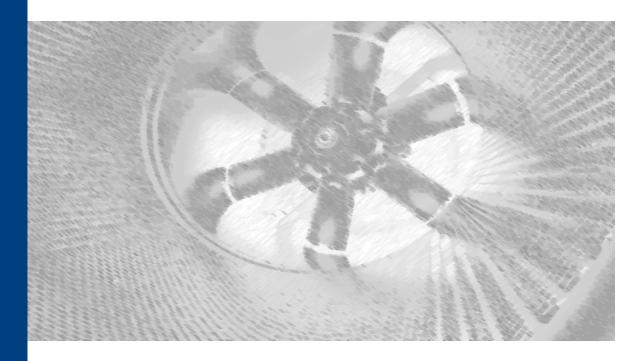


AXIAL FLOW FAN

AXF Series





CATALOGUE ID: ETC-AXF-2023-EDUSV0 NOVEMBER 2023



OUR VISION

We commit to provide our customers with our best service. We fully realize that nothing will endure unless it is built upon truth and justice. Therefore; we will not engage in any transaction which does not help all whom it affects.

Our aim is to achieve the highest level of development using all our resources and creativity to make our country a better place to live.

Webelieve that our work must be based on honesty and integrity and we also firmly believe in the fundamental importance of the trust among all.



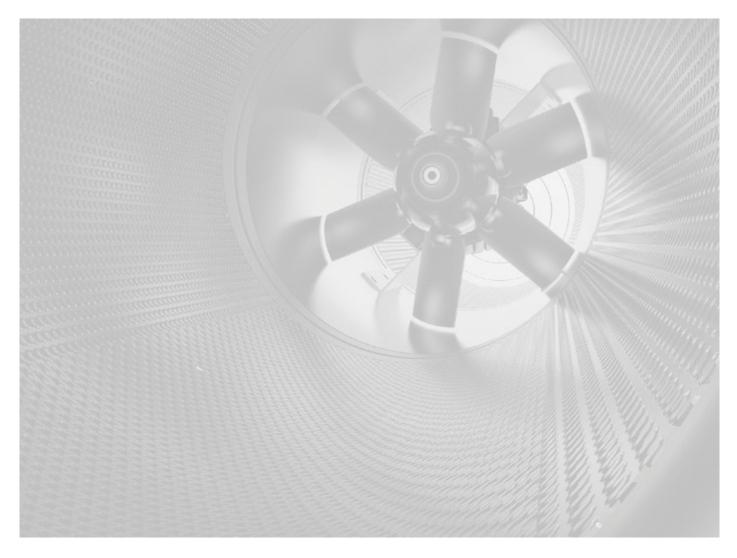


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INTRODUCTION: AXF SERIES FAN



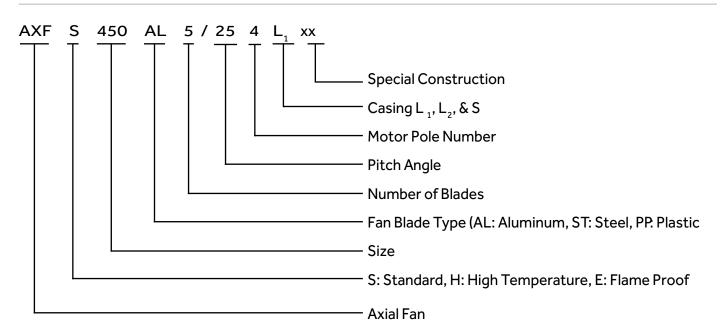
The AXF Series of axial fans was designed by Twin City Fan & Blower They are licensed to bear AMCA Seal. The AXF axial fans ranges includes 15 sizes as described in this catalogue. The volume flow ranges of AXF varies from 1,000 m3/h to 230,000 m3/h.

"Twin City Fan & Blower certifies that the AXF Axial Flow fan 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."

All of the Axial Flow Fans described here are licensed to bear the AMCA seal, and their certified ratings are shown on pages 08 - 23



TYPE CODE



Features and Construction:

AXF Axial flow fans are specially manufactured for all applications and mounting positions in case sizes 315 to 1600 mm diameter. The performance range is from $1000 \text{ m}^3/\text{h}$ up to $230000 \text{ m}^3/\text{h}$ air volume, at total pressure up to 1500 Pa. Performance curve of the sample applied to conventional axial flow fans. In the case of special purpose fans, such as high temperature, high pressure, explosion-proof, fire smoke, corrosion resistance, etc..Please consult factory.

Casings:

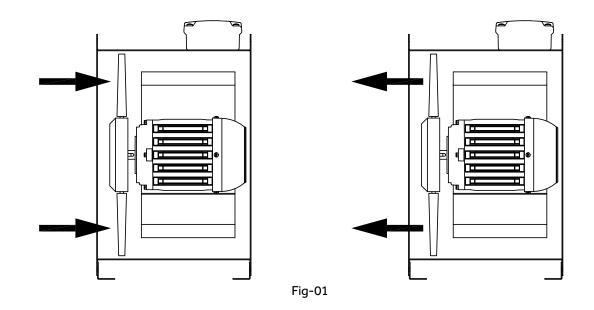
Fan casing and motor brackets are made of mild steel. All steel parts are hot dip galvanised after manufacturing. . Elanges on both ends, drilled in accordance to DIN 24154,R2 are integrated.

Impellers:

AXF Impellers hubs and blades are made of diecastcaluminium alloy. The aerodynamical profilecgurantees high efficiency and low noise The pitch adjustable blades allow correct duty point setting. The variable number of blades increases the performance range.







