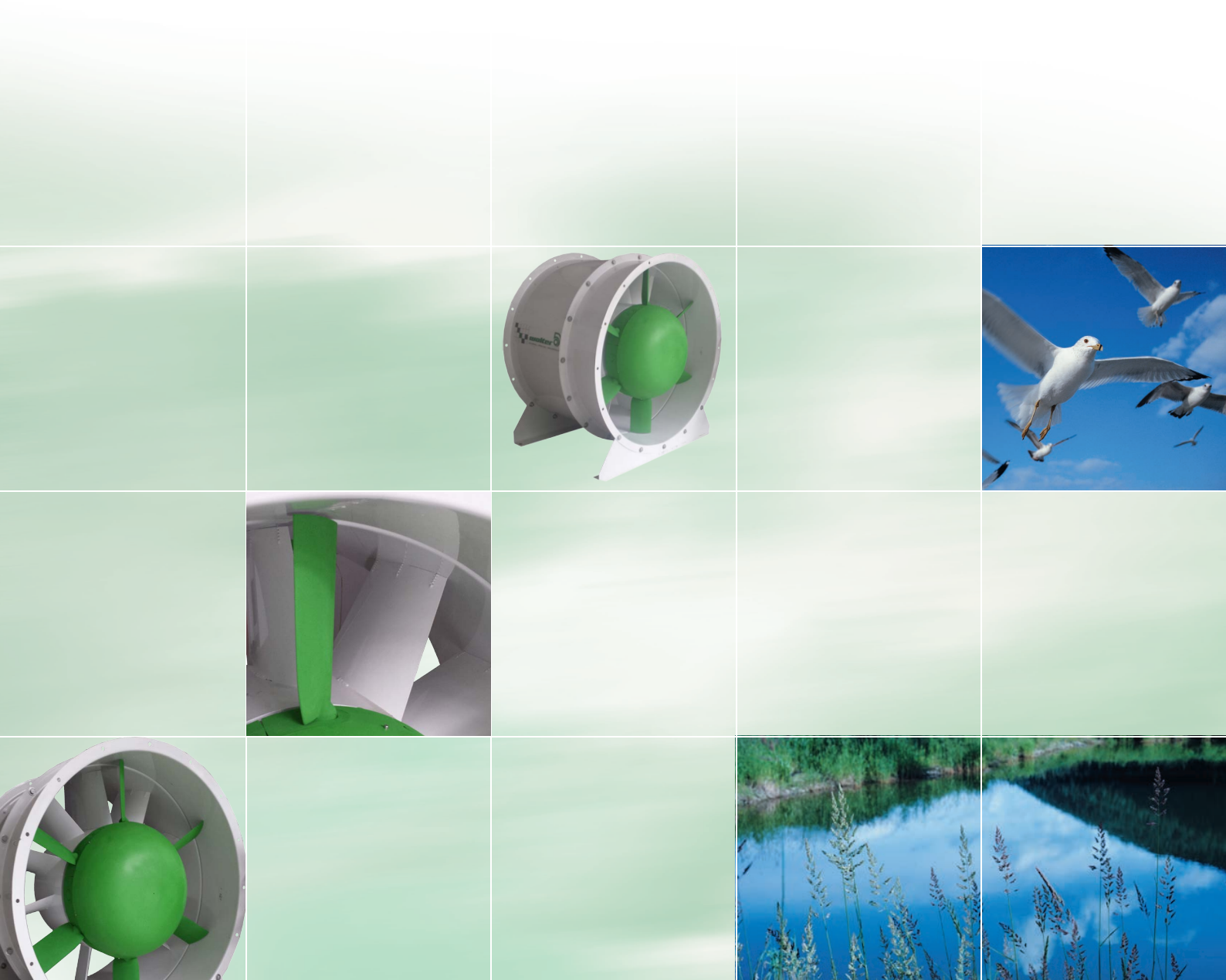




Vane Axial Flow Fans

- Direct Driven
- Belt Driven



A09-D

Dongguan Wolter Chemco Ventilation Ltd. certifies that the series AXV-D shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Table of Content

Contents	Page 1
Fan Type Code	Page 2
Design Features	Page 2
Fan Selection	Page 3
Selection Sample	Page 3
AMCA FEG Rating	Page 4
Fan Performance Curves - 50Hz	Page 5~22
AMCA FEG Rating	Page 23
Fan Performance Curves - 60Hz	Page 24~41
Dimensions	Page 42~43
Accessories	Page 44
Sound Information	Page 45~47
Tubular sound attenuator for AXV-D	Page 48~49

Subject to change without prior notice.

Vane Axial Fans

Technical information

AXV-D

Fan type code

AXV-D 800 / 20°

Pitch angle

AXV-D: impeller-Ø

500 ... 2800

Axial impeller blade type



Design features

Types and duty range

Wolter vane axial fans can be used for various applications in ventilation and process air technology. Standard diameters range from 500 to 2,800 mm, with airflow rates of up to 290 m³/s at static pressure increases of up to 2,000 Pa. The high efficiencies and high pressures are achieved by the use of the aerodynamically designed outlet guide vanes.

Application

The AXV-D range of vane axial fans is designed and tested to operate at standard temperatures as well as at elevated temperatures of 300°C for 60 (F300) and 120 minutes and 400°C for at least 120 minutes (F400), according to DIN EN ISO 12101, part 3. The following fan curves are valid for standard temperatures and 300°/60(120) minutes operation. To select a fan for 400°C/120 minutes operation, please contact our technical support.

Well suited for industrial applications, ventilation and for conveying clean and dusty air where medium pressures are required with a high airflow volume and fan efficiency.

Casing

Fan casings are made of steel, with flanges rolled on both sides. The pitch circles of holes are in accordance with DIN 24 154, R2. The fan casings are hot dipped galvanised as standard. Optional: Optimal corrosion protection by powder-coating.

If motors require additional lubrication, tubes and grease-nipples are fitted to the outside of the fan casing. An inspection hole, closed by a rubber plug, allows controlling the direction of rotation.

Impellers

Hubs and impeller blades are made of highly corrosion resistant pressure-cast aluminium alloy. The aero dynamical profile of the impeller blades guarantees a high level of efficiency and low noise. The blade angle is adjustable during standstill. The variable number of blades expands the performance range. Dynamically balanced according to DIN ISO 1940-1, balancing quality G6.3.

Motors

Wolter uses closed squirrel cage motors according to IEC 34, if required also in accordance with EPACT. Standard motors are class F with IP 55 protection class. Multi speed versions with 2 or 3 speeds (Dahlander circuit or separate windings) are also available, as well as explosion-proof versions or specific industrial executions such as marine-type fans. The motor bearings have a L 10 life.

Fan performance curves

The performance curves for these fan types have been established in installation type - D (according to AMCA 210, ducted inlet and ducted outlet) and represent the total pressure increase Δp_t as a function of the volume flow. The dynamic pressure p_{d2} refers to the outlet area of the fan.

Sound levels

The ascertaining of sound level follows the Reverberant Room Method according to AMCA 300. The A-weighted inlet sound power levels L_{wA} is shown on the performance curves.

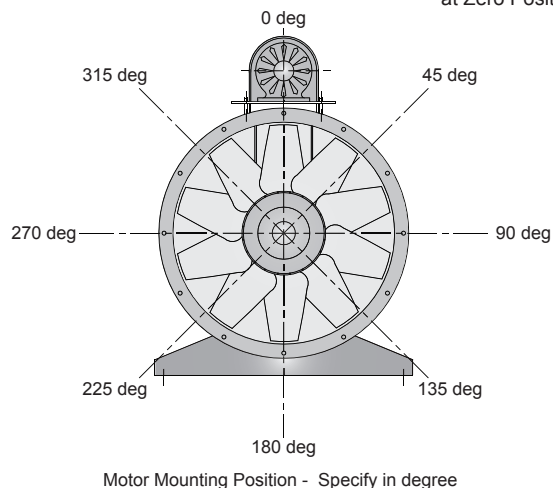
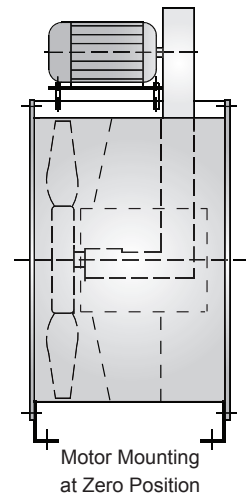
Belt driven design

Belt driven fan with single / dual motors can be mounted in various positions to suit the actual site condition. Belt driven fans are used for applications to extract more heavily polluted air i.e. presence of corrosive or hazardous fumes, or dirt-laden, moist air or hot air from professional kitchens. Various mounting positions are illustrated.

Ordering designations

When ordering, please provide the following information:

- › Fan type
- › Fan code and type
- › Quantity required
- › Duty required at standard air and temperature (air volume in m³/h at static pressure in Pa).
- › Motor power rating in kW
- › Electrical supply
- › Ancillaries required





AXV-D

Selection example

Required duty point

Volume flow: 12 m³/s

Static pressure: 588 Pa

In order to calculate the total pressure, please add velocity pressure to static pressure (87 Pa dynamic pressure + 587 Pa static pressure = 675 Pa total pressure)

Fan speed: 1.440 1/min (4-pole)

Using the fan curve

Having chosen a fan with adequate performance range for the required duty point, plot volume flow and pressure.

At the point of intersection, the following data can be read:

Motor speed or number of poles 1.440 1/min - 4-pole

Pitch angle: 18 degrees

Absorbed power: 12,8 kW

Sound Power Level: 111 dBA

Calculation of motor power

There are two possibilities to calculate the motor power:

1) Calculation of absorbed power by using the fan curve in duty point: 12,8 kW

Motor power: 15 kW

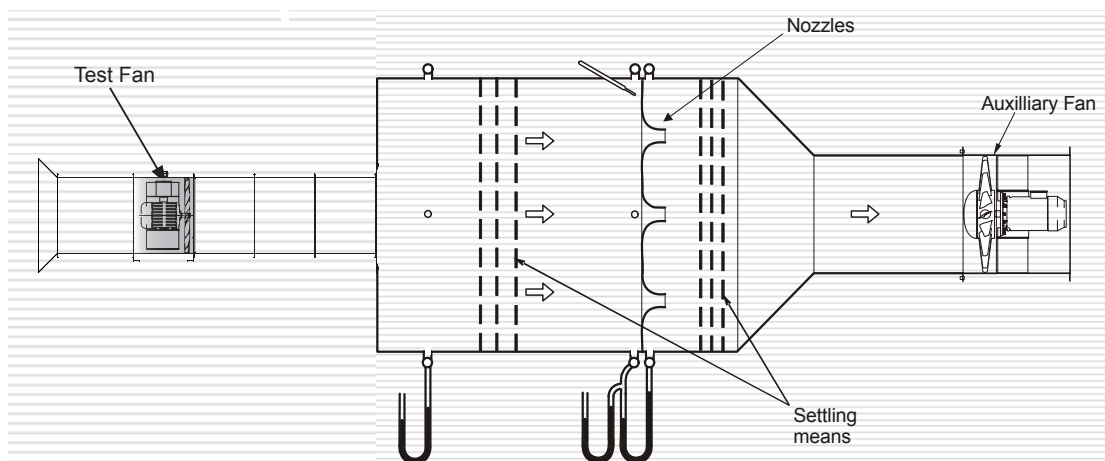
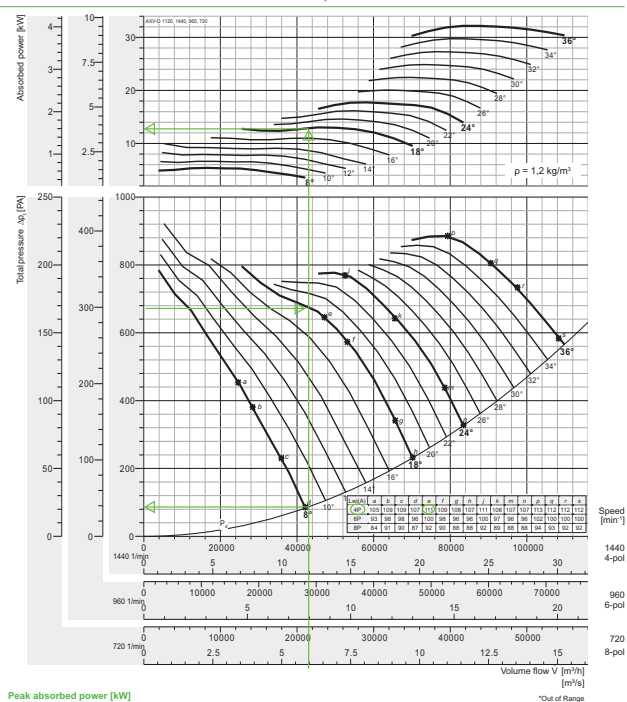
2) Calculation according to peak absorbed power, see table below the fan curve: 13 kW

Motor power: 15 kW

The given peak absorbed power is the maximum shaft absorbed power over the whole pitch angle curve in.

Performance Curve

AXV-D 1120, 50 Hz



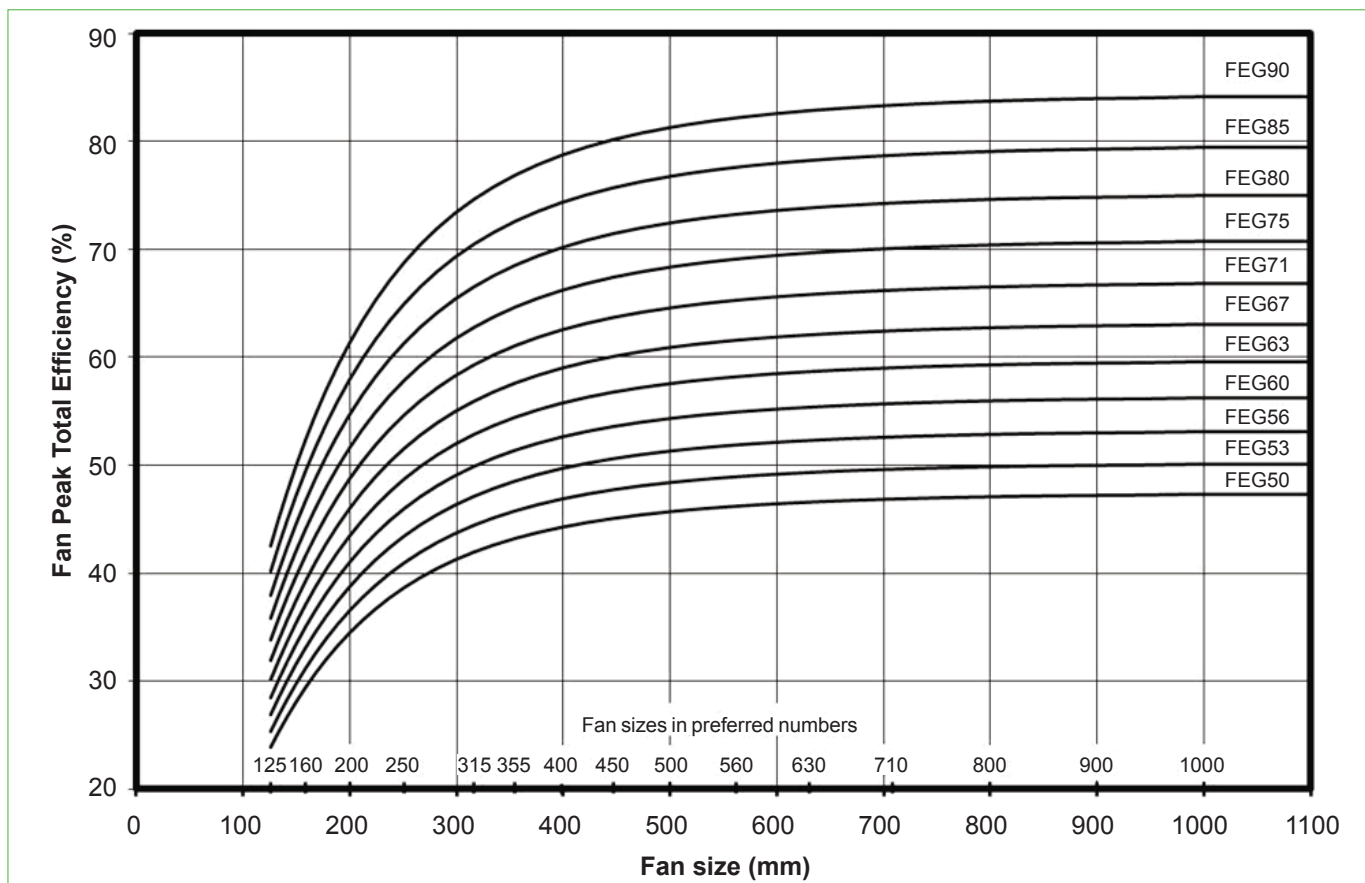
AMCA 210 Figure 12
ISO 5801 Figure 73b

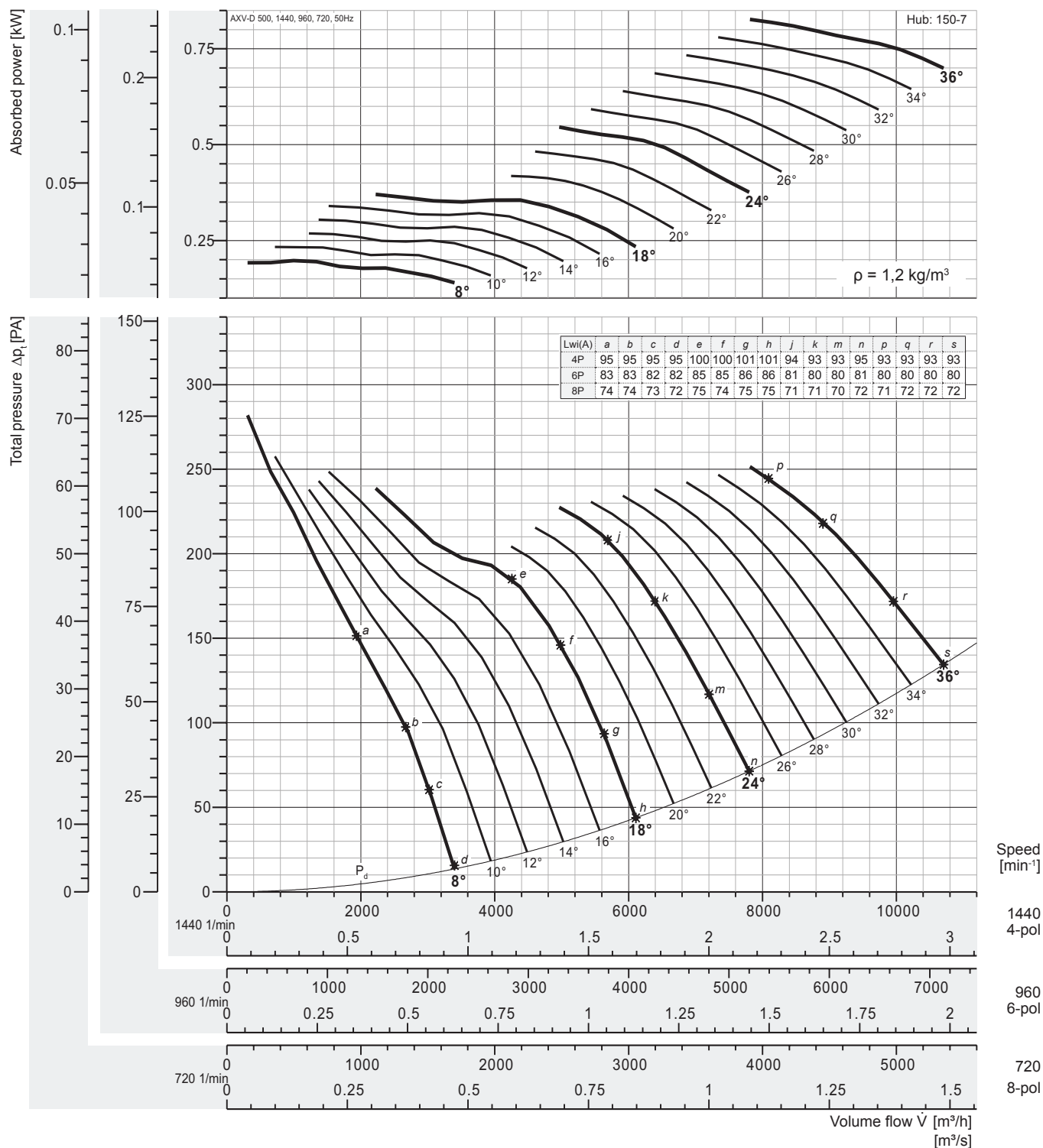


Certified FEGs are determined in accordance with AMCA 205-12 Energy Efficiency Classification for fans. In conjunction with AMCA 211-05 (Rev. 6/12) Certified Ratings Program, Product Rating Manual for Fan Air Performance. This classification is based on fan peak (optimum) total efficiency for a given fan speed, fan size and application category. For the purpose of energy classification, the peak efficiency can be determined at a speed not higher than the maximum design speed of the fan.

The AMCA Certified Ratings Seal applies to the Fan Efficiency Grade (FEG) for AXV series Axial Fan model AXV-D 500 to AXV-D 2800 as shown in the table below.

Fan Model No.	Fan Speed (rpm)	Fan Outlet Area (m2)	Fan Efficiency Grades	Fan Model No.	Fan Speed (rpm)	Fan Outlet Area (m2)	Fan Efficiency Grade
AXV-D 500	1440/960/720	0,1987	FEG71	AXV-D 1400	960/720/576	1,5504	FEG71
AXV-D 560	1440/960/720	0,2507	FEG71	AXV-D 1600	960/720/576	2,0232	FEG71
AXV-D 630	1440/960/720	0,3157	FEG71	AXV-D 1800	960/720/576	2,5588	FEG71
AXV-D 710	1440/960/720	0,3970	FEG71	AXV-D 2000	960/720/576	3,1573	FEG71
AXV-D 800	1440/960/720	0,4989	FEG71	AXV-D 2200	720/576/480	3,8186	FEG71
AXV-D 900	1440/960/720	0,6277	FEG71	AXV-D 2400	720/576/480	4,5428	FEG71
AXV-D 1000	1440/960/720	0,7901	FEG71	AXV-D 2500	720/576/480	4,9284	FEG71
AXV-D 1120	1440/960/720	0,9940	FEG71	AXV-D 2600	720/576/480	5,3297	FEG71
AXV-D 1250	1440/960/720	1,2272	FEG71	AXV-D 2800	720/576/480	6,1795	FEG71



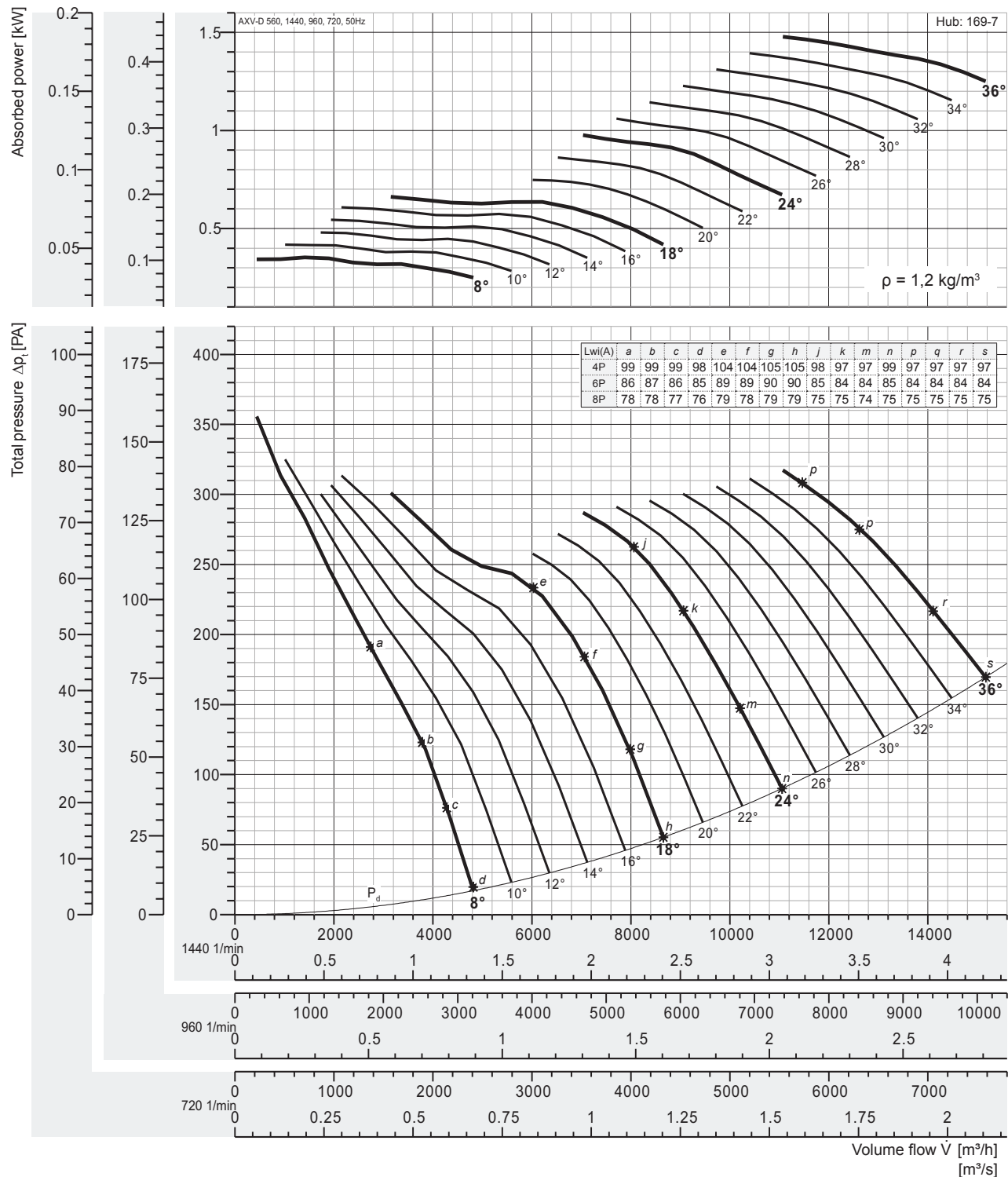


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
720 motor	0,025	0,029	0,034	0,038	0,043	0,046	0,052	0,060	0,068	0,074	0,080	0,086	0,092	0,097	0,103
	0,37														
960 motor	0,059	0,069	0,080	0,090	0,101	0,110	0,124	0,143	0,162	0,176	0,190	0,203	0,217	0,231	0,245
	0,37														
1440 motor	0,197	,0,233	0,268	0,304	0,340	0,370	0,418	0,482	0,546	0,593	0,640	0,686	0,733	0,780	0,827
	0,37						0,55			0,75				1,1	

