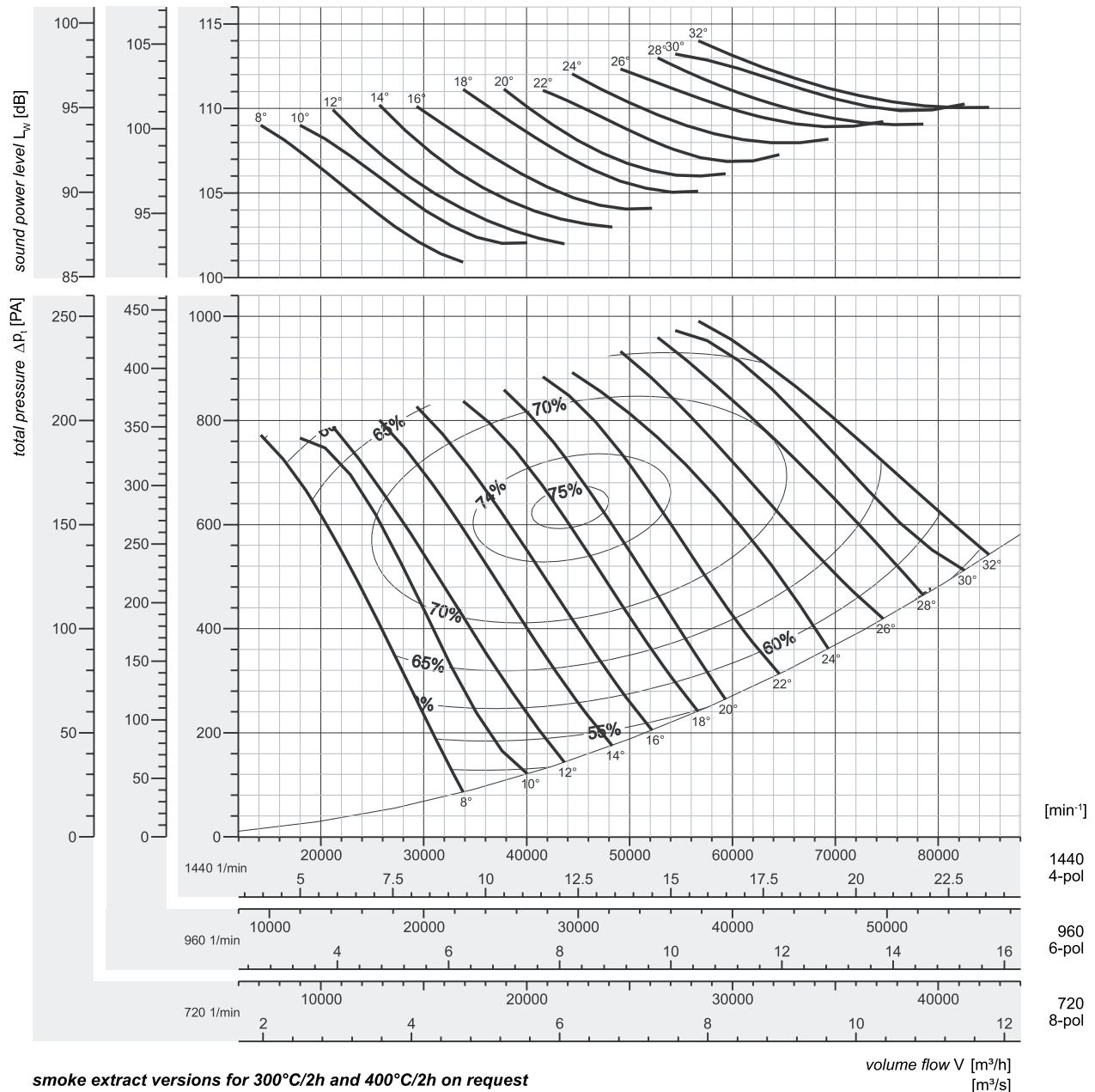
Volume Flow V [m³/s]  
[m³/h]

Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	0.665	0.867	1.09	1.32	1.56	1.83	2.10	2.37	2.72	3.03	3.41	3.82
960		1.58	2.06	2.57	3.14	3.70	4.33	4.97	5.61	6.46	7.19	8.08	9.04
1440		5.32	6.94	8.68	10.6	12.5	14.6	16.8	18.9	21.8	24.3	27.3	30.5

## AR 1000°-7



n [min⁻¹]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt											
	10	15	20	25	30	35	40		Total	Octave b. midfr. [Hz]									
950 motor	0,40	0,70	1,08	1,56	2,12	2,76	3,56		$L_{ws}$ saugseitig inlet	-1	-6	-8	-7	-8	-11	-15	-19	-29	-6
	0,55	0,75	1,1	2,2		3,0	4,0		$L_{ws}$ druckseitig outlet	0	-9	-10	-8	-8	-11	-13	-18	-24	-7
1440 motor	1,38	2,43	3,78	5,42	7,37	9,63	12,4		$L_{ws}$ saugseitig inlet	-1	-9	-11	-9	-7	-9	-12	-16	-24	-5
	1,5	3,0	4,0	5,5	7,5	11,0	15,0			0	-9	-10	-9	-9	-13	-16	-22	-6	

**AR 1000-10**

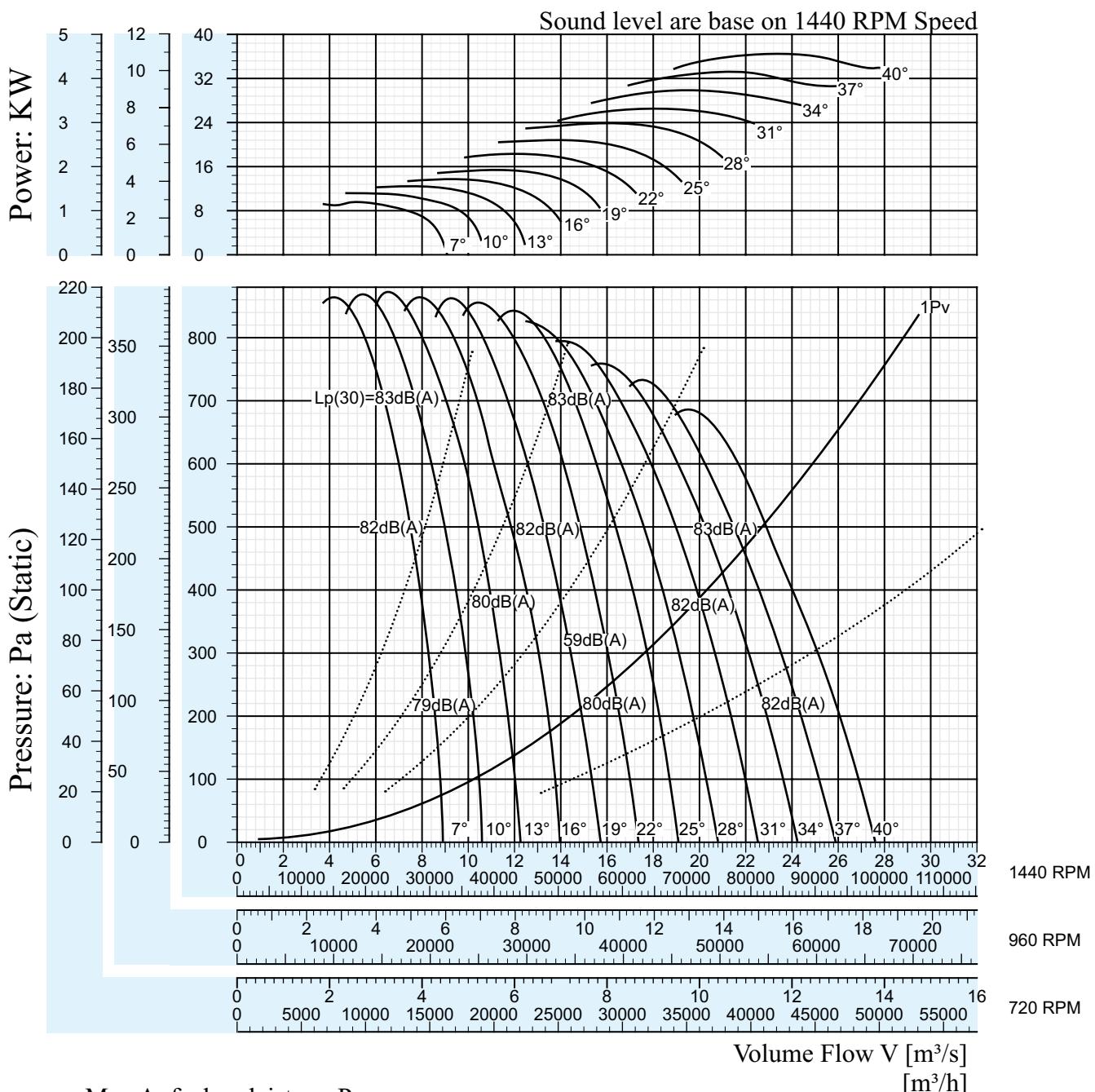
smoke extract versions for 300°C/2h and 400°C/2h on request

volume flow  $V$  [m³/h]  
[m³/s]

n [min⁻¹]	Peak absorbed power [kW]												relative frequency spectrum $\Delta L$ in dB/Okt								
	8	10	12	14	16	18	20	22	24	26	28	30	32	63	125	250	500	1k	2k	4k	8k
960	1,60	1,92	2,21	2,69	3,11	3,53	3,98	4,78	4,90	5,62	6,41	6,78	7,12	-10	-7	-5	-7	-8	-12	-18	-24
motor	2,2		3,0		4,0			5,5		7,5											
1440	5,58	6,67	7,69	9,37	10,8	12,3	13,9	16,7	17,1	19,6	22,3	23,6	24,8	-10	-12	-6	-5	-7	-10	-15	-21
motor	7,5		11,0		15,0		18,5		22,0		30*										