Motors

AXF uses standard closed squirrel cage motors rated to IEC 34, if required also in acordance to EPACT. The standard motor have Class F and enclosure IP 55. Continuous operating range from -40 0C to +40 0C, other operating conditions on demand. The motor bearings have L 10 life.

Forms of Running

AXFAxial flow fans are available for all forms of running. The Fig- 01 shows all standared forms of running, please indicate when ordering. Standard form of running Motor or impeller direction. Form of running is especially relevant when wheather proof motors are required. One label on the fan casing indicates the direction of fan and rotation of the impeller.

Fan Performance Curves

The performance curves for these fans types have been established in mounting position Dand show the total pressure increase P_t 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 Reverberant Room method according to AMCA 300. In the performance curves shows the A-weighted sound power levels.

*If you have a particular need, please contact the factory.

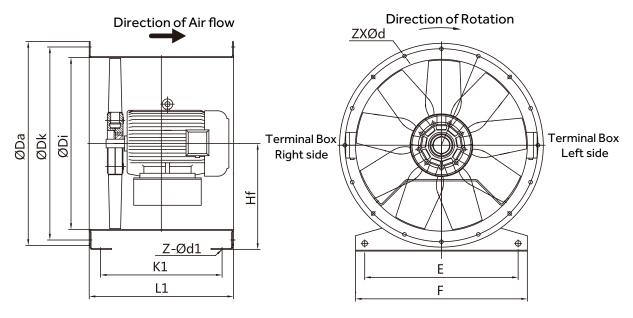
*Energy industrial fans reserves the right to change the design, techanical specification and dimensions without prior notice.

Ordering the Fan

When ordering please specify the below.

- Fan type and running form
- Fan code and type:
- Quantity required
- Duty required at standard air temperature , air volume in m3/h at static pressure in Pa.
- Motor power rating in KW
- Electrical supply
- Accessories required

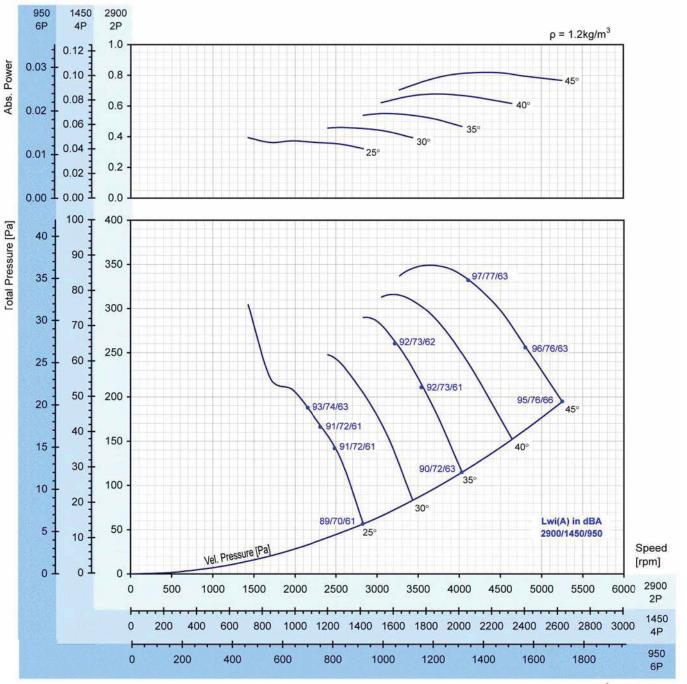




Size	ØDi (mm)	ØDa (mm)	ØDk (mm)	Hf (mm)	E (mm)	F (mm)	L1 (mm)	K1 (mm)	z-Φd (mm)	z-Фd 1 (mm)	max. (mm)
315	320	398	366	205	265	315	420	358	8-Φ10	4-Φ10	¥80
355	359	438	405	225	305	355	420	358	8-Φ10	4-Φ10	¥80
400	401	484	448	250	350	400	435	373	12-Φ10	4-Φ10	¥90
450	450	534	497	280	400	450	435	373	12-Φ10	4-Φ10	Y112
500	503	584	551	315	440	500	470	398	12-Φ10	4-Φ12	Y112
560	560	664	629	345	500	560	470	398	16-Φ12	4- Φ 18	Y112
500	500	004	029	545	500	500	700	626	10-Ψ1Ζ	4-410	Y132
630	633	734	698	400	570	630	470	398	16-Φ12	4-Φ18	Y112
030	033	134	090	400	570	030	700	626	10-ΨΙΖ	4-ΨΙο	Y160
710	710	814	775	450	450	F0 CF0 710 470 396	16-Φ12	4-Φ18	Y112		
/10	710	014	115	450	650	710	700	626	10-412	4-ΨΙΟ	Y132
800	796	904	861	500	730	800	470	386	16-Ф12	4- Φ 18	Y112
800	190	904	801	300	130	800	700	616	10-412	4-410	Y160
900	894	1004	958	580	830	900	565	481	24-Φ12	4-Φ18	Y132
900	094	1004	900	560	030	900	700	616	Ζ4-ΨΤΖ	4-410	Y160
1000	999	1105	1067	630	939	990	565	479	24-Φ12	4- Φ 18	Y132
1000	999	1105	1007	030	939	990	780	696	Ζ4-ΨΤΖ	4-ΨΙο	Y180
1120	1125	1245	1200	600	1050	1110	700	594	24-Φ12	4- Φ 18	Y160
1120	1120	1240	1200	690	1050	1110	1000	894	Ζ4-ΨΙΖ	4-ΨΙδ	Y225
1250	1250	1370	1337	750	1180	1940	700	594	24 012	4- Φ 18	Y160
1200	1290	1370	1997	790	1100	1240	1000	894	24-Φ12	4-410	Y280
1400	1400	1525	1480	850	1330	1390	1000	892	32-Ф14	6-Ф18	Y280
1600	1595	1725	1680	930	1530	1590	1000	892	32-Ф14	6-Ф18	Y315