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

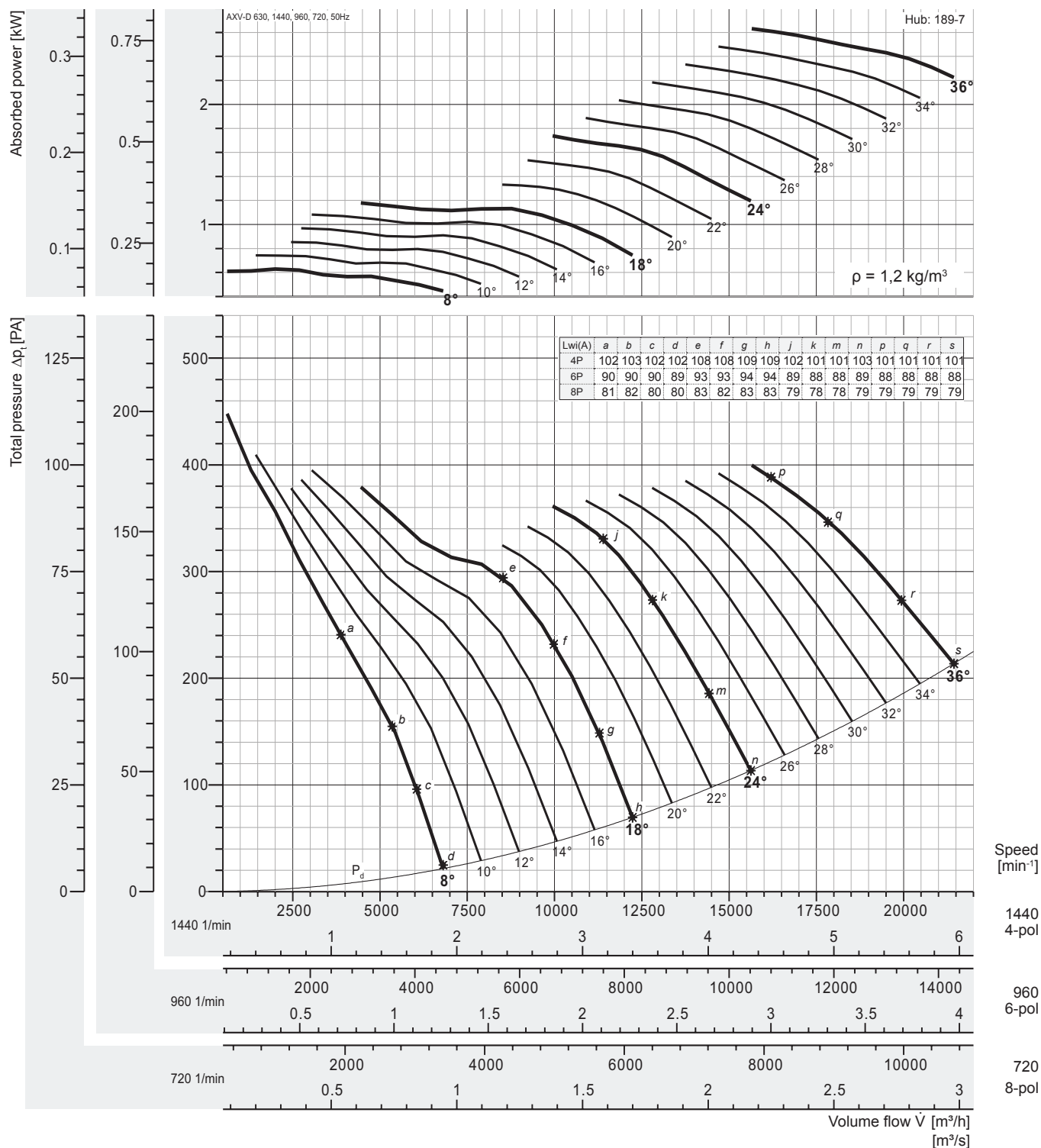


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
720 motor	0,044	0,052	0,060	0,068	0,076	0,083	0,093	0,108	0,122	0,132	0,143	0,153	0,164	0,174	0,185
	0,37														
960 motor	0,105	0,124	0,142	0,161	0,180	0,196	0,222	0,255	0,289	0,314	0,339	0,364	0,388	0,413	0,438
	0,37												0,55		
1440 motor	0,353	0,417	0,480	0,544	0,608	0,662	0,748	0,862	0,976	1,06	1,14	1,23	1,31	1,39	1,48
	0,37	0,55	0,75			1,1			1,5						

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

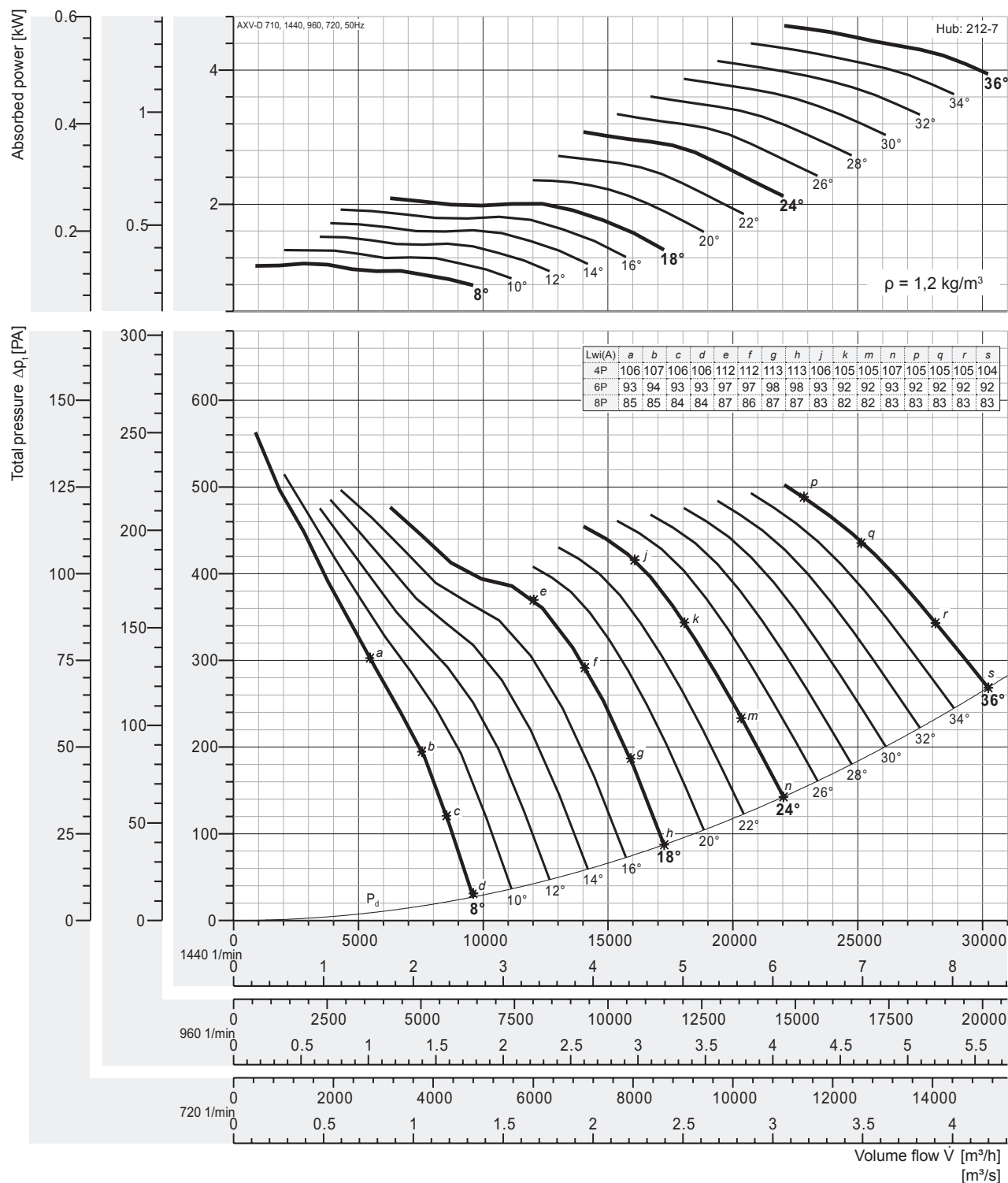


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
720 motor	0,079	0,093	0,107	0,121	0,135	0,147	0,166	0,192	0,217	0,236	0,254	0,273	0,292	0,310	0,329
	0,37														
960 motor	0,186	0,220	0,253	0,287	0,321	0,349	0,394	0,455	0,515	0,559	0,603	0,647	0,691	0,736	0,780
	0,37						0,55		0,75						1,1
1440 motor	0,629	0,743	0,854	0,968	1,08	1,18	1,33	1,53	1,74	1,89	2,03	2,18	2,33	2,48	2,63
	0,75	1,1	1,5					2,2			3				

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

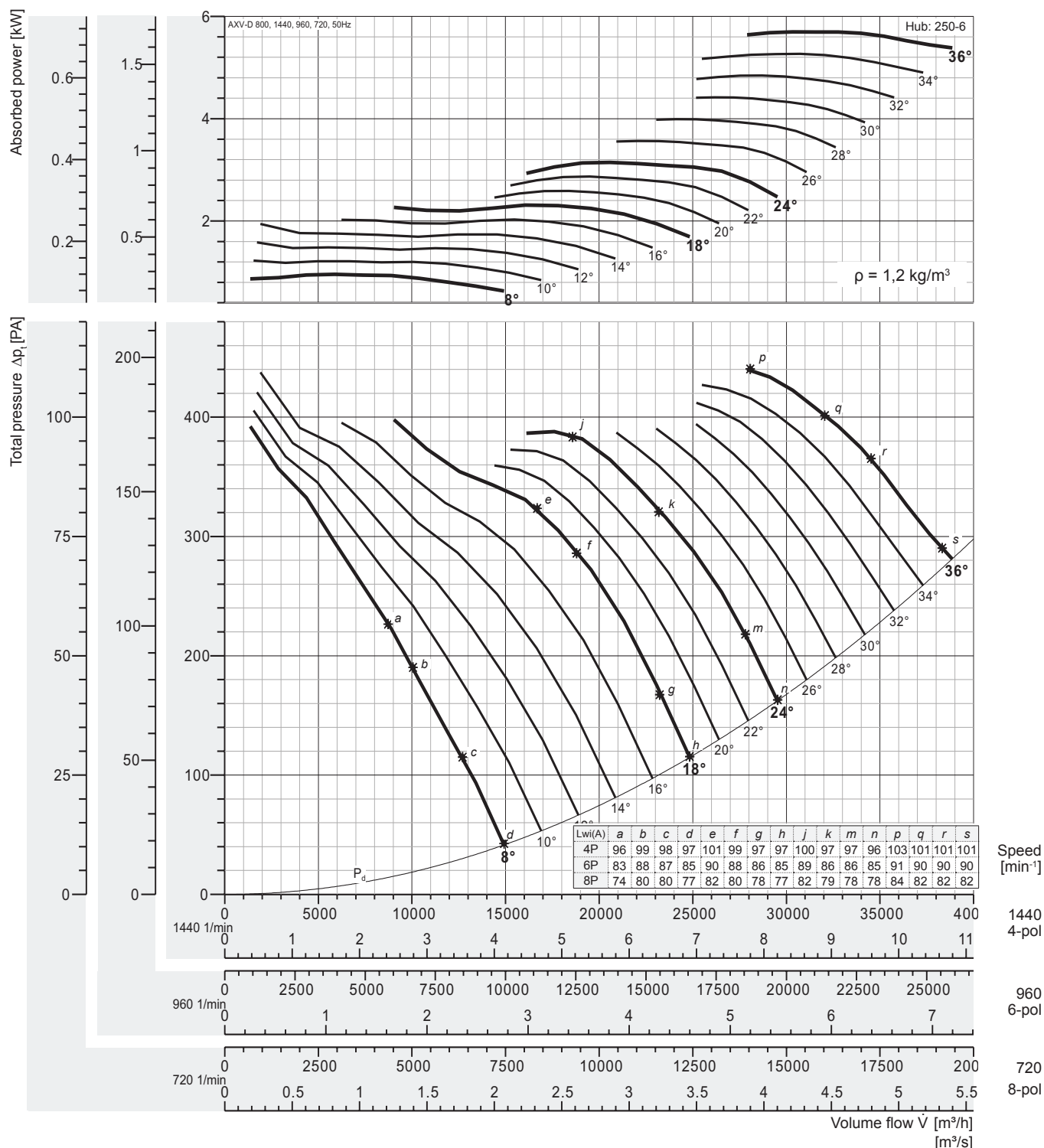


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
720 motor	0,139	0,165	0,189	0,215	0,240	0,261	0,295	0,340	0,385	0,418	0,451	0,484	0,517	0,550	0,583
	0,37								0,55						
960 motor	0,330	0,390	0,449	0,509	0,568	0,619	0,699	0,806	0,913	0,991	1,07	1,15	1,22	1,30	1,38
	0,37	0,55	0,75					1,1				1,5			
1440 motor	1,11	1,32	1,51	1,72	1,92	2,09	2,36	2,72	3,08	3,34	3,61	3,87	4,14	4,40	4,66
	1,5		2,2		3			4		5,5					

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

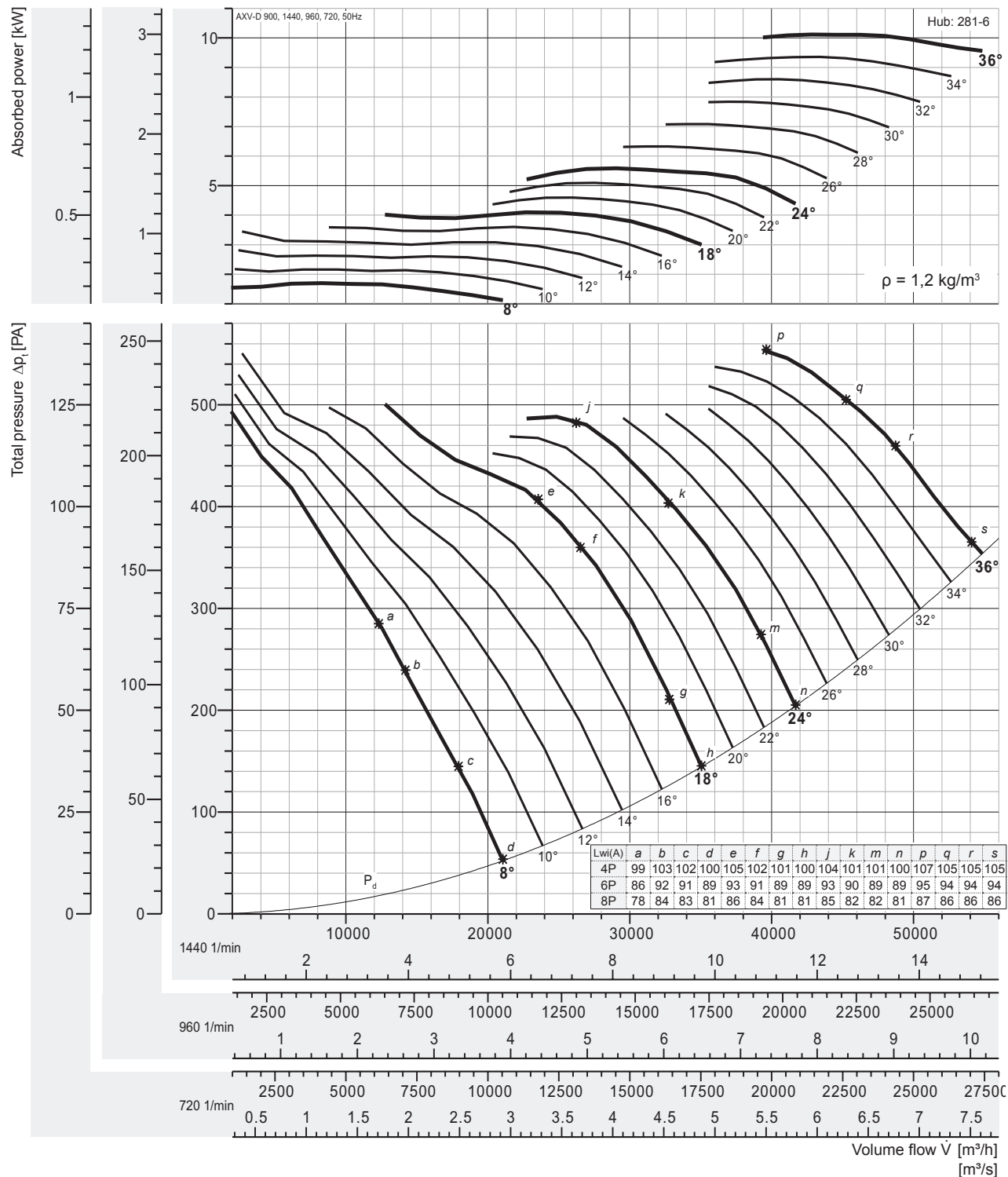


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
720 motor	0,120	0,153	0,198	0,243	0,254	0,289	0,324	0,359	0,394	0,445	0,498	0,552	0,605	0,659	0,713
	0,37								0,55				0,75		
960 motor	0,284	0,363	0,469	0,575	0,601	0,684	0,767	0,850	0,933	1,05	1,18	1,31	1,43	1,56	1,69
	0,37		0,55	0,75				1,1		1,5			2,2		
1440 motor	0,957	1,23	1,58	1,94	2,03	2,31	2,59	2,87	3,15	3,56	3,98	4,41	4,84	5,27	5,71
	1,1	1,5	2,2				3		4			5,5		7,5	

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

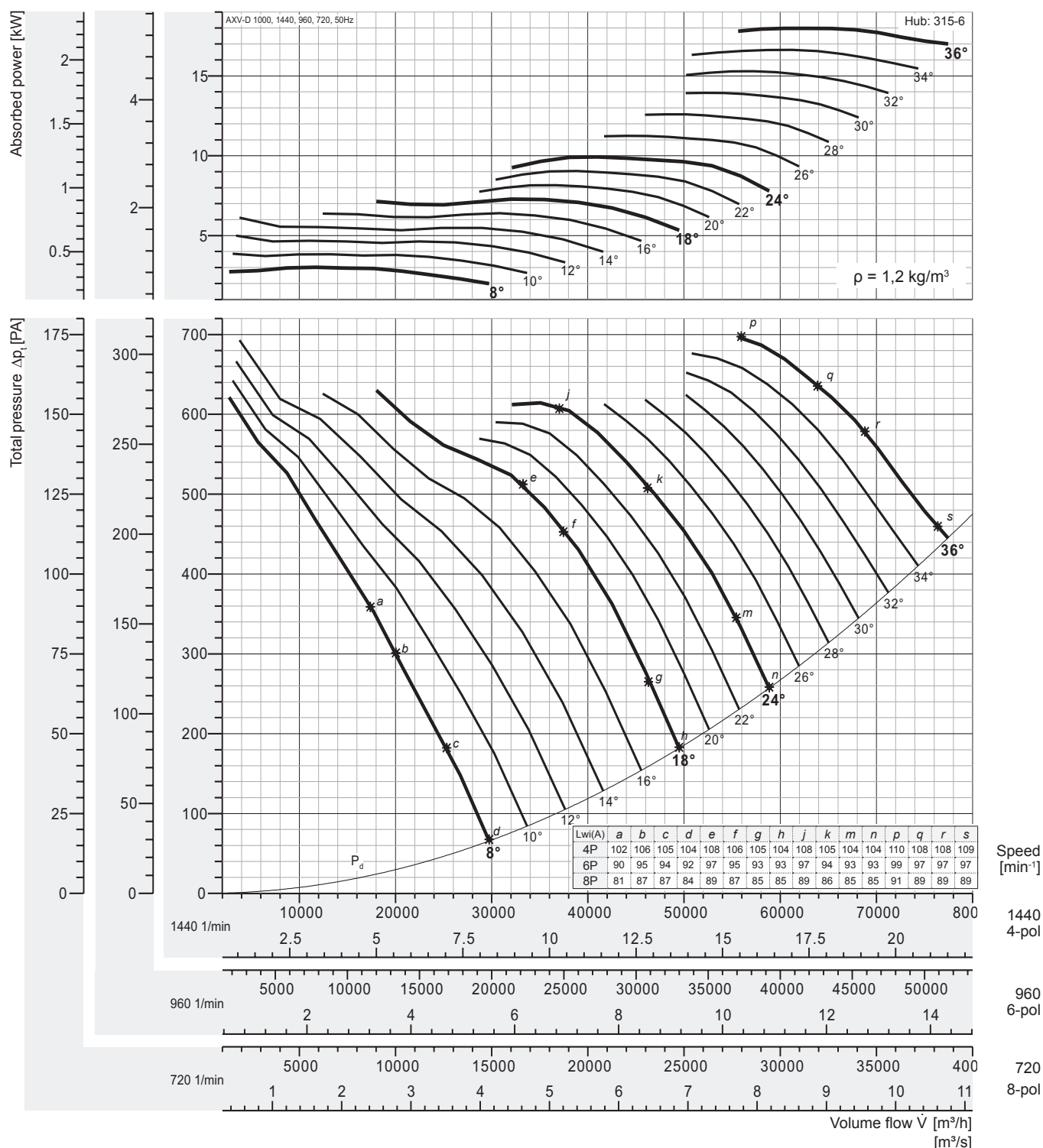


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
720 motor	0,212	0,272	0,352	0,431	0,450	0,512	0,575	0,637	0,699	0,790	0,884	0,980	1,07	1,17	1,27
	0,37			0,55			0,75			1,1			1,5		
960 motor	0,504	0,645	0,833	1,02	1,07	1,21	1,36	1,51	1,66	,187	2,09	2,32	2,55	2,78	3,00
	0,55	0,75	1,1			1,5		2,2				3			
1440 motor	1,70	2,18	2,81	2,45	3,60	4,10	4,60	5,09	5,59	6,32	7,07	7,84	8,60	9,37	10,1
	2,2		3		4		5,5		7,5			11			

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

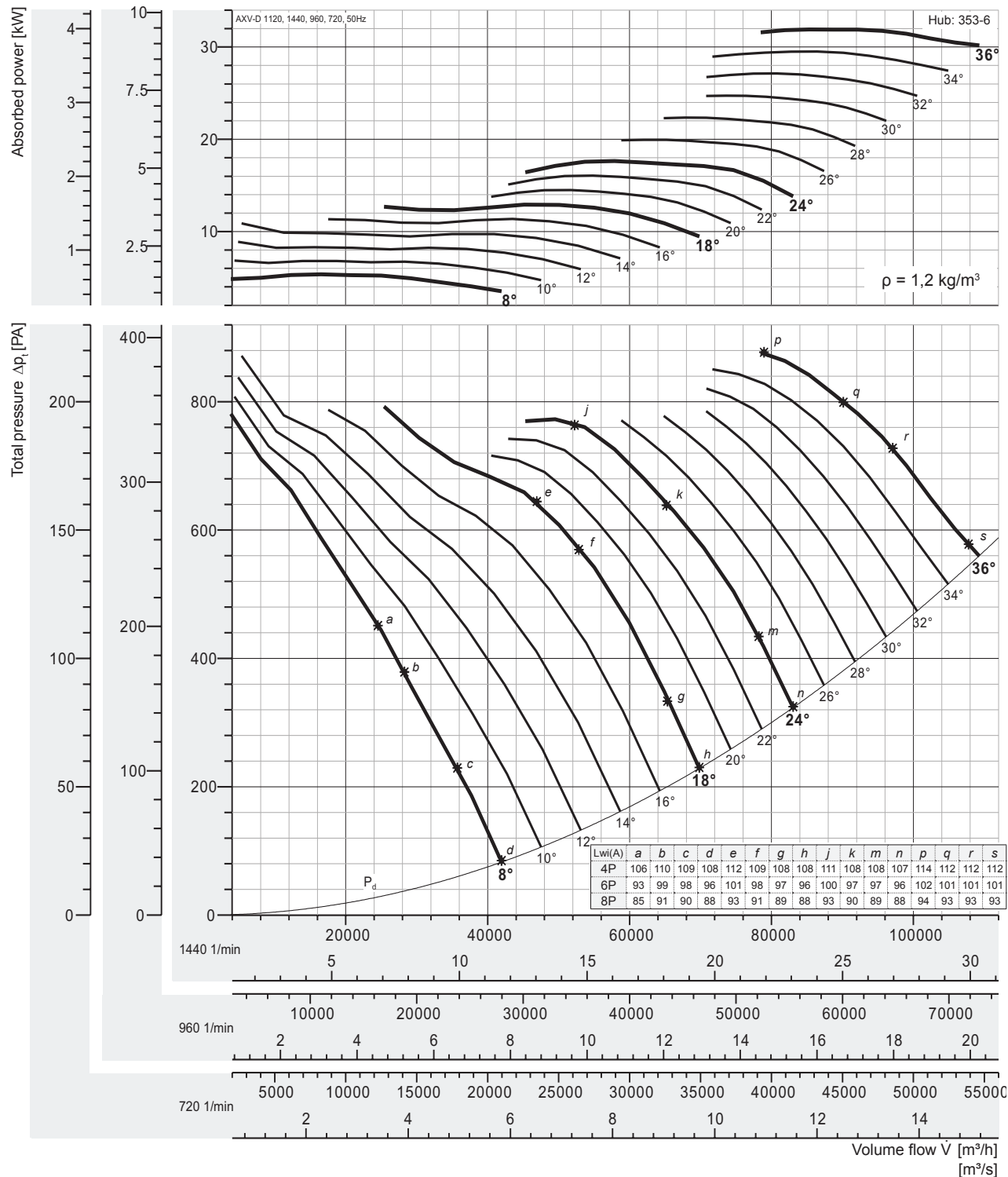


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
720 motor	0,378	0,484	0,625	0,766	0,800	0,911	1,02	1,13	1,24	1,40	1,57	1,74	1,91	2,08	2,25
	0,55		0,75	1,1				1,5			2,2				3
960 motor	0,895	1,15	1,48	1,82	1,90	2,16	2,42	2,68	2,94	3,33	3,72	4,13	4,53	4,93	5,34
	1,1	1,5		2,2			3			4		5,5			
1440 motor	3,02	3,87	5,00	6,13	6,40	7,29	8,17	9,06	9,94	11,2	12,6	13,9	15,3	16,7	18,0
	4		5,5	7,5			11			15		18,5			