\* Motor ragt aus Ventilator-Gehäuse / motor protudes the fan housing

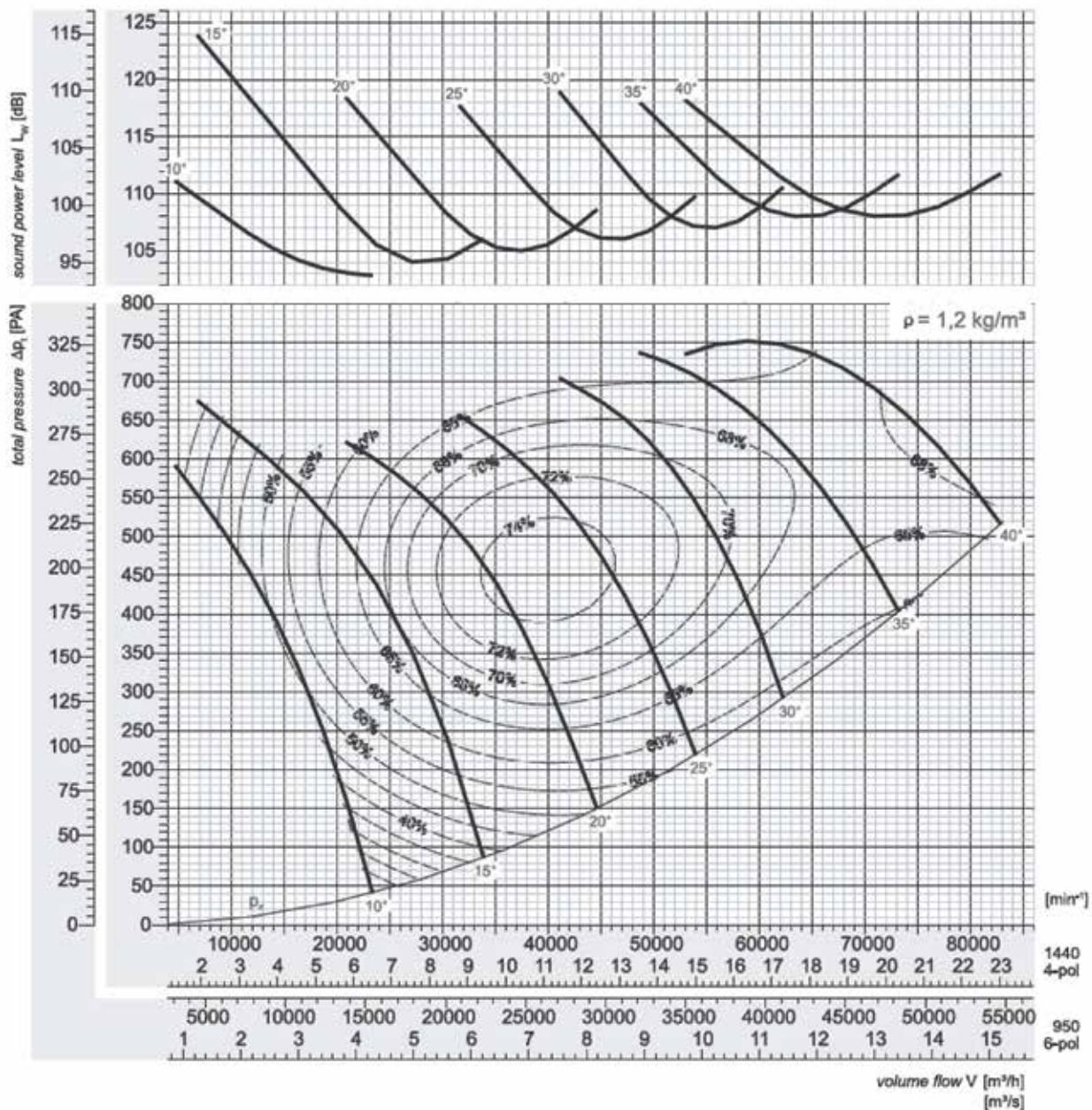
## AR 1000-11



Max Aufnahmleistung  $P_{Lmax}$

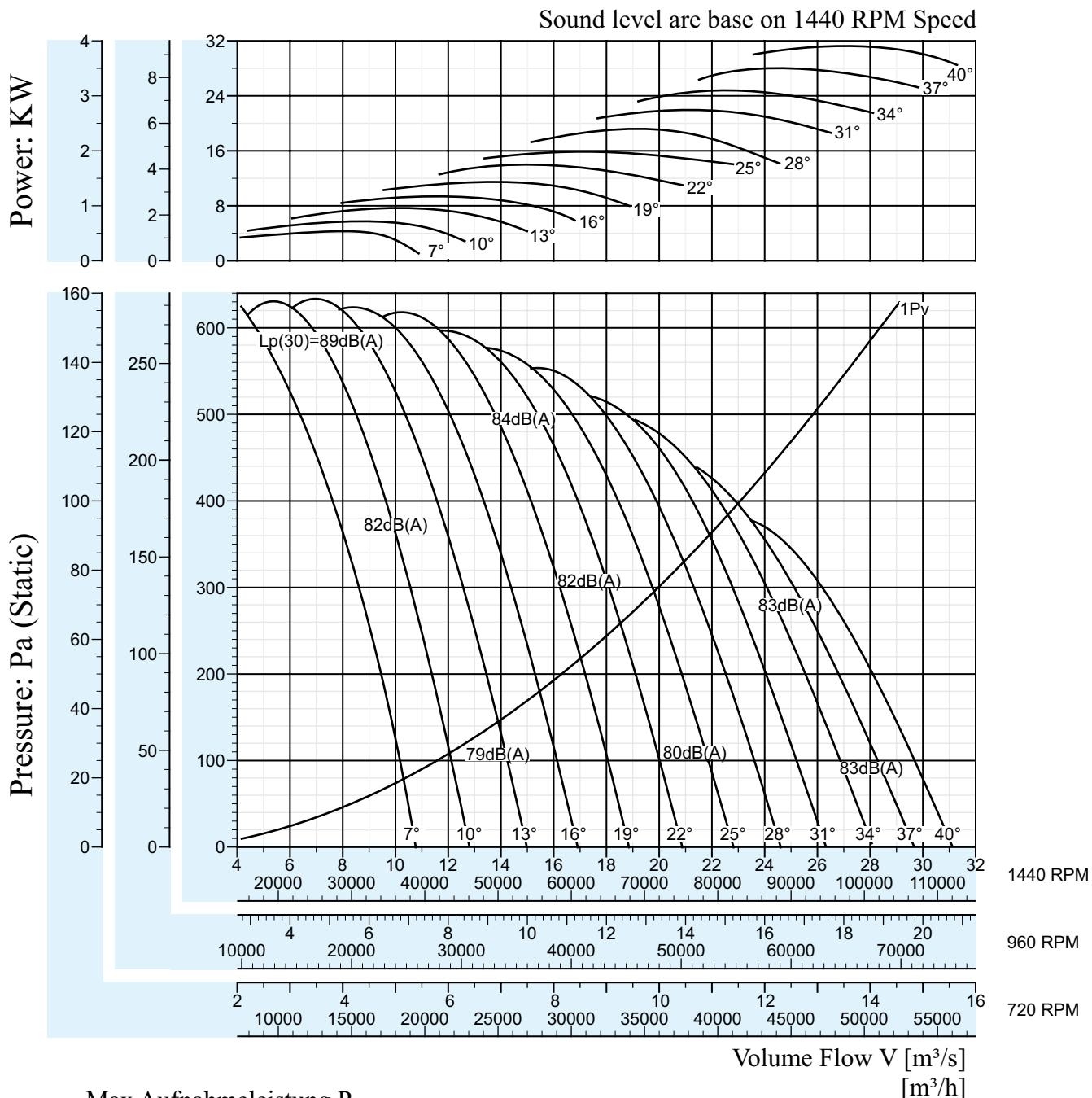
Peak absorbed power [KW]

Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	1.19	1.39	1.58	1.66	1.93	2.32	2.61	2.97	3.31	3.71	4.09	4.52
		2.83	3.28	3.75	3.93	4.58	5.49	6.19	7.04	7.85	8.79	9.70	10.7
		9.55	11.1	12.7	13.3	15.5	18.5	20.9	23.8	26.5	29.7	32.7	36.1

**AR 1000-14**

n [min <sup>-1</sup> ]	Peak absorbed power [kW]							relative frequency spectrum $\Delta L$ in dB/Okt										
	10	15	20	25	30	35	40	Total	63	125	250	500	1k	2k	4k	8k		
950 motor	0,90	1,34	1,84	2,57	3,63	4,58	5,83	$L_{ws}$ saugseitig inlet	-1	-8	-13	-6	-7	-9	-13	-17	-25	-5
	1,1	1,5	2,2	3,0	4,0	5,5	7,5	$L_{ws}$ druckseitig outlet	0	-9	-14	-9	-6	-8	-10	-19	-25	-4
1440 motor	3,14	4,66	6,39	8,96	12,6	15,9	20,3	$L_{ws}$ saugseitig inlet	0	-13	-18	-11	-6	-6	-10	-15	-23	-3
	4,0	5,5	7,5	11,0	15,0	18,5	22,0	$L_{ws}$ druckseitig outlet	0	-12	-16	-12	-6	-6	-9	-15	-22	-2

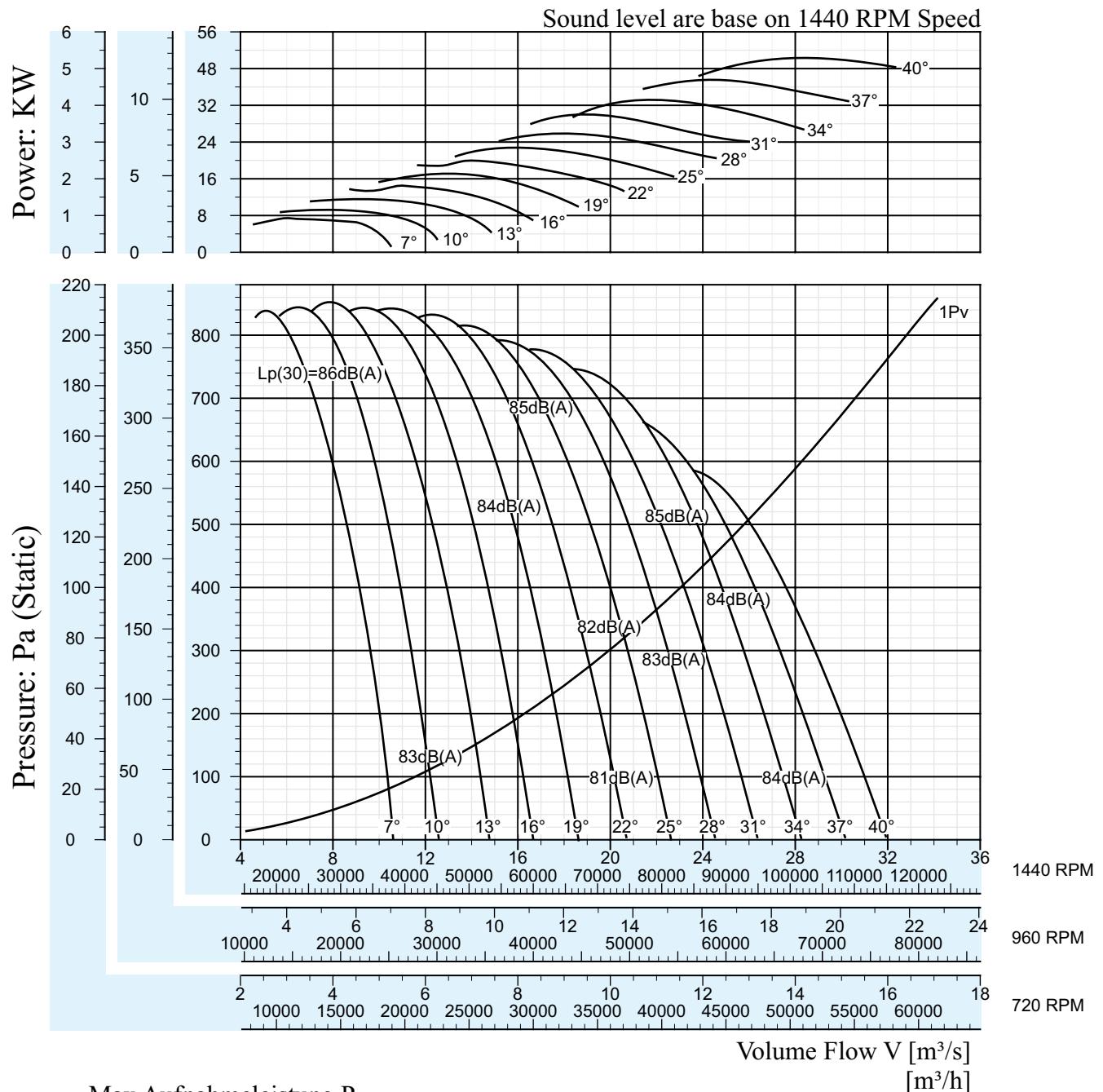
## AR 1067-4



Max Aufnahmleistung  $P_{\text{Lmax}}$

Peak absorbed power [KW]