AXF 315 AL-8-134



Air Volume [m³/h]

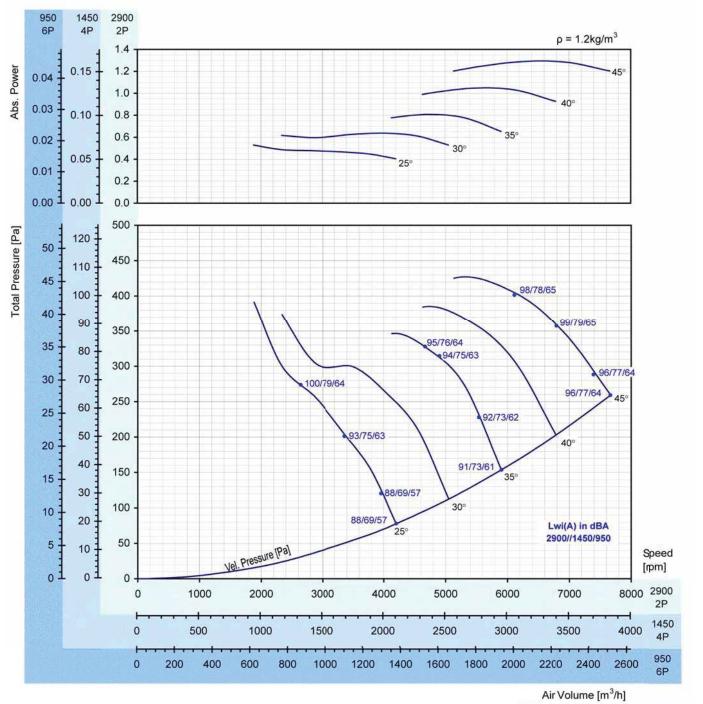
Peak Absorbed Power (kW)

N (rpm)	Blade Pitch Angle						
N (ipin)	25°	30°	35°	40^{0}	45°		
950	0.014	0.016	0.019	0.024	0.029		
motor	0.37	0.37	0.37	0.37	0.37		
1450	0.049	0.057	0.069	0.084	0.102		
motor	0.37	0.37	0.37	0.37	0.37		
2900	0.39	0.46	0.55	0.67	0.82		
motor	0.55	0.55	0.75	0.75	1.1		

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



AXF 355 AL-8-134



Peak Absorbed Power (kW)

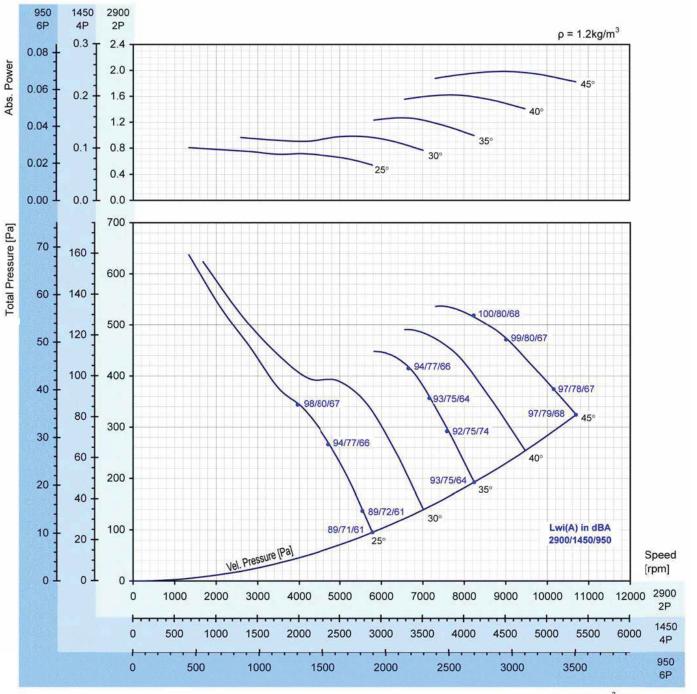
N (rpm)	Blade Pitch Angle						
in (ipili)	25°	30°	35°	40°	45°		
950	0.019	0.022	0.028	0.037	0.045		
motor	0.37	0.37	0.37	0.37	0.37		
1450	0.066	0.080	0.101	0.131	0.161		
motor	0.37	0.37	0.37	0.37	0.37		
2900	0.53	0.64	0.81	1.05	1.29		
motor	0.55	0.75	1.1	1.1	1.5		

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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



AXF 400 AL-8-134



Air Volume [m³/h]