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

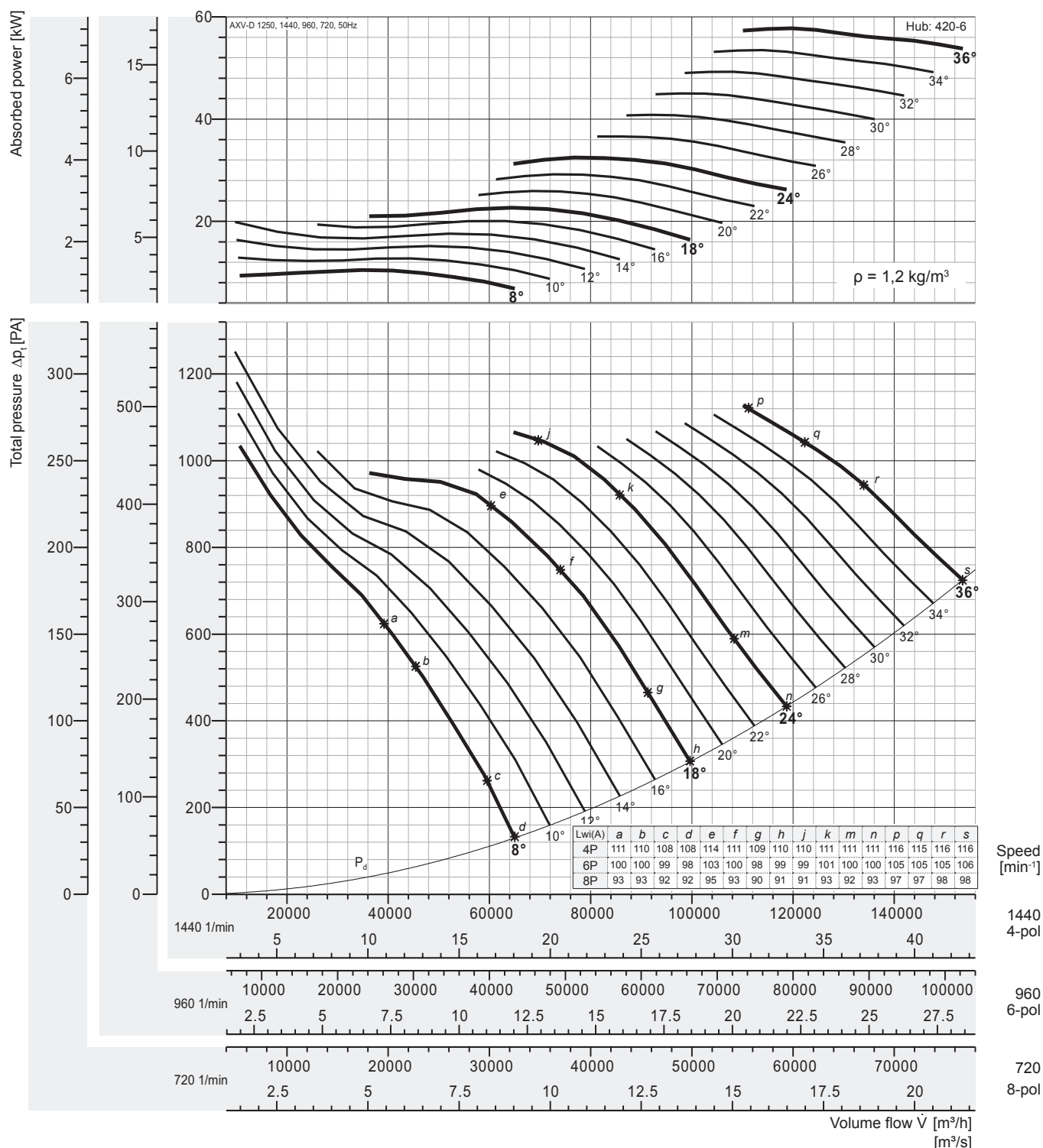


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
720 motor	0,670 0,75	0,858 1,1	1,11 1,5	1,36	1,42 2,2	1,62	1,81	2,01	2,20	2,49 3	2,79	3,09 4	3,39	3,69	4,00
960 motor	1,59 2,2	2,03	2,63 3	3,22 4	3,37	3,83	4,30 5,5	4,76	5,23	5,90 7,5	6,61	7,32 11	8,04	8,76	9,47
1440 motor	5,36 5,5	6,87 7,5	8,87 11	10,9	11,4 15	12,9	14,5	16,1 18,5	17,6	19,9 22	22,3 30	24,7	27,1	29,6	32,0 37

Fan test laboratory AMCA 210/99 Fig. 12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

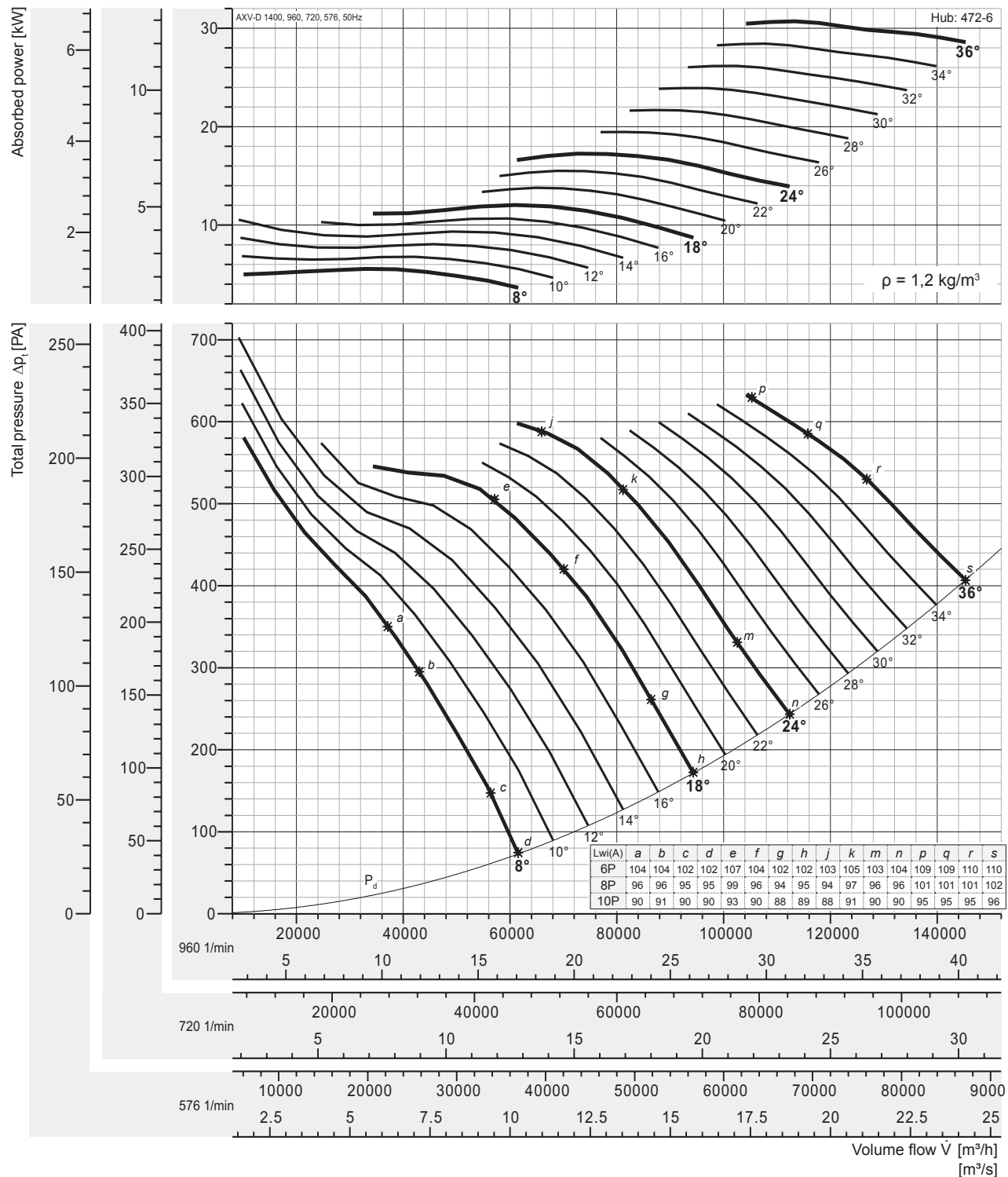


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
720 motor	1,31	1,61	2,04	2,48	2,51	2,83	3,23	3,64	4,06	4,56	5,10	5,62	6,16	6,67	7,22
	1,5	2,2		3			4		5,5			7,5			
960 motor	3,10	3,81	4,85	5,88	5,94	6,71	7,66	8,63	9,61	10,8	12,1	13,3	14,6	15,8	17,1
	4		5,5	7,5			11				15			18,5	
1440 motor	10,5	12,9	16,4	19,9	20,1	22,7	25,9	29,1	32,4	36,5	40,8	44,9	49,3	53,4	57,7
	11	15	18,5	22		30			37		45		55		75

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

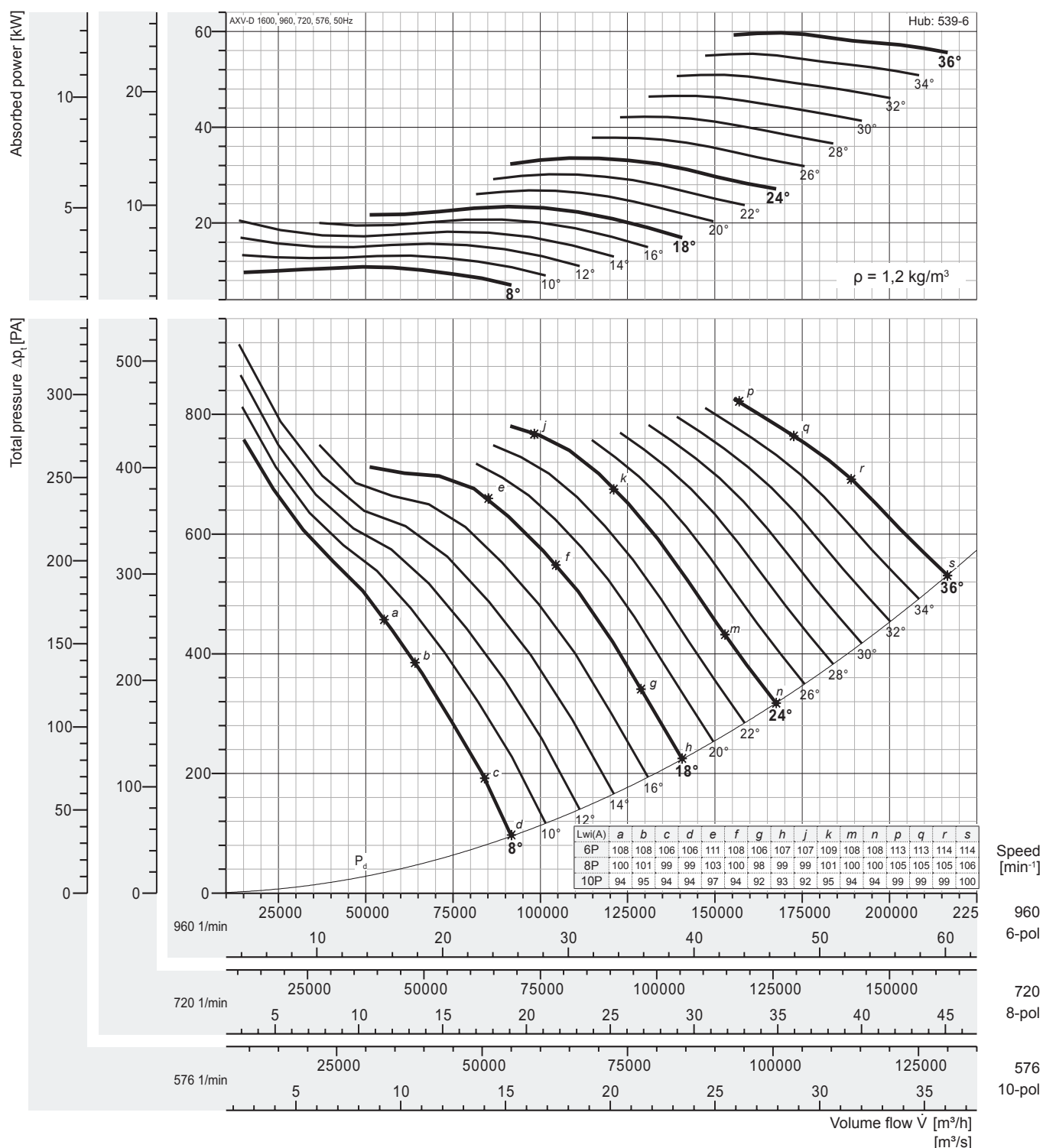


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
576 motor	1,21	1,48	1,88	2,29	2,31	2,61	2,98	3,36	3,74	4,20	4,68	5,18	5,68	6,15	6,65
	2,2			3				4		5,5			7,5		
720 motor	2,35	2,89	3,68	4,47	4,51	5,09	5,82	6,55	7,30	8,20	9,14	10,1	11,0	12,0	13,0
	3		4	5,5			7,5			11				15	
960 motor	5,58	6,86	8,73	10,6	10,7	12,1	13,8	15,5	17,3	19,4	21,7	24,0	26,3	28,5	30,8
	7,5		11			15		18,5		22		30			37

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

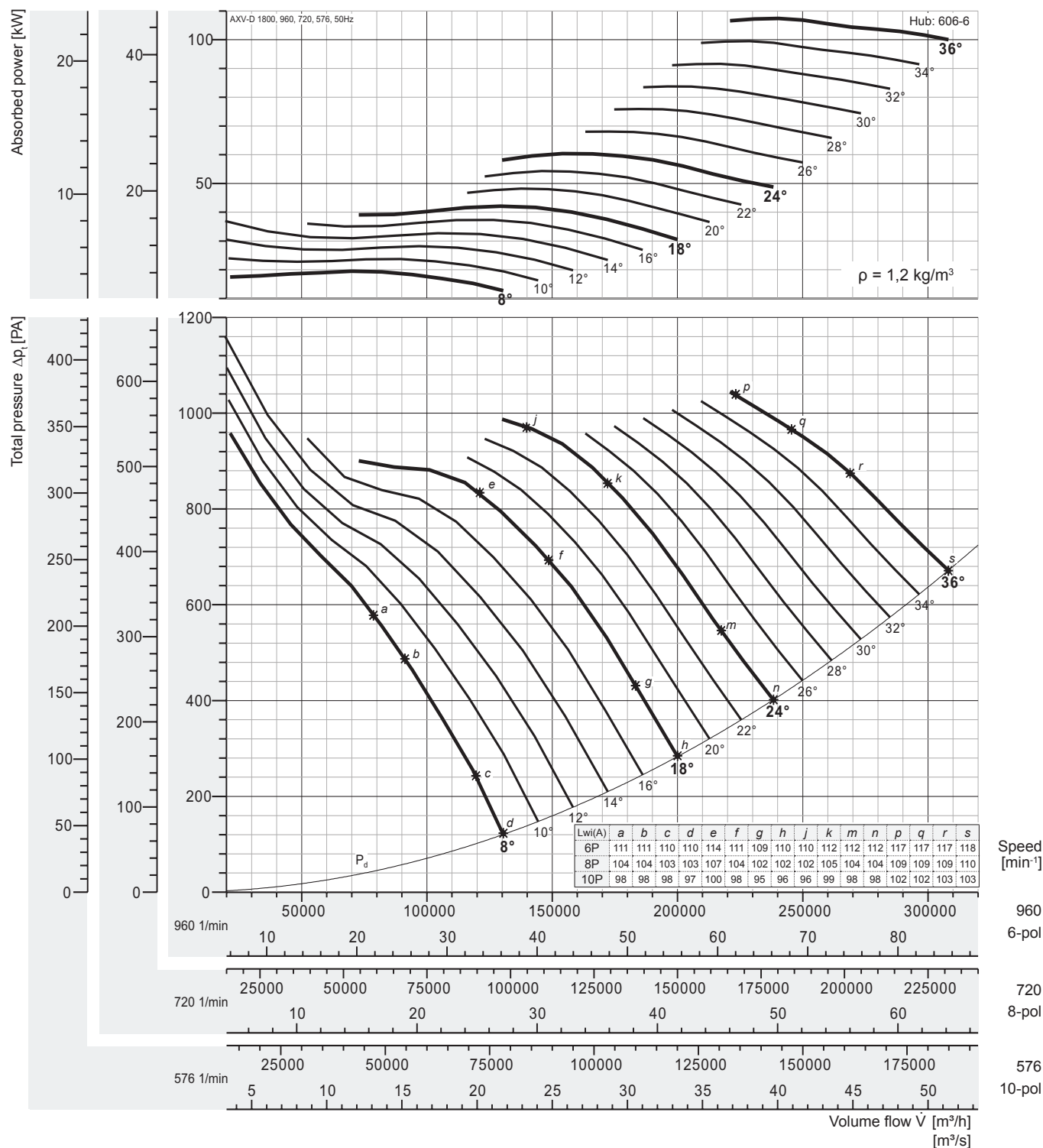


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
576 motor	2,34	2,87	3,65	4,44	4,48	5,06	5,78	6,51	7,25	8,14	9,08	10,0	11,0	11,9	12,9
	3		4	5,5			7,5			11				15	
720 motor	4,57	5,61	7,14	8,66	8,75	9,88	11,3	12,7	14,2	15,9	17,7	19,6	21,5	23,3	25,2
	5,5	7,5		11			15			18,5		22		30	
960 motor	10,8	13,3	16,9	20,5	20,7	23,4	26,7	30,1	33,5	37,7	42,0	46,5	51,0	55,2	59,7
	11	15	18,5	22		30		37		45		55		75	

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

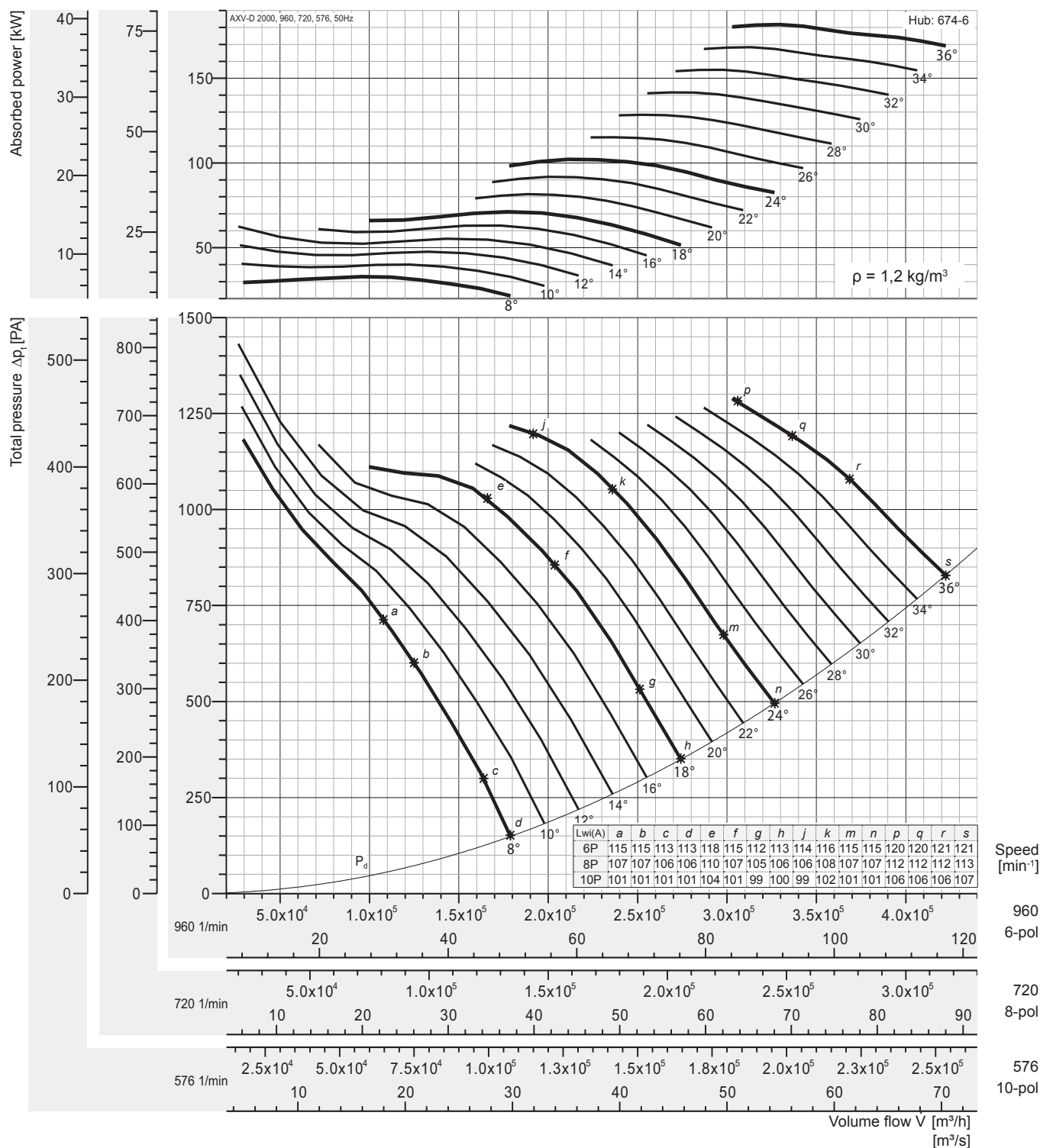


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
576 motor	4,21 5,5	5,17	6,58 7,5	7,98 11	8,06	9,10	10,4	11,7 15	13,0	14,6	16,3 18,5	18,1	19,8 22	21,4	23,2 30
720 motor	8,21 11	10,1	12,8 15	15,6 18,5	15,7	17,8	20,3 22	22,9 30	25,5	28,6	31,9 37	35,3	38,7 45	41,9	45,3 55
960 motor	19,5 22	23,9 30	30,4 37	26,9 45	37,3	42,1	48,1 55	54,2	60,4 75	67,8	75,6 90	83,6	91,7 110	99,3	107,4

Fan test laboratory AMCA 210/99 Fig. 12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

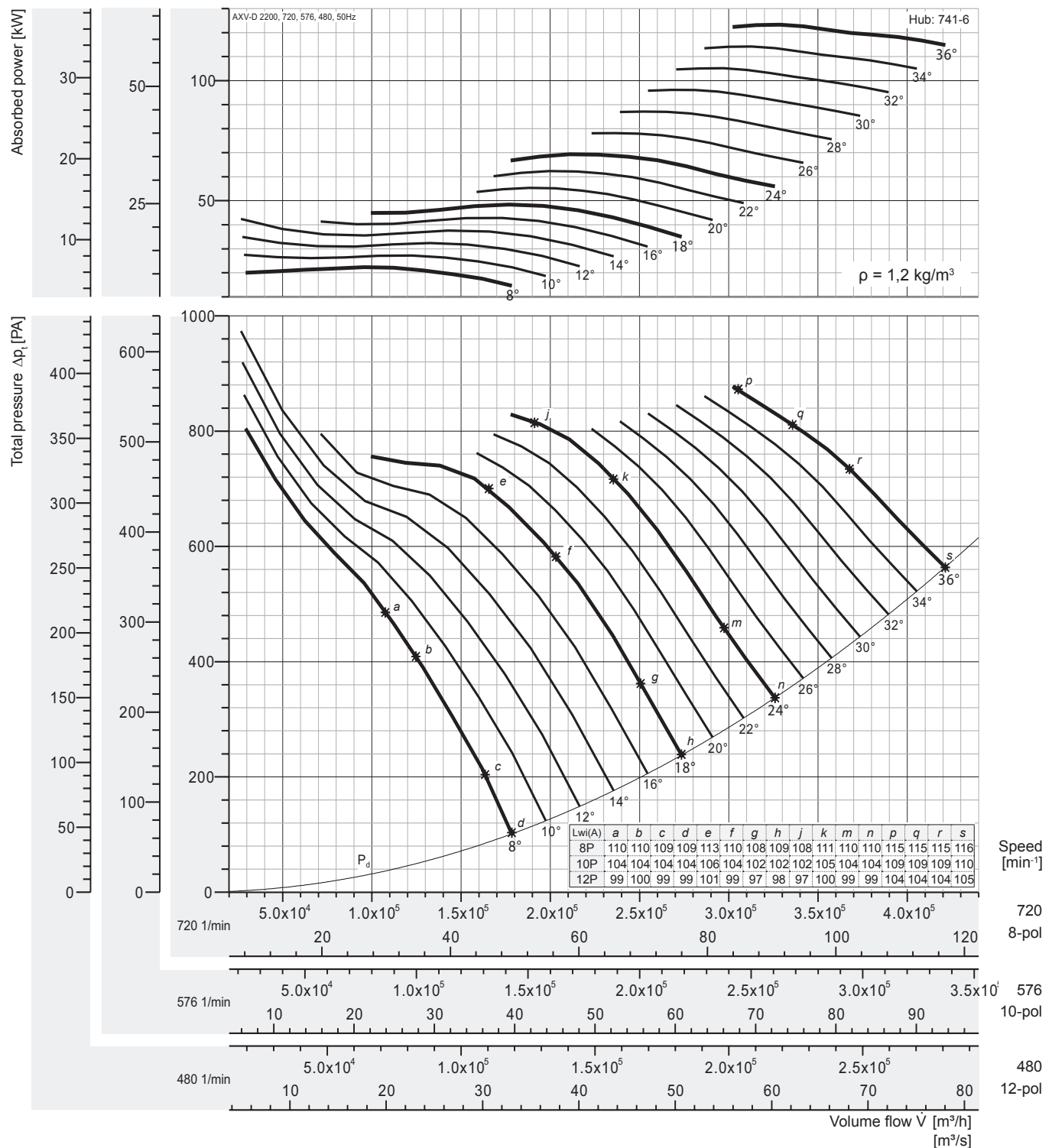


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
576 motor	7,11	8,74	11,1	13,5	13,6	15,4	17,6	19,8	22,0	24,8	27,6	30,6	33,5	36,3	39,2
	7,5	11	15	18,5			22		30		37			45	
720 motor	13,9	17,1	21,7	26,4	26,6	30,0	34,3	38,7	43,1	48,4	53,9	59,7	65,4	70,9	76,6
	15	18,5	22	30	37			45	55		75			90	
960 motor	32,9	40,5	51,5	62,5	63,1	71,3	81,4	91,6	102,1	114,7	127,8	141,5	155,1	167,9	181,7
	37	45	55	75	90			110	132		160			200	