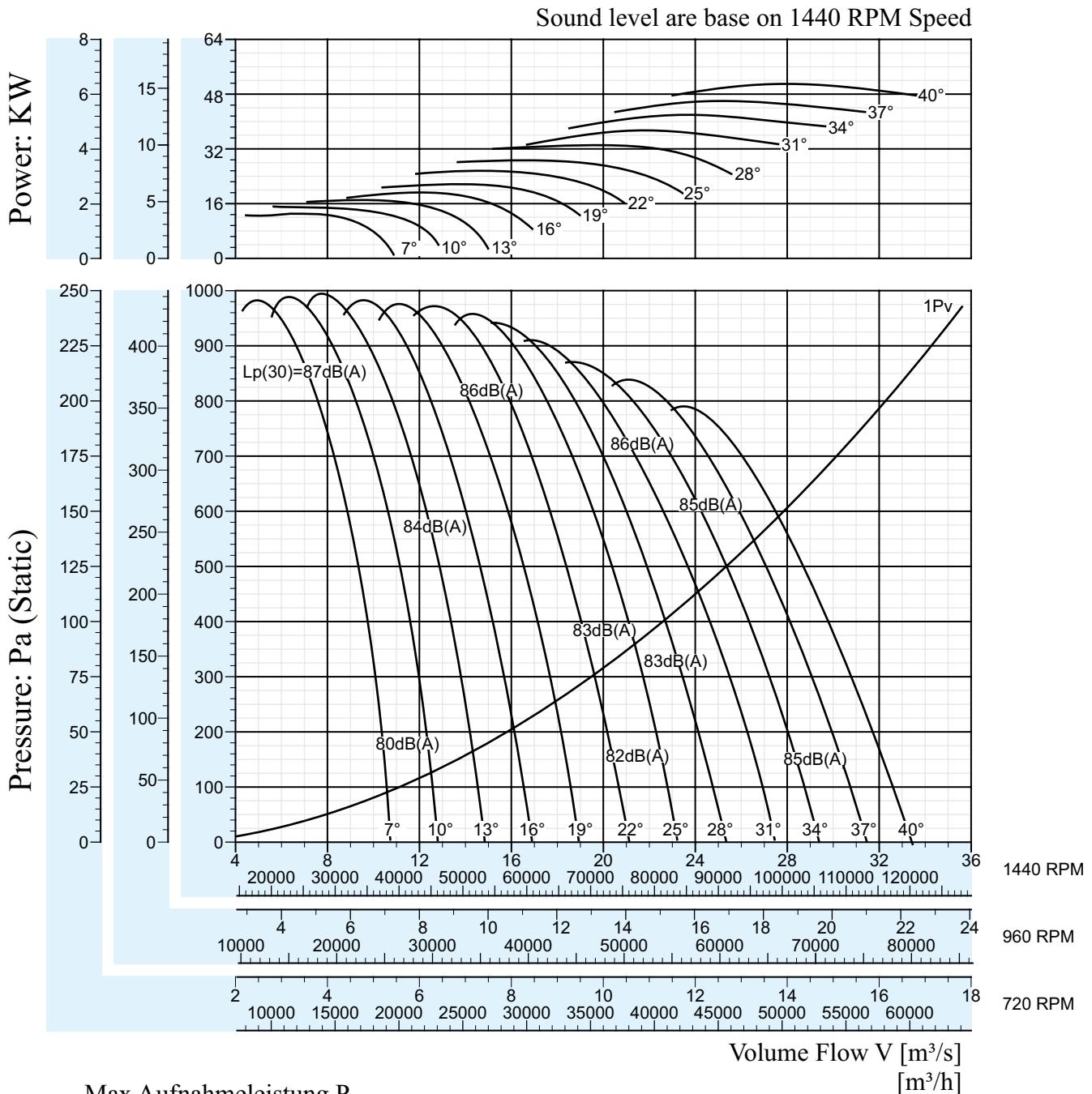
Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	0.566	0.751	0.962	1.19	1.46	1.77	2.03	2.42	2.73	3.07	3.47	3.90
960		1.34	1.78	2.28	2.82	3.45	4.18	4.81	5.72	6.47	7.28	8.23	9.25
1440		4.53	6.01	7.69	9.51	11.6	14.1	16.2	19.3	21.8	24.6	27.8	31.2

**AR 1067-7**Max Aufnahmleistung  $P_{Lmax}$ 

Peak absorbed power [KW]

Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	0.919	1.20	1.50	1.83	2.16	2.53	2.90	3.27	3.77	4.19	4.72	5.28
		2.18	2.84	3.56	4.34	5.12	5.99	6.87	7.76	8.93	9.94	11.2	12.5
		7.36	9.60	12.0	14.7	17.3	20.2	23.2	26.2	30.1	33.6	37.7	42.2

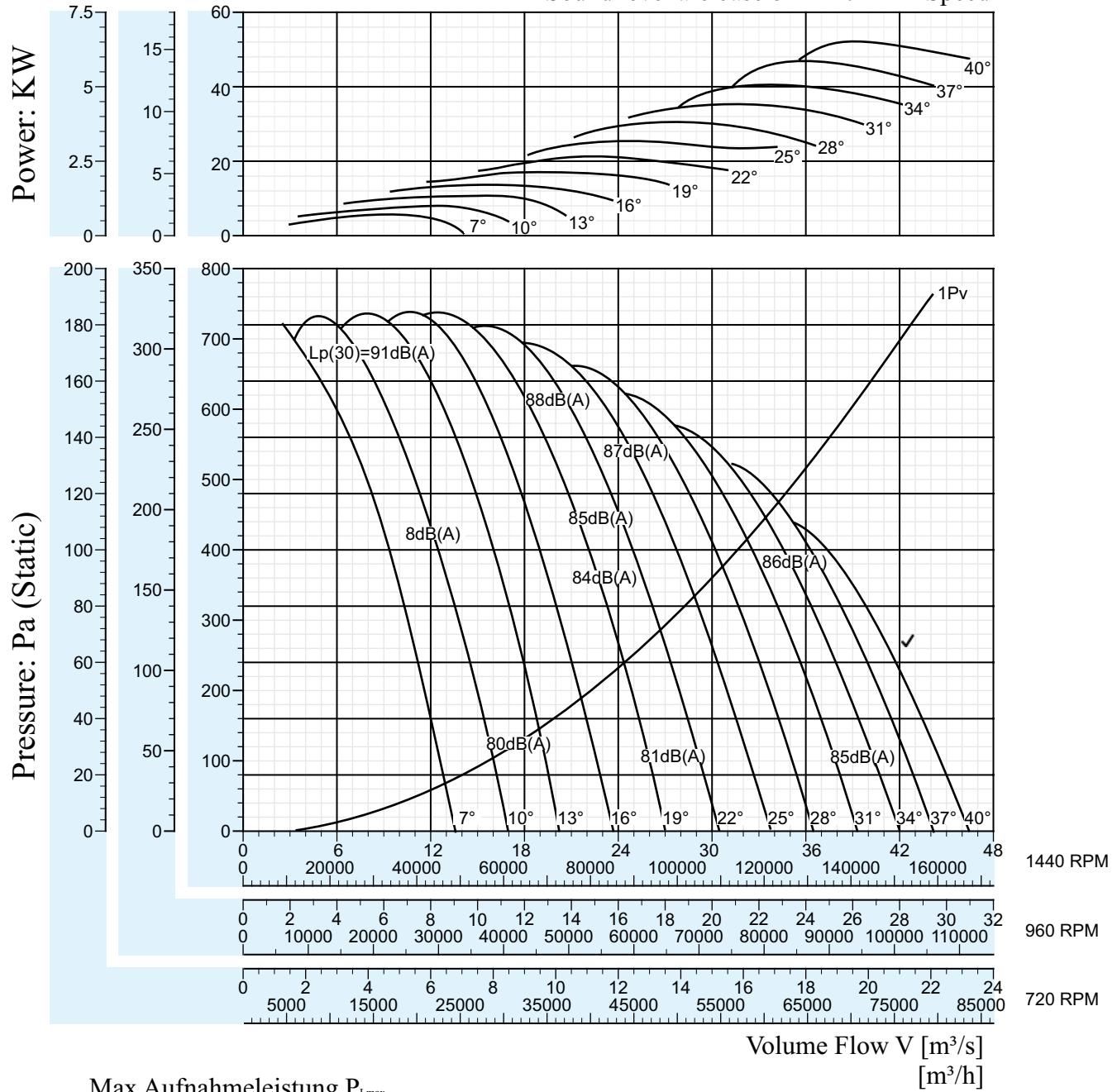
## AR 1067-11



Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	1.65	1.92	2.19	2.29	2.67	3.20	3.61	4.11	4.58	5.13	5.66	6.25
960		3.91	4.54	5.19	5.43	6.34	7.60	8.56	9.73	10.9	12.2	13.4	14.8
1440		13.2	15.3	17.5	18.3	21.4	25.6	28.9	32.9	36.6	41.0	45.3	50.0

**AR 1250-4**

Sound level are base on 1440 RPM Speed

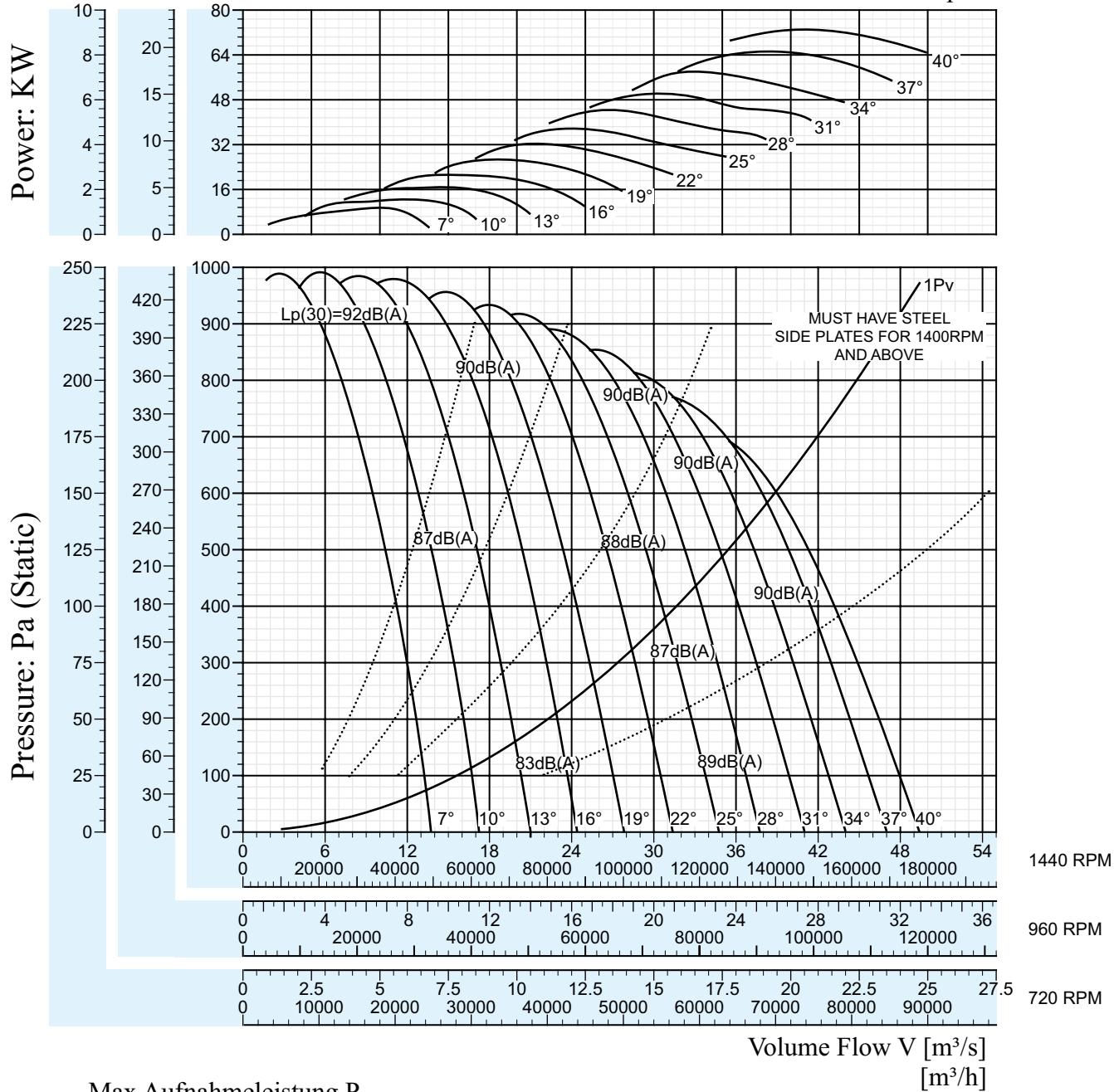
Max Aufnahmleistung  $P_{Lmax}$ 

Peak absorbed power [KW]

Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	0.723	0.973	1.32	1.70	2.17	2.66	3.17	3.76	4.34	5.01	5.81	6.47
960		1.71	2.31	3.14	4.04	5.14	6.30	7.51	8.91	10.3	11.9	13.8	15.3
1440		5.79	7.79	10.6	13.6	17.3	21.3	25.3	30.1	34.8	40.1	46.5	51.8