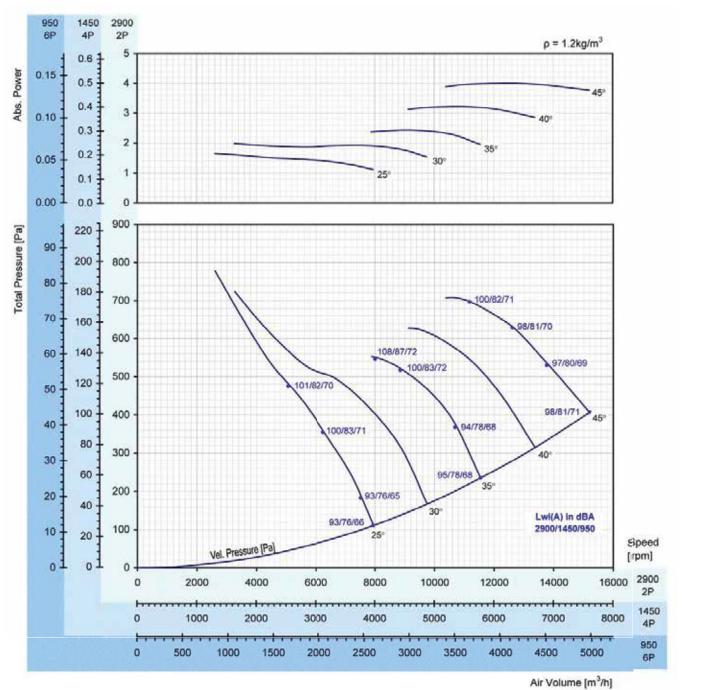
Peak Absorbed Pc	ower (kW)
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N (rpm)	Blade Pitch Angle						
(ipin)	25°	30°	35°	40°	45°		
950	0.028	0.034	0.044	0.057	0.070		
motor	0.37	0.37	0.37	0.37	0.37		
1450	0.101	0.122	0.158	0.203	0.248		
motor	0.37	0.37	0.37	0.37	0.37		
2900	0.81	0.97	1.27	1.62	1.98		
motor	1.1	1.1	1.5	2.2	2.2		

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



AXF 450 AL-10-172



Peak Absorbed Power (kW)

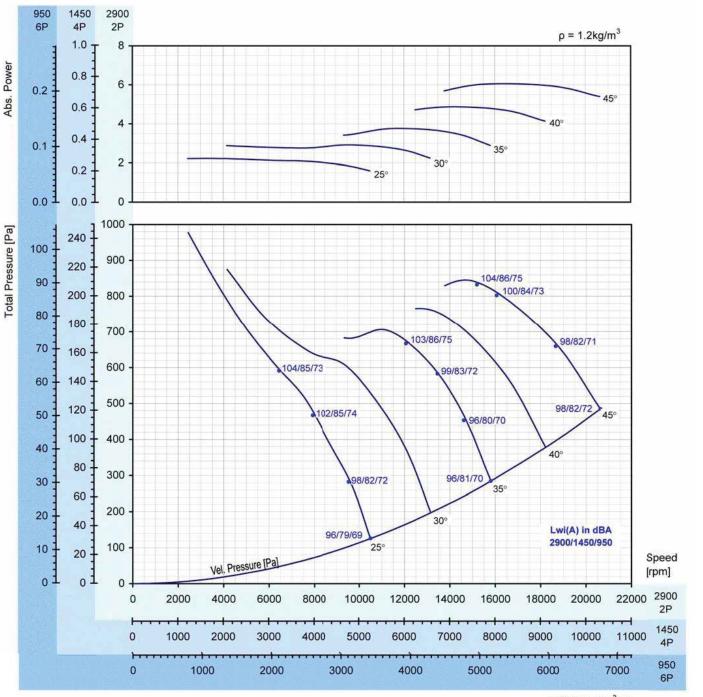
N (rpm)	Blade Pitch Angle						
N (ipili)	25°	30°	35°	40°	45°		
950	0.058	0.070	0.086	0.113	0.141		
motor	0.37	0.37	0.37	0.37	0.37		
1450	0.207	0.248	0.304	0.402	0.501		
motor	0.37	0.37	0.37	0.55	0.55		
2900	1.65	1.98	2.43	3.22	4.01		
motor	2.2	2.2	3.0	4.0	5.5		

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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



AXF 500 AL-10-172



Peak Absorbed Power (kW)

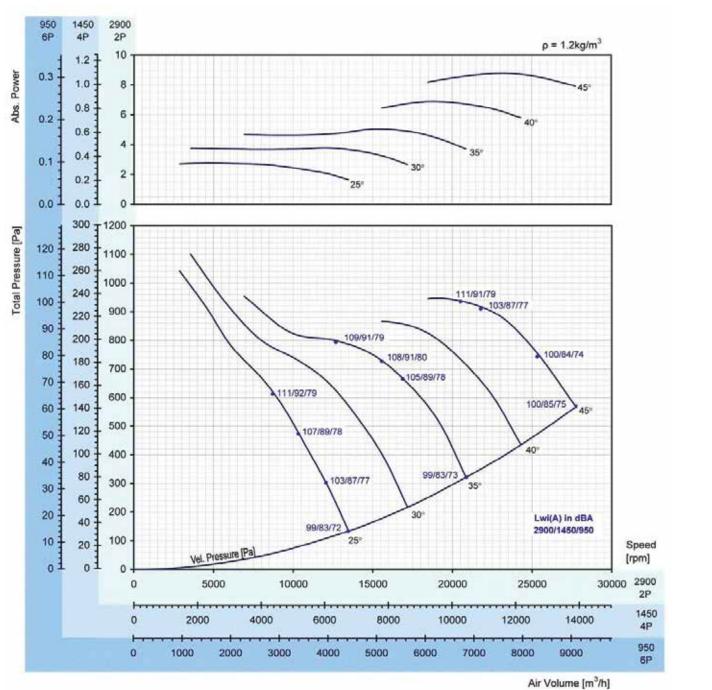
N (rpm)	Blade Pitch Angle						
(ipili)	25°	30°	35°	40°	45°		
950	0.078	0.102	0.132	0.171	0.212		
motor	0.37	0.37	0.37	0.37	0.37		
1450	0.28	0.36	0.47	0.61	0.75		
motor	0.37	0.55	0.55	0.75	1.1		
2900	2.23	2.92	3.74	4.87	6.04		
motor	3.0	4.0	4.0	5.5	7.5		

Air Volume [m³/h]

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



AXF 560 AL-10-172



Peak Absorbed Power (kW)