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

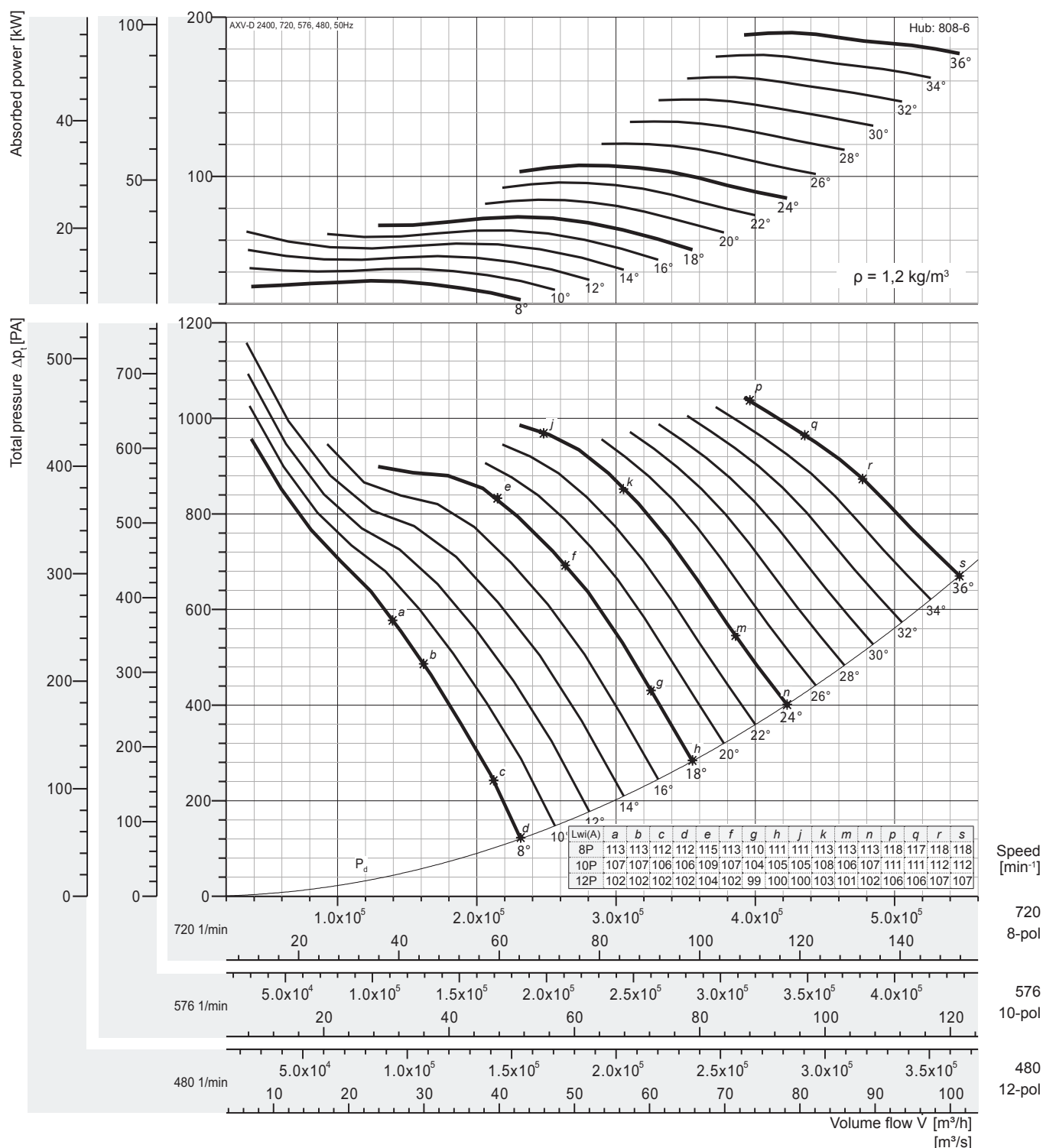


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
480 motor	6,62 7,5	8,14 11	10,3	12,6 15	12,7	14,3	16,4 18,5	18,4	20,5 22	23,1 30	25,7	28,4	31,2 37	33,8	36,5
576 motor	11,4 15	14,1	17,9 18,5	21,7 22	21,9	24,8 30	28,3	31,9 37	35,5	39,9 45	44,4	49,2 55	53,9 75	58,4	63,1
720 motor	22,4 30	27,5	34,9 37	42,4 45	42,8	48,4 55	55,2 75	62,2	69,3	77,9 90	86,8	96,0 110	105,3 132	114,0	123,3

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

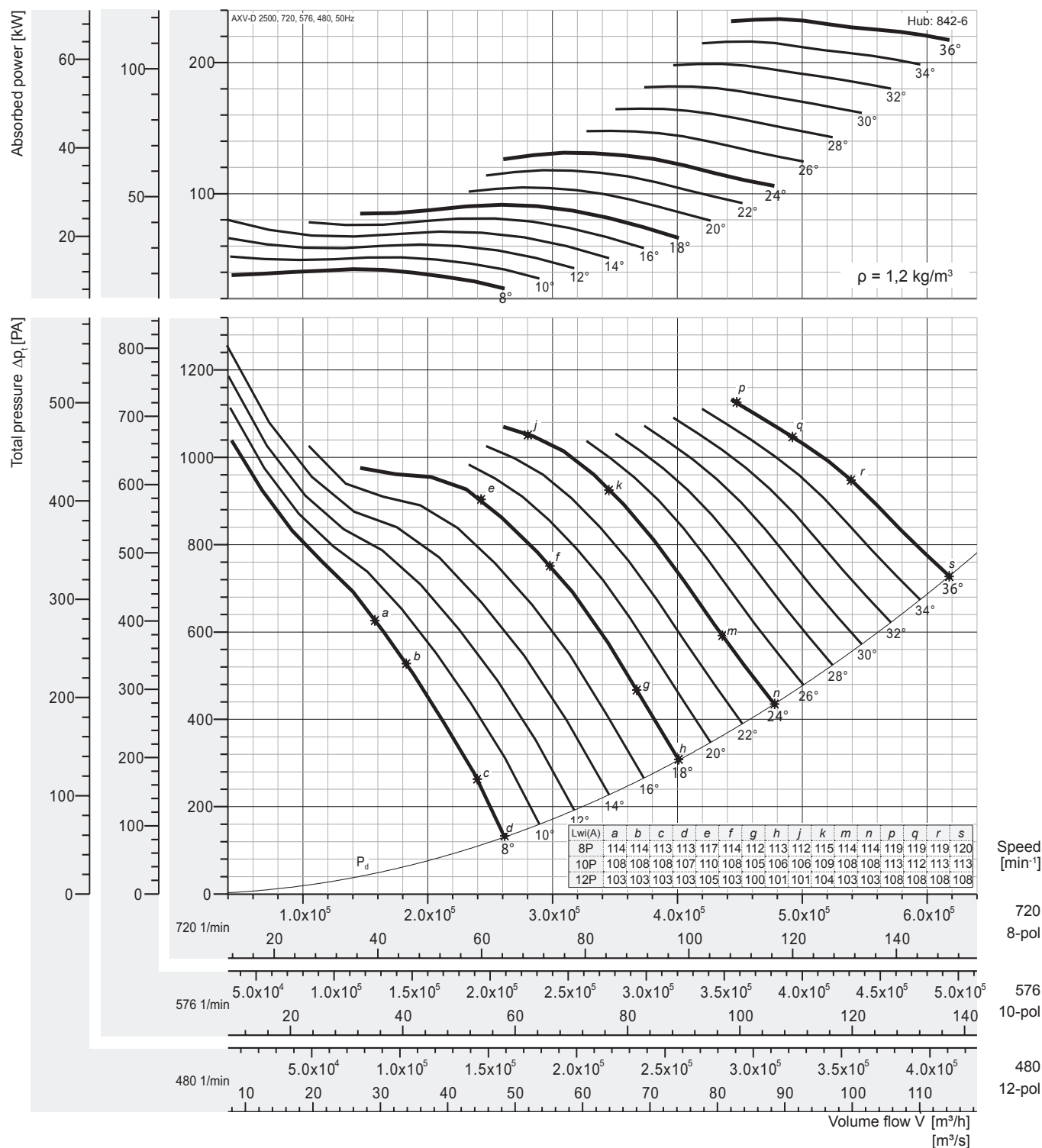


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
480 motor	10,2	12,6	16,0	19,4	19,6	22,1	25,3	28,4	31,7	35,6	39,7	43,9	48,1	52,1	56,4
	11	15	18,5	22		30		37		45		55		75	
576 motor	17,7	21,7	27,6	33,5	33,8	38,2	43,6	49,2	54,7	61,5	68,5	75,9	83,2	90,0	97,4
	18,5	22	30	37		45		55		75		90		110	
720 motor	34,5	42,4	53,9	65,4	66,1	74,6	85,2	96,0	106,9	120,2	133,9	148,2	162,4	175,9	190,3
	37	45	55	75		90	110		132	160		200			

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

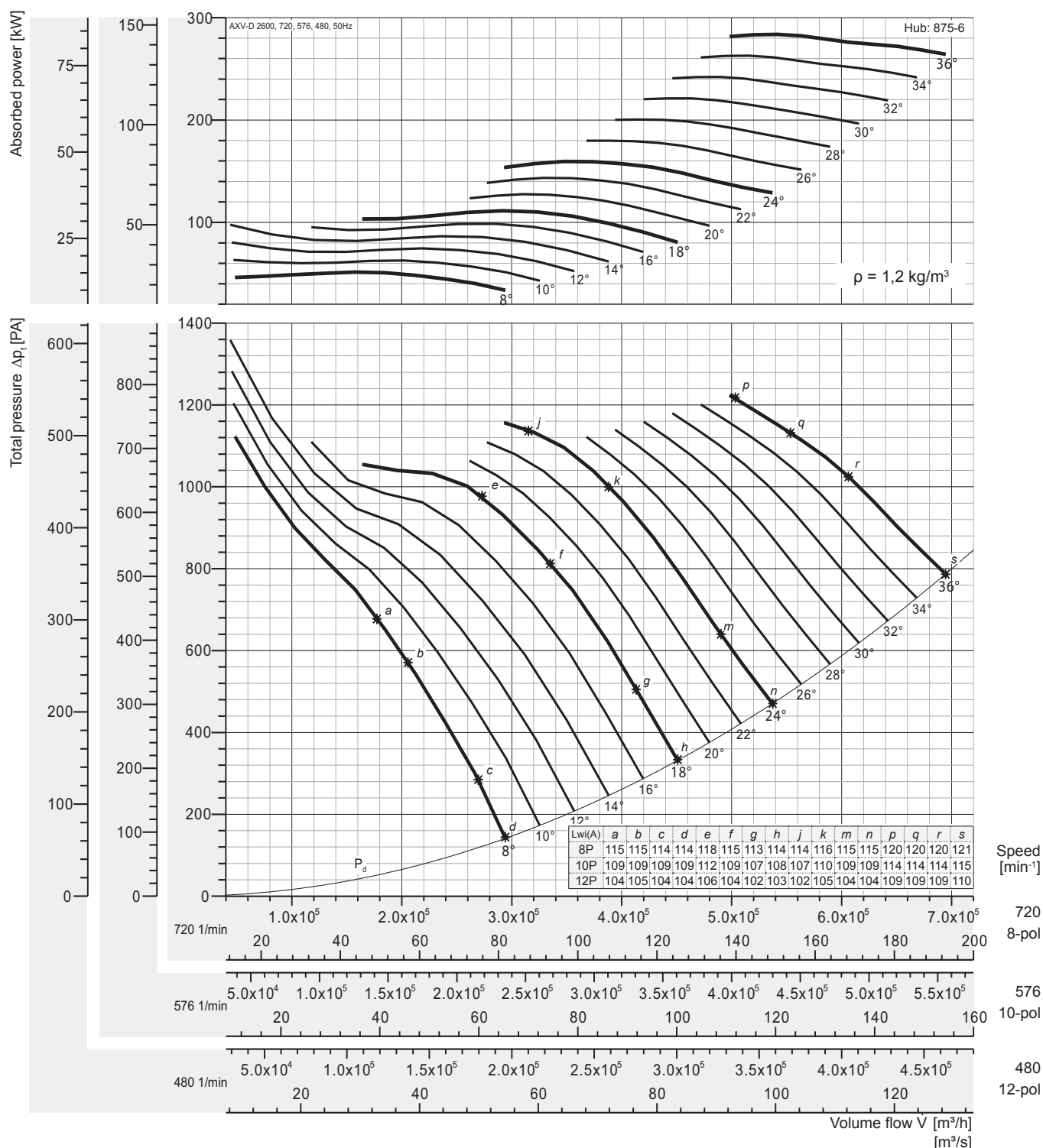


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
480 motor	12,5	15,4	19,6	23,8	24,0	27,1	31,0	34,9	38,8	43,7	48,6	53,8	59,0	63,9	69,1
	15	18,5	22	30			37		45		55		75		
576 motor	21,7	26,6	33,8	41,1	41,5	46,9	53,5	60,3	67,1	75,4	84,0	93,0	102,0	110,4	119,5
	22	30	37	45		55		75		90		110		132	
720 motor	42,3	52,0	66,1	80,2	81,0	91,5	104,5	117,7	131,1	147,3	164,2	181,7	199,2	215,7	233,3
	45	55	75	90		110		132		160	200			250	

Fan test laboratory AMCA 210/99 Fig. 12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

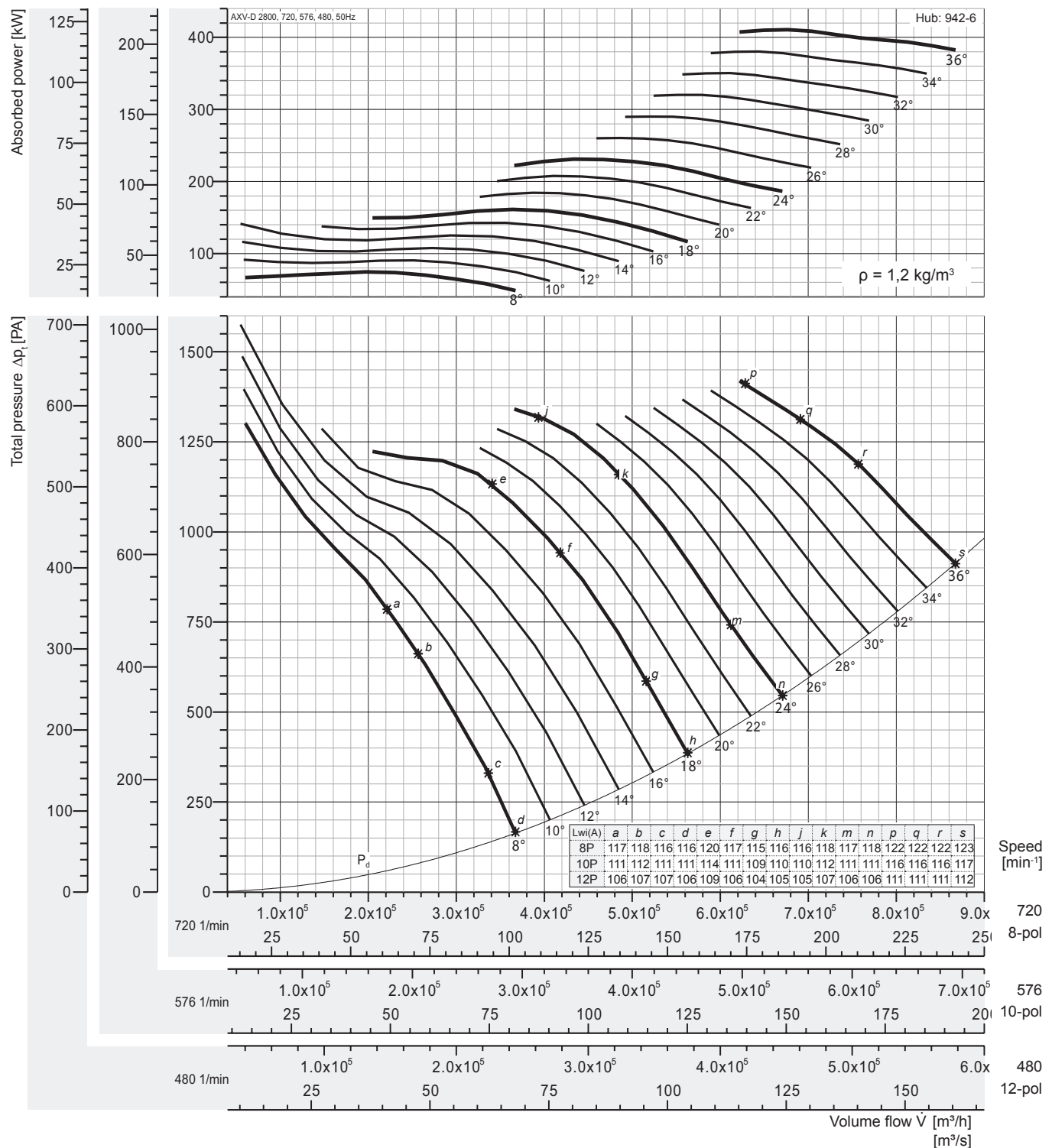


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
480 motor	15,2	18,7	23,8	28,9	29,2	33,0	37,7	42,4	47,2	53,1	59,1	65,5	71,8	77,7	84,1
	18,5	22	30				37	45	55				75	90	
576 motor	26,3	32,4	41,2	50,0	50,4	57,0	65,1	73,3	81,6	91,7	102,2	113,1	124,0	134,3	145,3
	30	37	45	55				75				90	110	132	160
720 motor	51,4	63,2	80,4	97,6	98,5	111,3	127,1	143,1	159,4	179,2	199,6	220,9	242,2	262,3	283,7
	55	75	90	110				132	160		200			250	315

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
480 motor	22,0 22	27,1 30	34,5 37	41,8 45	42,3	47,7 55	54,5	61,4 75	68,4	76,8 90	85,6	94,8 110	103,9	112,5 132	121,7
576 motor	38,1 45	46,9 55	59,6 75	72,3	73,0	82,5 90	94,2 110	106,1 132	118,1	132,8 160	148,0	163,8 200	179,5	194,4	210,3 250
720 motor	74,4 75	91,5 110	116,4 132	141,2 160	142,6	161,1 200	184,0	207,2 250	230,8	259,4 315	289,0	319,8 355	350,6	379,7 400	*410,7 -

Fan test laboratory AMCA 210/99 Fig. 12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

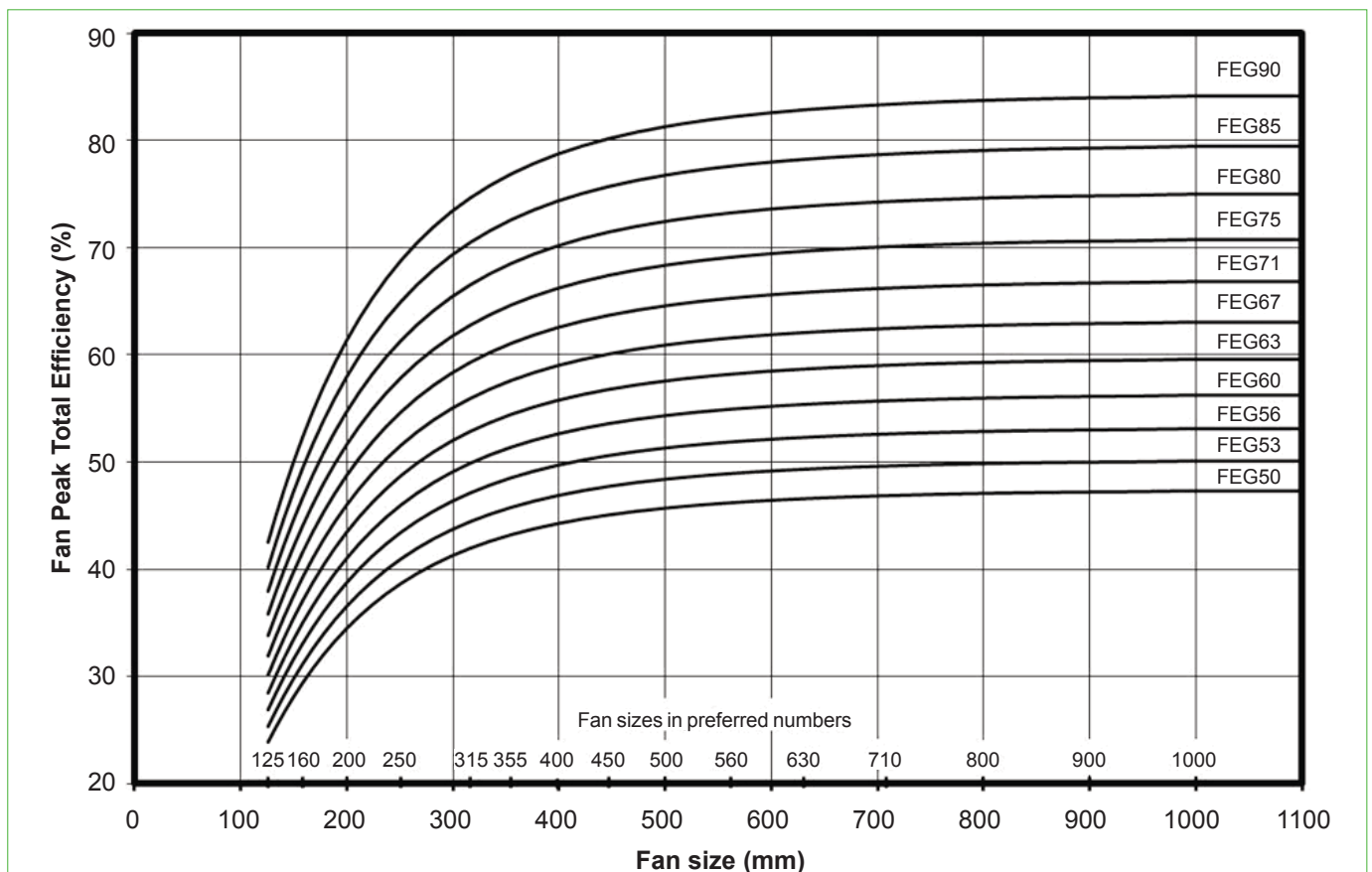
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

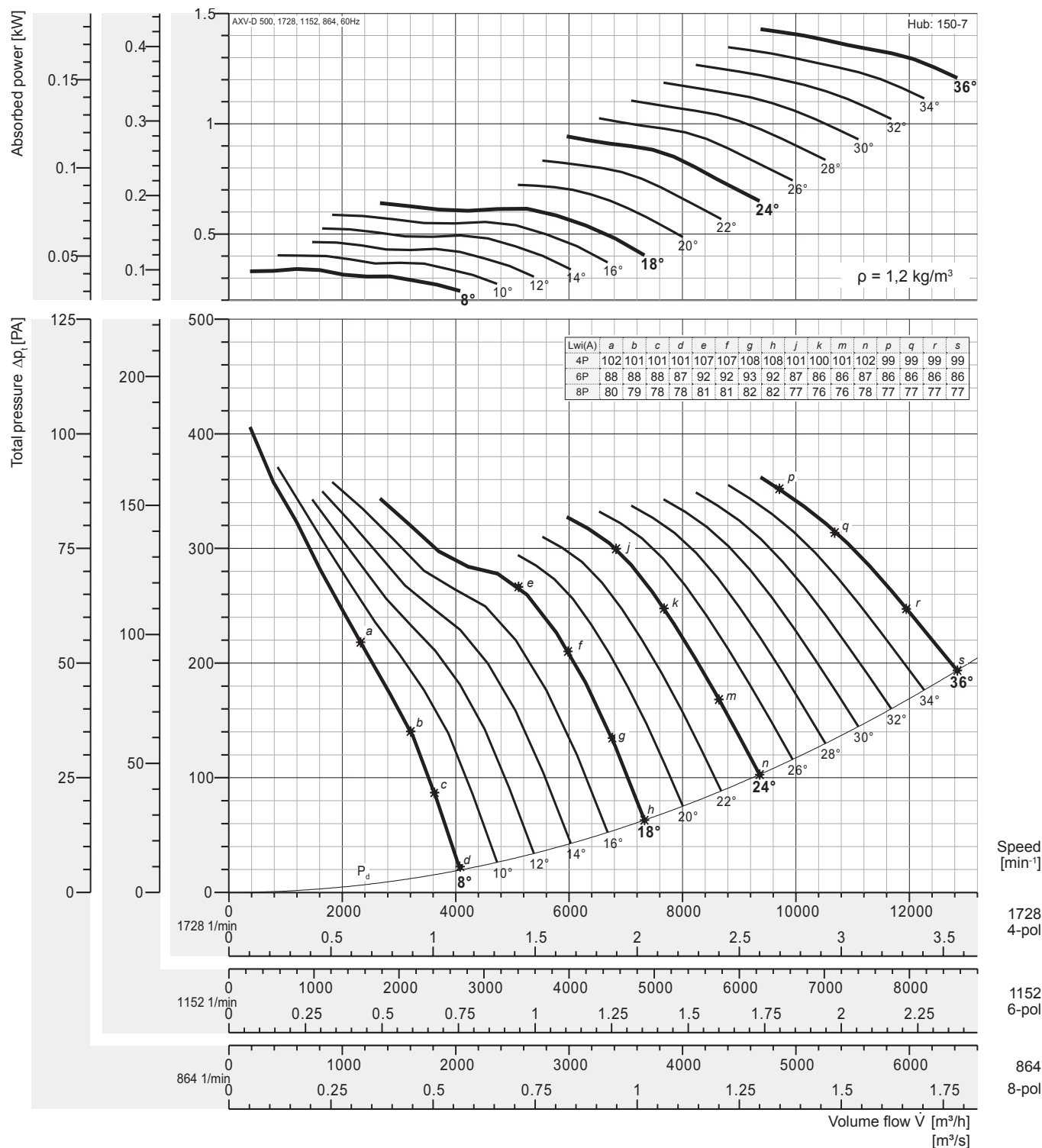


Certified FEGs are determined in accordance with AMCA 205-12 Energy Efficiency Classification for fans. In conjunction with AMCA 211-05 (Rev. 6/12) Certified Ratings Program, Product Rating Manual for Fan Air Performance. This classification is based on fan peak (optimum) total efficiency for a given fan speed, fan size and application category. For the purpose of energy classification, the peak efficiency can be determined at a speed not higher than the maximum design speed of the fan.

The AMCA Certified Ratings Seal applies to the Fan Efficiency Grade (FEG) for AXV series Axial Fan model AXV-D 500 to AXV-D 2800 as shown in the table below.