**AR-1250-7**

Sound level are base on 1440 RPM Speed

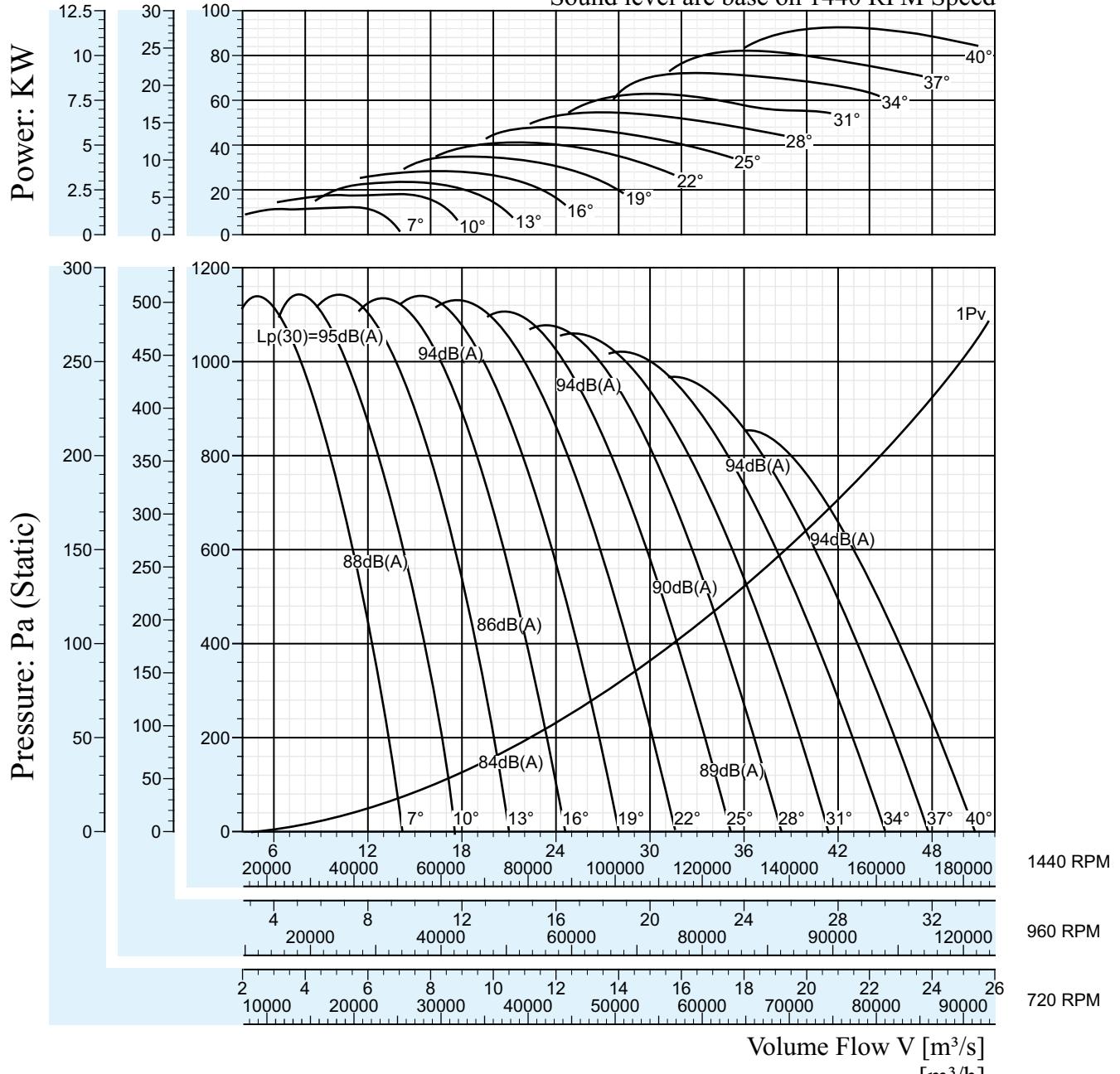

 Max Aufnahmleistung  $P_{L\max}$ 

Peak absorbed power [KW]

Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720		1.11	1.51	2.04	2.63	3.33	3.99	4.69	5.47	6.25	7.15	8.10	9.13
960	Peak KW	2.63	3.57	4.83	6.22	7.89	9.45	11.1	13.0	14.0	16.9	9.2	21.6
1440		8.87	12.1	16.3	21.0	26.6	31.9	37.5	43.0	50.0	57.2	64.8	73.0

**AR-1250-11**

Sound level are base on 1440 RPM Speed

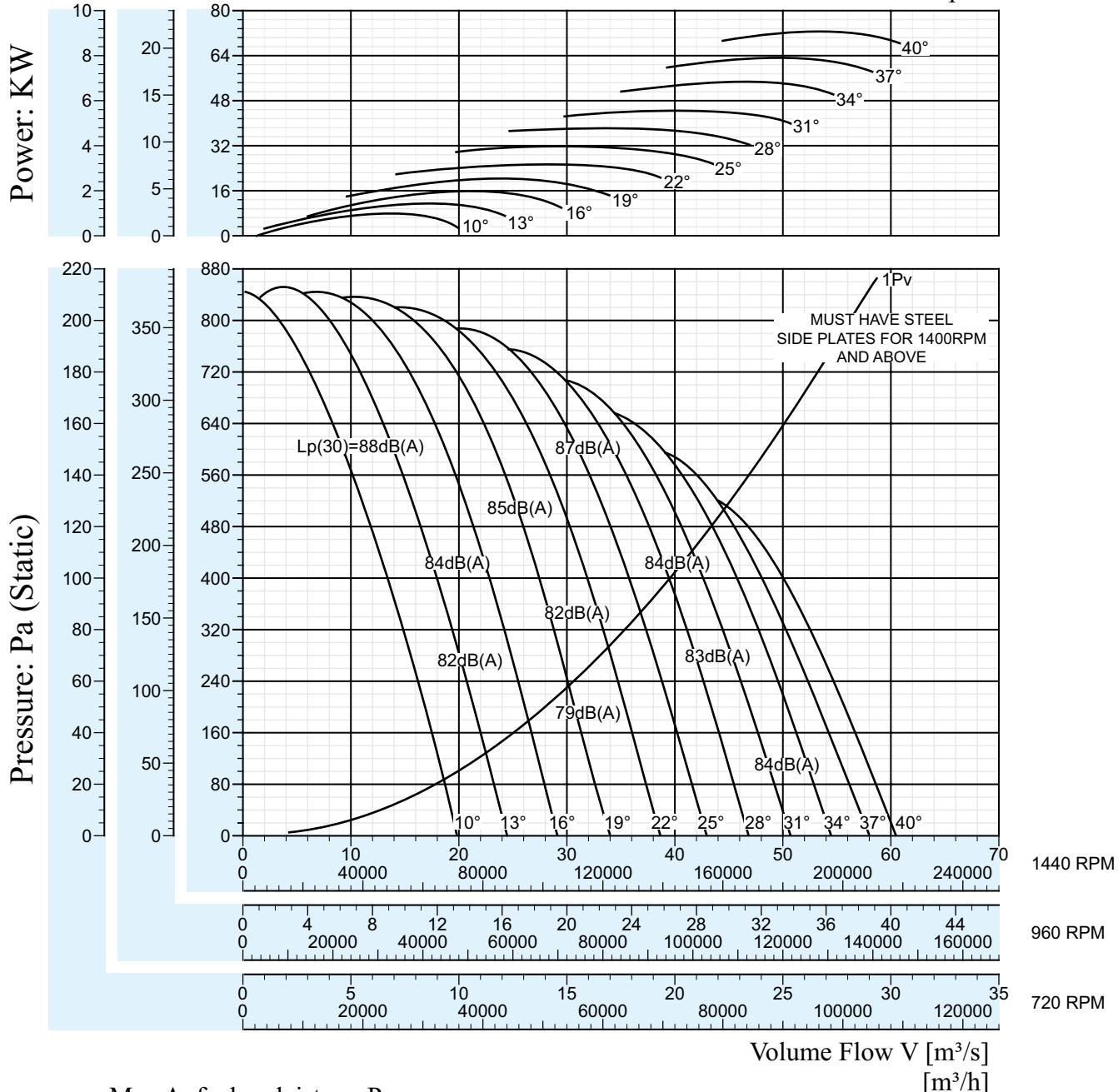
Max Aufnahmleistung  $P_{\text{Lmax}}$ 

Peak absorbed power [KW]

Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	1.56	2.21	2.82	3.54	4.32	5.14	6.02	6.83	7.86	8.93	10.1	11.3
960		3.70	5.23	6.68	8.40	10.2	12.2	14.3	16.2	18.6	21.2	23.9	26.9
1440		12.5	17.7	22.5	28.3	34.6	41.1	48.2	54.6	62.9	71.4	80.6	90.8

## AR-1400-4

Sound level are base on 1440 RPM Speed



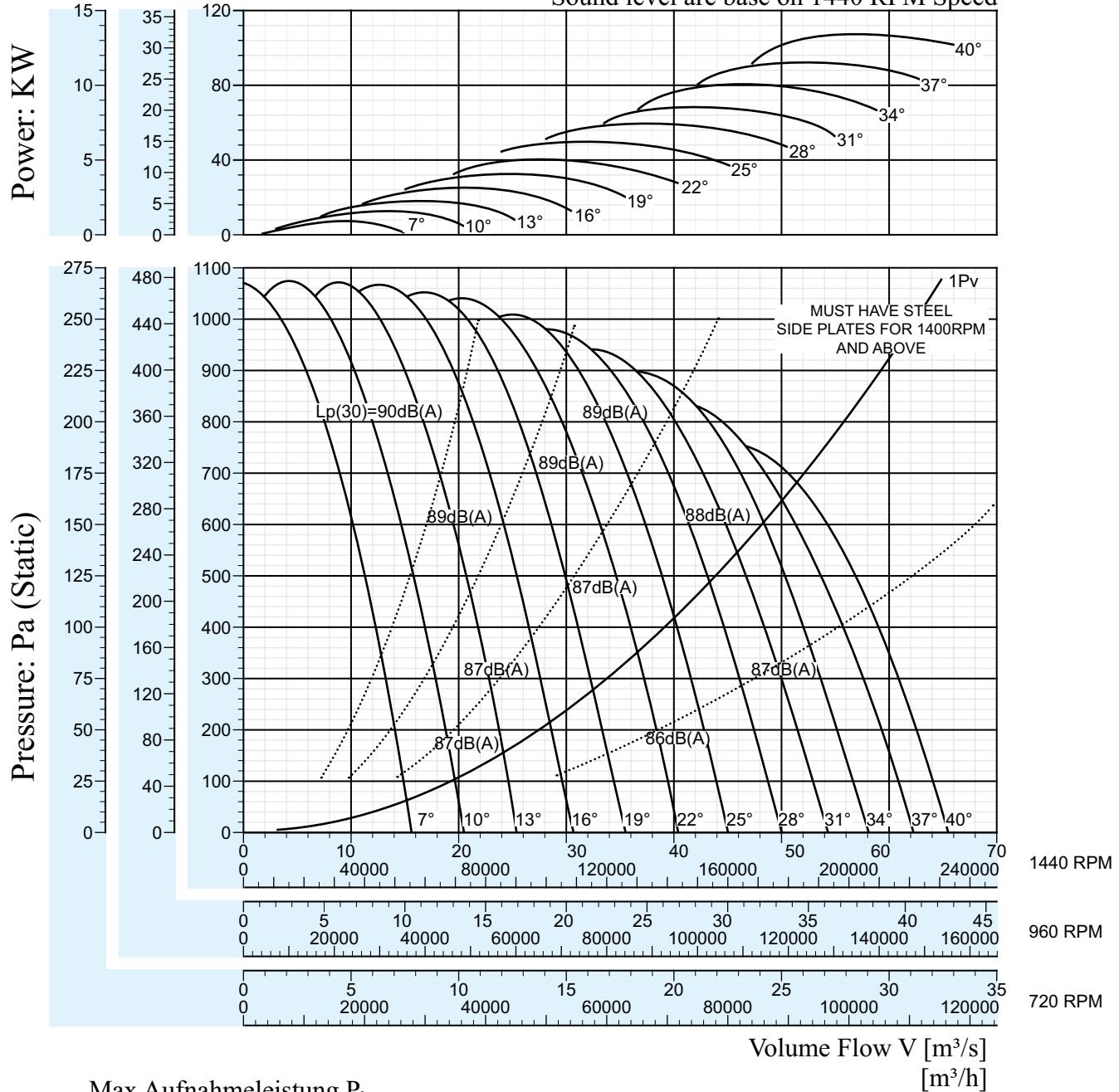
Max Aufnahmleistung  $P_{max}$

Peak absorbed power [KW]