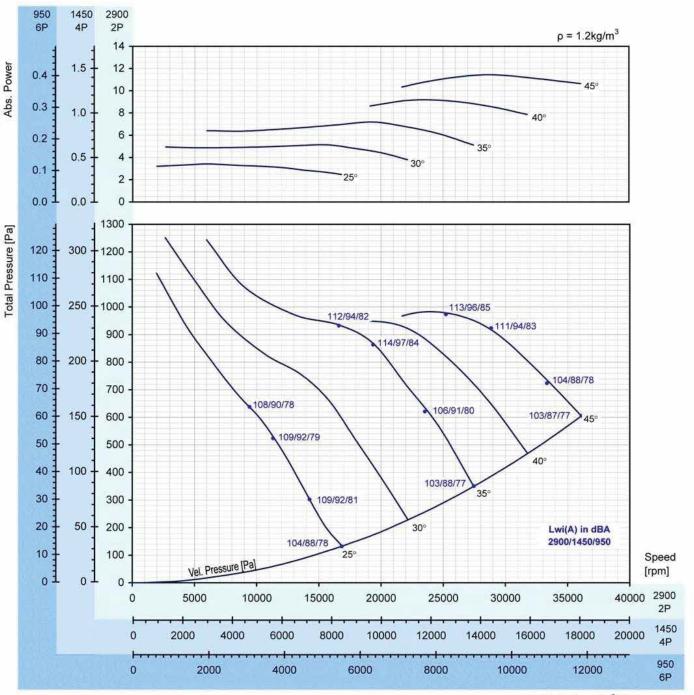
N (rpm)	Blade Pitch Angle						
N (Ipili)	25°	30°	35°	40°	45°		
950	0.098	0.133	0.177	0.243	0.308		
motor	0.37	0.37	0.37	0.37	0.37		
1450	0.35	0.47	0.63	0.86	1.10		
motor	0.37	0.55	0.75	1.1	1.5		
2900	2.78	3.79	5.04	6.90	8.76		
motor	3.0	4.0	5.5	7.5	11.0		

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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



AXF 630 AL-10-172



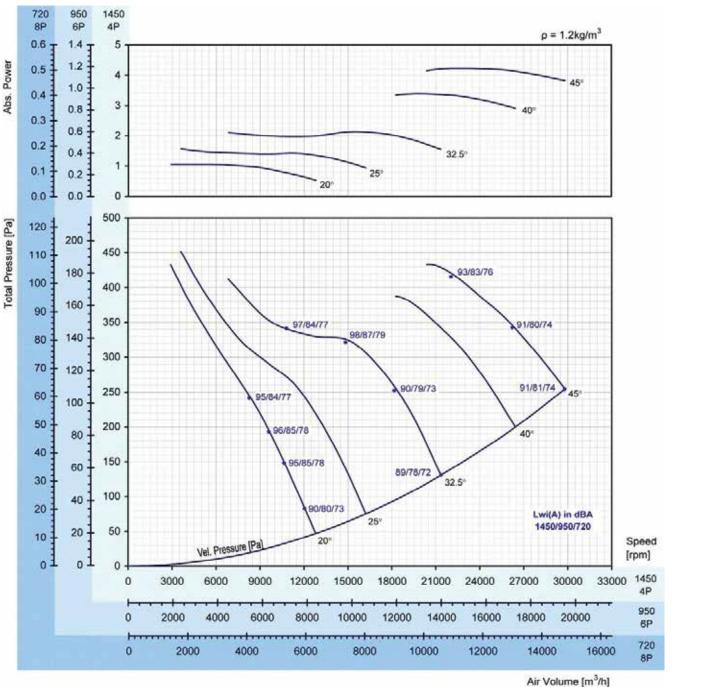
Peak Absorbed Power (kW)

N (rpm)	Blade Pitch Angle						
N (ipin)	25°	30°	35°	40°	45°		
950	0.12	0.18	0.25	0.32	0.40		
motor	0.37	0.37	0.37	0.37	0.55		
1450	0.43	0.64	0.90	1.14	1.43		
motor	0.55	0.75	1.1	1.5	1.5		
2900	3.4	5.1	7.2	9.1	11.4		
motor	4.0	5.5	7.5	11.0	15.0		

Air Volume [m³/h]

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

AXF 710 AL-9-200



 45°

0.515 0.55

1.183

1.5

4.21

5.5

N (rpm)		Bla	ade Pitch Ang	gle	
N (IPIII)	25°	30°	35°	40°	
950	0.129	0.192	0.261	0.411	
motor	0.37	0.37	0.37	0.55	
1450	0.296	0.440	0.599	0.944	
motor	0.37	0.55	0.75	1.1	
2900	1.05	1.57	2.13	3.36	
motor	1.1	2.2	2.2	4.0	

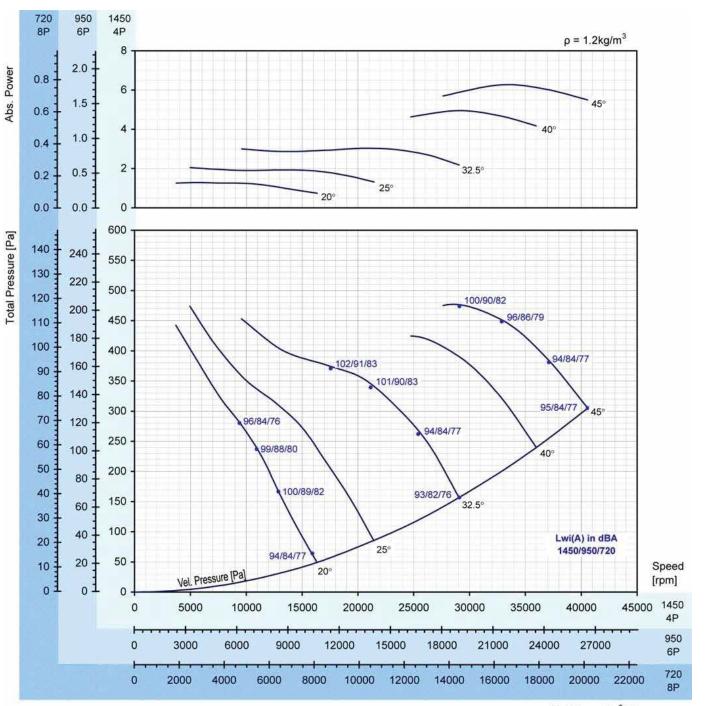
Peak Absorbed Power (kW)