Fan Model No.	Fan Speed (rpm)	Fan Outlet Area (m ²)	Fan Efficiency Grades	Fan Model No.	Fan Speed (rpm)	Fan Outlet Area (m ²)	Fan Efficiency Grade
AXV-D 500	1728/1152/864	0,1987	FEG71	AXV-D 1400	1152/864/691	1,5504	FEG71
AXV-D 560	1728/1152/864	0,2507	FEG71	AXV-D 1600	1152/864/691	2,0232	FEG71
AXV-D 630	1728/1152/864	0,3157	FEG71	AXV-D 1800	1152/864/691	2,5588	FEG71
AXV-D 710	1728/1152/864	0,3970	FEG71	AXV-D 2000	1152/864/691	3,1573	FEG71
AXV-D 800	1728/1152/864	0,4989	FEG71	AXV-D 2200	864/691/576	3,8186	FEG71
AXV-D 900	1728/1152/864	0,6277	FEG71	AXV-D 2400	864/691/576	4,5428	FEG71
AXV-D 1000	1728/1152/864	0,7901	FEG71	AXV-D 2500	864/691/576	4,9284	FEG71
AXV-D 1120	1728/1152/864	0,9940	FEG71	AXV-D 2600	864/691/576	5,3297	FEG71
AXV-D 1250	1728/1152/864	1,2272	FEG71	AXV-D 2800	864/691/576	6,1795	FEG71



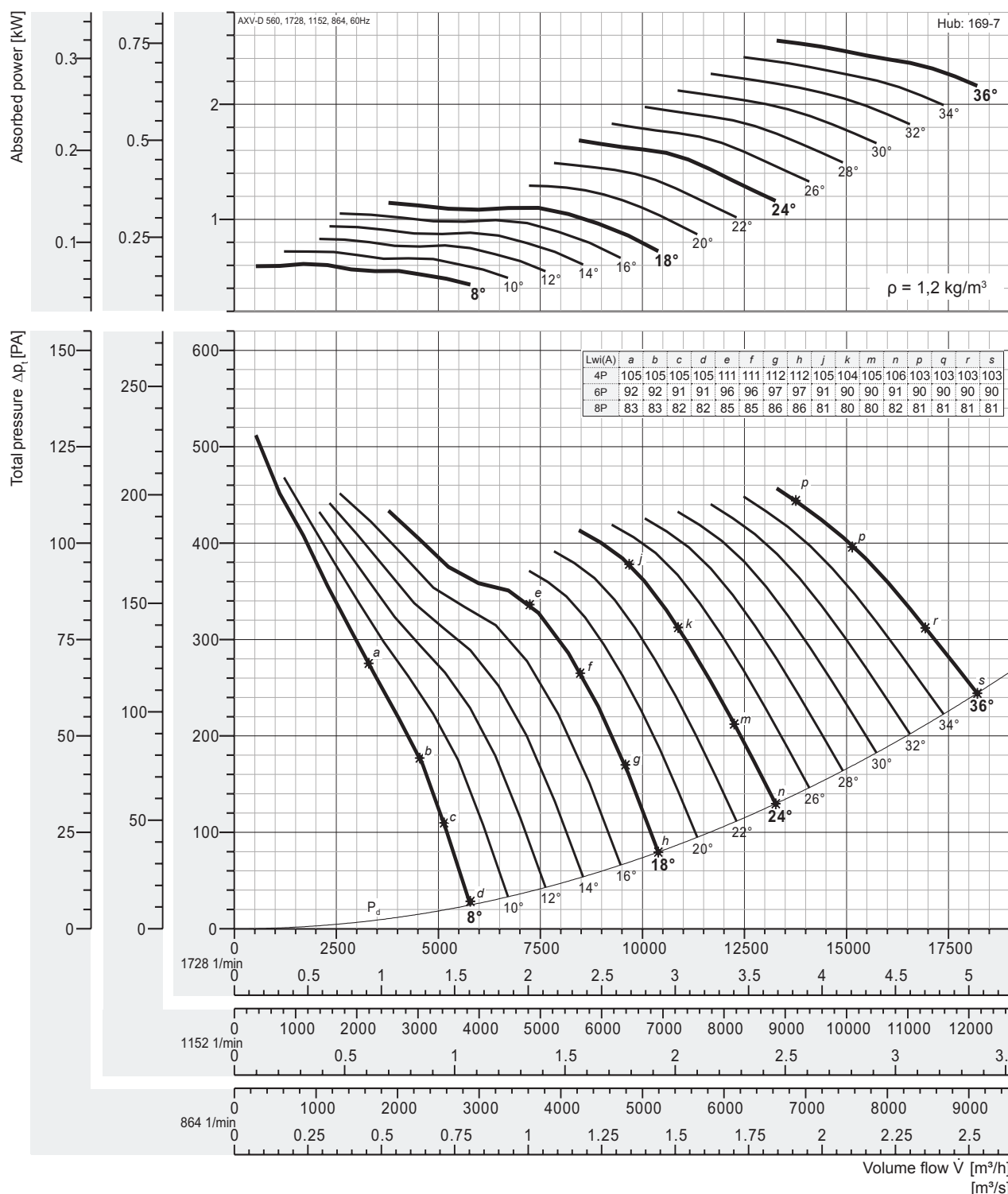


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
864 motor	0,043	0,050	0,058	0,066	0,073	0,080	0,090	0,104	0,118	0,128	0,138	0,148	0,158	0,168	0,179
	0,37														
1152 motor	0,101	0,120	0,137	0,156	0,174	0,190	0,214	0,247	0,280	0,304	0,327	0,351	0,375	0,399	0,423
	0,37												0,55		
1728 motor	0,341	0,403	0,464	0,526	0,588	0,640	0,723	0,833	0,944	1,02	1,10	1,19	1,27	1,35	1,43
	0,37	0,55			0,75			1,1				1,5			

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

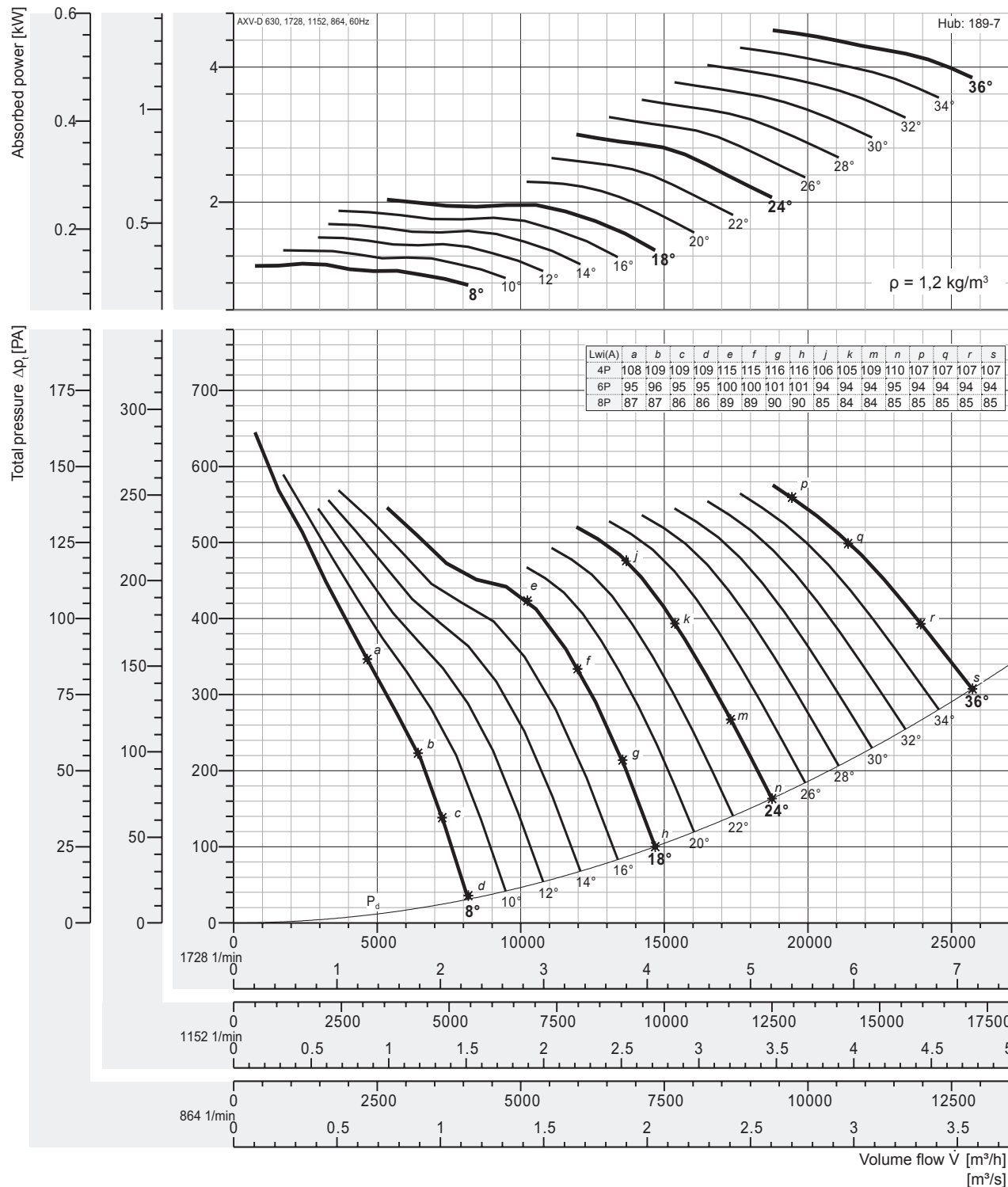


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
864 motor	0,076 0,37	0,090	0,104	0,118	0,131	0,143	0,162	0,186	0,211	0,229	0,247	0,265	0,283	0,301	0,319
1152 motor	0,181 0,37	0,214	0,246	0,279	0,311	0,339	0,383 0,55	0,441	0,500	0,543	0,586 0,75	0,628	0,671	0,714	0,757 1,1
1728 motor	0,610 0,75	0,721 1,1	0,829	0,940	1,05	1,14 1,5	1,29	1,49	1,69 2,2	1,83	1,98	2,12	2,26	2,41	2,55 3

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

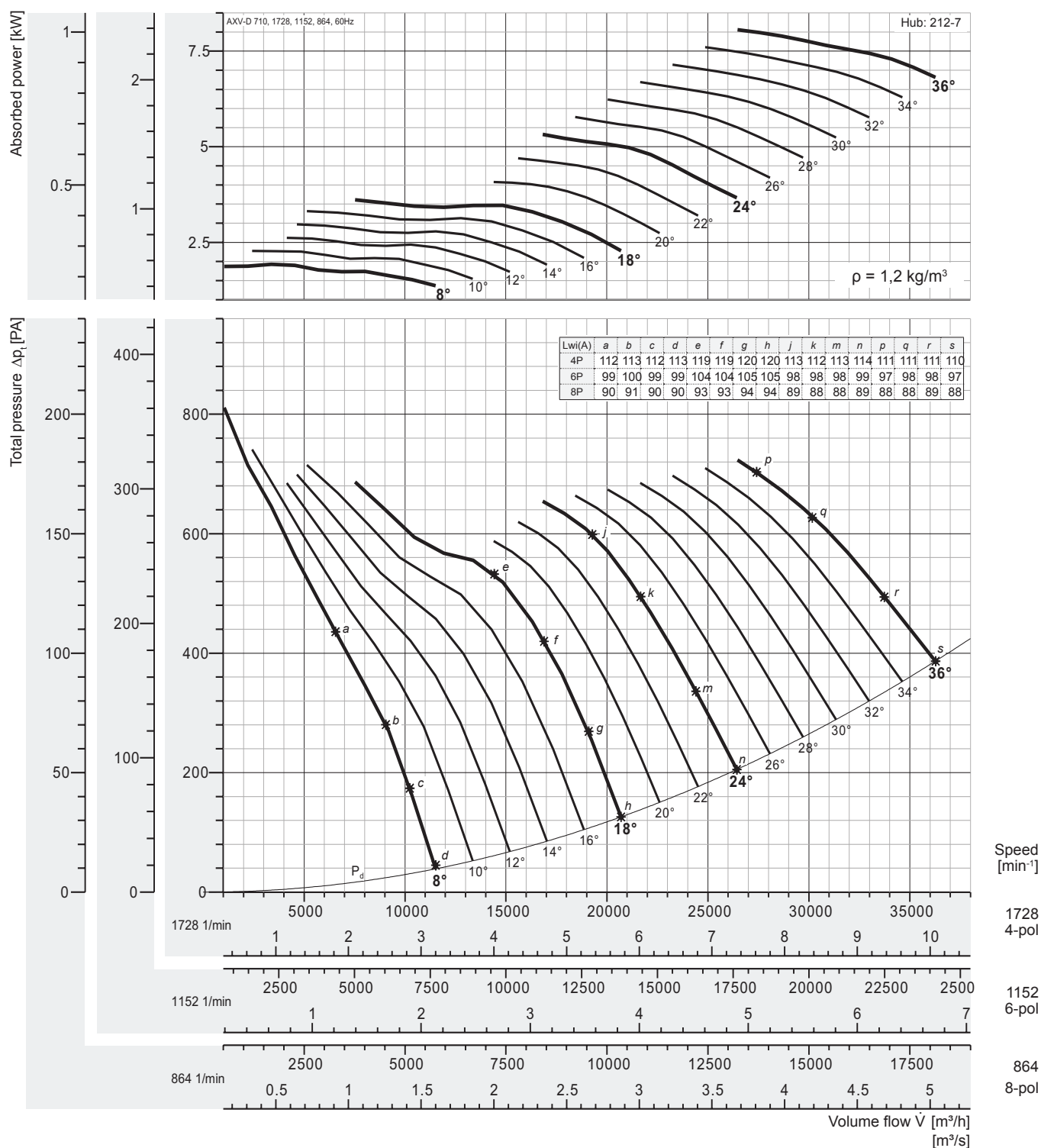


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
864 motor	0,136	0,160	0,185	0,209	0,234	0,255	0,288	0,331	0,375	0,407	0,440	0,472	0,504	0,536	0,568
	0,37								0,55						0,75
1152 motor	0,322	0,380	0,437	0,496	0,554	0,603	0,682	0,786	0,890	0,966	1,04	1,12	1,19	1,27	1,35
	0,37	0,55		0,75				1,1				1,5			
1728 motor	1,09	1,28	1,48	1,67	1,87	2,04	2,30	2,65	3,00	3,26	3,52	3,77	4,03	4,29	4,55
	1,1	1,5	2,2				3			4			5,5		

Fan test laboratory AMCA 210/99 Fig. 12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

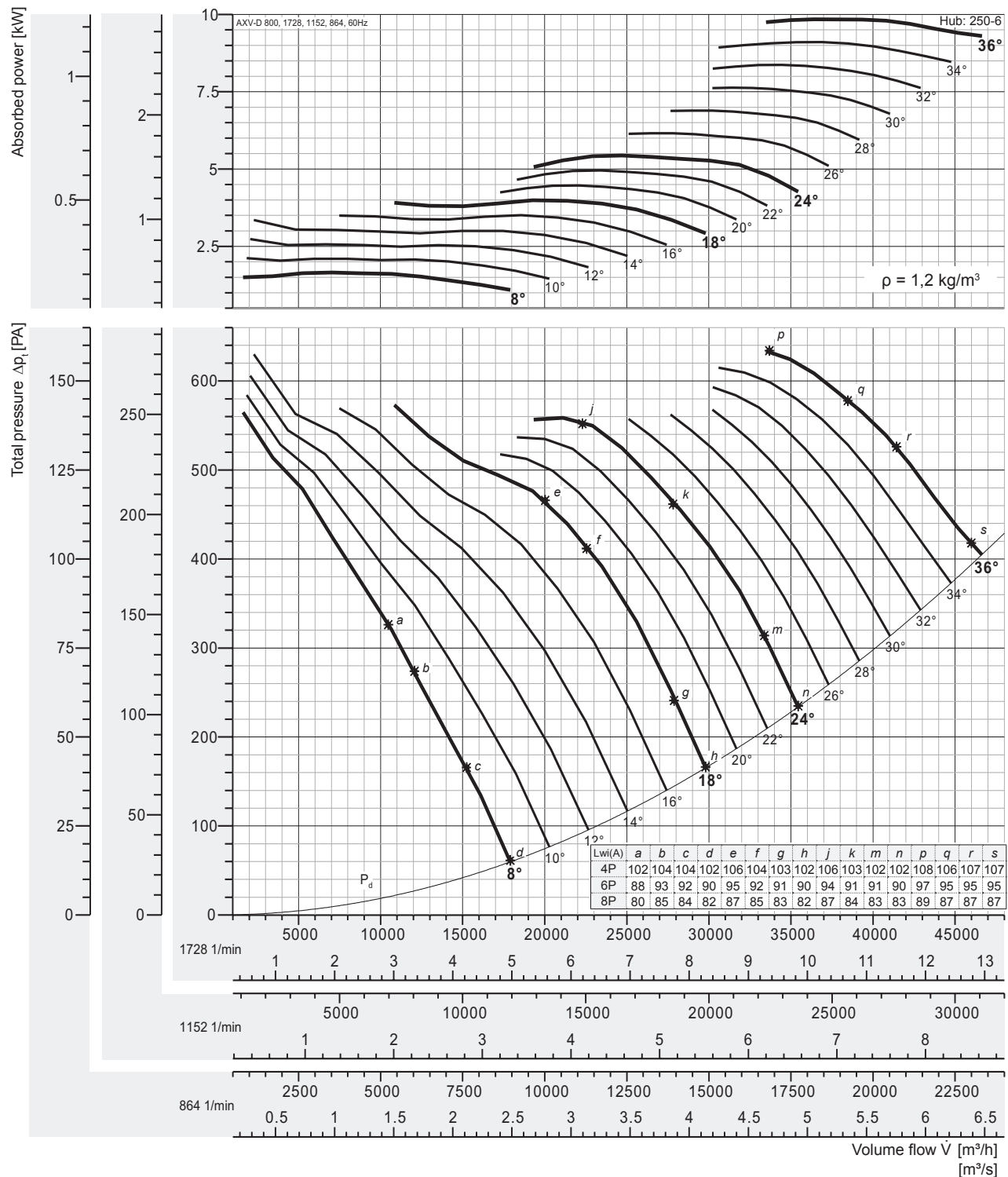


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
864 motor	0,241 0,37	0,284	0,327	0,370 0,55	0,414	0,451	0,510	0,588 0,75	0,665	0,722	0,779 1,1	0,836	0,893	0,950	1,01
1152 motor	0,570 0,75	0,674	0,775 1,1	0,879	0,982	1,07	1,21 1,5	1,39	1,58	1,71 2,2	1,85	1,98	2,12	2,25 3	2,39
1728 motor	1,92 2,2	2,28 3	2,62	2,97 4	3,31	3,61	4,08	4,70 5,5	5,323	5,78	6,23 7,5	6,69	7,15	7,60 11	8,06

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

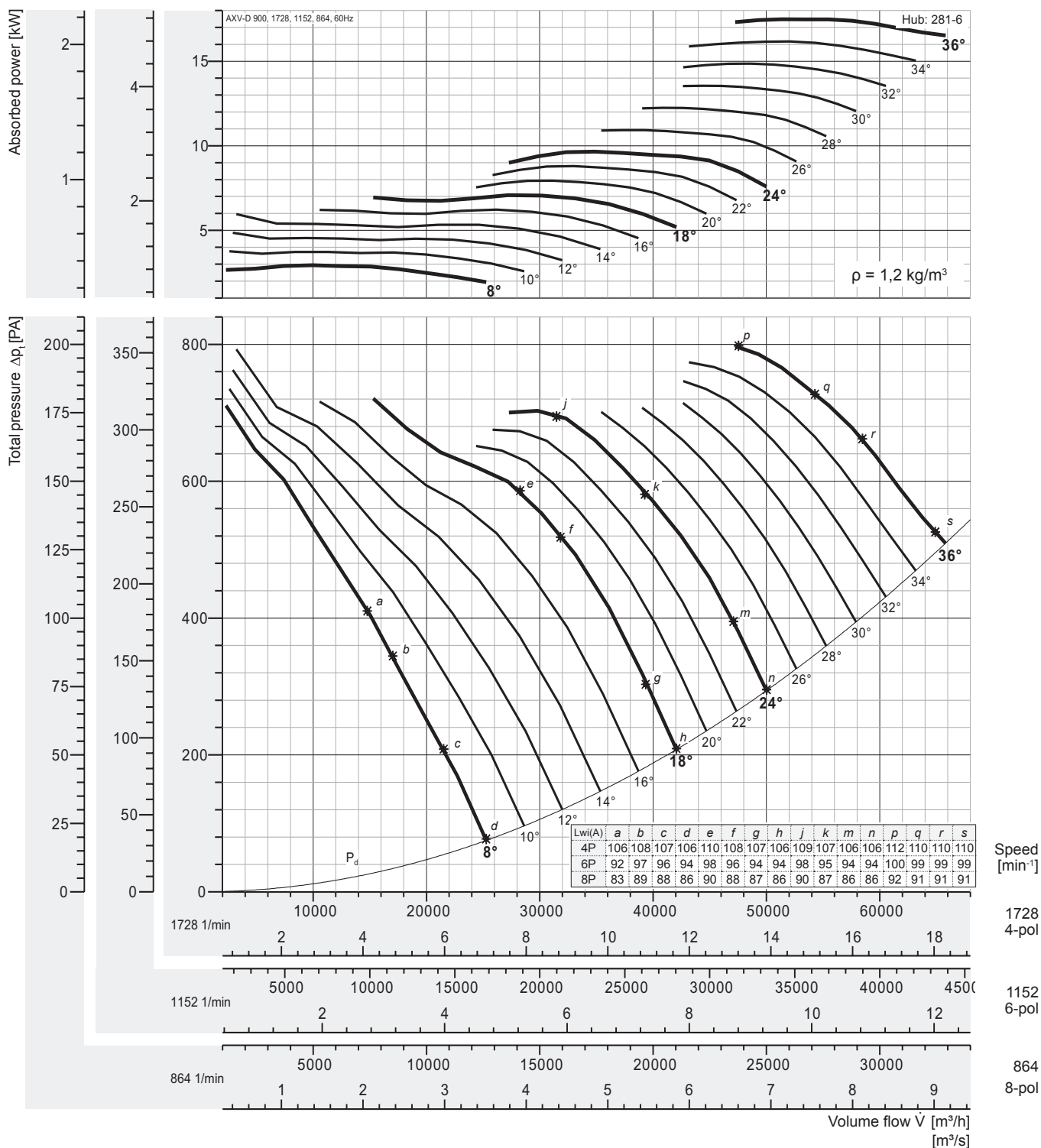


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
864 motor	0,207	0,265	0,342	0,419	0,438	0,499	0,559	0,620	0,680	0,768	0,860	0,953	1,05	1,14	1,23
1152 motor	0,490	0,627	0,811	0,994	1,04	1,18	1,32	1,47	1,61	1,82	2,04	2,26	2,48	2,70	2,92
1728 motor	1,65	2,12	2,74	3,35	3,50	3,99	4,47	4,96	5,44	6,15	6,88	7,63	8,37	9,12	9,86

Fan test laboratory AMCA 210/99 Fig. 12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

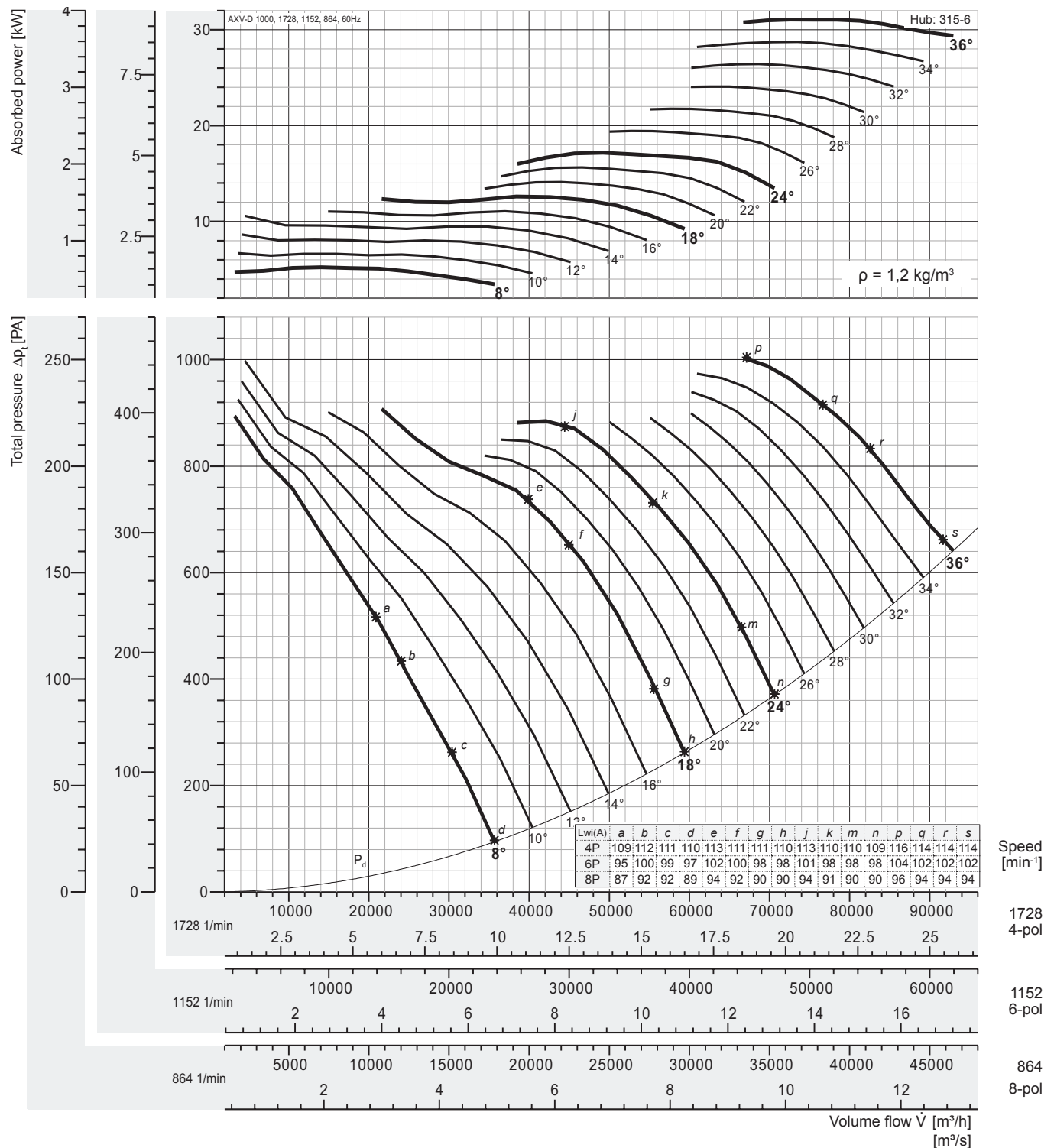


Peak absorbed power [kW]

n	Pitch angle [°]														
[min ⁻¹]	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
864	0,367	0,470	0,607	0,745	0,778	0,885	0,993	1,10	1,21	1,36	1,53	1,69	1,86	2,02	2,19
motor	0,37	0,55	0,75		1,1				1,5			2,2			
1152	0,870	1,11	1,44	1,76	1,84	2,10	2,35	2,61	2,86	3,23	3,62	4,01	4,40	4,80	5,19
motor	1,1	1,5		2,2			3			4		5,5			
1728	2,94	3,76	4,86	5,96	6,22	7,08	7,94	8,80	9,66	10,9	12,2	13,5	14,9	16,2	17,5
motor	3	4	5,5	7,5			11				15			18,5	