Speed RPM	Pitch Angle	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	1.00	1.46	1.98	2.52	3.22	4.01	4.84	5.63	6.81	7.86	9.02
		2.38	3.45	4.68	5.98	7.62	9.51	11.5	13.4	16.1	18.6	21.4
		8.03	11.7	15.8	20.2	25.7	32.1	38.7	45.1	54.5	62.9	72.1

**AR-1400-7**

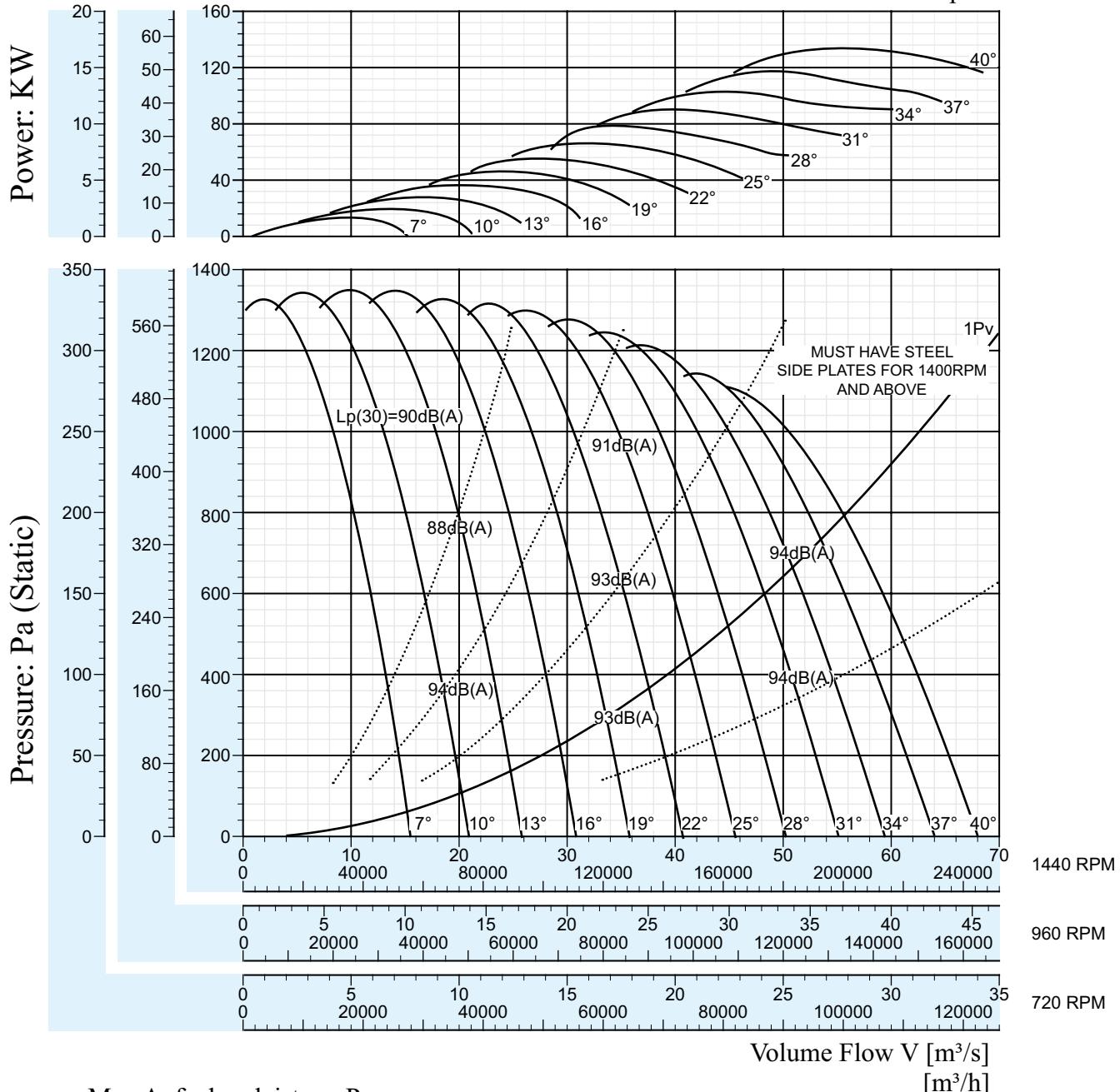
Sound level are base on 1440 RPM Speed



Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	1.11	1.75	2.41	3.17	4.15	5.08	6.26	7.46	8.54	9.98	11.4	13.3
960		2.26	4.16	5.72	7.52	9.84	12.1	14.8	17.7	20.2	23.7	27.1	31.4
1440		8.85	14.0	19.3	25.4	33.2	40.7	50.1	59.7	68.3	79.9	91.3	106

**AR-1400-11**

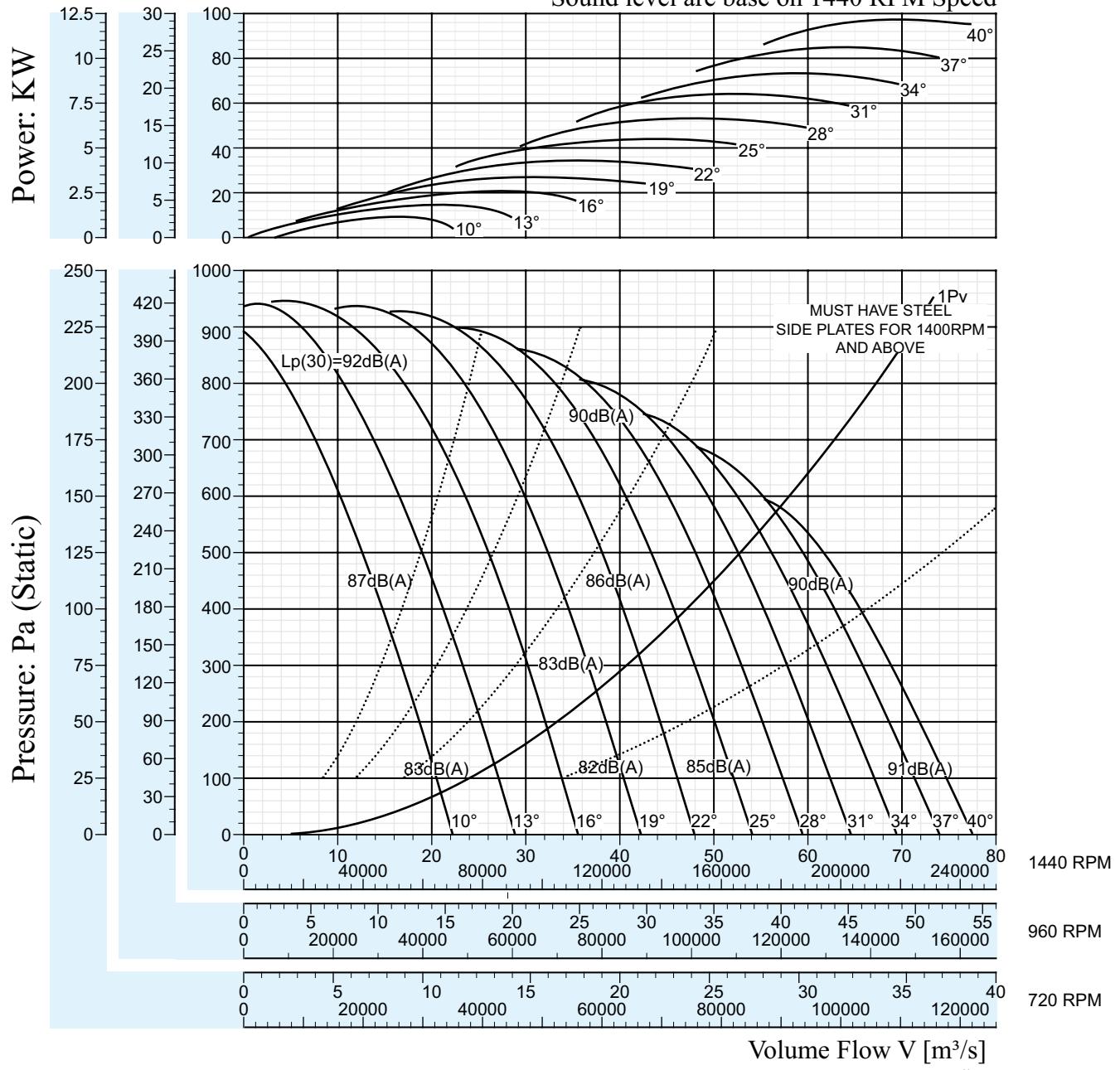
Sound level are base on 1440 RPM Speed


 Max Aufnahmleistung  $P_{Lmax}$   
 Peak absorbed power [KW]

Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	1.68	2.49	3.40	4.50	5.60	6.87	8.19	9.62	11.1	12.7	14.5	16.6
960		3.98	5.90	8.07	10.7	13.3	16.3	19.4	22.8	26.3	30.1	34.5	39.3
1440		13.4	19.9	27.2	36.0	44.8	54.9	65.6	77.0	88.9	102	116	133

**AR-1530-4**

Sound level are base on 1440 RPM Speed

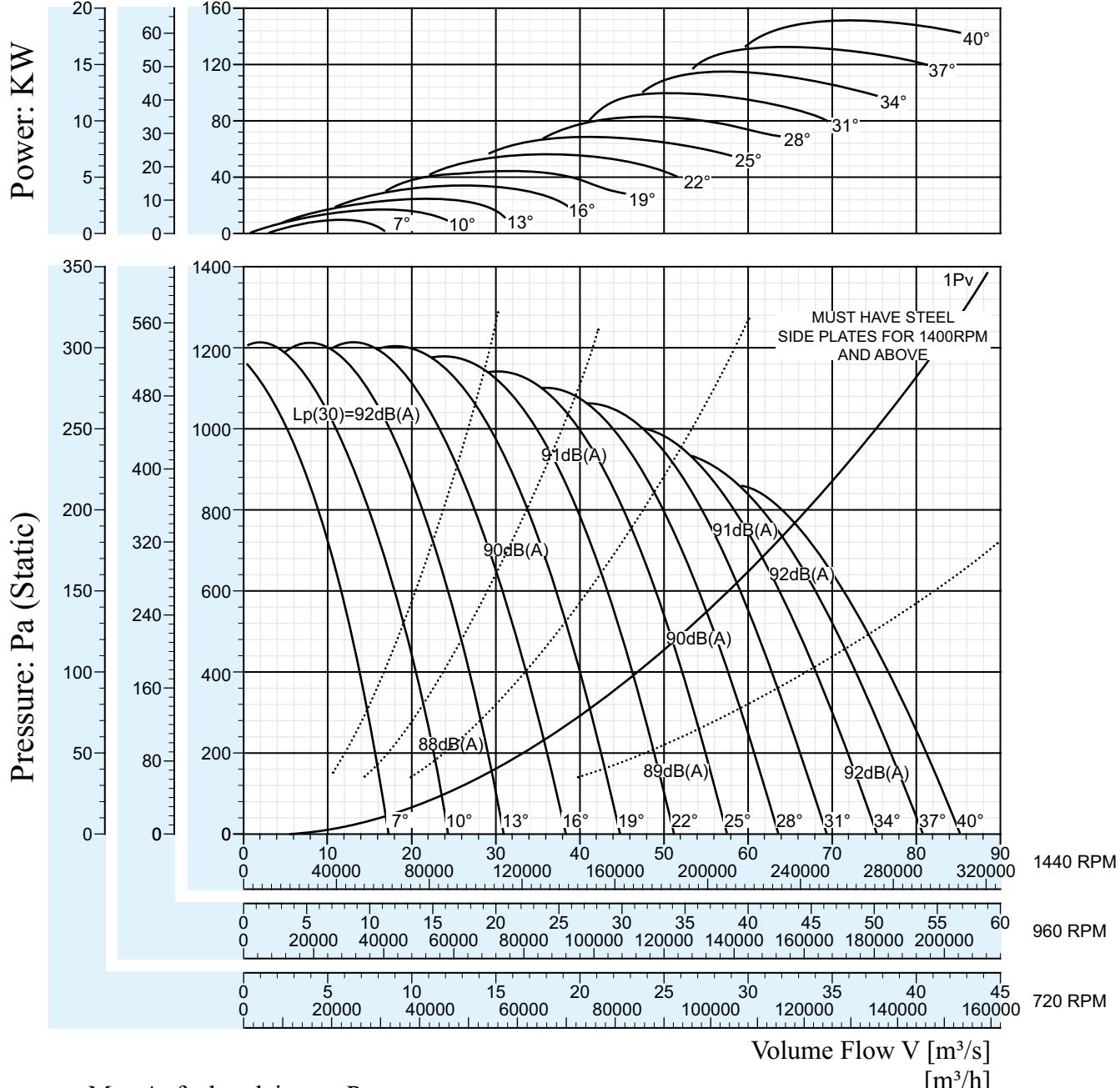
Max Aufnahmleistung  $P_{\text{Lmax}}$ 

Peak absorbed power [KW]