motor

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



AXF 800 AL-9-200



Peak Absorbed Power (kW)

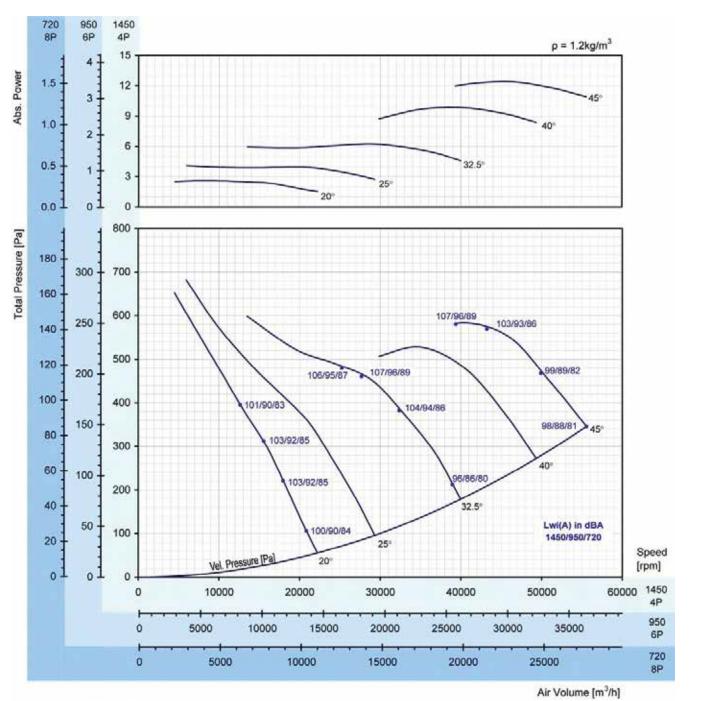
N (rpm)	Blade Pitch Angle						
	25°	30°	35°	40°	45°		
950	0.16	0.25	0.37	0.61	0.77		
motor	0.37	0.37	0.55	0.75	1.1		
1450	0.36	0.58	0.85	1.39	1.76		
motor	0.55	0.75	1.1	1.5	2.2		
2900	1.28	2.05	3.03	4.95	6.27		
motor	1.5	2.2	4.0	5.5	7.5		

Air Volume [m³/h]

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



AXF 900 AL-12-375



Peak Absorbed Power (kW)

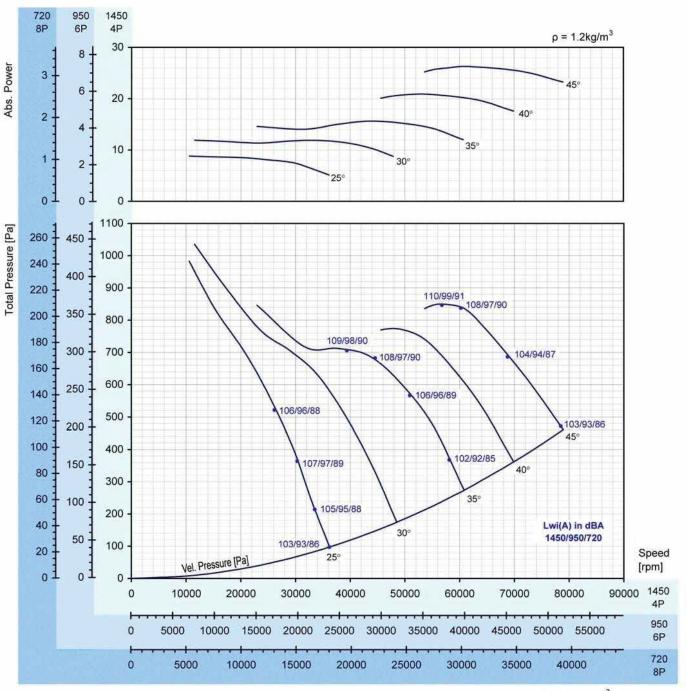
N (rpm)	Blade Pitch Angle				
	25°	30°	35°	40°	45°
950	0.32	0.50	0.77	1.20	1.52
motor	0.37	0.55	1.1	1.5	2.2
1450	0.73	1.15	1.76	2.76	3.49
motor	1.1	1.5	2.2	3.0	4.0
2900	2.60	4.08	6.26	9.82	12.40
motor	3.0	5.5	7.5	11.0	15.0

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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



AXF 1000 AL-16-375



Peak Absorbed Power (kW)