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

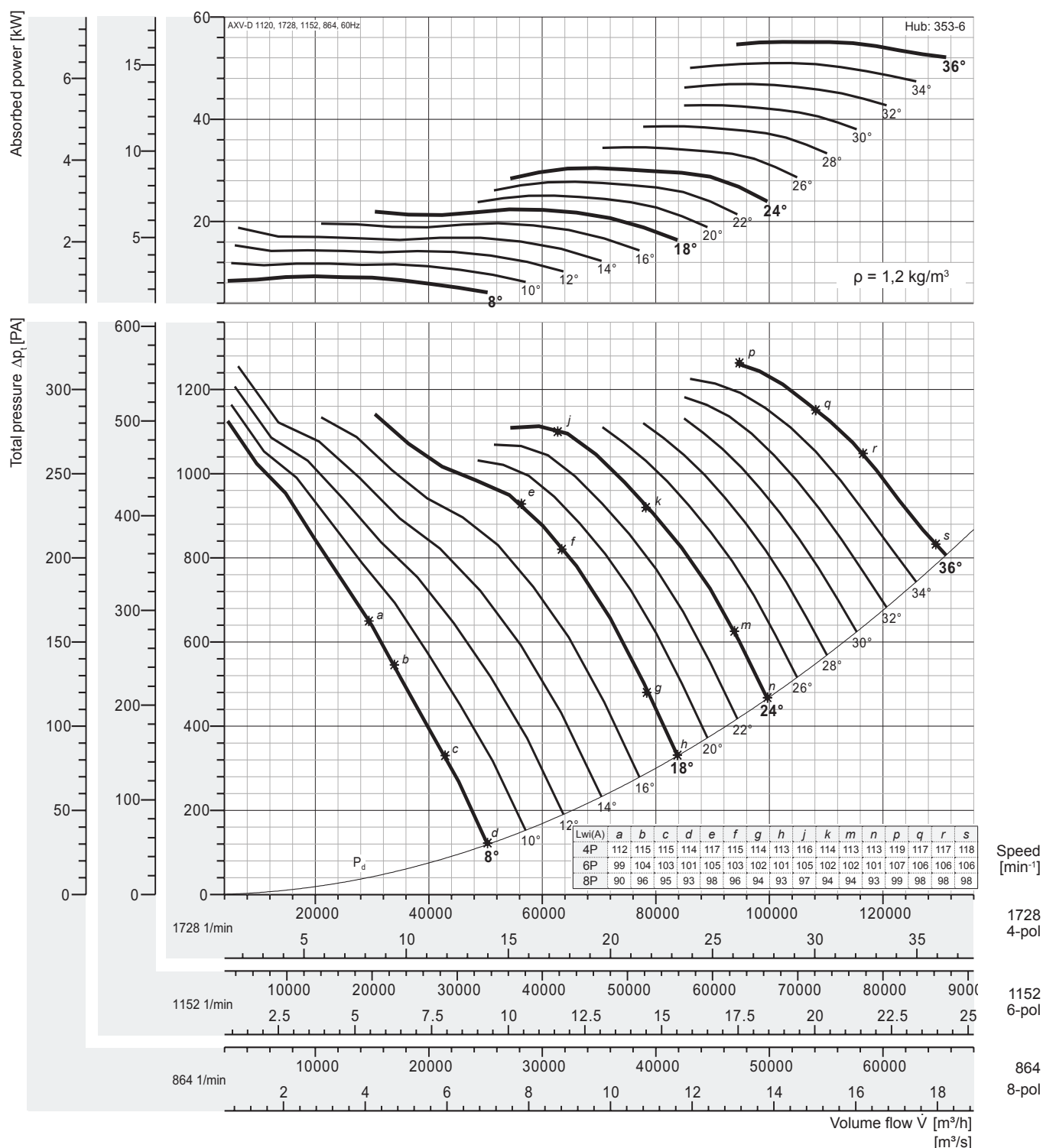


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
864 motor	0,653	0,836	1,08	1,32	1,38	1,57	1,76	1,96	2,15	2,42	2,71	3,00	3,30	3,60	3,89
	0,75	1,1		1,5		2,2				3			4		
1152 motor	1,55	1,98	2,56	3,14	3,28	3,73	4,18	4,64	5,09	5,75	6,43	7,13	7,83	8,53	9,22
			3	4			5,5			7,5			11		
1728 motor	5,22	6,68	8,64	10,6	11,1	12,6	14,1	15,6	17,2	19,4	21,7	24,1	26,4	28,8	31,1
		5,5	7,5	11		15		18,5		22		30			37

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

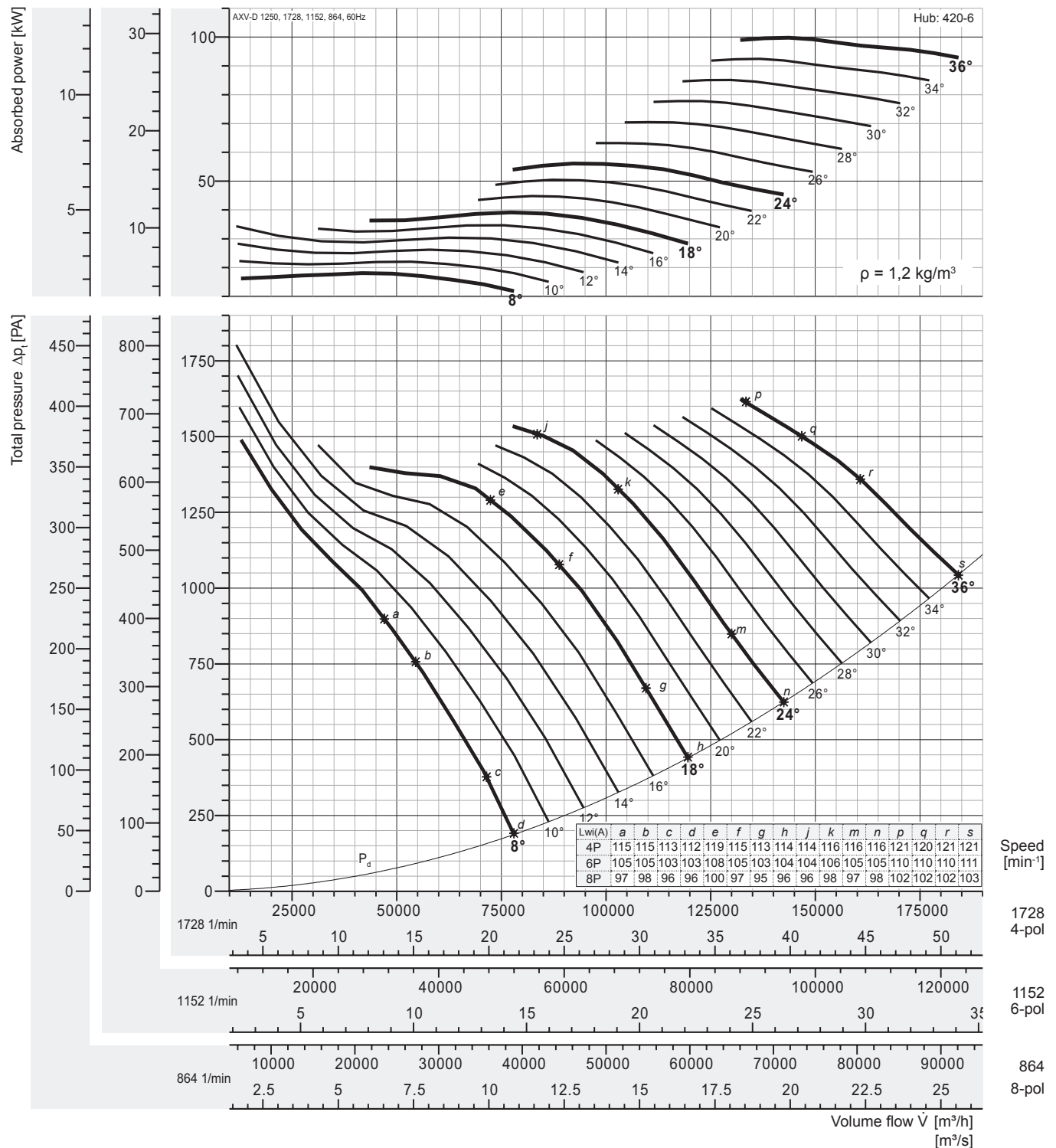


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
864 motor	1,16	1,48	1,92	2,35	2,45	2,79	3,13	3,47	3,81	4,30	4,82	5,34	5,86	6,38	6,91
	1,5		2,2	3			4			5,5			7,5		
1152 motor	2,75	3,52	4,54	5,57	5,82	6,62	7,43	8,23	9,03	10,2	11,4	12,7	13,9	15,1	16,4
	3	4	5,5	7,5				11			15			18,5	
1728 motor	9,27	11,9	15,3	18,8	19,6	22,4	25,1	27,8	30,5	34,4	38,5	42,7	46,9	51,1	55,3
	11	15	18,5	22		30			37		45		55		

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

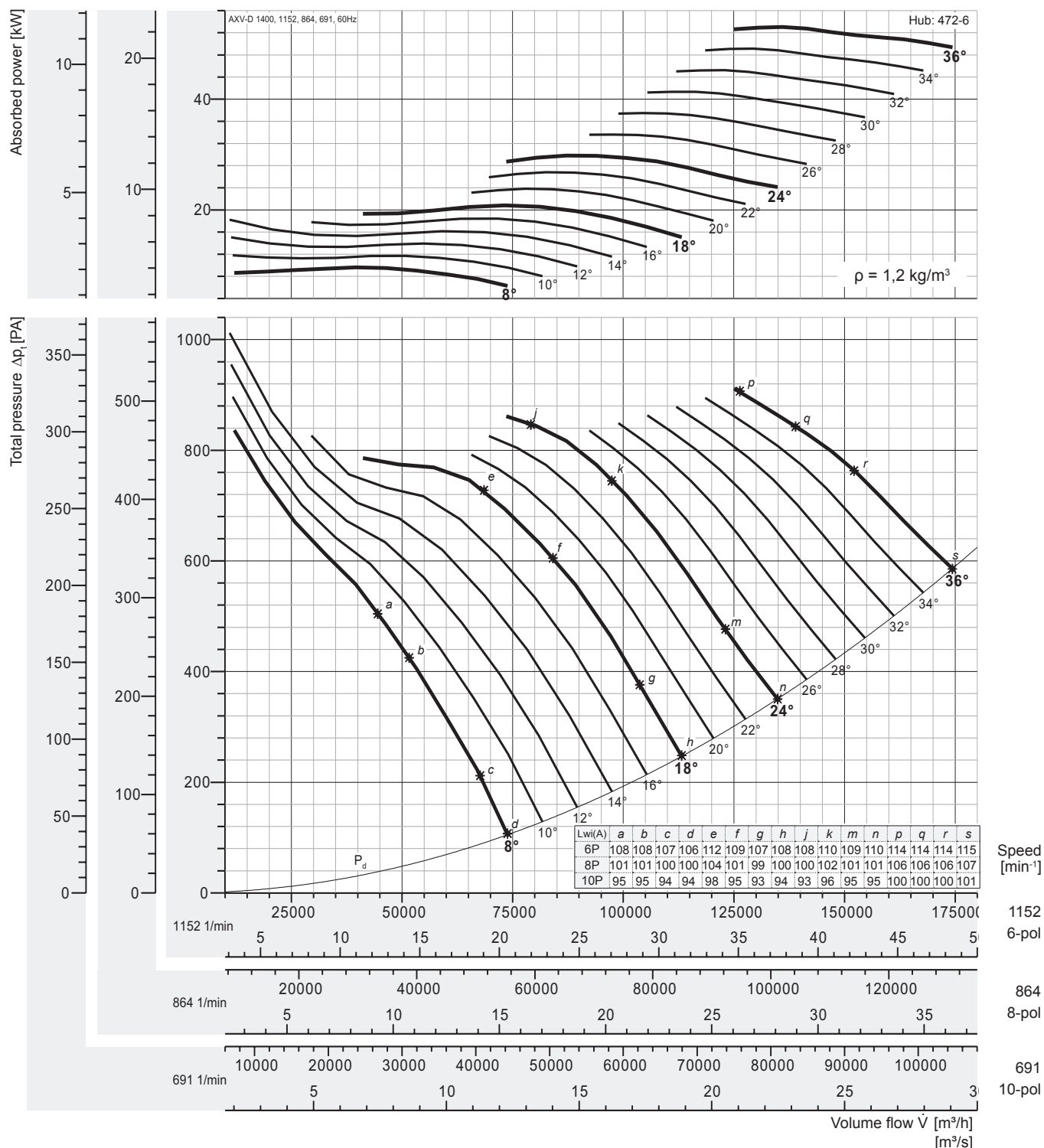


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
864 motor	2,26	2,78	3,53	4,29	4,33	4,89	5,59	6,29	7,01	7,88	8,78	9,71	10,6	11,5	12,5
	3		4	5,5			7,5			11				15	
1152 motor	5,36	6,59	8,38	10,2	10,3	11,6	13,2	14,9	16,6	18,7	20,8	23,0	25,2	27,3	29,6
	5,5	7,5	11			15			18,5	22		30			
1728 motor	18,1	22,2	28,3	34,3	34,7	39,1	44,7	50,3	56,1	63,0	70,2	77,7	85,2	92,2	99,8
	18,5	30		37		45		55	75			90		110	

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

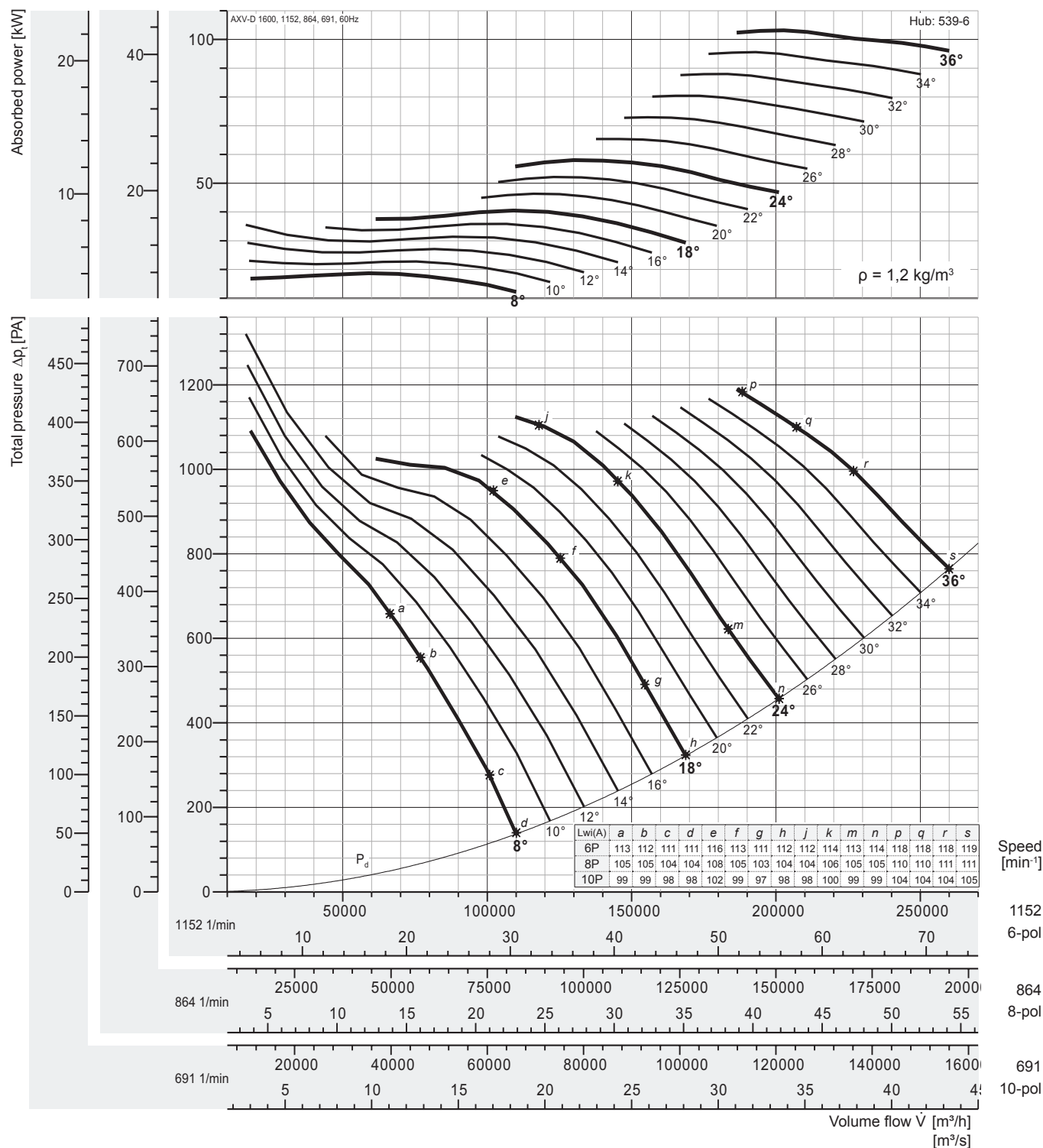


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
691 motor	2,08	2,56	3,26	3,95	3,99	4,51	5,15	5,80	6,46	7,26	8,09	8,95	9,81	10,6	11,5
	2,2	3	4	5,5			7,5			11			15		
864 motor	4,07	5,00	6,36	7,72	7,79	8,80	10,1	11,3	12,6	14,2	15,8	17,5	19,2	20,7	22,4
	5,5		7,5	11				15			18,5		22		30
1152 motor	9,64	11,8	15,1	18,3	18,5	20,9	23,8	26,8	29,9	33,6	37,4	41,4	45,4	49,2	53,2
	11	15	18,5			22	30			37	45		55		

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

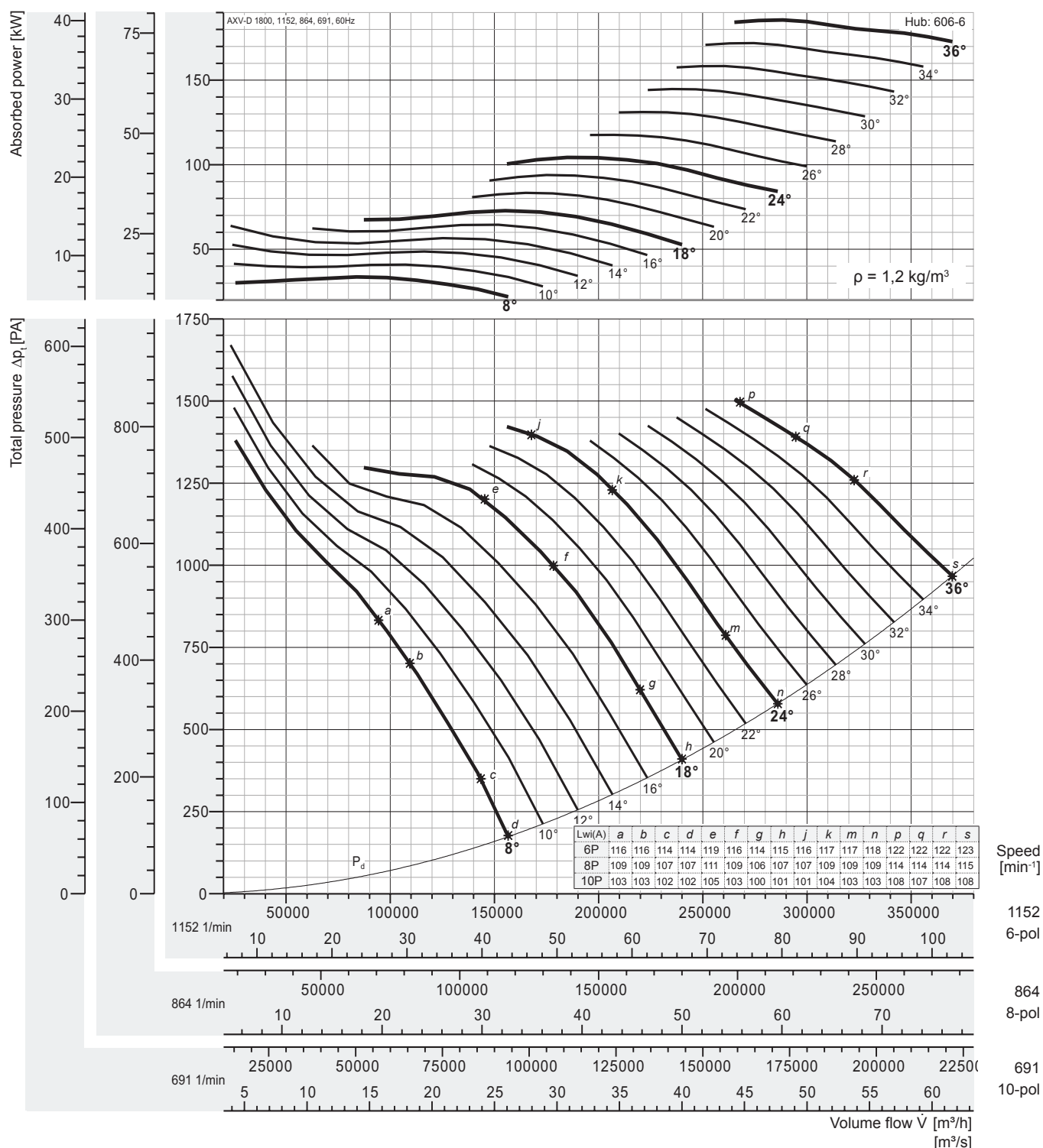


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
691 motor	4,04	4,97	6,32	7,66	7,74	8,74	9,98	11,2	12,5	14,1	15,7	17,4	19,0	20,6	22,3
	5,5		7,5	11				15			18,5		22		30
864 motor	7,89	9,70	12,3	15,0	15,1	17,1	19,5	22,0	24,5	27,5	30,6	33,9	37,2	40,2	43,5
	11		15		18,5		22		30		37		45		
1152 motor	18,7	23,0	29,2	35,5	35,8	40,5	46,2	52,1	58,0	65,2	72,6	80,3	88,1	95,4	103,2
	22	30		37		45	55		75			90		110	

Fan test laboratory AMCA 210/99 Fig. 12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

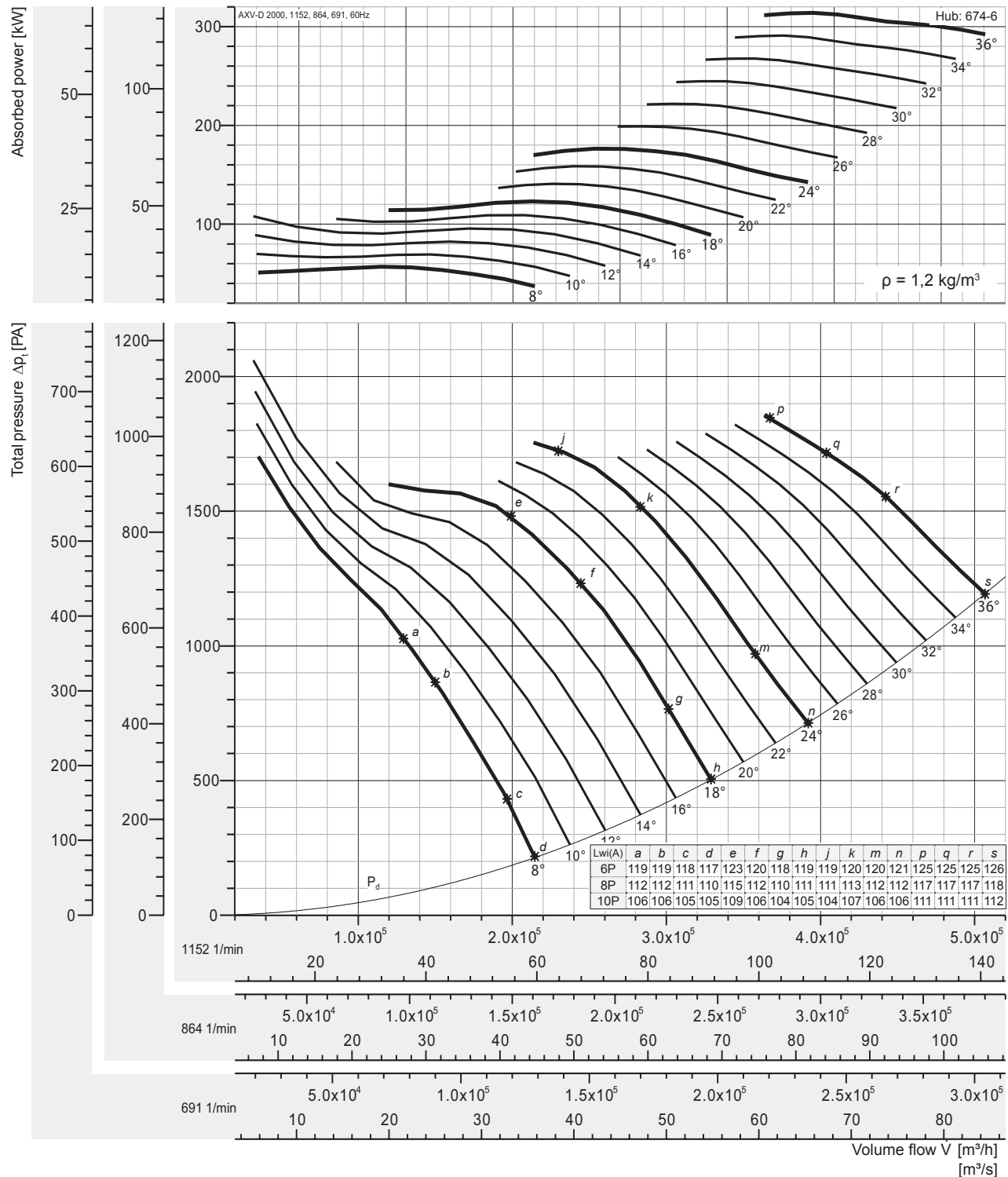


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
691 motor	7,27	8,93	11,4	13,8	13,9	15,7	18,0	20,2	22,5	25,3	28,2	31,2	34,2	37,0	40,1
	7,5	11	15			18,5		22	30			37			45
864 motor	14,2	17,4	22,2	26,9	27,2	30,7	35,1	39,5	44,0	49,4	55,1	61,0	66,8	72,4	78,3
	15	18,5	30			37		45		55	75				90
1152 motor	33,6	41,4	52,6	63,8	64,5	72,8	83,1	93,6	104,3	117,2	130,6	144,5	158,5	171,6	185,6
	37	45	55	75			90	110		132		160		200	