Speed RPM	Pitch Angle	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	1.16	1.79	2.51	3.34	4.28	5.38	6.52	7.82	8.93	10.4	12.0
960		2.74	4.23	5.96	7.92	10.2	12.7	15.5	18.5	21.2	24.7	28.5
1440		9.26	14.3	20.1	26.7	34.3	43.0	52.2	62.5	71.4	83.5	96.0

## AR-1530-7

Sound level are base on 1440 RPM Speed



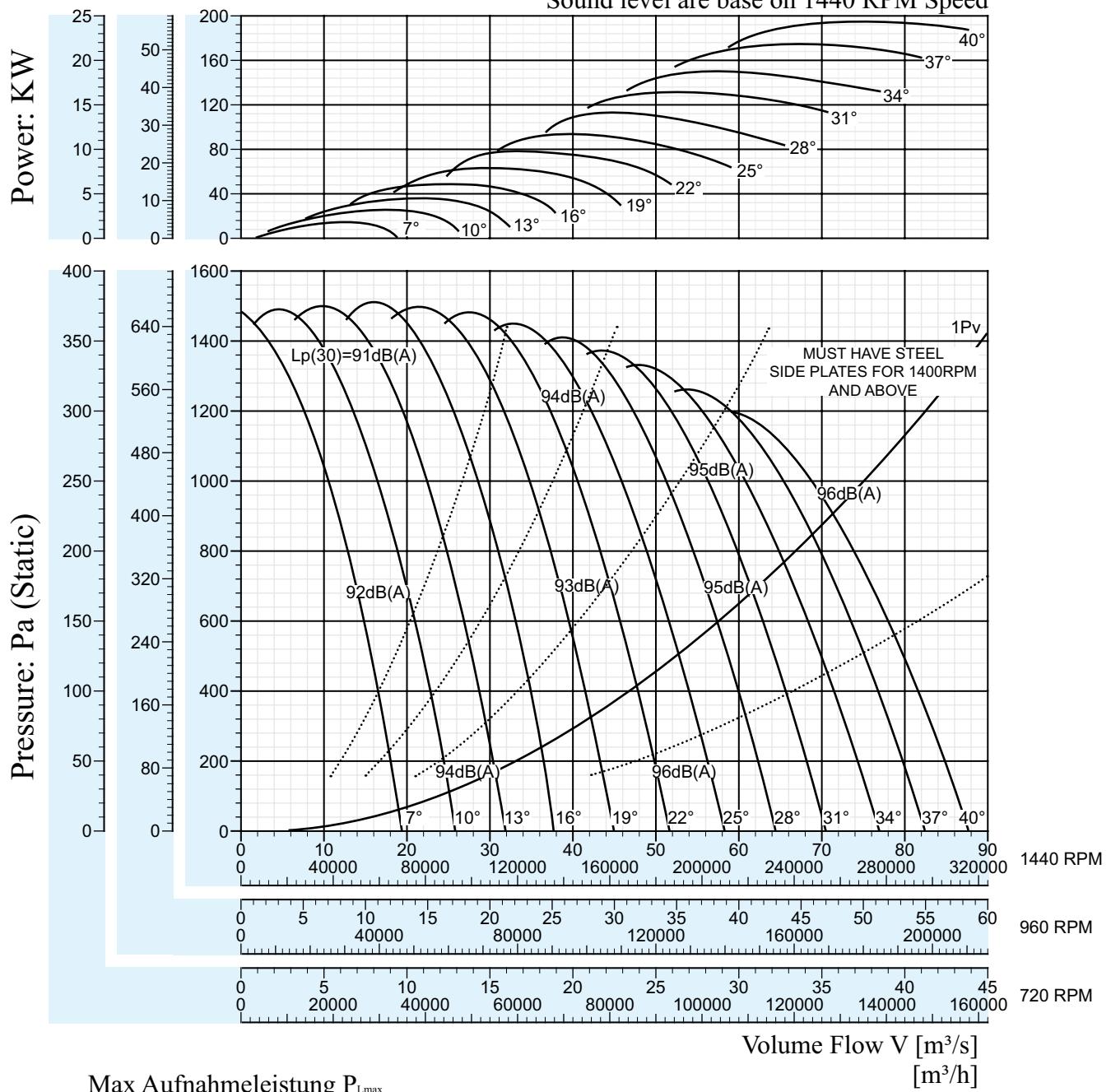
Max Aufnahmleistung  $P_{L_{max}}$

Peak absorbed power [KW]

Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	1.28	2.14	2.94	4.07	5.46	6.90	8.50	10.2	12.1	14.2	16.2	18.7
960		3.03	5.06	6.97	9.64	12.9	16.3	20.1	24.1	28.7	33.6	38.5	44.2
1440		10.2	17.1	23.5	32.5	43.7	55.2	68.0	81.2	96.9	113	130	149

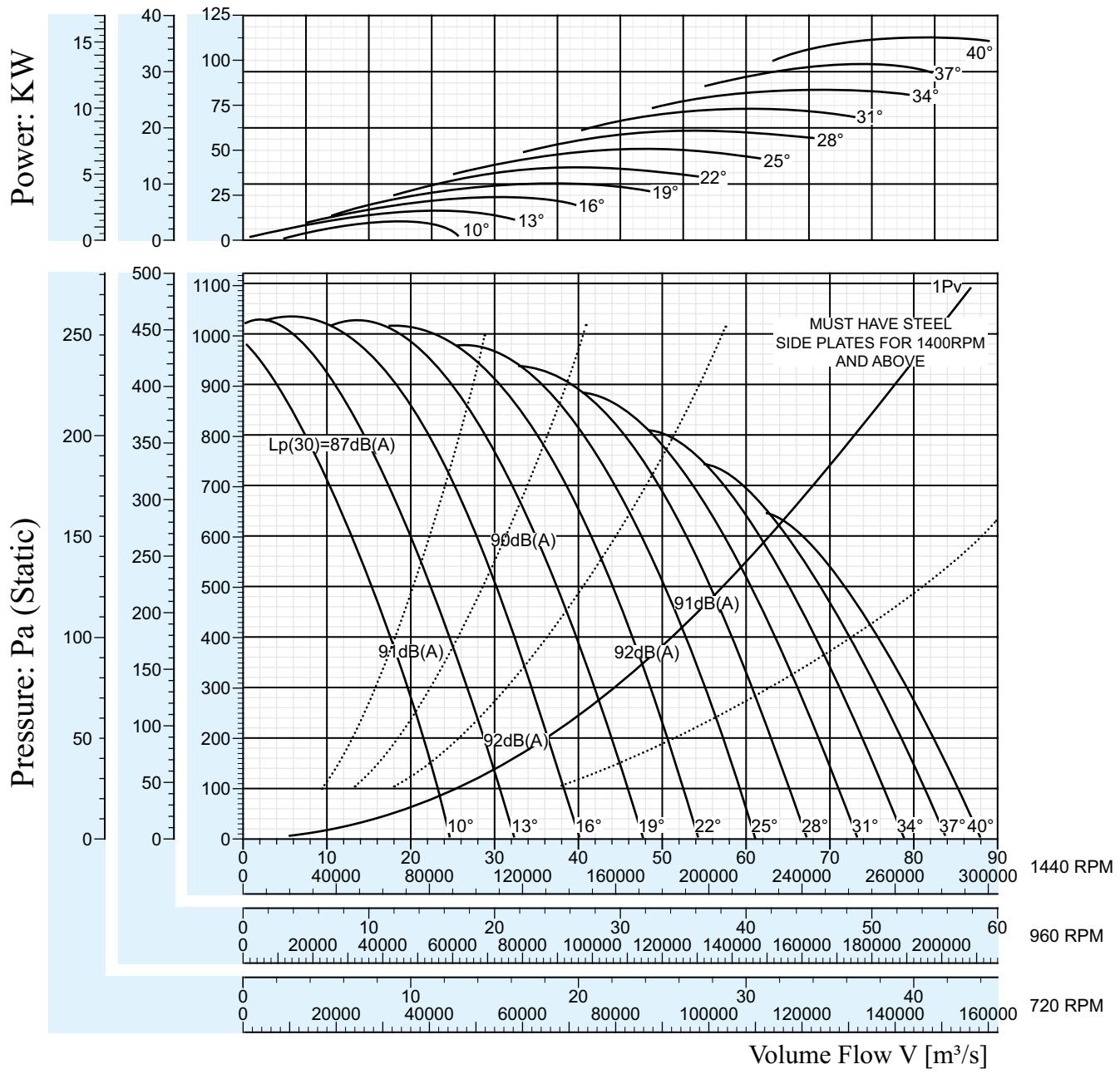
**AR-1530-11**

Sound level are base on 1440 RPM Speed



Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
Peak KW	720	1.94	3.16	4.23	5.79	7.50	9.57	11.3	13.6	15.9	18.2	21.2	23.9
	960	4.59	7.49	10.0	13.7	17.8	22.7	26.9	32.3	37.8	43.2	50.2	56.7
	1440	15.5	25.3	33.9	46.3	60.0	76.5	90.7	109	128	146	169	191