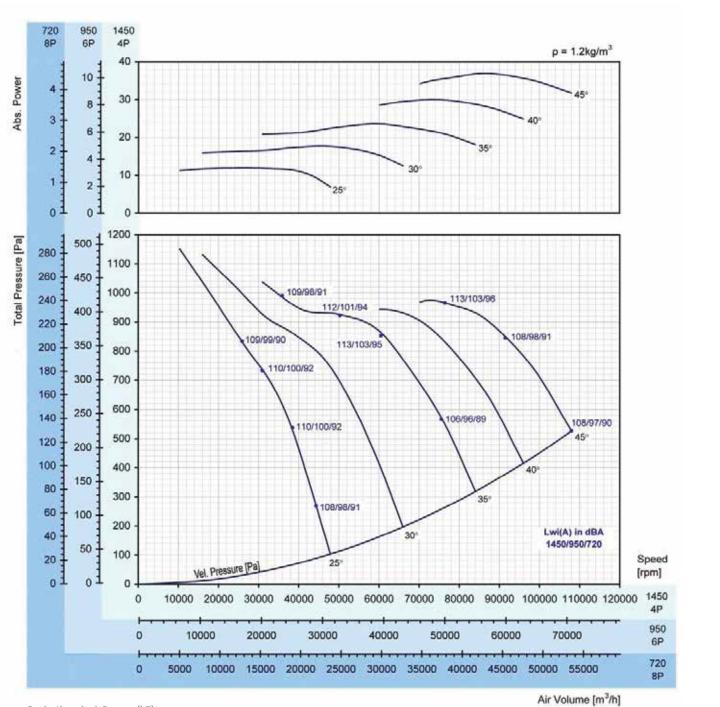
N (rpm)	Blade Pitch Angle					
	25°	30°	35°	40°	45°	
950	1.08	1.46	1.91	2.55	3.21	
motor	1.5	1.5	2.2	3.0	4.0	
1450	2.48	3.35	4.39	5.85	7.38	
motor	3.0	4.0	5.5	7.5	7.5	
2900	8.8	11.9	15.6	20.8	26.2	
motor	11.0	15.0	18.5	22.0	30.0	

Air Volume [m³/h]

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



AXF 1120 AL-16-375



Peak Absorbed Power (kW)

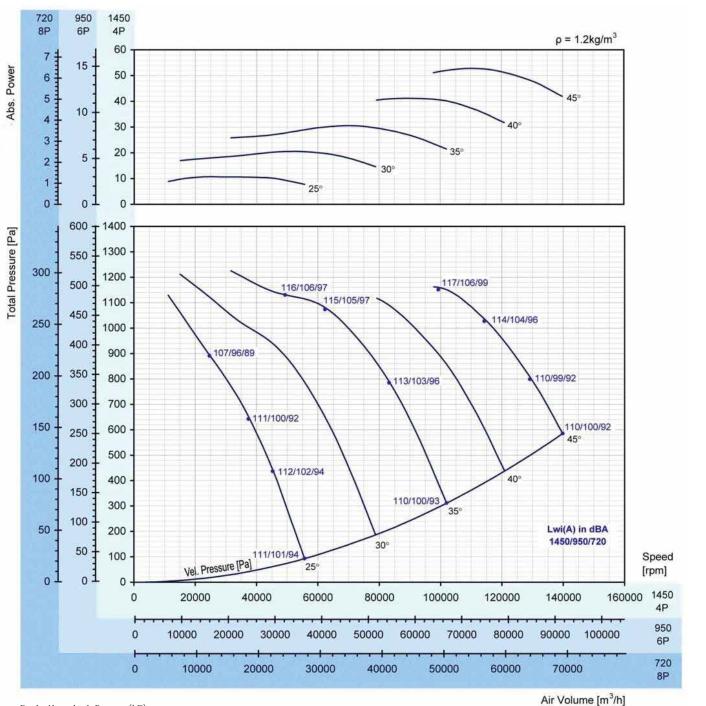
N (rpm)	Blade Pitch Angle					
in (ipiii)	25°	30°	35°	40°	45°	
950	1.46	2.17	2.89	3.65	4.52	
motor	1.5	2.2	3.0	4.0	5.5	
1450	3.35	4.98	6.65	8.38	10.4	
motor	4.0	5.5	7.5	11.0	11.0	
2900	11.9	17.7	23.6	29.8	36.9	
motor	15.0	22.0	30.0	37.0	37.0	

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

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



AXF 1250 AL-16-375



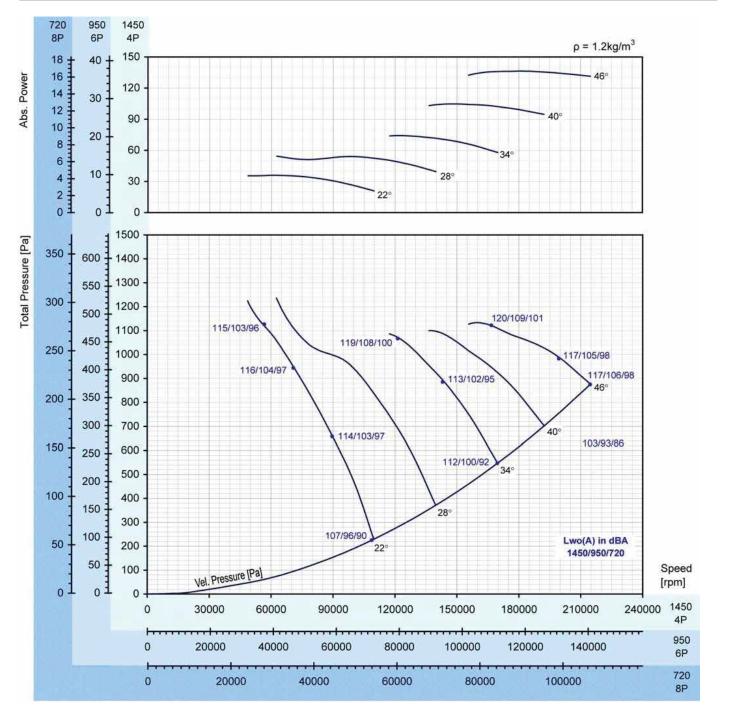
Peak Absorbed Power (kW)