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

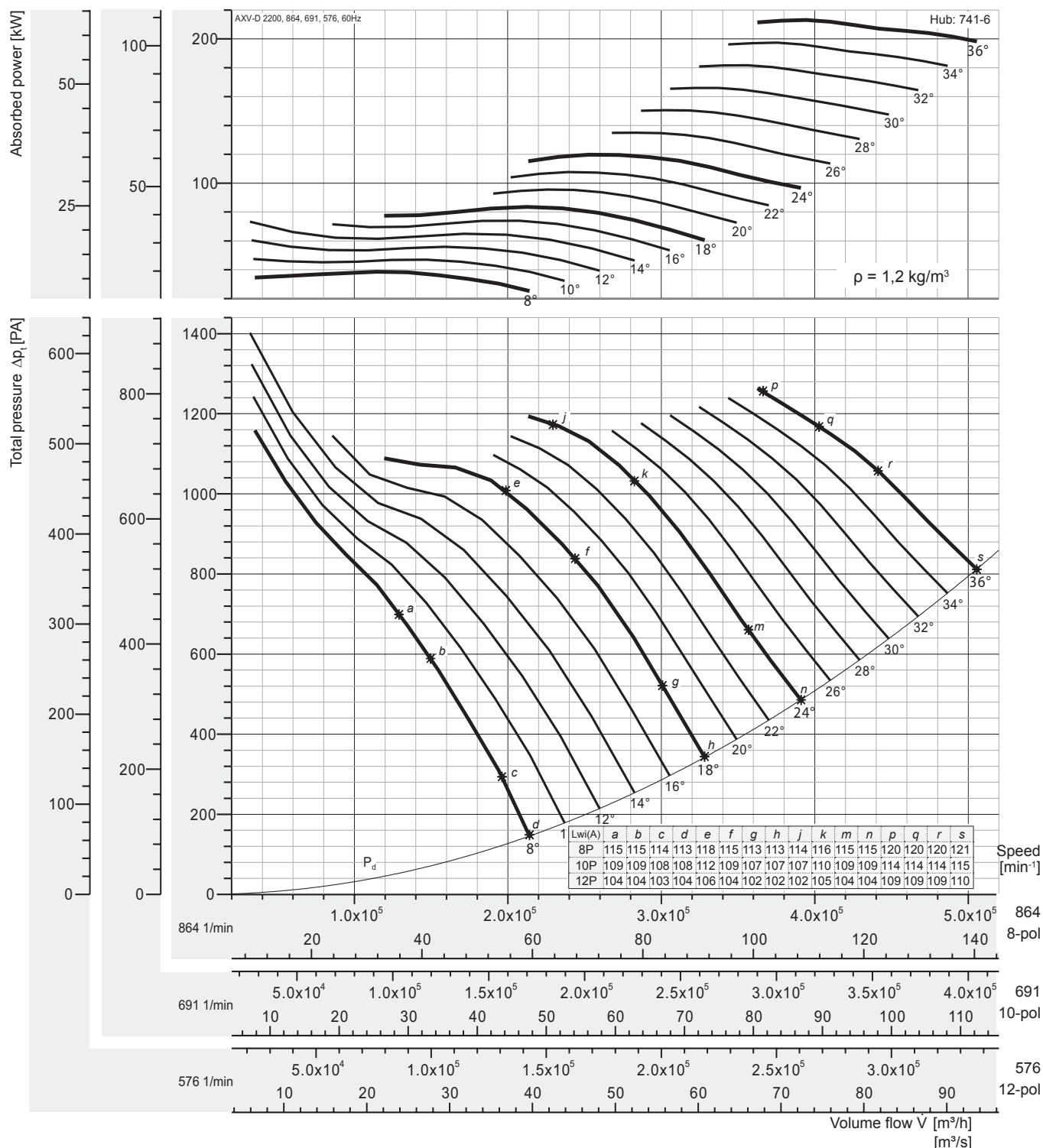


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
691 motor	12,3	15,1	19,2	23,3	23,6	26,6	30,4	34,2	38,1	42,8	47,7	52,8	57,9	62,7	67,8
864 motor	24,0	29,5	37,5	45,5	46,0	52,0	59,3	66,8	74,4	83,6	93,2	103,1	113,1	122,4	132,4
1152 motor	56,9	70,0	89,0	108,0	109,0	123,1	140,6	158,4	176,4	198,3	220,9	244,5	268,0	290,2	313,9

Fan test laboratory AMCA 210/99 Fig. 12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

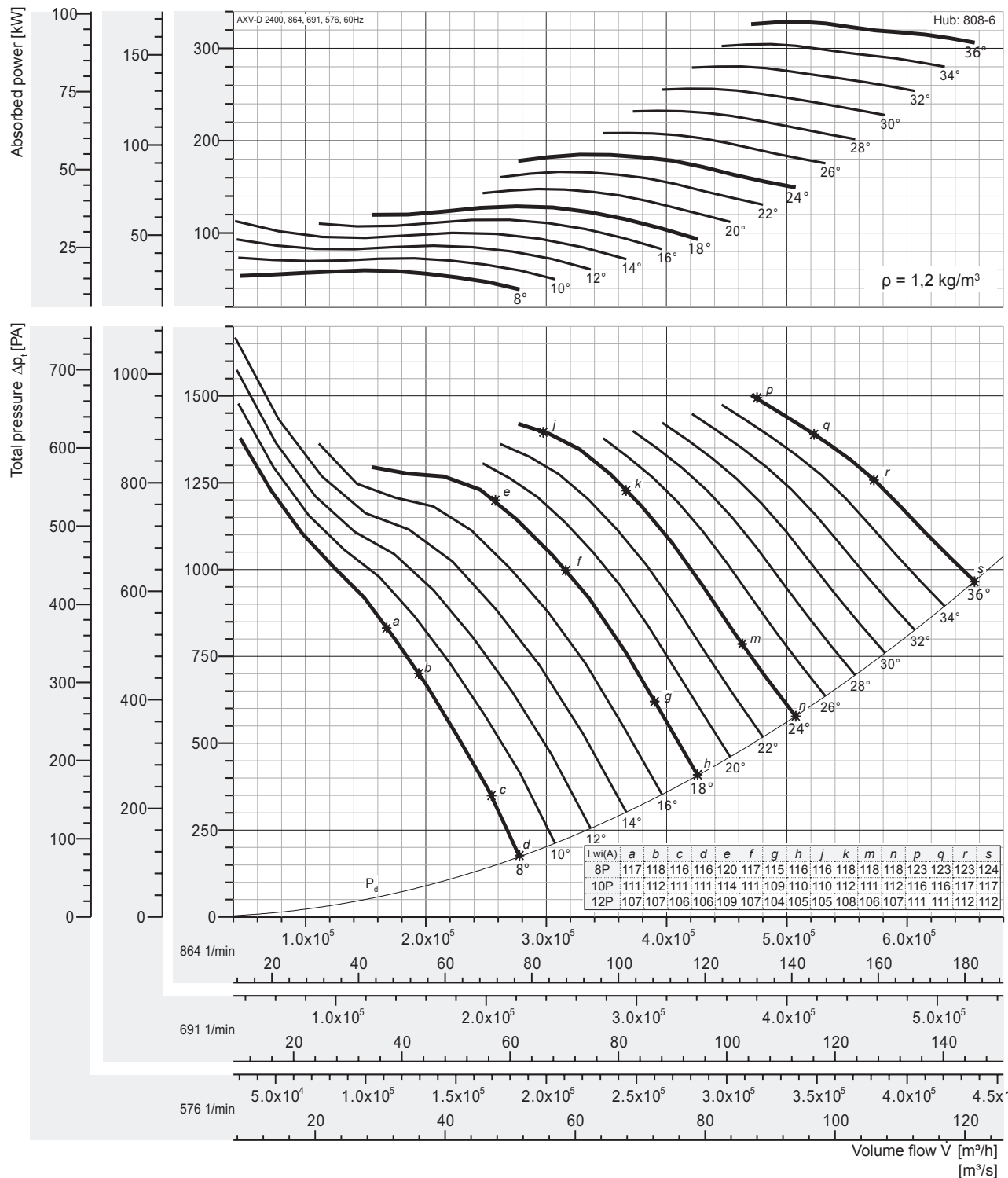


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
576 motor	11,4	14,1	17,9	21,7	21,9	24,8	28,3	31,9	35,5	39,9	44,4	49,2	53,9	58,4	63,1
	15		18,5	22		30		37		45		55		75	
691 motor	19,8	24,3	30,9	37,5	37,9	42,8	48,9	55,0	61,3	68,9	76,8	85,0	93,1	100,9	109,1
	22	30	37	45			55		75		90		110		
864 motor	38,6	47,5	60,4	73,3	74,0	83,6	95,4	107,5	119,7	134,6	149,9	165,9	181,9	197,0	213,1
	45	55	75			90	110		132	160		200			250

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

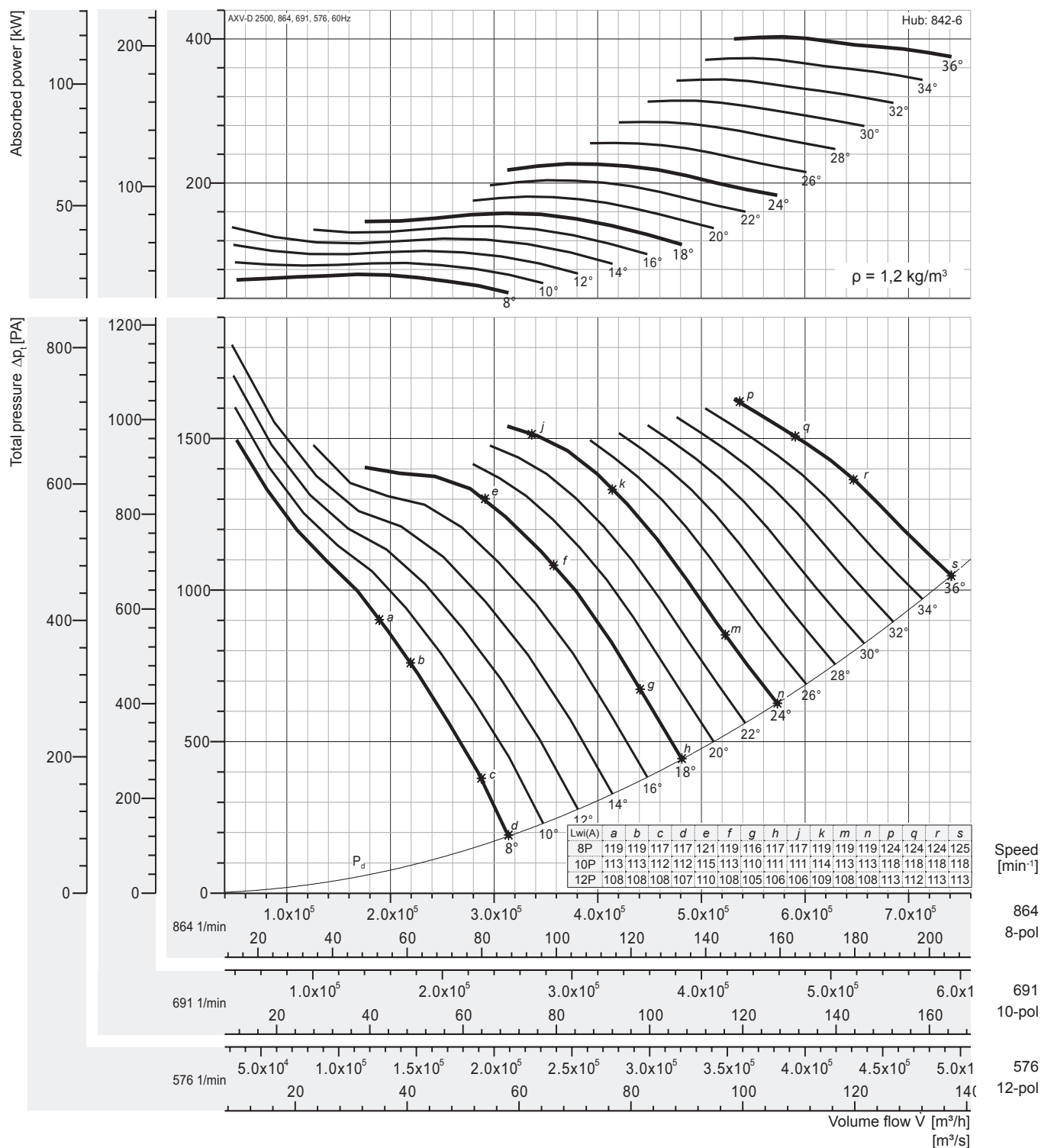


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
576 motor	17,7	21,7	27,6	33,5	33,8	38,2	43,6	49,2	54,7	61,5	68,6	75,9	83,2	90,0	97,4
	18,5	22	30	37		45		55		75		90			110
691 motor	30,5	37,5	47,7	57,9	58,5	66,0	75,4	84,9	94,6	106,3	118,5	131,1	143,7	155,7	168,4
	37	45	55	75			90		110		132		160		200
864 motor	59,6	73,3	93,2	113,1	114,2	129,0	147,3	165,9	184,8	207,7	231,4	256,1	280,7	304,0	328,8
	75		110	132			160	200		250		315			355

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

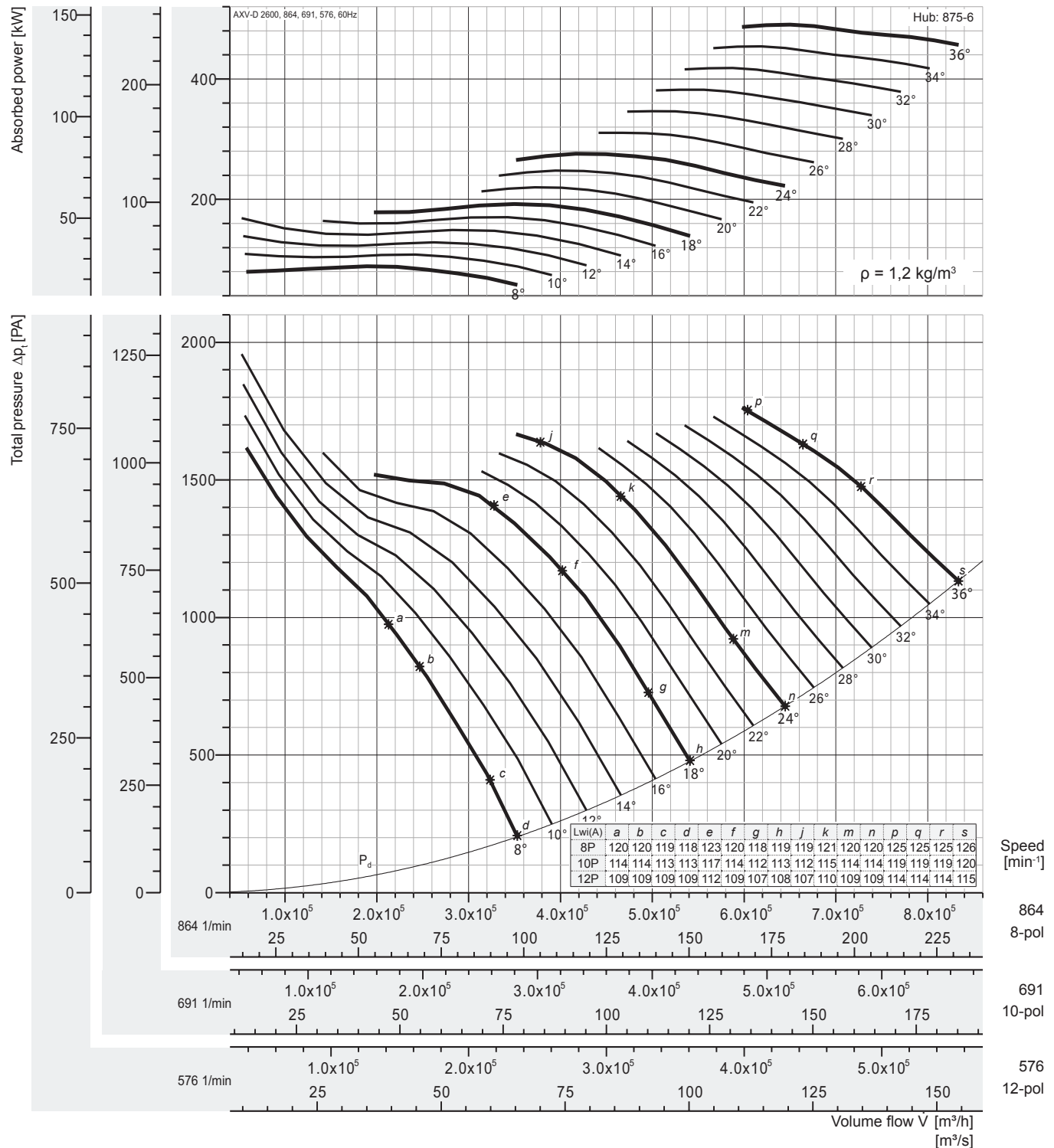


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
576 motor	21,7 22	26,6 30	33,9 37	41,1 45	41,5	46,9 55	53,5	60,3 75	67,1	75,4 90	84,1	93,0 110	102,0	110,4 132	119,5
691 motor	37,4 45	46,0 55	58,5 75	71,0	71,7	81,0 90	92,5 110	104,1	116,0 132	130,4	145,2 160	160,7 200	176,2	190,8	206,4 250
864 motor	73,1 75	89,8 90	114,2 132	138,7 160	140,0	158,1	180,6 200	203,4 250	226,5	254,6 315	283,7	314,0	344,2 355	372,7 400	*403,2 -

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

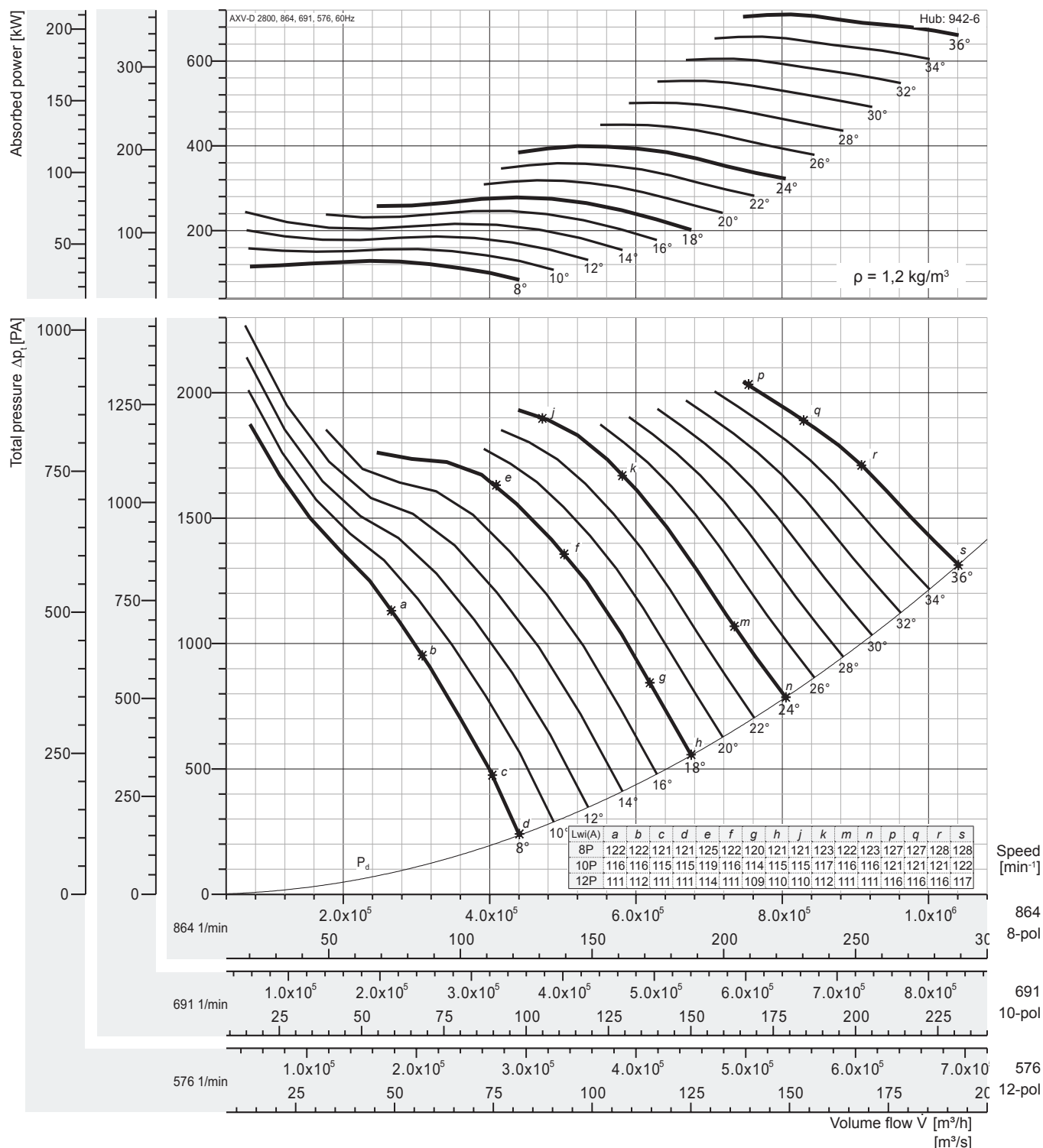


Peak absorbed power [kW]

n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
576 motor	26,3	32,4	41,2	50,0	50,5	57,0	65,1	73,3	81,6	91,7	102,2	113,1	124,0	134,3	145,3
	30	37	45	55		75			90	110		132		160	
691 motor	45,5	55,9	71,1	86,3	87,2	98,5	112,4	126,6	141,0	158,5	176,6	195,5	214,3	232,1	251,0
	55	75		90		110	132		160		200		250		315
864 motor	88,9	109,3	138,9	168,6	170,3	192,3	219,6	247,4	275,5	309,6	345,0	381,8	*418,6	453,3	490,3
	90	110	160	200			250		315		355	400	-	-	-

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.



Peak absorbed power [kW]

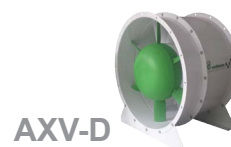
n [min ⁻¹]	Pitch angle [°]														
	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
576	38,1	46,9	59,6	72,3	73,0	82,5	94,2	106,1	118,2	132,8	148,0	163,8	179,5	194,4	210,3
motor	45	55	75	90			110	132	160	200			250		
691	65,9	81,0	103,0	125,0	126,2	142,5	162,8	183,3	204,2	229,5	255,7	283,0	310,2	336,0	363,4
motor	75	90	110	132	160		200	250		315			355		400
864	128,6	158,2	201,1	244,1	246,5	278,4	317,9	358,1	398,8	*448,2	499,4	552,7	605,9	656,2	709,7
motor	160		250		315		355	400		-	-	-	-	-	-

Fan test laboratory AMCA 210/99 Fig.12, Test Chamber. Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories-belt cover, pulley & belt). Power rating (kW) does not include transmission losses.

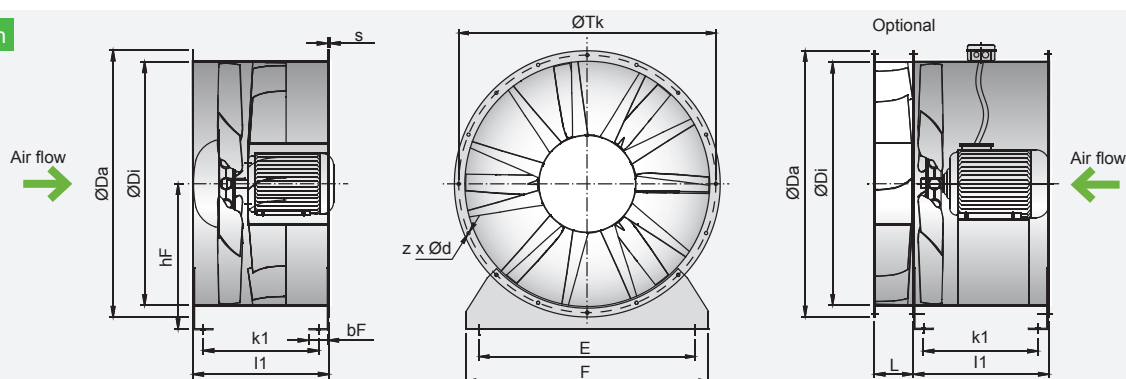
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet Lw(A) sound power levels for installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Vane Axial Flow Fans

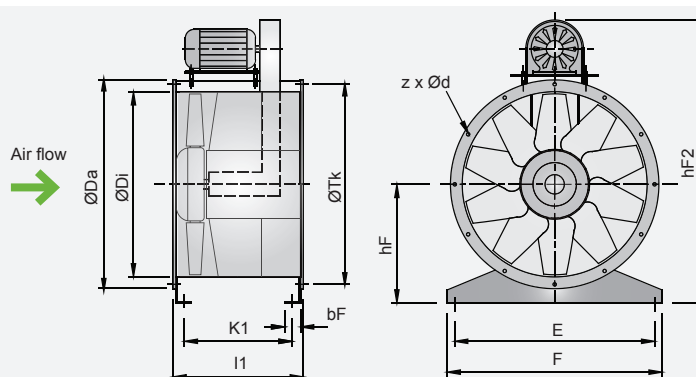
Dimensions



Direct Driven



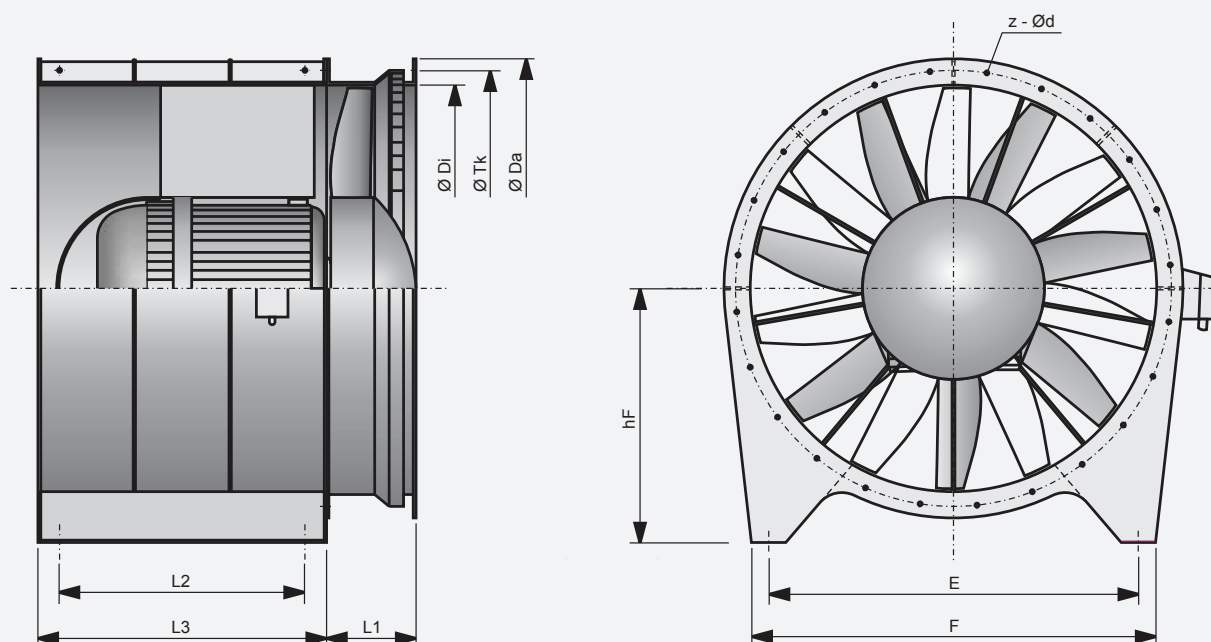
Belt Driven



Model size	Da [mm]	Di [mm]	hF [mm]	hF2 [mm]	z x d [mm]	Tk [mm]	E [mm]	F [mm]	L [mm]	bF [mm]
500	584	503	315	1041	12 x 12	551	440	500	152	70
560	664	565	345	1094	16 x 14	629	500	560	152	70
630	734	634	400	1246	16 x 14	698	570	630	152	70
710	814	711	450	1454	16 x 14	775	650	710	190	70
800	904	797	500	1544	12* x 14	861	730	800	190	80
900	1004	894	580	1746	12* x 14	958	830	900	200	80
1000	1105	1003	630	1821	12* x 14	1067	930	990	200	80
1120	1245	1125	690	1990	16* x 18	1200	1050	1110	240	100
1250	1370	1250	750	2175	16* x 18	1337	1180	1240	240	100
1400	1525	1405	830	2362	16* x 18	1475	1330	1390	260	100
1600	1725	1605	930	2550	20* x 18	1675	1530	1590	260	100

Model size	LH/1				LH/2			
	s [mm]	k1 [mm]	l1 [mm]	motor max.	s [mm]	k1 [mm]	l1 [mm]	motor max.
500	2	327	401	112				
560	2	327	401	112	3	624	700	160
630	2	327	401	112	3	624	700	160
710	2,5	326	401	112	2,5	490	565	132
800	2,5	316	401	112	3	614	700	160
900	3	429	515	132	4	612	700	160
1000	3	429	515	132	4	692	780	180
1120	4	522	630	160	4	892	1000	200
1250	4	522	630	160	4	892	1000	225
1400					4	892	1000	225
1600					4	892	1000	280

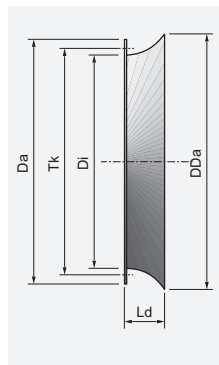
We reserve the right to alter measurements without notice in case of technical improvements.