## AR-1600-4



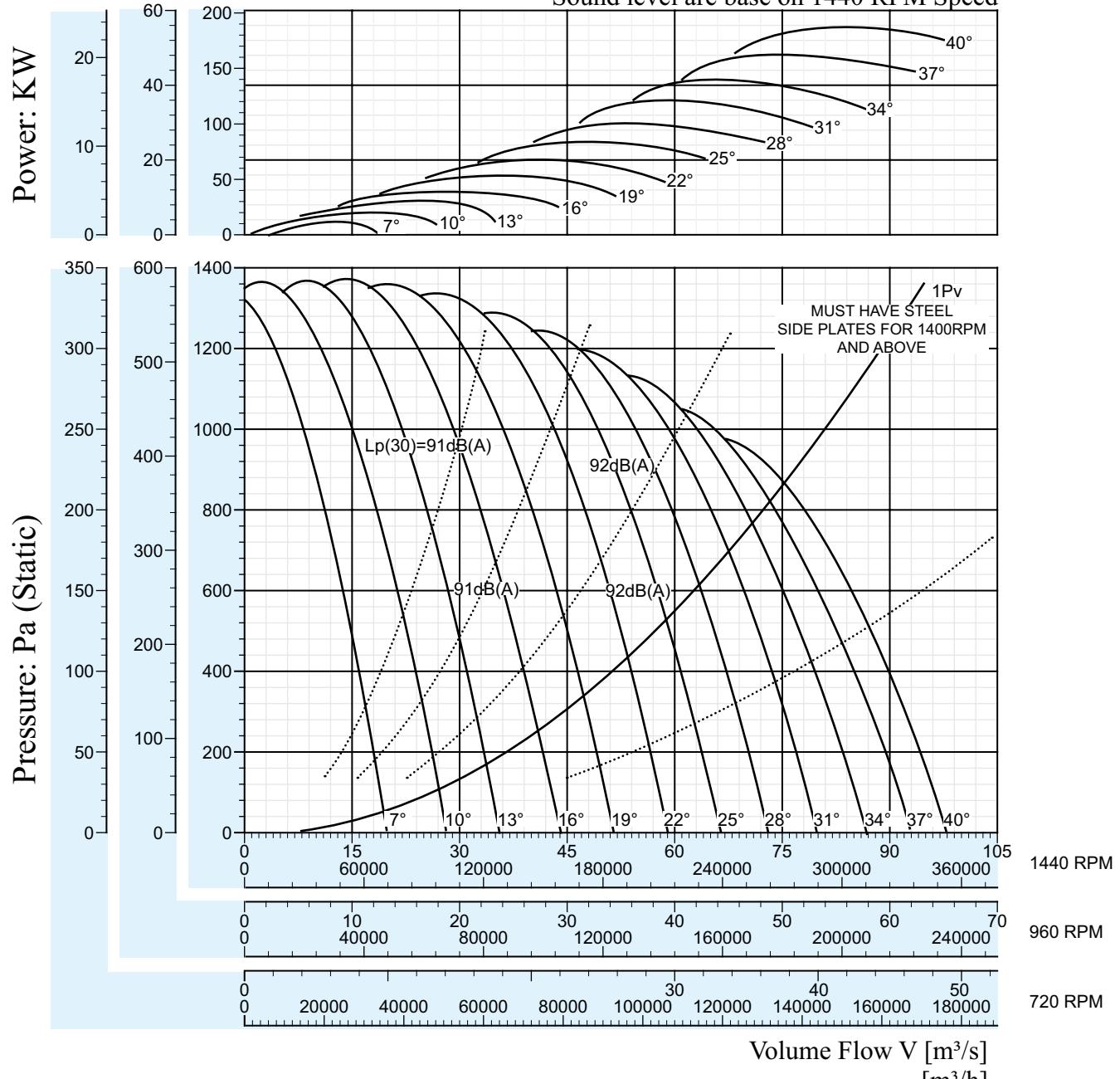
Max Aufnahmleistung  $P_{L,max}$

Peak absorbed power [KW]

Speed RPM	Pitch Angle	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	1.45	2.24	3.14	4.18	5.25	6.73	8.16	9.78	1116	13	15
		3.43	5.29	7.45	9.90	12.7	15.9	19.3	23.2	26.5	30.9	35.6
		11.6	17.9	25.1	33.4	42.9	53.8	65.3	78.2	89.3	104	120

**AR-1600-7**

Sound level are base on 1440 RPM Speed

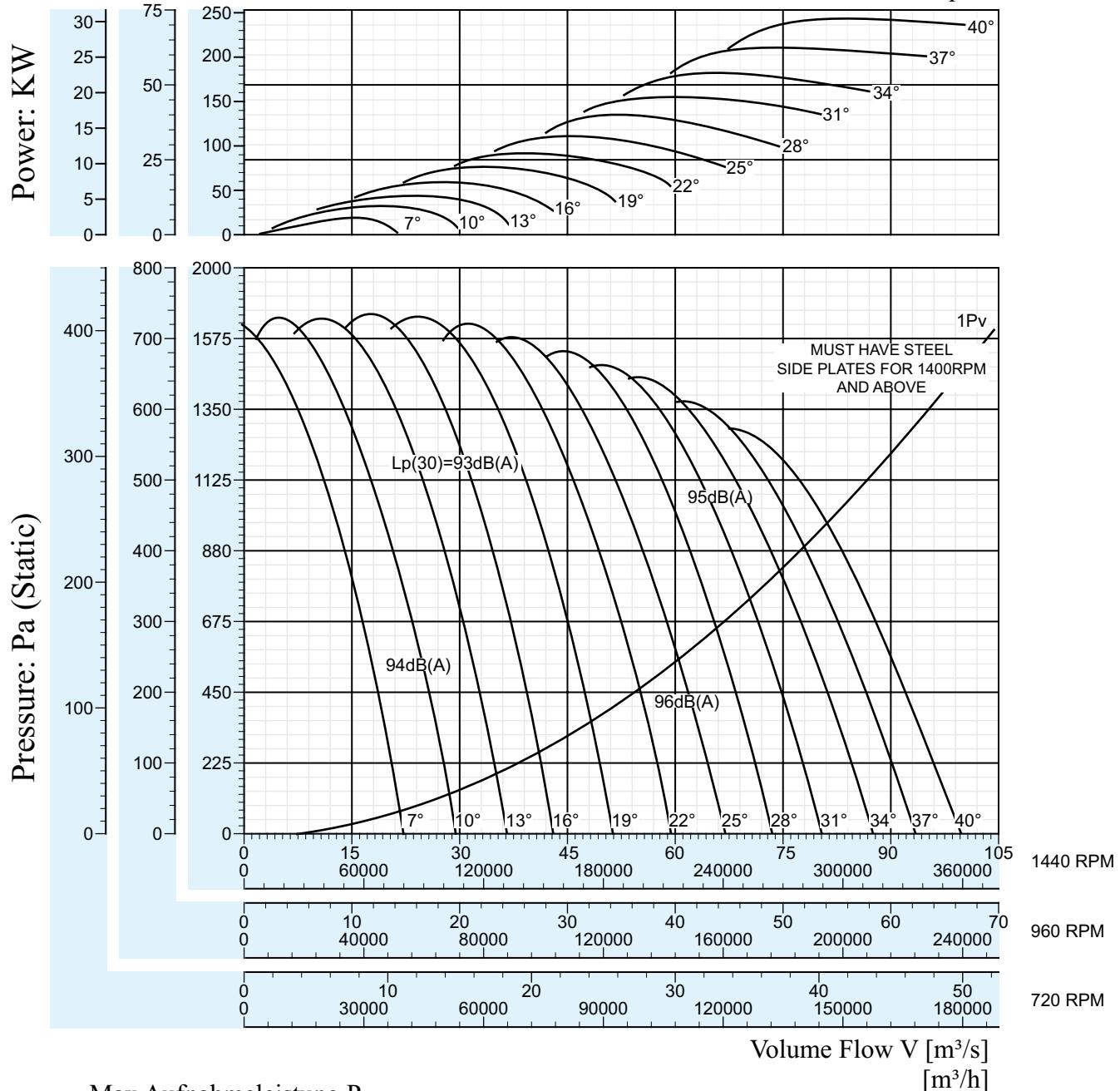
Max Aufnahmleistung P<sub>Lmax</sub>

Peak absorbed power [KW]

Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	1.6	2.68	3.68	5.09	6.83	8.63	10.63	12.75	15.13	17.75	20.38	23.38
960		3.79	6.33	8.72	12.1	16.2	20.4	25.2	30.1	35.9	42.0	48.2	55.3
1440		12.8	21.4	29.4	40.7	54.6	69.0	85.0	102	121	142	163	187

## AR-1600-11

Sound level are base on 1440 RPM Speed

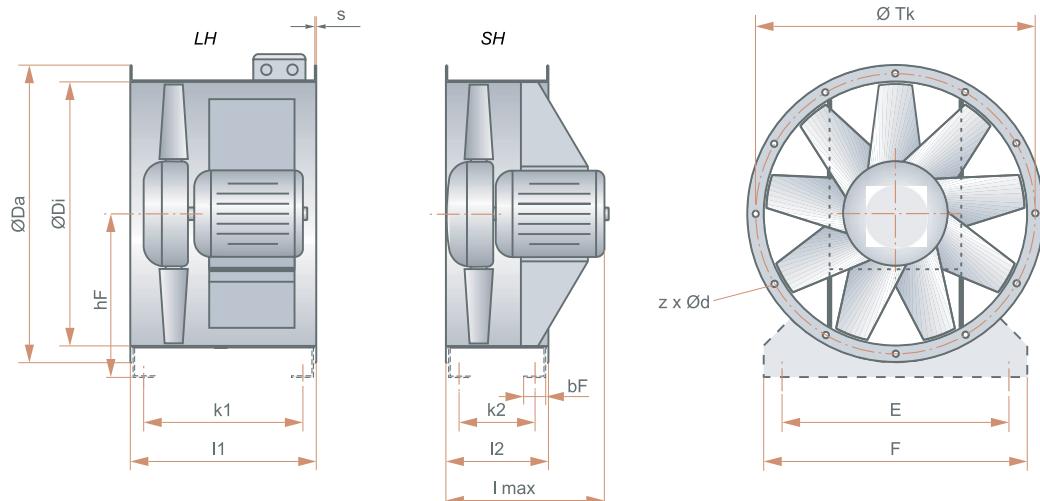


Max Aufnahmleistung  $P_{max}$

Peak absorbed power [KW]

Speed RPM	Pitch Angle	7°	10°	13°	16°	19°	22°	25°	28°	31°	34°	37°	40°
720	Peak KW	2.43	3.95	5.29	7.24	9.39	11.96	16.63	17.13	20	22.75	26.5	29.88
960		5.74	9.37	12.5	17.2	22.2	28.4	33.6	40.5	47.3	54.0	62.8	71.0
1440		19.4	31.6	42.3	57.9	75.1	95.7	113	137	160	182	212	239

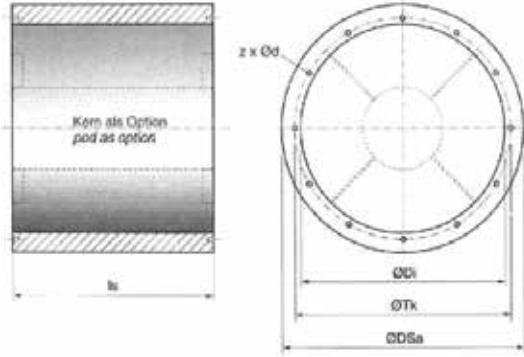
## Axial flow fan dimensions



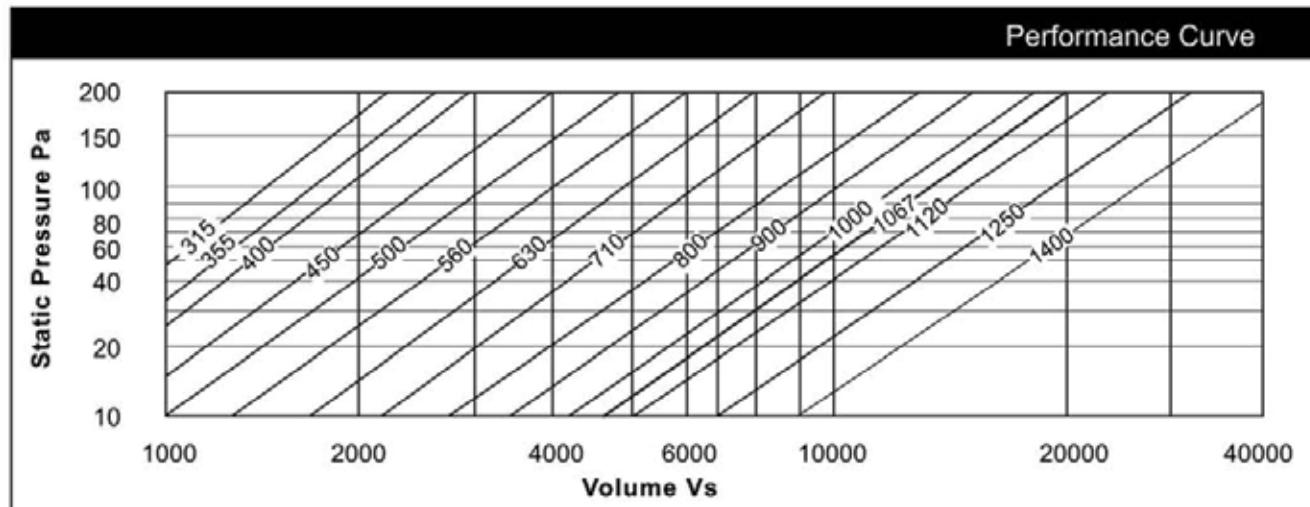
“Size [mm]”	“Di [mm]”	“Da [mm]”	“hF [mm]”	“zxd [mm]”	“Tk [mm]”	“E [mm]”	“F [mm]”	“bF [mm]”
315	315	395	231	8 x 12	355	265	315	60
355	355	435	262	8 x 12	395	305	355	60
400	400	480	297	12 x 12	440	350	400	60
450	450	530	332	12 x 12	490	400	450	60
500	500	580	350	12 x 12	540	440	500	70
560	560	660	366	16 x 14	605	500	560	70
630	630	730	490	16 x 14	675	570	630	70
710	710	810	490	16 x 14	755	650	710	70
800	800	900	508	16 x 14	845	730	800	80
900	900	1000	571	16 x 14	945	830	900	80
1000	1000	1100	659	16 x 14	1050	930	990	80
1067	1067	1081	781	16 x 14	1135	997	1057	80
1250	1250	1345	799	24 x 14	1315	1180	1240	100
1400	1400	1530	-----	24 x 14	1470	1330	1390	120