N (rpm)	Blade Pitch Angle					
	25°	30°	35°	40°	45°	
950	1.30	2.51	3.73	4.99	6.44	
motor	1.5	3.0	4.0	5.5	7.5	
1450	3.00	5.77	8.57	11.5	14.8	
motor	4.0	7.5	11.0	15.0	18.5	
2900	10.7	20.5	30.5	40.7	52.6	
motor	11.0	22.0	37.0	45.0	55.0	

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



AXF 1400 AL-10-470



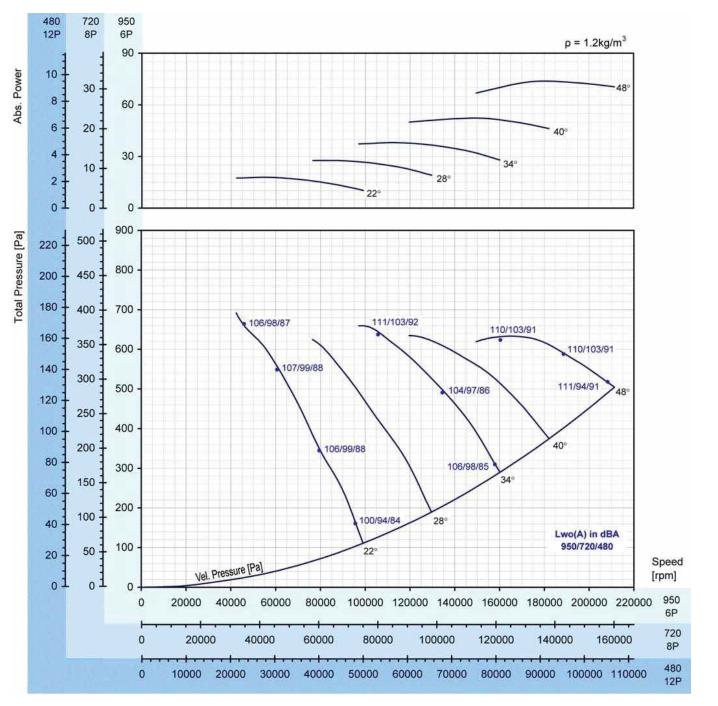
Peak Absorbed Power (kW)

N (rpm)	Blade Pitch Angle					
(ipin)	25°	30°	35°	40^{0}	45°	
950	4.39	6.66	9.05	12.7	16.7	
motor	5.5	7.5	11.0	15.0	18.5	
1450	10.1	15.3	20.8	29.3	38.3	
motor	11.0	18.5	22.0	37.0	45.0	
2900	35.9	54.4	73.9	104.1	136.2	
motor	37.0	75.0	75.0	110.0	160.0	

Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).



AXF 1600 AL-10-470



Peak Absorbed Power (kW)

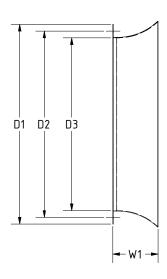
N (rpm)	Blade Pitch Angle					
ia (i biii)	25°	30°	35°	40°	45°	
950	2.31	3.56	4.91	6.75	9.46	
motor	3.0	4.0	5.5	7.5	11.0	
1450	7.8	12.0	16.6	22.8	31.9	
motor	11.0	15.0	18.5	30.0	37.0	
2900	17.9	27.6	38.1	52.4	73.4	
motor	22.0	30.0	45.0	75.0	75.0	

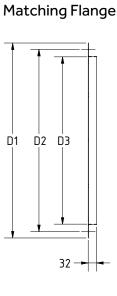
Performance certified is for installation type D- Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

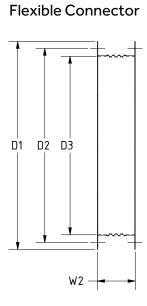


ACCESSORIES

Inlet Cone







Model Size	D1 [MM]	D2 [mm]	D3 [mm]	W1 [mm]	W2 [mm]
355	440	405	360	166	132
400	486	448	402	166	132
450	536	497	451	166	132
500	586	551	505	166	132
560	666	629	566	166	132
630	736	698	635	166	132
710	816	775	712	171	132
800	906	861	798	251	132
900	1006	958	895	251	132
1000	1107	1067	1004	251	132
1120	1247	1200	1126	251	132
1250	1372	1337	1251	251	172
1400	1527	1475	1406	251	172
1600	1727	1675	1606	251	172

Tubular Sound Attenuators for AXF Series Fans

Attenuators made of galvanized sheet steel. Copnnecting flanges correspond to those of the AXF axial fans series.

INDUSTRIAL PROCESS AND COMMERCIAL VENTILATION SYSTEMS

CENTRIFUGAL FANS | UTILITY SETS | PLENUM & PLUG FANS | INLINE CENTRIFUGAL FANS MIXED FLOW FANS | TUBEAXIAL & VANEAXIAL FANS | PROPELLER WALL FANS | PROPELLER ROOF VENTILATORS CENTRIFUGAL ROOF & WALL EXHAUSTERS | CEILING VENTILATORS | GRAVITY VENTILATORS | DUCT BLOWERS RADIAL BLADED FANS | RADIAL TIP FANS | HIGH EFFICIENCY INDUSTRIAL FANS | PRESSURE BLOWERS LABORATORY EXHAUST FANS | FILTERED SUPPLY FANS | MANCODLERS | FIBERGLASS FANS | CUSTOM FANS



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