Baugröße size	Da [mm]	Di [mm]	hF [mm]	z x d [mm]	Tk [mm]	E [mm]	F [mm]	L1 [mm]	L2 [mm]	L3 [mm]
1800	2010	1805	1120	24x18	1920	1660	1800	400	1200	1400
2000	2210	2005	1165	32x18	2120	1820	2000	445	1300	1500
2200	2440	2205	1265	32x18	2340	2020	2200	490	1400	1650
2400	2630	2405	1370	32x18	2530	2220	2400	550	1500	1800
2500	2740	2505	1420	36x24	2640	2320	2500	555	1530	1820
2600	2840	2605	1470	36x24	2740	2380	2600	590	1580	1850
2800	3150	2805	1570	36x24	3000	2500	2800	1300	1680	1900

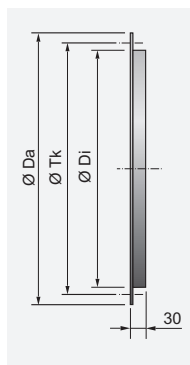
ED

Bellmouth inlet



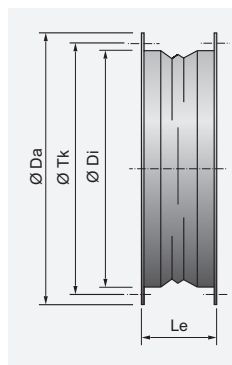
GL-AXV

Matching flange



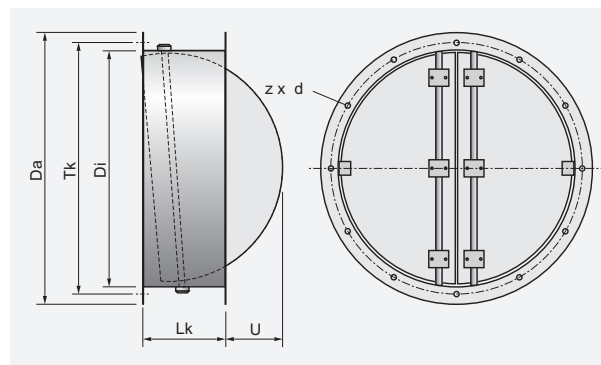
EV-AXV

Flexible connector compl.



LRK

Air-operated damper



Model size	Da [mm]	Di [mm]	Tk [mm]	z x d [mm]	DDa [mm]	Ld [mm]	Lk [mm]	Le [mm]	U [mm]
355	438	359	405	8 x 12	435	165	250	130	-
400	484	401	448	12 x 12	507	165	250	130	-
450	534	450	497	12 x 12	555	165	250	130	15
500	584	504	551	12 x 12	617	165	250	130	45
560	664	565	629	16 x 14	667	165	250	130	80
630	734	634	698	16 x 14	757	165	250	130	120
710	814	711	775	16 x 14	816	170	350	130	60
800	904	797	861	12* x 14	915	250	350	130	110
900	1004	894	958	12* x 14	1015	250	350	130	170
1000	1105	1003	1067	12* x 14	1115	250	350	130	225
1120	1245	1125	1200	16* x 18	1243	250	350	130	255
1250	1370	1250	1337	16* x 18	1364	250	400	170	375
1400	1525	1405	1475	16* x 18	1523	250	400	170	450
1600	1725	1605	1675	20* x 18	1723	250	400	170	550

Sound power levels

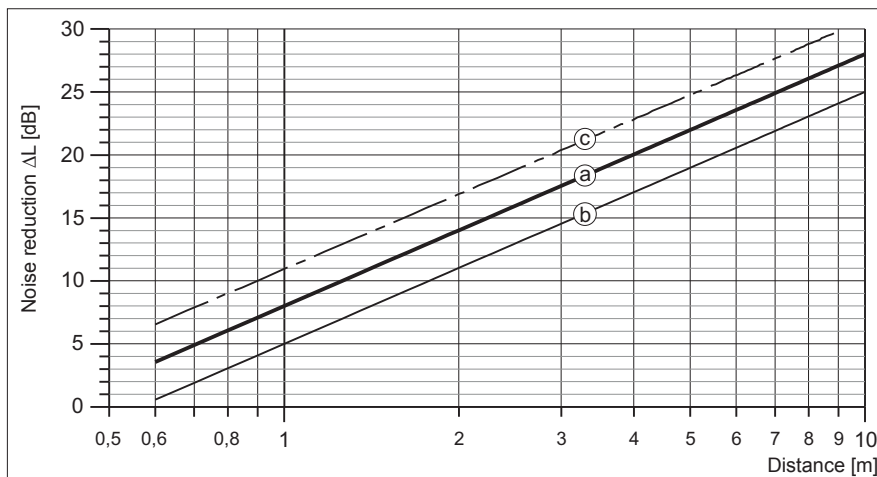
This term refers to the power which a source radiates as sound. Sound power levels are expressed in decibels with a reference level of 1 picoWatt. The sound power level of a source remains the same regardless of its environment and the distance to the listener.

If the sound power frequency spectrum is needed, for as follows: example, the design of sound attenuators, the A-weighted rated sound power levels at particular octave band frequency L_{WA} can be calculated by subtracting the relative sound L_{wrel} .

$$L_{WA} = L_{wi} + L_{wrel}$$

Sound pressure level

These are pressure fluctuations generated by a source expressed in decibels with a reference level of 20 μ Pa. The sound pressure level varies with the distance of a sound source to the listener and its environment.



Sound level reduction half sphere

- a: without reflexion
- b: with reflexion
- c: full sphere without reflexion

Frequencies

Sound is split into different frequencies. Frequencies of human hearing range from about 20 cycles per second (Hz) to 20.000 cycles per second (Hz). For practical purposes, WOLTER publishes noise data in eight octave bands with the centre frequencies of (63,) 125, 250, 500, 1000, 2000, 4000 and 8000 Hz. Each fan has its own specific correction factor which is to be deducted from sound power according to the octave band.

A-weighted sound pressure level in dB (A)

The human ear is more sensitive to sound in some frequencies than in others. The A-weighting is an attempt to reflect this natural perception of sound. The A-weighting is a set of figures which are applied to the sound pressure levels. The levels in each of the octave bands are added logarithmically to give a single figure. The A-weighting over the octave band is as follows:

Table 1)

Frequency [Hz]	63	125	250	500	1000	2000	4000	8000
A-weighting [dB]	-25,5	-15,5	-8,5	-3	0	+1	+1	-1

Table 2)
Addition of sound levels

Difference between two sound levels [dB]	Add to the higher level [dB]
0 - 1	3
2 - 3	2
4 - 9	1
≥10	0

$$L_{\Sigma} = 10 \cdot \lg(10^{0,1 \cdot L_1} + 10^{0,1 \cdot L_2} + \dots + 10^{0,1 \cdot L_n})$$

where:

L_1 = sound level of a source 1

L_{Σ} = resulting summation sound level

Summation of several congeneric sound levels

$$L_{\Sigma} = L_1 + 10 \cdot \lg(z)$$

where:

z = number of sources

L_1 = sound level of a single source

L_{Σ} = resulting summation sound level

Vane Axial Flow Fans

Sound Information

Relative Sound Power Frequency Spectrum (L_{wrel}) [dB]

Fan Model	Poles	63	125	250	500	1000	2000	4000	8000
Size	[-]	[Hz]	[Hz]	[Hz]	[Hz]	[Hz]	[Hz]	[Hz]	[Hz]
500	4	-6	-3	-8	-17	-25	-28	-30	-34
	6	-3	-5	-12	-21	-25	-27	-30	-35
	8	-2	-6	-13	-20	-22	-24	-28	-33
560	4	-6	-3	-8	-18	-26	-29	-31	-35
	6	-3	-6	-12	-22	-26	-28	-31	-36
	8	-2	-6	-14	-20	-23	-25	-29	-34
630	4	-6	-3	-8	-18	-27	-29	-32	-35
	6	-2	-6	-12	-22	-26	-29	-31	-36
	8	-2	-6	-14	-21	-24	-26	-30	-35
710	4	-6	-3	-9	-19	-27	-30	-32	-36
	6	-2	-6	-13	-23	-27	-29	-32	-37
	8	-2	-6	-14	-22	-24	-27	-30	-36
800	4	-8	-3	-7	-16	-18	-19	-21	-27
	6	-4	-4	-12	-15	-17	-18	-22	-31
	8	-3	-6	-13	-14	-15	-17	-23	-33
900	4	-8	-2	-7	-16	-18	-20	-21	-28
	6	-4	-4	-13	-16	-18	-18	-22	-32
	8	-2	-6	-13	-14	-16	-17	-24	-34
1000	4	-7	-2	-8	-17	-19	-20	-22	-28
	6	-4	-4	-13	-16	-18	-19	-23	-32
	8	-2	-6	-13	-15	-16	-18	-24	-35
1120	4	-7	-2	-8	-17	-19	-21	-22	-29
	6	-4	-4	-13	-17	-19	-20	-24	-33
	8	-2	-6	-14	-15	-17	-18	-25	-35
1250	4	-7	-4	-8	-10	-13	-16	-18	-24
	6	-5	-5	-9	-11	-14	-17	-21	-29
	8	-3	-7	-9	-12	-15	-18	-23	-33
1400	6	-5	-5	-10	-12	-15	-18	-22	-30
	8	-4	-7	-9	-12	-15	-18	-24	-33
	10	-4	-7	-9	-12	-15	-18	-25	-34
1600	6	-5	-5	-10	-12	-16	-18	-22	-31
	8	-3	-7	-10	-12	-16	-18	-24	-34
	10	-3	-7	-9	-12	-15	-19	-26	-35

• Sound power frequency spectrum calculated with this L_{wrel} are not licensed by AMCA International.

Relative Sound Power Frequency Spectrum (L_{wrel}) [dB]

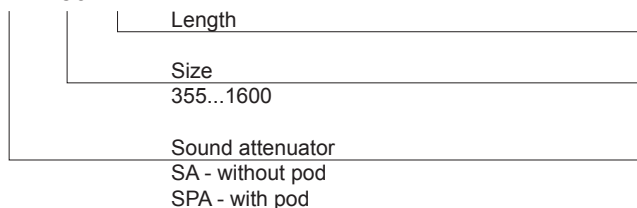
Fan Model	Poles	63	125	250	500	1000	2000	4000	8000
Size	[-]	[Hz]	[Hz]	[Hz]	[Hz]	[Hz]	[Hz]	[Hz]	[Hz]
1800	6	-5	-5	-10	-12	-16	-18	-23	-31
	8	-3	-7	-10	-13	-16	-19	-25	-34
	10	-3	-8	-9	-13	-16	-19	-26	-35
2000	6	-4	-5	-10	-13	-16	-19	-23	-31
	8	-3	-7	-10	-13	-16	-19	-25	-34
	10	-3	-8	-10	-13	-16	-19	-27	-35
2200	8	-3	-7	-11	-13	-17	-19	-25	-34
	10	-3	-8	-10	-13	-16	-20	-27	-36
	12	-3	-7	-9	-13	-15	-20	-28	-36
2400	8	-3	-8	-11	-14	-17	-20	-26	-35
	10	-3	-8	-10	-13	-16	-20	-27	-36
	12	-3	-7	-10	-13	-16	-20	-28	-36
2500	8	-3	-8	-11	-14	-17	-20	-26	-35
	10	-3	-8	-10	-14	-16	-20	-27	-37
	12	-3	-7	-10	-13	-16	-20	-28	-36
2600	8	-3	-8	-11	-14	-17	-20	-26	-35
	10	-3	-8	-10	-14	-17	-20	-27	-37
	12	-3	-8	-10	-13	-16	-20	-28	-36
2800	8	-3	-6	-11	-13	-17	-19	-24	-33
	10	-2	-8	-11	-14	-17	-20	-26	-35
	12	-3	-8	-11	-14	-17	-20	-27	-36

• Sound power frequency spectrum calculated with this L_{wrel} are not licensed by AMCA International.

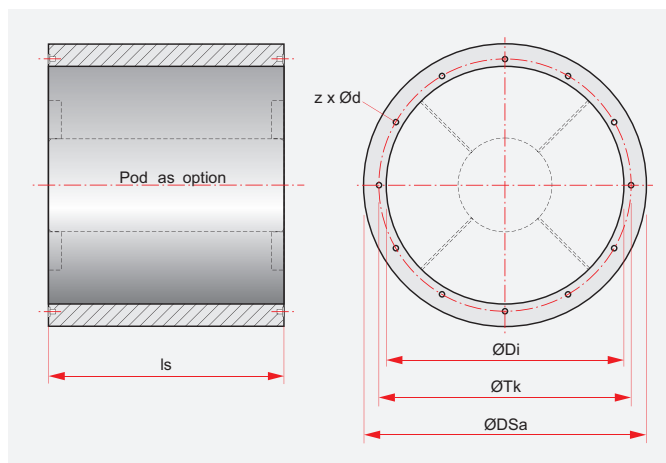
Tubular Sound Attenuator for AXV-D

SA, SPA

SPA 450 -1D



Attenuators made of galvanised sheet steel. Connecting flanges correspond to those of the AXV axial fan series.

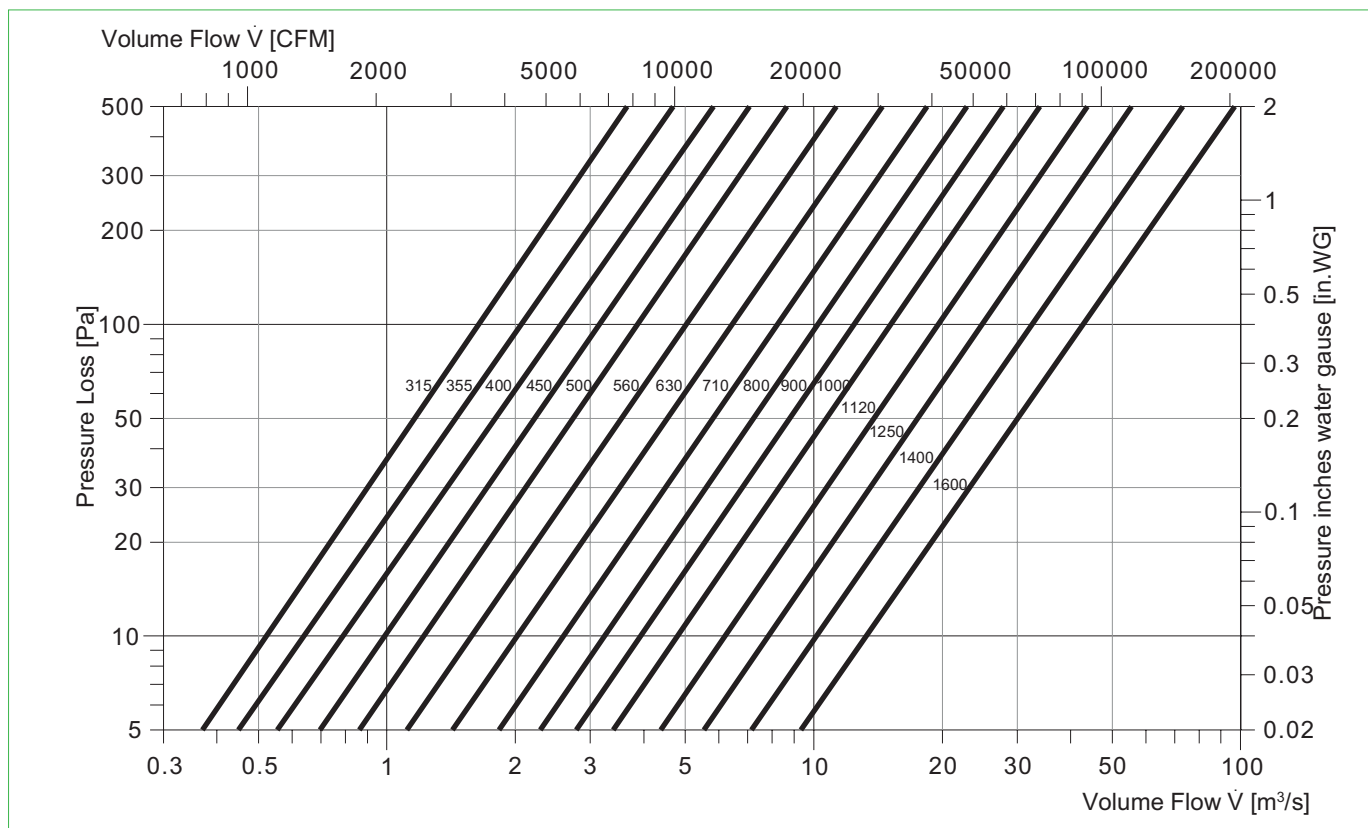


Size	DSa	Tk	Di	ls						Length	Type	Pitch angle	Octave band mid-frequency [Hz]																		
	[mm]	[mm]	[mm]	x 1D [mm]	x 2D [mm]	SA-1D [kg]	SPA-1D [kg]	SA-2D [kg]	SPA-2D [kg]				setting	63	125	250	500	1k	2k	4k	8k										
355 400 450	459 601 650	405 448 497	359 401 450	355 400 450	710 800 900	12 14 18	18 23 29	16 19 23	23 29 36	1D	SA-1D	all	2	4	6	10	14	10	7	8											
												SPA-1D	low	4	6	8	13	20	21	18	16										
													med	4	6	8	12	18	19	18	14										
													high	4	6	8	11	13	16	16	11										
											2D	SA-2D	low	4	7	12	18	22	17	12	13										
													med	4	7	11	17	21	17	13	12										
													high	4	7	10	15	19	16	13	10										
												SPA-2D	low	7	10	15	24	32	35	30	28										
										med	7		10	15	21	26	26	24	22												
										high	7		10	15	16	15	17	13	13												
										500 560 630 710 800	704 765 834 911 997		551 629 698 775 861	504 565 634 711 797	500 560 630 710 800	1000 1120 1260 1420 1600	22 25 29 37 69	36 41 47 60 108	28 31 37 47 90	43 50 59 75 141	1D	SA-1D	all	3	4	8	14	14	9	8	7
												SPA-1D											low	4	6	9	17	26	21	18	12
																							med	4	6	9	17	23	20	18	11
																							high	4	6	9	16	17	16	14	11
2D	SA-2D	low	6	8	14	23	24	15	13			10																			
		med	6	8	13	22	22	14	13			9																			
		high	6	8	12	20	18	13	11			9																			
	SPA-2D	low	8	11	16	30	39	35	32			22																			
med		8	11	16	27	32	32	29	19																						
high		8	11	16	24	23	23	24	17																						
900 1000 1120 1250		1094 1203 1325 1450	958 1067 1200 1337	894 1003 1125 1250	900 1000 1120 1250	1800 2000 2240 2500	86 125 132 146	135 190 210 234	112 156 169 185			176 234 260 294									1D	SA-1D	all	3	4	9	14	12	8	7	7
	SPA-1D																						low	4	6	11	22	21	16	14	11
																							med.	4	6	11	20	19	15	13	11
																							high	4	6	11	17	17	14	12	11
	2D									SA-2D	low		6	8	14	22	20	13	12	10											
											med.		6	8	13	21	18	12	11	10											
											high		6	8	12	19	15	11	10	9											
										SPA-2D	low		8	11	19	30	32	30	24	17											
	med.										8		11	19	26	27	26	22	17												
	high										8		11	19	21	20	22	20	16												
	1400 1600										1605 1805		1475 1675	1405 1605	1400 1600	2800 3200	197 275	316 540	250 348	397 682	1D	SA-1D	all	4	5	10	14	11	7	6	6
										SPA-1D													low	5	7	12	21	20	14	12	9
																							med.	5	7	12	19	18	13	11	9
																							high	5	7	12	15	16	12	10	8
2D		SA-2D	low	8	9	15	20	19	12	11		9																			
			med.	8	9	14	20	17	11	10		9																			
			high	8	9	13	19	14	10	9		9																			
		SPA-2D	low	10	14	22	28	31	29	18		15																			
med.			10	14	22	25	27	25	16	15																					
high			10	14	22	21	21	21	15	14																					

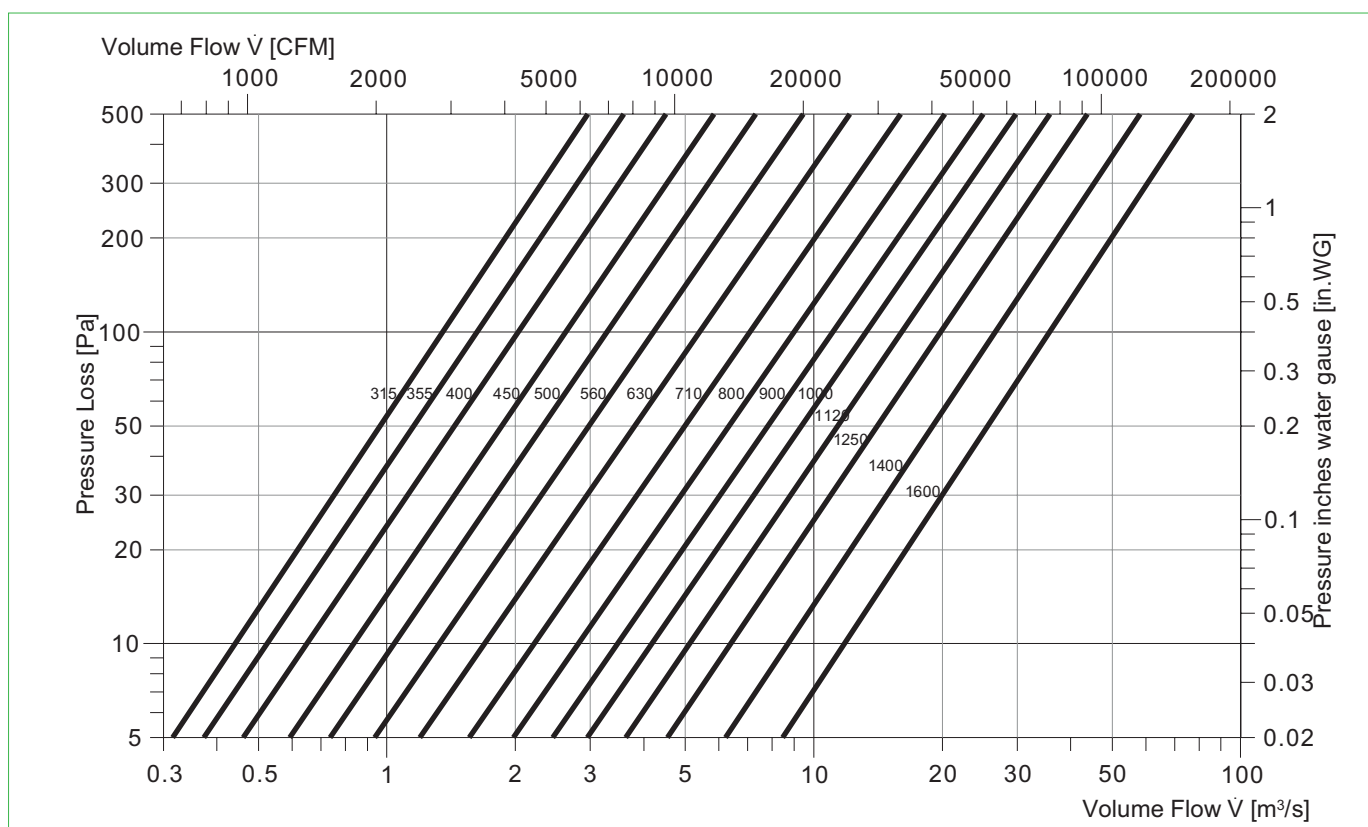
• Low, Medium and High Pitch Angle setting correspond to 10°, 22° and 35° pitch angle approximately: for other pitch angles use interpolation.

• Sizes 1800 - 2800 TBA.

Pressure Loss SPA - 1D



Pressure Loss SPA - 2D



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