“Size [mm]”	“s [mm]”	LH				SH	
		“k1 [mm]”	“l1 [mm]”	“motor max”	“k2 [mm]”	“l2 [mm]”	“Imax [mm]”
315/355	2	305	355	80	160	225	350
400	2	305	355	90	160	225	400
450	2	350	400	112	160	225	500
500	2	450	500	132	149	225	400
560	2	450	500	112	149	225	600
		650	700	160	149	225	500
630	2	450	500	112	224	300	750
		650	700	160	149	225	500
710	3	450	500	112	224	300	750
800	3	510	560	132	147	225	400
		630	700	160	147	225	600
900	3	580	630	160	137	225	500
1000/1067	3	580	600	160	212	300	500
		730	780	180	137	225	500
1250	4	700	800	180	262	350	800
		900	1000	225	242	350	800
1400	6	-	1200	250-280	-	-	-
		-	1350	315	-	-	-

Model	Speed [RPM]	Mid Frequency Hz							
		63	125	250	500	1K	2K	4K	8K
Spectrum Factor									
AR 1000-4	720	-8	-8	-8	-9	-12	-14	-22	-30
	960	-7	-7	-7	-8	-10	-15	-20	-28
	1400	-6	-7	-7	-6	-8	-12	-19	-24
AR 1000-7	720	-6	-7	-8	-8	-11	-14	-21	-28
	960	-9	-7	-6	-7	-9	-14	-19	-26
	1400	-8	-9	-7	-5	-7	-11	-18	-22
AR 1000-11	720	-4	-5	-6	-7	-9	-12	-20	-26
	960	-9	-6	-5	-7	-8	-12	-18	-24
	1400	-9	-12	-6	-5	-7	-11	-15	-20
AR 1067-4	720	-7	-8	-8	-9	-12	-14	-22	-30
	960	-7	-7	-7	-8	-10	-15	-20	-28
	1400	-6	-7	-7	-6	-8	-12	-19	-24
AR 1067-7	720	-7	-7	-8	-8	-11	-14	-21	-28
	960	-9	-6	-6	-7	-9	-14	-19	-26
	1400	-8	-9	-7	-5	-7	-11	-18	-22
AR 1067-11	720	-5	-5	-6	-7	-9	-12	-20	-26
	960	-9	-6	-5	-7	-8	-12	-18	-24
	1400	-9	-12	-6	-5	-7	-11	-15	-20
AR 1250-4	720	-6	-8	-8	-9	-11	-14	-22	-30
	960	-6	-7	-7	-8	-10	-15	-21	-28
	1400	-6	-7	-7	-6	-9	-12	-20	-26
AR 1250-7	720	-8	-6	-8	-8	-10	-13	-21	-28
	960	-8	-5	-7	-8	-9	-14	-20	-26
	1400	-8	-8	-6	-6	-8	-12	-19	-24
AR 1250-11	720	-7	-5	-6	-7	-9	-12	-20	-26
	960	-10	-6	-5	-7	-8	-12	-18	-24
	1400	-10	-12	-6	-5	-7	-10	-15	-21
AR 1400-4	720	-6	-6	-7	-9	-11	-15	-21	-30
	960	-6	-6	-7	-8	-10	-15	-20	-29
	1400	-5	-6	-6	-7	-9	-14	-19	-27
AR 1400-7	720	-9	-7	-8	-8	-10	-13	-21	-28
	960	-8	-5	-6	-7	-9	-14	-19	-26
	1400	-7	-4	-5	-6	-8	-12	-18	-26
AR 1400-11	720	-8	-5	-6	-7	-9	-12	-20	-26
	960	-11	-6	-5	-7	-8	-12	-18	-24
	1400	-6	-7	-5	-6	-8	-10	-11	-28
AR 1530-4	720	-6	-5	-7	-8	-11	-15	-21	-32
	960	-5	-6	-6	-8	-10	-15	-19	-30
	1400	-5	-6	-6	-7	-9	-14	-19	-27
AR 1530-7	720	-9	-5	-7	-7	-10	-14	-20	-28
	960	-8	-5	-6	-7	-9	-14	-18	-27
	1400	-7	-4	-5	-6	-8	-12	-18	-26
AR 1530-11	720	-10	-5	-6	-7	-9	-12	-19	-26
	960	-12	-6	-5	-7	-8	-12	-17	-25
	1400	-6	-7	-5	-6	-8	-12	-18	-26
AR 1600-4	720	-7	-6	-8	-10	-14	-19	-22	-33
	960	-6	-7	-7	-9	-13	-18	-20	-31
AR 1600-7	720	-8	-5	-6	-7	-9	-14	-18	-27
	960	-6	-7	-5	-6	-8	-10	-18	-22
AR 1600-11	720	-12	-6	-5	-7	-8	-12	-17	-25
	960	-6	-7	-5	-6	-8	-10	-18	-22



Size	Dsa	Di	Tk	Is	z x d		LP	LP	HP	HP
	mm	mm	mm	1D	2D	mm	1D	2D	1D	2D
315	465	315	355	315	630	8 x 8	10	18	20	29
355	505	355	395	355	710	8 x 8	12	19	22	30
400	600	400	440	400	800	12 x 8	13	20	23	31
450	650	450	490	450	900	12 x 8	18	26	29	37
500	700	500	540	500	1000	12 x 8	23	32	35	43
560	760	560	605	560	1120	16 x 8	25	39	43	55
630	830	630	675	630	1260	16 x 8	32	43	52	64
710	910	710	755	710	1420	16 x 8	39	48	63	78
800	1000	800	845	800	1600	16 x 8	50	61	79	99
900	1100	900	945	900	1800	16 x 10	74	87	130	157
1000	1200	1000	1050	1000	2000	16 x 10	91	107	161	193
1067	1267	1067	1135	1067	2134	16 x 10	101	131	185	252
1250	1450	1250	1315	1250	2500	24 x 10	126	163	231	315
1400	1650	1400	1470	1400	2800	24 x 14	150	194	285	385



\*Note: Performance curves relate to pressure losses through HP silencers only. The LP models have negligible pressure loss.

Model	Type	Insertion Loss at Hz							
		63	125	250	500	1K	2K	4K	8K
LP 315/355/400/450/500/560	1D	1	4	7	10	14	11	8	8
HP 315/355/400/450/500/560	1D(POD)	4	6	9	13	19	19	16	14
LP 315/355/400/450/500/560	2D	4	8	12	17	23	17	13	12
HP 315/355/400/450/500/560	2D(POD)	7	11	15	24	28	28	26	22
LP 630/710/800/900	1D	3	5	9	14	14	9	8	7
HP 630/710/800/900	1D(POD)	4	6	10	17	23	21	19	11
LP 630/710/800/900	2D	6	8	14	23	24	14	13	10
HP 630/710/800/900	2D(POD)	7	11	16	29	34	32	30	19
LP 1000/1067/1250	1D	3	5	10	14	13	8	7	7
HP 1000/1067/1251	1D(POD)	4	6	12	20	19	15	14	12
LP 1000/1067/1252	2D	6	9	14	21	20	13	11	10
HP 1000/1067/1253	2D(POD)	7	12	19	29	28	26	22	17
HP 1400	1D(POD)	4	7	14	24	20	13	8	6

## Bifurcated Axial Fans



## BAR Range

- Suitable for temperatures up to +400°C
- motor isolated from the air stream
- Single phase motor are available up to 2.2kw
- maintenance free and reliable

Bifurcated axial fans are equipped with die cast aluminium impellers with adjustable blades. The casings are manufactured from hot dip galvanised steel. B3 foot mounted motors with terminal box mounted onto the motor. Easily accessible for connection.

Bifurcated casings are manufactured from sheet steel, hot dip galvanized upon completion. Flanges on both ends are pressed on, and punched in accordance with DIN 24154, set 3. Casing suitable for outdoor installations.

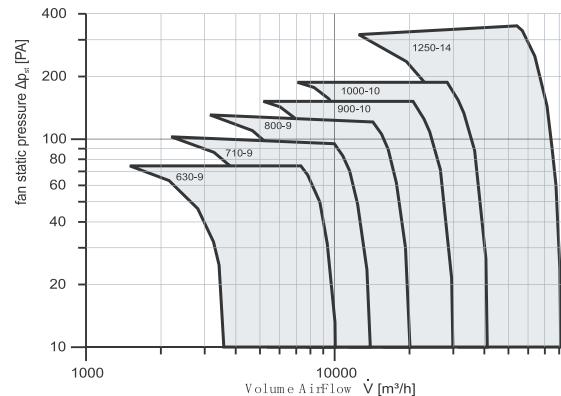
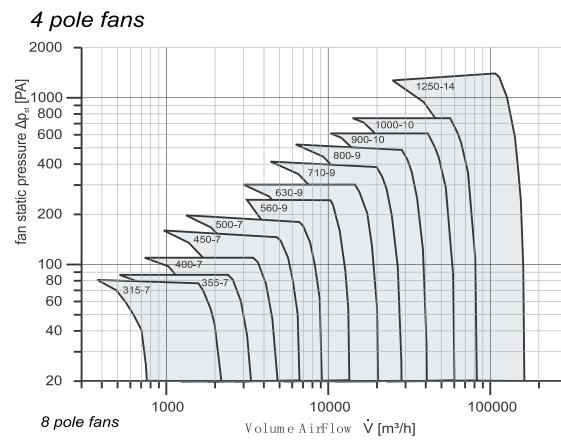
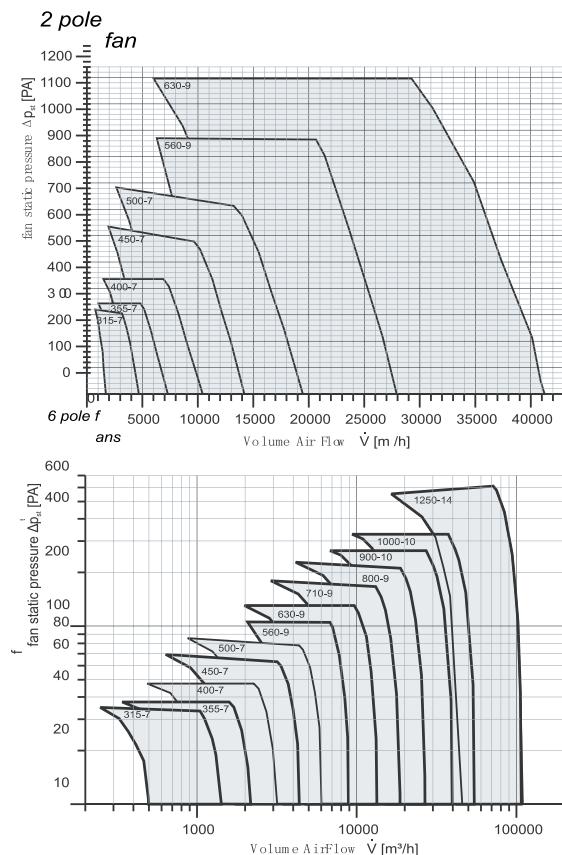
## Impellers

Impellers (hub and blade) are manufactured from cast aluminium alloy; the aerodynamically shape of the impeller guarantee a high efficiency and low noise. The construction of the hub enables a step-less adjustment of blade angle in standstill, in order to reach the optimal duty point.

## Motors

Bifurcated is equipped with AC-motors acc. to EC-Norm 34-1. The motors are completely closed, surface cooled squirrel-cage motors. They are suited for transported air up to 40 °C. Motor protection class IP 55, insulation class F. On request it is possible to use motors for higher temperature classes, dual-speed with two speeds, with dahlander connection or separate windings

## Quick selection





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\*subject to technical modification